

Vedlegg



Frønesbrua

Erfaringsrapport fra automatisert produksjon for bygging av stålbruer basert på lasersveis



VEDLEGG

- Vedlegg A: Rapport fra DNVGL på kvalifisering av sveiser
- Vedlegg B: Godkjente og signerte WPQR og WPS for bruk på Frønesbrua
- Vedlegg C: NDT rapporter fra Vitec og Vertikalservice
- Vedlegg D: Sveiselogg

VEDLEGG A: Rapport fra DNVGL på kvalifisering av sveiser



DESTRUCTIVE TESTING

Material Report

Prodtex Industri

Report No.: 2020-5496, Rev. 0

Document No.: 936585

Date: 2020-10-29



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 Report title: Material Report Materials & Testing - Bergen
 Customer: Prodtex Industri, Sjøgata 30 Thormøhlensgt. 49A
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 Date of issue: 2020-10-29
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 Organization unit: Materials & Testing - Bergen
 Report No.: 2020-5496, Rev 0.
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Objective:

Present results from destructive testing.

Prepared by: Verified by: Approved by:

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Draft A	2020-09-21	First draft	MAGLAR	OBJA	
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0	2020-10-29	First issue	MAGLAR	OBJA	MADEID



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1 EXECUTIVE SUMMARY

Destructive testing was performed on six welded SSAB Laser 355 MC Plus plates and tested according to NS-EN ISO 15614-14:2013 [1]. This report will present the results of destructive testing.

2 BACKGROUND INFORMATION

On behalf of Prodtex industry, DNV GL Materials Bergen has performed destructive testing (DT) of six welded plates. The testing was performed according to NS-EN ISO 15614-14:2013 [1].

The welded base material was SSAB's Laser 355 MC Plus. SSAB has informed that this material belongs to steel group 1.2 in ISO/TR 15608:2013 [2] and shall be in accordance with material standard EN 10149-2 [3]. Material certificates received from the client are enclosed in appendices. Welding method used was 135 Laser hybrid. Welding was performed according to pWPS LH-001-BW and LH-002-BW witnessed by a local DNV GL surveyor. Traceability has been confirmed by the DNV GL surveyor (rolling direction unknown).

2.1 Reference documents

The following documents are referenced in this report and can be found in appendices:

- SSAB Material certificate 23-1765 / 51-9273
- Inspection certificate (Filler material) – NST Carbomig 3N
- DT report (Tensile test, Bend test and Impact test)

2.2 Scope of work

This report includes results of the following tests:

- Tensile testing
- Charpy-V Notch testing
- Hardness testing
- Macro examination

2.3 Plates and location of test specimens

The plates are named according to Table 1. The locations of the test specimens are according to NS-EN ISO 15614-14:2013 [1] and shown in Figure 1 below. Each test specimen is named with a unique DNV GL object ID + Specimen ID.

Table 1 - Name and dimension of plates.

Prodtex plate ID	DNV GL plate + Specimen ID	Dimensions [mm]
LH-001-BW1	V1 + Specimen ID	8 x 400 x 800
LH-001-BW2	V2 + Specimen ID	8 x 400 x 800
LH-001-BW3	V3 + Specimen ID	8 x 400 x 800
LH-002-BW1	V4 + Specimen ID	10 x 400 x 800
LH-002-BW2	V5 + Specimen ID	10 x 400 x 800
LH-002-BW3	V6 + Specimen ID	10 x 400 x 800

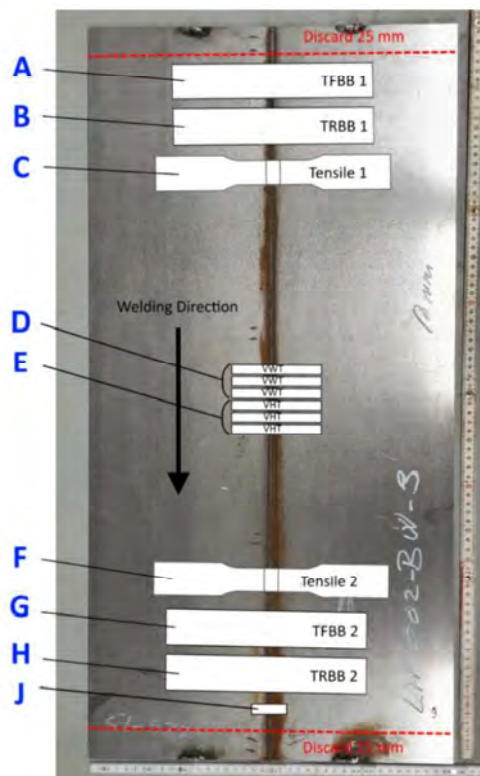


Figure 1 - Shows location of test specimens and specimen ID. A=Transverse Face Bend Specimen (TFBB), B=Transverse Root Bend Specimen (TRBB), C=Transverse Tensile Specimen, D=Charpy specimen (V - Charpy V, W – Notch in weld, T – Notch through thickness), E=Charpy specimen (V - Charpy V, H – Notch in HAZ, T – Notch through thickness), F=Transverse Tensile Specimen, G=Transverse Face Bend Specimen (TFBB), H=Transverse Root Bend Specimen (TRBB) and J=Macro and hardness test specimen

3 TEST RESULTS

3.1 Cross Weld Tensile Tests

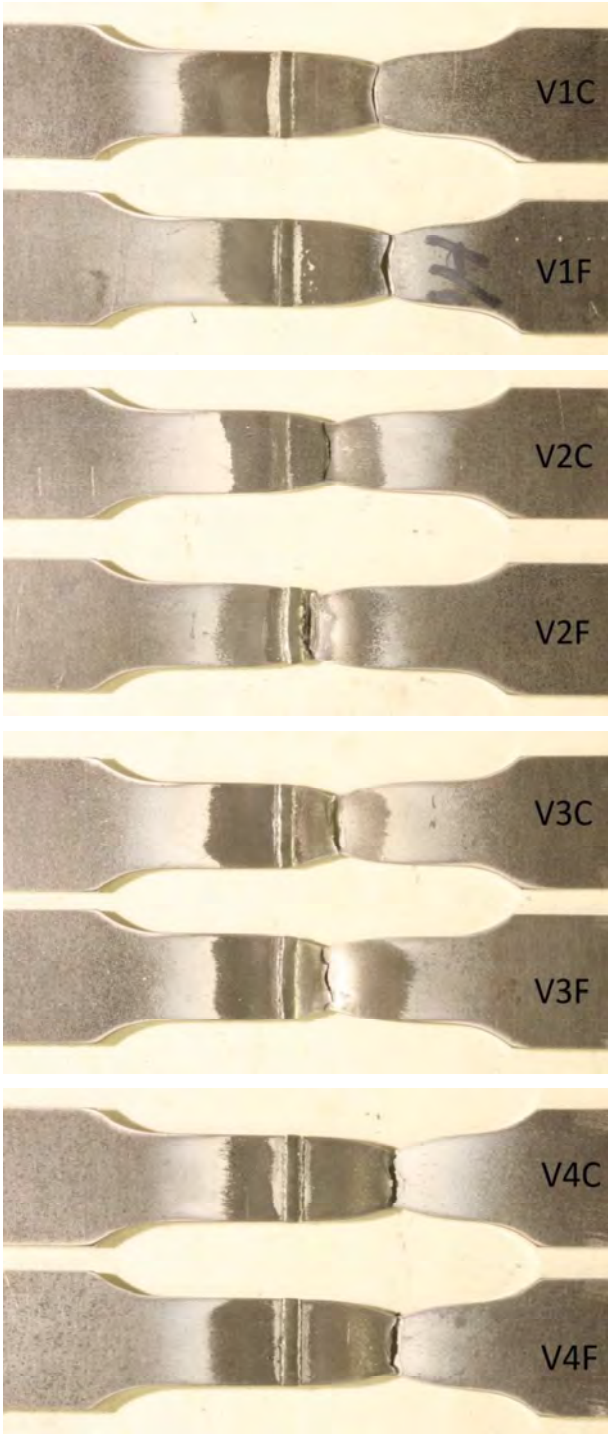
The testing was performed in accordance with standard ISO 4136:2012 [3] and NS-EN ISO 6892-1:2019 [4] method A.4. Acceptance standard NS-EN ISO 15614-14:2013 [1].

The results are presented in Table 2 and fracture location is shown in Figure 2. Graphs from test are shown in appendices.

Table 2 - Results from cross weld tensile test.

Test ID / Location	Dimension			Maximum force [kN]	Tensile strength R _m [MPa]	Fracture location/appearance
	Thickness [mm]	Width. [mm]	Area. [mm ²]			
V1C	7.97	25.06	199.73	103.83	520	BM
V1F	7.93	25.02	198.41	105.03	529	BM
V2C	8.02	25.03	200.74	107.29	534	BM
V2F	8.00	25.04	200.32	107.51	537	HAZ
V3C	7.90	25.04	197.82	106.02	536	BM
V3F	7.90	25.04	197.82	107.66	544	BM
V4C	10.03	25.04	251.15	131.06	522	BM
V4F	10.04	25.00	251.00	131.80	525	BM
V5C	10.00	24.99	249.90	131.45	526	HAZ
V5F	10.00	24.97	249.70	131.73	528	BM
V6C	10.04	25.04	251.40	131.73	524	HAZ
V6F	10.05	25.03	251.55	131.98	525	HAZ

View from above



View from side



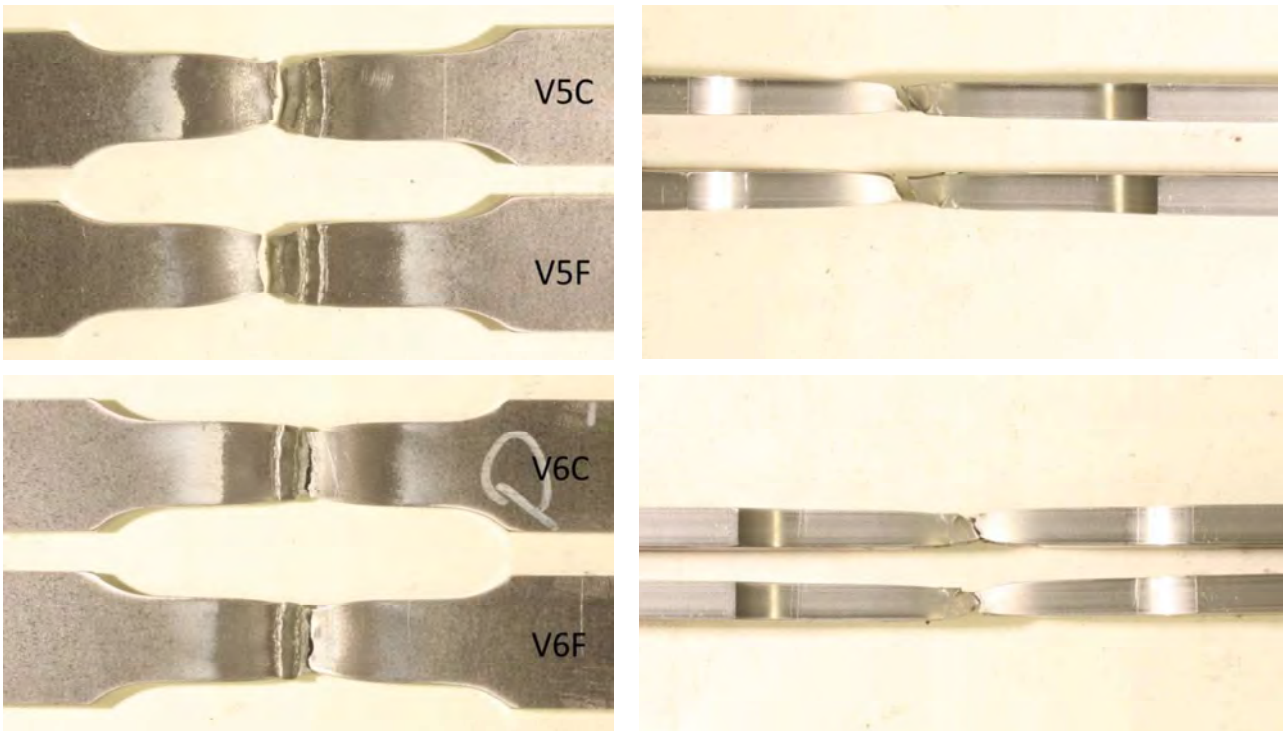
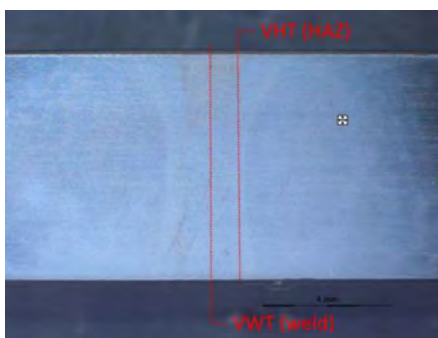


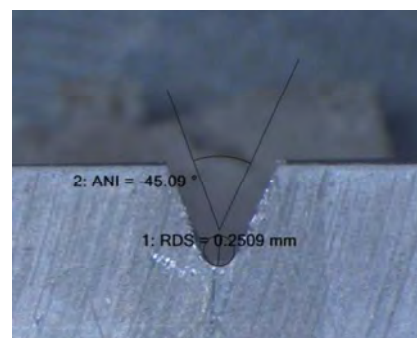
Figure 2 – Fracture location from tensile test.

3.2 Charpy V-Notch Impact Tests, KV2

Testing was performed in accordance with NS-EN ISO 15614-14:2013 [1], NS-EN ISO 148-1:2016 [5] and NS-EN ISO 9016:2012 [6]. Specimen type used was VWT & VHT and sampled maximum 2 mm below surface, and with the notch perpendicular to the surface. Notch was placed according to Figure 3 a. Before preparing the notch, specimens were etched to find weld and HAZ. Etching was done with 5% nital. Testing was performed at two different test temperatures, - 40 °C and at - 50 °C.



a) Shows how the notch has been placed



b) Notch on specimen V6D, according to ISO 148-1:2016 [5]

Figure 3 - Illustration showing where the notch was placed.

Results from testing are presented in Table 3 .

Table 3 - Result from impact test

Test ID / Location	Dimension [mm]	Notch Orientation	Temp. [°C]	Impact energy, KV 300 J / Absorbed energy [Joule]			Absorbed energy, Avarage [Joule]
				1	2	3	
V1D (VWT)	5 x 10 x 55	T	-50	31	28	20	26 ⁽²⁾
V1E (VHT)	5 x 10 x 55	T	-50	59	55	35	50 ⁽²⁾
V2D (VWT)	5 x 10 x 55	T	-50	30	39	13	27 ⁽²⁾
V2E (VHT)	5 x 10 x 55	T	-50	79	89	96	88 ⁽²⁾
V3D (VWT)	5 x 10 x 55	T	-40	19	19	23	20 ⁽¹⁾
V3E (VHT)	5 x 10 x 55	T	-40	35	58	53	49 ⁽¹⁾
V4D (VWT)	7.5 x 10 x 55	T	-50	43	23	34	33 ⁽²⁾
V4E (VHT)	7.5 x 10 x 55	T	-50	19	40	40	33 ⁽²⁾
V5D (VWT)	7.5 x 10 x 55	T	-50	95	25	33	51 ⁽²⁾
V5E (VHT)	7.5 x 10 x 55	T	-50	34	180	30	81 ⁽²⁾
V6D (VWT)	7.5 x 10 x 55	T	-40	48	27	23	33 ⁽¹⁾
V6E (VHT)	7.5 x 10 x 55	T	-40	28	51	36	38 ⁽¹⁾

(1) Test Temp - 40 deg C: Test temperature according to ISO 15614-14:2013. Acceptance criteria found in parent material standard NS-EN 10149-1:2013.

(2) Test temp -50 deg C: At the customer's request, a sub size Charpy V-notch impact test was carried out in accordance with NS-EN 1993-2:2006 [11] at -50 deg C.

Note Heat affected zone resulting from welding is small. The reason for the variation in values when testing HAZ may be that the notch has been placed closer to the base material. Material certificate for base material shows values up to 261 at test temperature - 60 deg C.

3.3 Bend Tests

The testing was performed in accordance with the test standard NS-EN ISO 15614-14:2013 [1] and ISO 5173:2010 [3].

Acceptance criteria found in NS-EN ISO 15614-14:2013 [1]. The results are presented in Table 4 and shown in Figure 4 below.

Table 4 - Results from bend testing.

Test ID / Location	Dimension			Former dia. [mm]	Distance between rollers [mm]	Bend angle [°]	Results
	Thickness [mm]	Width [mm]	Direction				
V1A	8 mm	40.5	TFBB	4T	52	180	Flaw larger than 3 mm
V1B	8 mm	40.0	TRBB	4T	52	180	Ok
V1G	8 mm	39.7	TFBB	4T	52	180	Flaw larger than 3 mm
V1H	8 mm	40.0	TRBB	4T	52	180	Ok
V2A	8 mm	40.0	TFBB	4T	52	180	Flaw larger than 3 mm
V2B	8 mm	39.5	TRBB	4T	52	180	Ok
V2G	8 mm	40.2	TFBB	4T	52	180	Flaw larger than 3 mm
V2H	8 mm	39.5	TRBB	4T	52	180	Flaw larger than 3 mm
V3A	8 mm	40.0	TFBB	4T	52	180	Flaw larger than 3 mm
V3B	8 mm	40.5	TRBB	4T	52	180	Flaw larger than 3 mm
V3G	8 mm	40.3	TFBB	4T	52	180	Flaw larger than 3 mm
V3H	8 mm	40.1	TRBB	4T	52	180	Ok
V4A	10 mm	40.1	TFBB	4T	67	180	Flaw larger than 3 mm
V4B	10 mm	40.0	TRBB	4T	67	180	Ok
V4G	10 mm	40.1	TFBB	4T	68.5	180	Flaw larger than 3 mm
V4H	10 mm	40.1	TRBB	4T	68.5	180	Ok
V5A	10 mm	40.1	TFBB	4T	68.5	180	Flaw larger than 3 mm
V5B	10 mm	40.1	TRBB	4T	68.5	180	Ok
V5G	10 mm	40.0	TFBB	4T	68.5	180	Flaw larger than 3 mm
V5H	10 mm	40.0	TRBB	4T	68.5	180	Ok
V6A	10 mm	42.5	TFBB	4T	68.5	180	Flaw larger than 3 mm
V6B	10 mm	40.2	TRBB	4T	68.5	180	Flaw larger than 3 mm
V6G	10 mm	40.1	TFBB	4T	68.5	180	Flaw larger than 3 mm
V6H	10 mm	40.1	TRBB	4T	68.5	180	Ok

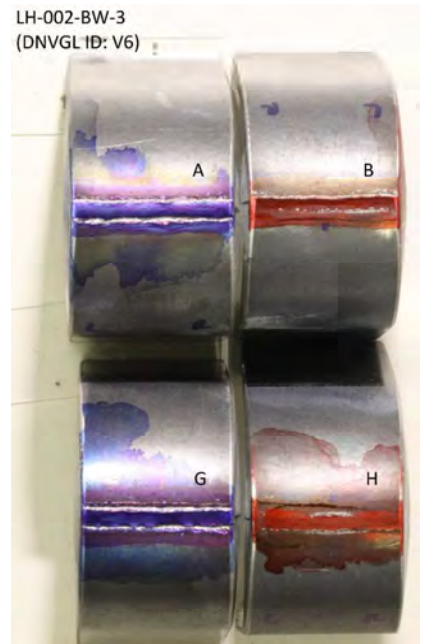
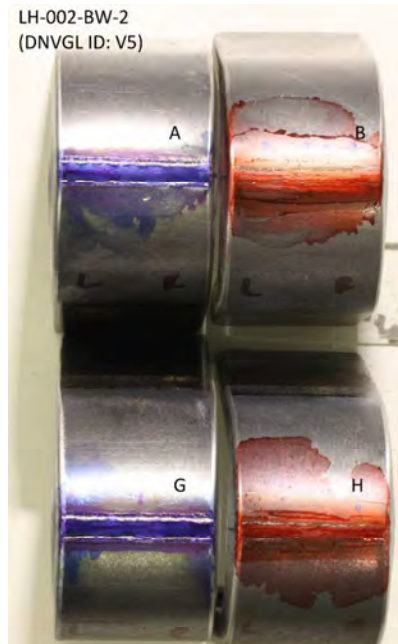
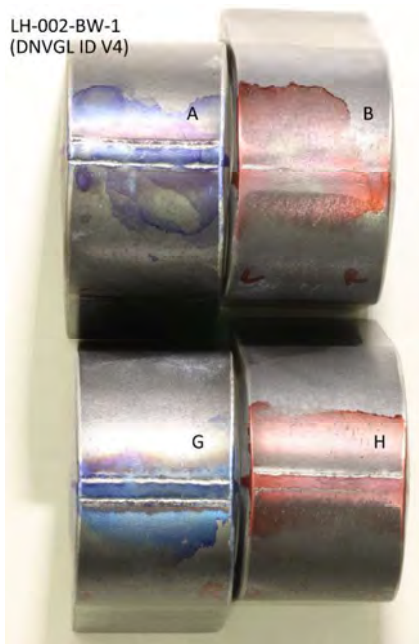
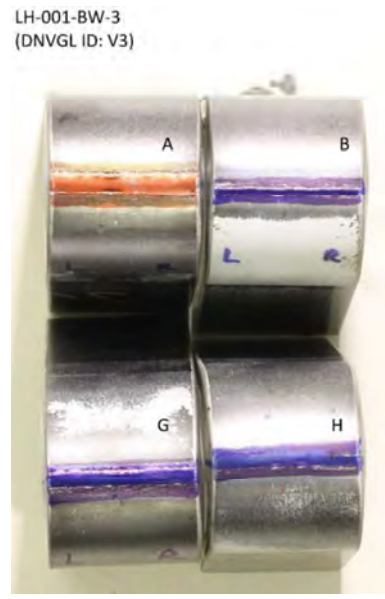


Figure 4 - Bend specimens after test.

3.4 Macro Examination

The examination was performed in accordance with NS-EN ISO 17639:2013 [7] and etchant was 5% nital. Imperfections were checked against NS EN ISO 12932:2013 [8] and all specimen were examined with a magnification of 8X.

Table 5 - Macro examination, magnification 8x.

Specimen ID	Comment
V1J	(5011) The undercut is within depth requirements in NS-EN ISO 12932:2013 [8] but lacks a smooth transition.
V2J	(5011) The undercut is within depth requirements in NS-EN ISO 12932:2013 [8] but lacks a smooth transition.
V3J	(5011) The undercut is within depth requirements in NS-EN ISO 12932:2013 [8] but lacks a smooth transition.
V4J	(5011) The undercut is within depth requirements in NS-EN ISO 12932:2013 [8] but lacks a smooth transition.
V5J	No imperfections found.
V6J	(511) Sagging.

Macrographs is presented in figures below.

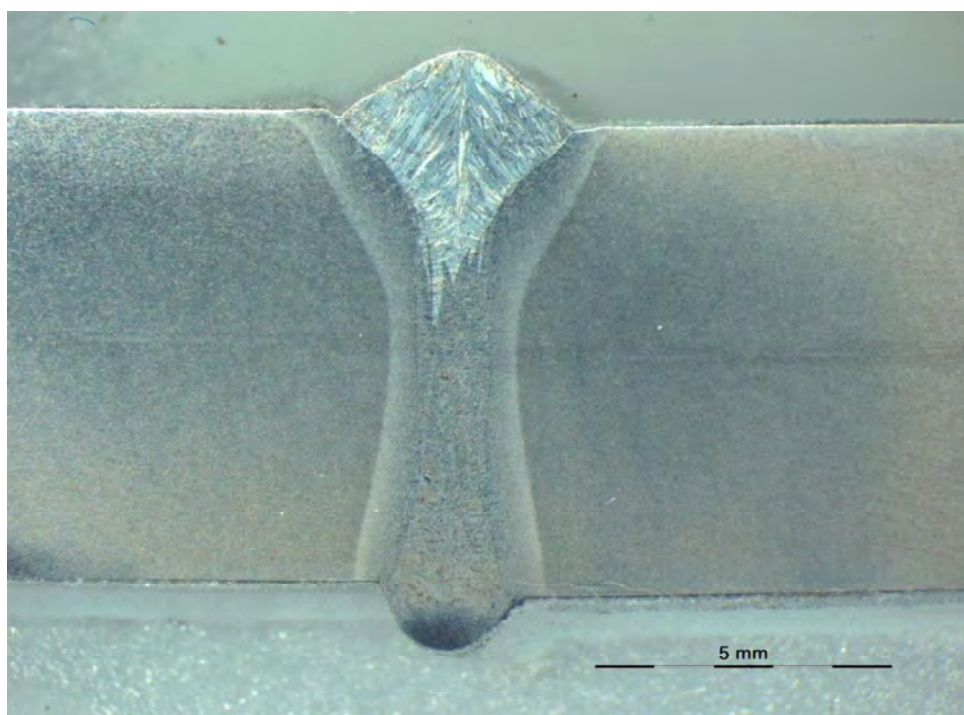


Figure 5 - Macrograph of specimen V1J.

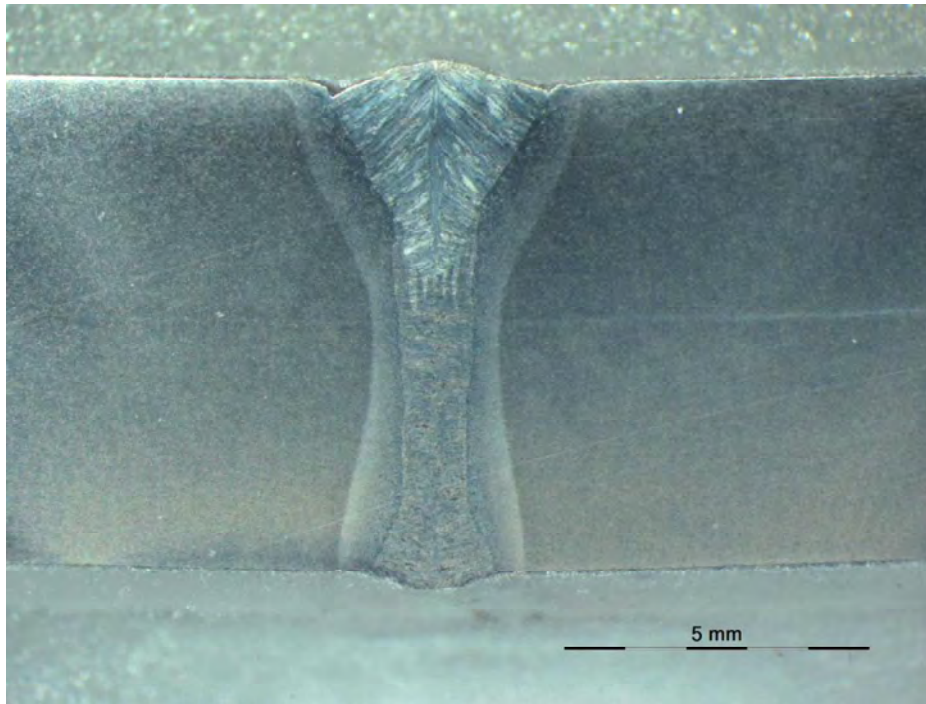


Figure 6 - Macrograph of specimen V2J.

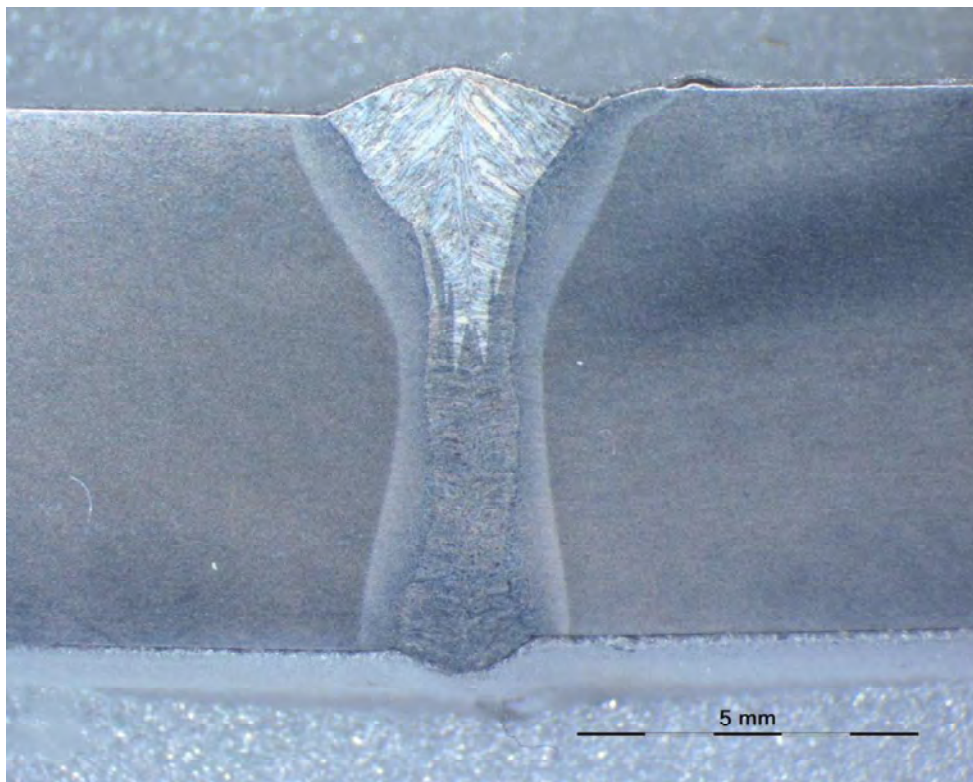


Figure 7 - Macrograph of specimen V3J.

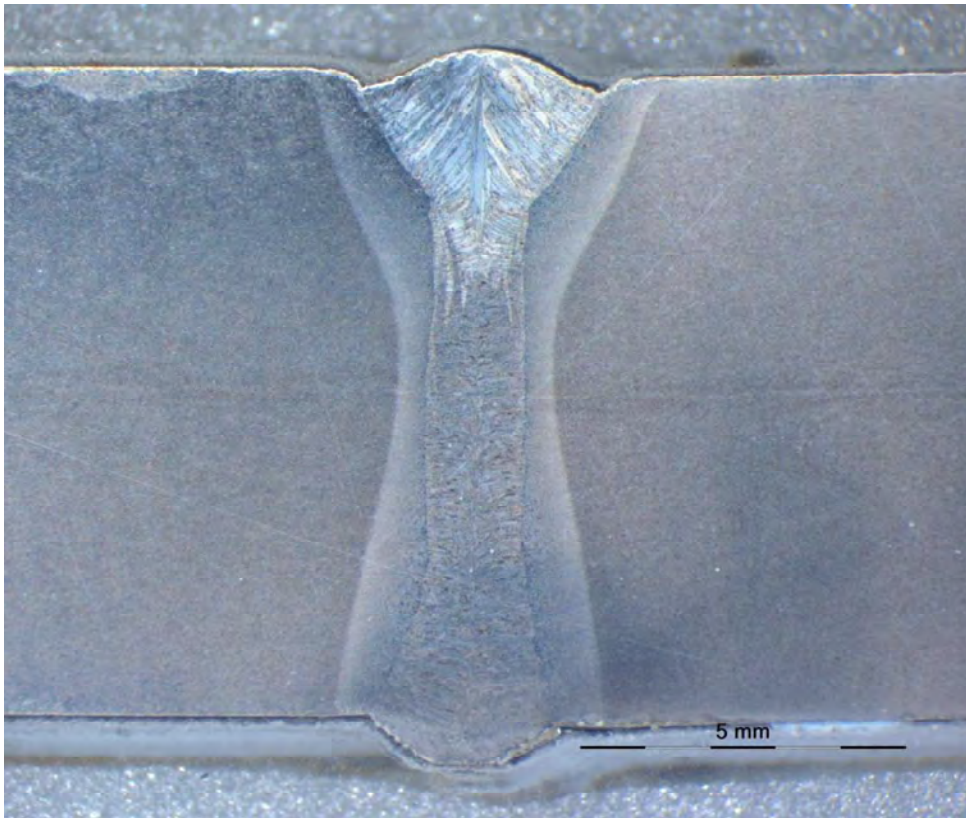


Figure 8 - Macrograph of specimen V4J.

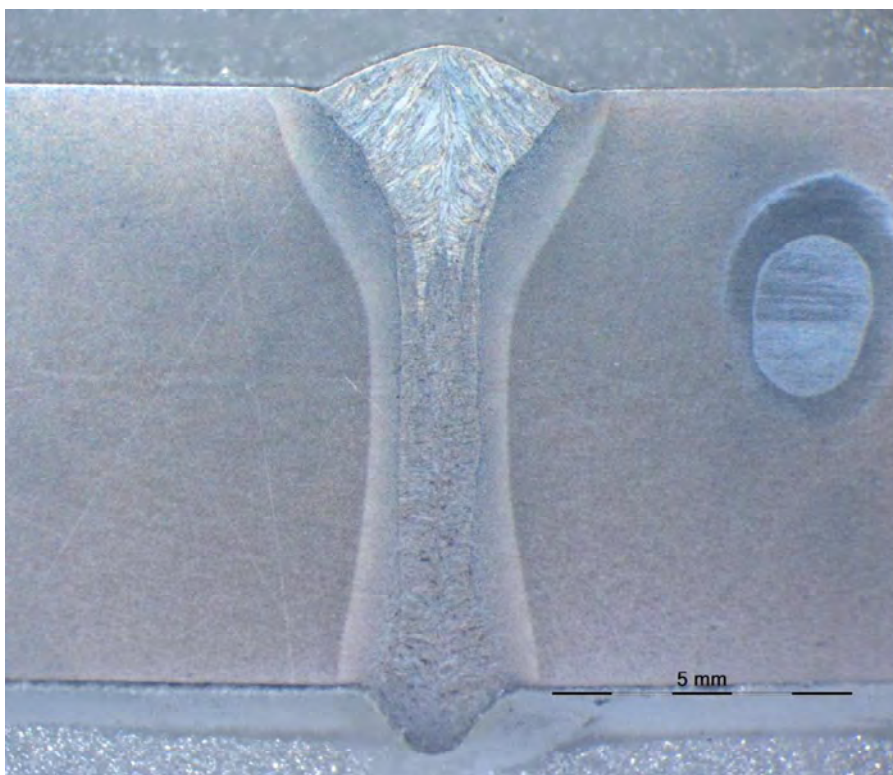


Figure 9 - Macrograph of specimen V5J. Ignore the circular spot on the right.

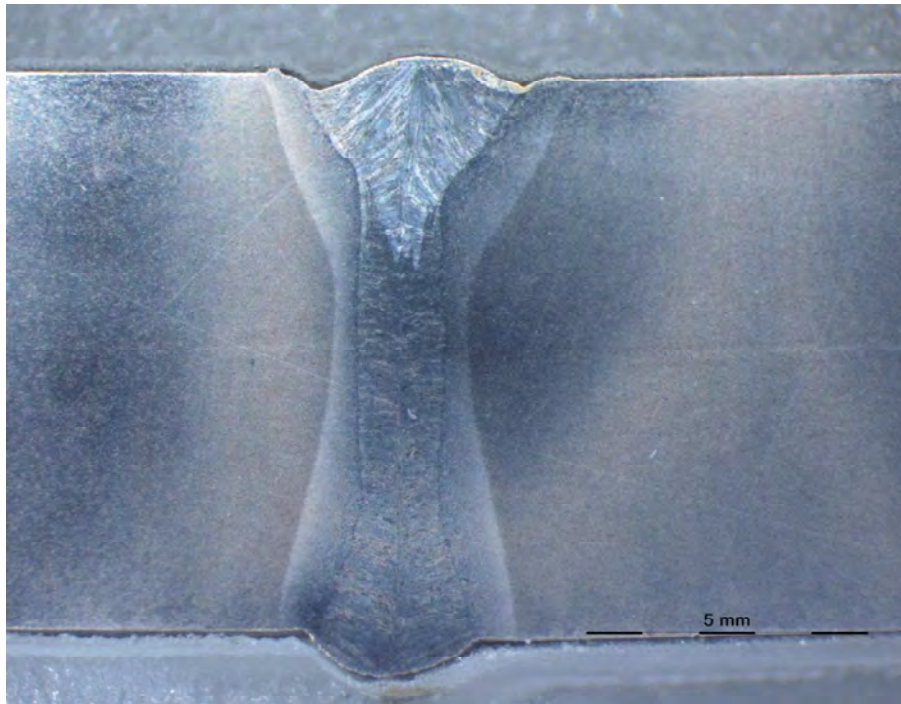


Figure 10 - Macrograph of specimen V6J.

3.5 Vickers Hardness Measurements, HV5

Testing was performed in accordance with the standards: ISO 15614-14:2013 [1] and NS-EN ISO 9015-1 [9] NS-EN ISO 6507-1:2018 [10]. The first indentation in the HAZ was located as close as possible to the fusion line. The following indentations were placed with a spacing of 0.7 mm. According to standard NS-EN ISO 15614-14:2013 [1] shall testing be performed with a load matched to the weld geometry. Due to a small heat affected zone, it was chosen to perform hardness tests with HV5. Two rows of indentations were performed. Minimum of three individual indentations in the areas (Weld Metal, HAZ and Parent Material) were performed at a depth of less than 2 mm below the upper and lower surface.

Six different plates were tested, and the results are presented in figures below. Acceptance standard NS-EN ISO 15614-14:2013 [1].

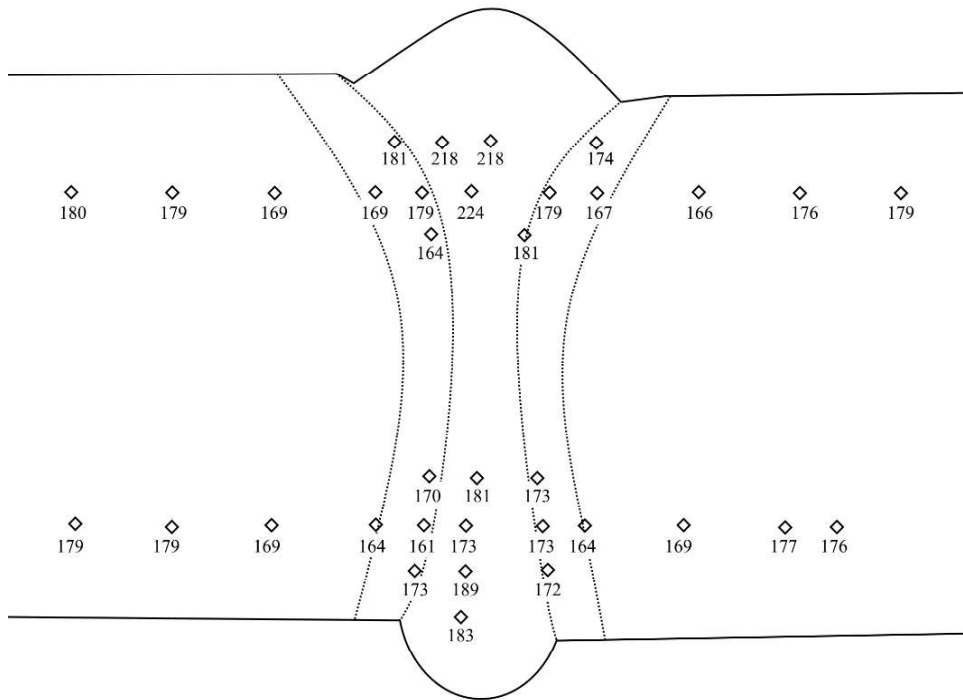


Figure 11 - Hardness test result from plate LH-001-BW-1 (DNVGL ID is V1J).

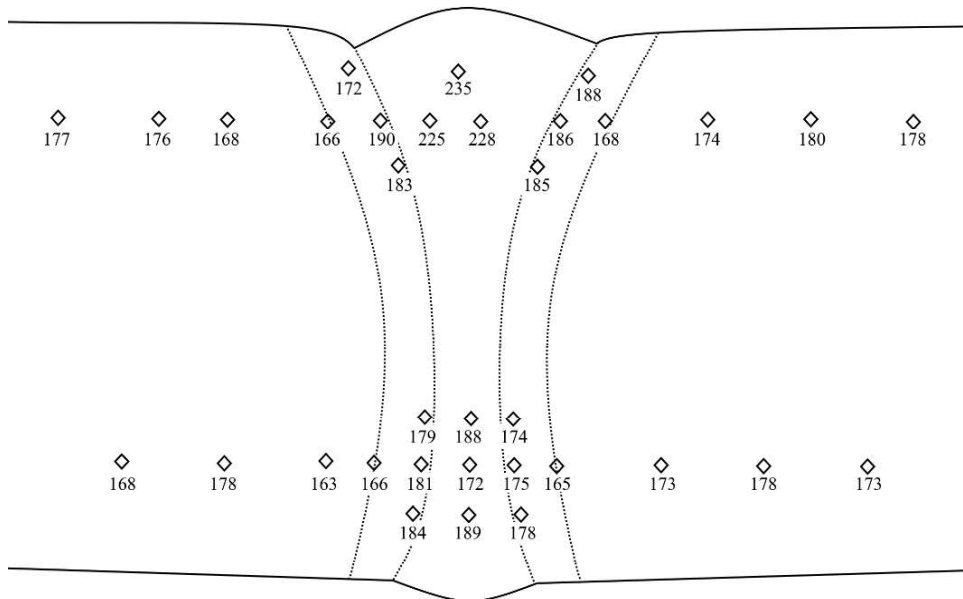


Figure 12 - Hardness test result from plate LH-001-BW-2 (DNVGL ID is V2J).

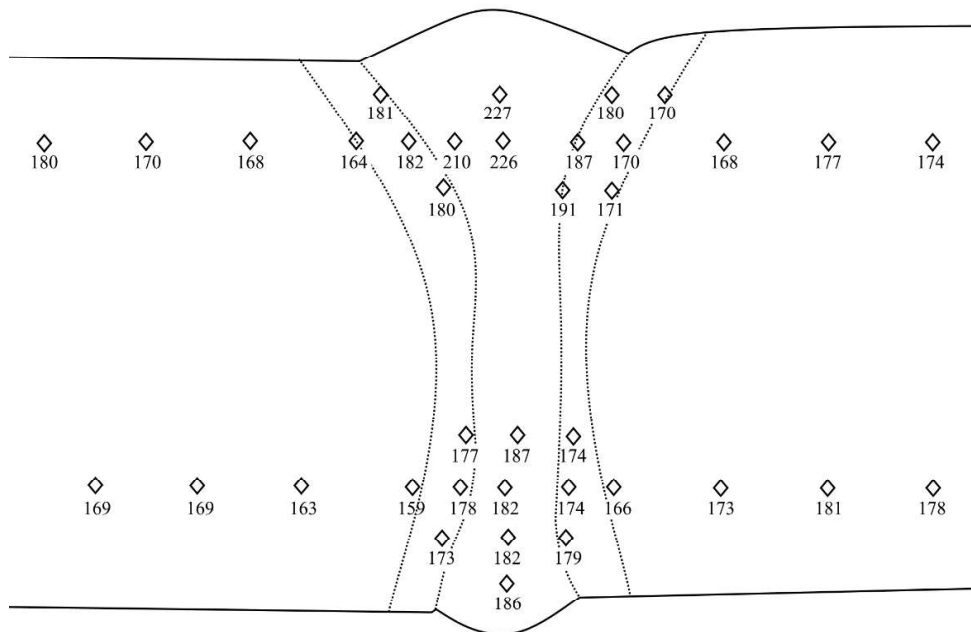


Figure 13 - Hardness test result from plate LH-001-BW-3 (DNVGL ID is V3J).

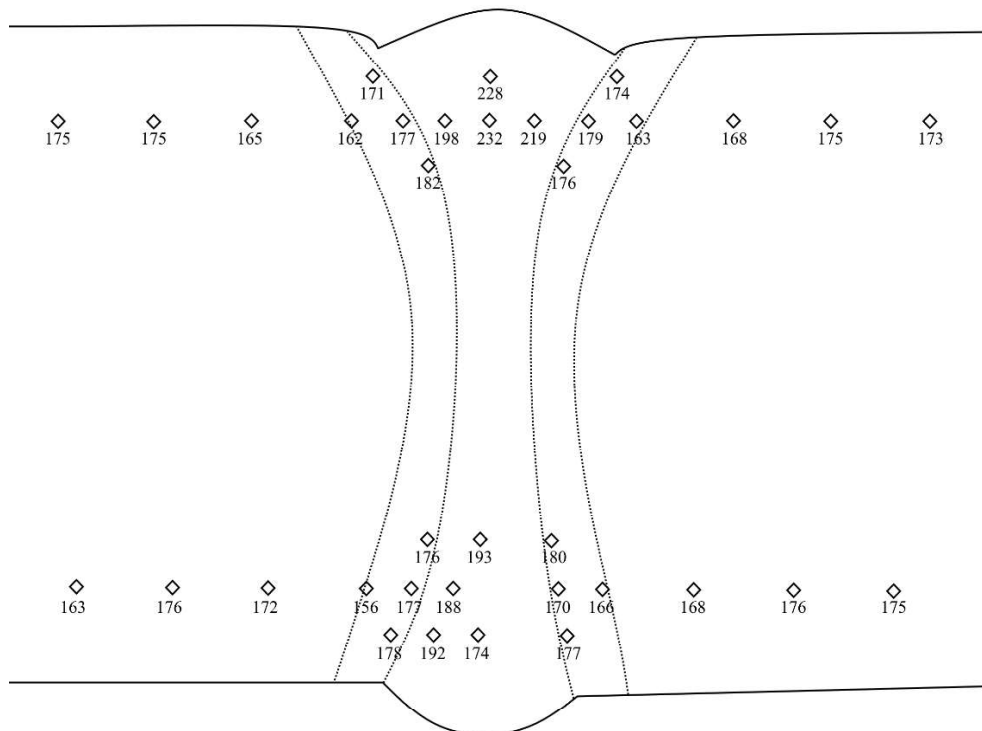


Figure 14 - Hardness test result from plate LH-002-BW-1 (DNVGL ID is V4J).

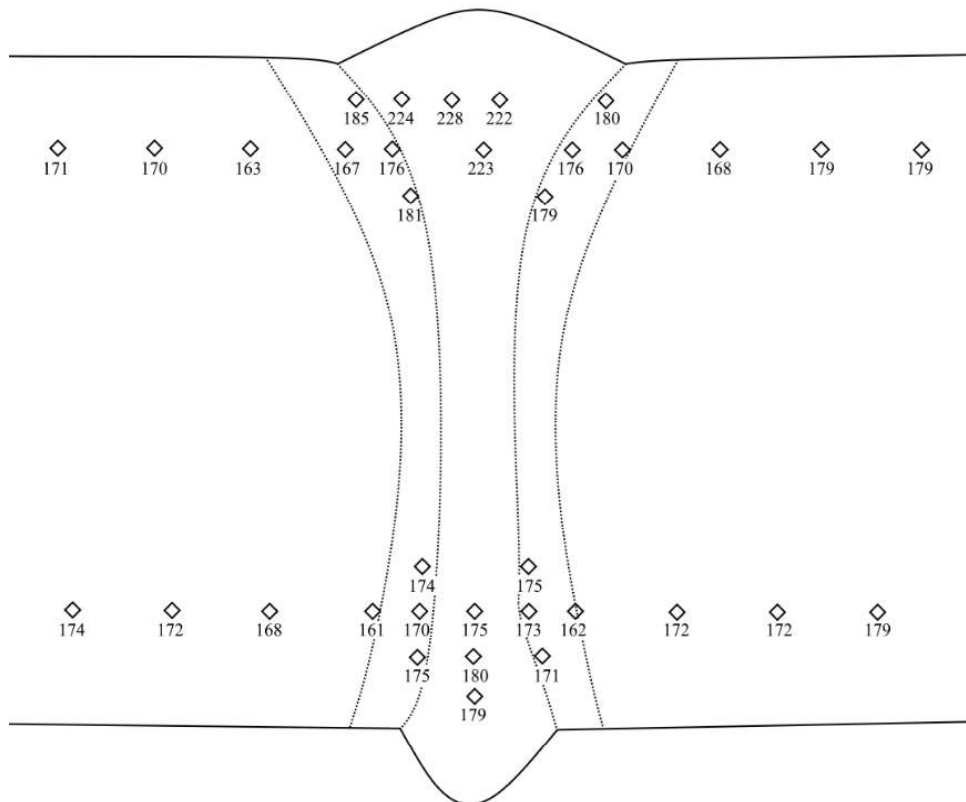


Figure 15 - Hardness test result from plate LH-002-BW-2 (DNVGL ID is V5J).

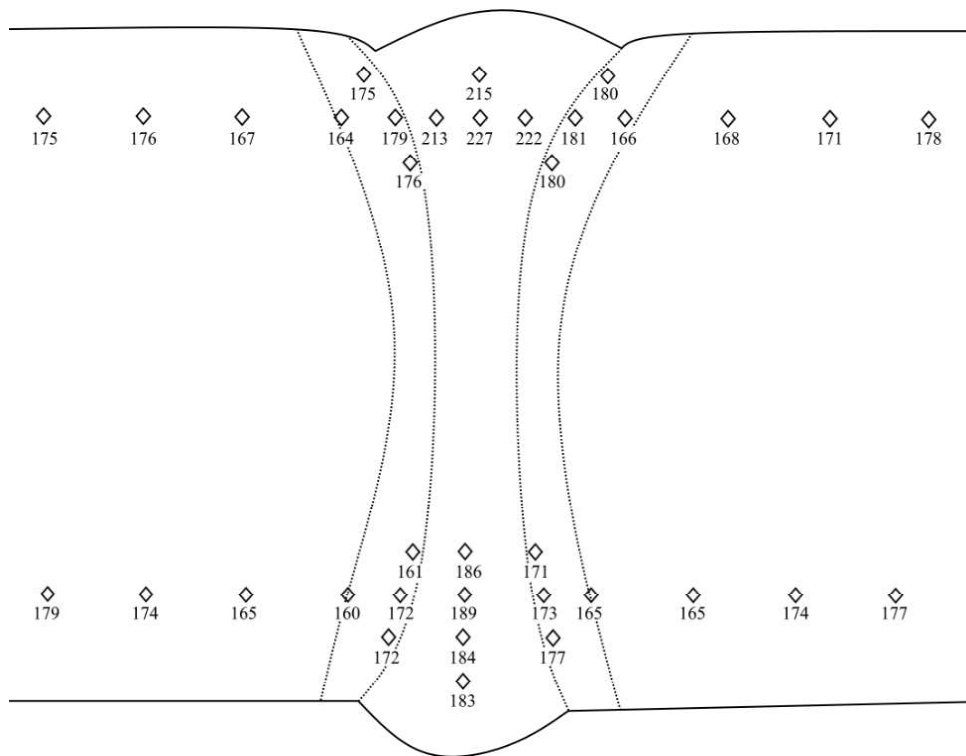


Figure 16 - Hardness test result from plate LH-002-BW-3 (DNVGL ID is V6J).

1 REFERENCES

- [1] NS EN ISO 15614-14:2013 - Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 14: Laser-arc hybrid welding of steels, nickel and nickel alloys, Standard Norge.
- [2] NS-EN ISO 12932:2013 - Welding - Laser-arc hybrid welding of steels, nickel and nickel alloys - Quality levels for imperfections, Norsk Standard.
- [3] ISO/TR 15608:2017 - Welding — Guidelines for a metallic materials grouping system, ISO .
- [4] NS-EN ISO 5173:2010 Destructive tests on welds in metallic materials - Bend tests, Standard Norge.
- [5] NS-EN ISO 6892-1:2019 - Metallic materials — Tensile testing — Part 1: Method of test at room temperature, Norsk standard.
- [6] NS-EN 10149-2:2013 - Hot rolled flat products made of high yield strength steels for cold forming - Part 2: Technical delivery conditions for thermomechanically rolled steels, Standard Norge.
- [7] NS-EN ISO 148-1:2016 - Metallic materials - Charpy pendulum impact test - Part 1: Test method, Standard Norge.
- [8] NS-EN ISO 9016:2012 - Destructive tests on welds in metallic materials - Impact tests - Test specimen location, notch orientation and examination, Standard Norge.
- [9] NS-EN 10149-1:2013 - Hot rolled flat products made of high yield strength steels for cold forming - Part 1: General technical delivery conditions, Standard Norge.
- [10] NS-EN 10149-2:2013 - Hot rolled flat products made of high yield strength steels for cold forming - Part 2: Technical delivery conditions for thermomechanically rolled steels, Standard Norge.
- [11] NS-EN ISO 17639:2013 - Destructive tests on welds in metallic materials - Macroscopic and microscopic examination of welds, Norsk Standard.
- [12] ISO 9015-1:2001 - Destructive tests on welds in metallic materials - Hardness testing - Part 1: Hardness test on arc welded joints, Standard Norge.
- [13] NS-EN ISO 6507-1:2018 - Metallic materials - Vickers hardness test - Part 1: Test method, Standard Norge.
- [14] NS-EN ISO 5817:2014 - Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections, Norsk standard.
- [15] NS-EN 1993-2:2006+NA:2009 - Eurocode 3: Design of steel structures - Part 2: Steel Bridges, Standard Norge.



APPENDIX A

Base & Filler Material Certificate

Inspection certificate EN 10 204 - 3.1		Issuing department Quality inspection		Purchaser order no 0046270112		Our order no 224868-1		Invoice no 3123086		Certificate no and date 18508310 2020-01-07	
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Purchaser TIBNOR AS RM OSLO PRCF. BIRKELANDSVEI 21 NO-1081 OSLO NORGE		Product Hot rolled sheets		Marking Manufacturer, MATERIAL ID				Customer marks			
A11 81002		B01		B05				B15			
Quantity 92		Dimensions [mm] T 8 W 1500 L 3000		B09-B11 Weight [kg] 25360		B12		Deliv. Cond.		B04 Internal code B16	
Consignee TIBNOR AS RM OSLO PRCF. BIRKELANDSVEI 21 NO-1081 OSLO NORGE		A08 OSLO		Standardrules SSAB Steel grade SSAB Laser 355MC Plus				B02			
MATERIAL ID 23-1765-433810-01 , 23-1765-433810-02 , 23-1765-433810-03 , 23-1765-433810-04 , 23-1765-433810-05 , 23-1765-433810-06 , 23-1765-433810-07 , 23-1765-433810-08 , 23-1765-433810-09 , 23-1765-433810-10 , 23-1765-433810-11 , 23-1765-433810-12 , 23-1765-433810-13 , 23-1765-433810-14 , 23-1765-433810-15 , 23-1765-433810-16											

Chemical composition										C71-C92		Carbon equivalent etc.		C93-C99		
Heat no	C	Si	Mn	P	S	Cr	Ni	Mo	V	Ti	Cu	Al	Nb	B	N	Ceqv
23-1765	.059	.01	.59	.009	.003	.04	.04	.01	.00	.00	.01	.033	.013	.0090	.002	.17
														Ceqv = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5		

Testtype	Millcode	Specimen position	Direction	Treatment	Specimen type	Temp [degr C]	Test results				
Tensile test	FKG420	Top end	Longitudinal	Delivery condition	Rectangular 380x40		C11 Reh [MPa] 425	C12 Rm [MPa] 514	C13 A5 [%] 31.0		
Impact test	FKG421	Top end	Longitudinal	Delivery condition	Charpy-V 10x7.5	-60	C42 E [J] 261	C42 E [J] 256	C42 E [J] 269	C43 Ave [J] 261	
Bend test	FKG425	Top end	Transvers	Delivery condition			C50 The test is satisfactory				

Production time: 2020-01-07

Customer article no: 329973

This certificate is produced with EDP and valid without signature. Material Testing/ H Lew / M Eriksson / V Esbetani	Z02	It is hereby certified that the material described above complies with the requirements of the order.	Z01	A22	A04
-------------------------------------------------------------------------------------------------------------------------	-----	-------------------------------------------------------------------------------------------------------	-----	-----	-----

Inspection certificate EN 10 204 + 3.1				Issuing department Quality inspection		Purchaser order no 0046283450		Our order no 233452-6		Invoice no 3149641		Certificate no and date 18767943 2020-04-23	
Purchaser TIBNOR AS RM OSLO PROF. BIRKELANDSVEI 21 NO-1081 OSLO NORGE				Product Hot rolled sheets		Marking Manufacturer, MATERIAL ID				Customer marks			
Quantity 30		Dimensions [mm] T 10 W 1500 L 3000		Weight [kg] 10680		Deliv. Cond.		Internal code					
Consignee TIBNOR AS RM OSLO PROF. BIRKELANDSVEI 21 NO-1081 NORGE				Standard/rules SSAB Steel grade SSAB Laser 355MC Plus*)									
MATERIAL ID 51-9273-462929-01 , 51-9273-462929-02 , 51-9273-462929-03 , 51-9273-462929-04 , 51-9273-462929-05 , 51-9273-462929-06													

Chemical composition												C71-C92		Carbon equivalent etc		C93-C99		
Heat no 51-9273	C .056	Si .01	Mn .58	P .009	S .003	Cr .03	Ni .05	Mo .01	V .00	Ti .00	Cu .02	Al .045	Nb .014	B .0000	N .002	Ceqv .17	Ceqv = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5	

Test type	Millcode	Specimen position	Direction	Treatment	Specimen type	Temp [Degr C]	Test results				
Tensile test	FRE389	Top end	Longitudinal	Delivery condition	Rectangular 380x40		C11 Reh [MPa] 427	C12 Rm [MPa] 496	C13 A5 [%] 25.0		
Impact test	FRE390	Top end	Longitudinal	Delivery condition	Charpy-V 10x7.5	-60	C42 E [J] 243	C42 E [J] 235	C42 E [J] 250	C43 Ave [J] 242	
Bend test	FRE394	Top end	Transverse	Delivery condition	C50 The test is satisfactory						

*) S355MC EN 10149-2
 Production time: 2020-04-23
 Customer article no: 329977

This certificate is produced with EDP and valid without signature		Material Testing/ H Leu / M Modig Eriksson / V Esbetani / M Stolpe		It is hereby certified that the material described above complies with the requirements of the order.			
-------------------------------------------------------------------	--	--------------------------------------------------------------------	--	-------------------------------------------------------------------------------------------------------	--	--	--

INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Cert no: 1001217184
Date: 27-05-2020



Manufacturing Date: 25-05-2020

PURCHASE ORDER : 10928 / 12.05.2020

PRODUCT NAME: NST Carbomig 3N

TYPE OF PRODUCT: Solid MAG Wire

STANDARD CLASSIFICATION:

EN ISO 14341-A	G46 3 M21 G4Si1
	G42 2 C1 4Si1
AWS/SFA. 5.18 / SFA5.18	ER70S-6

DIAMETER / WEIGHT: 1.00 mm DRUM 250 KG. (Kg.2.000) - 1.20 mm P.L.W. D-300 (Kg.1.080)

HEAT N°: 756750

CHEMICAL COMPOSITION

acc to EN 10204 - 3.1

C	Mn	S	P	Si	Cu	Al	Mo	Ni	N	Cr	Ti	V	As
0.063	1.627	0.014	0.006	0.974	0.047	0.003	0.011	0.023	0.005	0.047	0.003	0.003	0.002

MECHANICAL PROPERTIES OF ALL WELD METAL

(Shielding gas 80% Argon + 20% CO₂, and 100% CO₂)

Typical data / acc to EN 10204 - 2.2

PROTECTIVE GAS	YIELD STRENGTH R _{p0.2}	TENSILE STRENGTH R _m	ELOGANTION A ₅	Charpy Impact V-Notch	
				Temperature (°C)	Absorbed Energy (J)
M21	470 Mpa	570 Mpa	26%	-30°	> 47
CO ₂	440 Mpa	540 Mpa	26%	-20°	> 47

FOR/BY/DE
DPT. QUALITY



0035 15
0035 - CPR - C906
DoP NSTAS - 48
EN 13479



COMMENT:

We hereby confirm that the material herein described has been manufactured, sampled, tested and inspected in accordance with referred standards. Product supplied under a QA Programme fulfilling the EN ISO 9001 standard. This certificate is produced electronically and is valid without signature.



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www.nst.no



APPENDIX B

DT report (Tensile Test, Bend test, Impact test) - DNVGL

TEST REPORT (TENSILE TESTING)


DNV·GL

Client: Prodtex Date of testing: 2020.09.17
WPQR no.: Ref. doc. no.:
Project no.-act: 10252180
Base metal: SSAB Laser 355 MC Plus
Filler material: NST Carbomig 3N

NS EN ISO 4136:2012 / ISO 6892-1:2019 (Method A.4) / NS-EN ISO 15614-14:2013 / NS-EN 10149-2:2013

Test ID / Location	Dimension			Maximum force [kN]	Tensile strength R_m [MPa]	Fracture location/appearance
	Thickness [mm]	Width [mm]	Area [mm ²]			
V1C	7.97	25.06	199.73	103.83	520	BM
V1F	7.93	25.02	198.41	105.03	529	BM
V2C	8.02	25.03	200.74	107.29	534	BM
V2F	8.00	25.04	200.32	107.51	537	HAZ
V3C	7.90	25.04	197.82	106.02	536	BM
V3F	7.90	25.04	197.82	107.66	544	BM
V4C	10.03	25.04	251.15	131.06	522	BM
V4F	10.04	25.00	251.00	131.80	525	BM
V5C	10.00	24.99	249.90	131.45	526	HAZ
V5F	10.00	24.97	249.70	131.73	528	BM
V6C	10.04	25.04	251.40	131.73	524	HAZ
V6F	10.05	25.03	251.55	131.98	525	HAZ

Req.: Acceptance criteria according to NS-EN ISO 15614-14:2013 is that the tensile strength of the test specimen shall not be less than the corresponding specified minimum value for the parent metal used. Minimum longitudinal tensile strength according to NS-EN 10149-2:2013 is 430 MPa.

Work performed by:
Larsson, Magnus
Göran
Digitally signed by Larsson, Magnus
Göran
Date: 2020.09.24 14:27:01 +02'00'

Verified by: Nesbø,
Håkon

Digitally signed by
Nesbø, Håkon
Date: 2020.09.24 22:47:15
+02'00'

Date of this revision: 2020.09.17 Rev. No.: 0

Cause for this revision:

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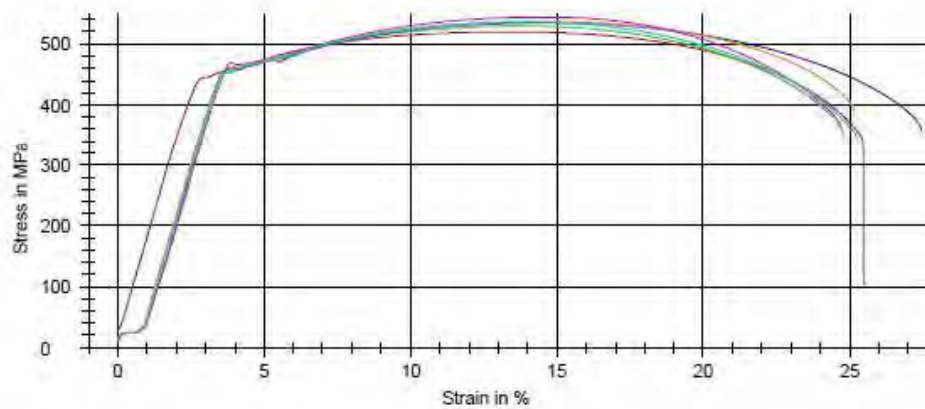
Test report

Job no. : Pre-treatment :
 Type and designation of : Tester : Magnus Larsson / Håkon Nesbø
 Material : Note :
 Specimen type : Machine data : Zwick / Roell Z250 (Dato Kalibrert 11/02/2020)
 Pre-load : 10 MPa
 Test speed : 0,0067 1/s

Test results:

Nr	Specimen ID	a ₀ mm	b ₀ mm	L _c mm	σ _M kN	R _m MPa	Fracture location
1	V1C	7,97	25,06	70,3	103,83	520	BM
2	V1F	7,93	25,02	70,3	105,03	529	BM
3	V2C	8,02	25,03	68,5	107,29	534	BM
4	V2F	8	25,04	70	107,51	537	HAZ
5	V3F	7,9	25,04	67,9	107,66	544	BM
6	V3C	7,9	25,04	69	106,02	536	BM

Series graph:



Statistics:

Series	a ₀ mm	b ₀ mm	L _c mm	σ _M kN	R _m MPa
n = 6					
\bar{x}	7,953	25,04	69,33	106,22	533
s	0,05125	0,01329	1,017	1,55	8,19
V	0,64	0,05	1,47	1,46	1,54

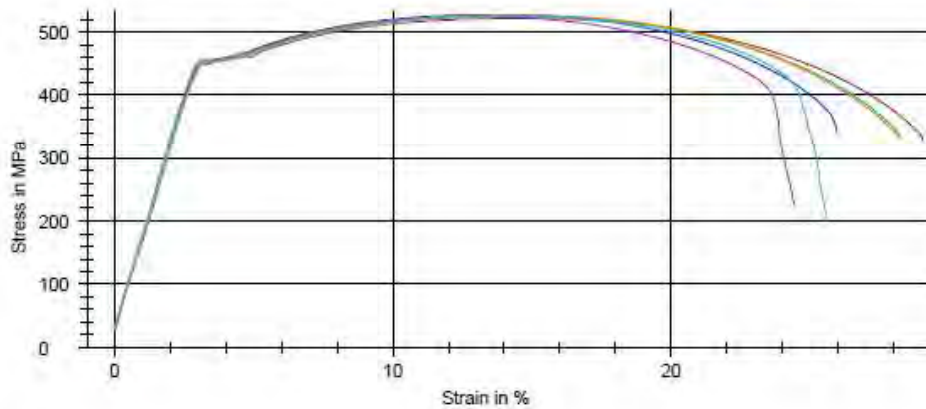
Test report

Job no. : Pre-treatment :
 Type and designation of : Tester : Magnus Larsson / Håkon Nesbø
 Material : Note :
 Specimen type : Machine data : Zwick / Roell Z250 (Dato Kalibrert 11/02/2020)
 Pre-load : 30 MPa
 Test speed : 0,0067 1/s

Test results:

Nr	Specimen ID	a ₀ mm	b ₀ mm	L _c mm	σ _M kN	R _m MPa	Fracture location
1	V4C	10,03	25,04	67,5	131,06	522	BM
2	V4F	10,04	25	70,9	131,80	525	BM
3	V5C	10	24,99	68,2	131,85	528	HAZ
4	V5F	10	24,97	67,7	131,45	526	BM
5	V6C	10,04	25,04	68,8	131,73	524	HAZ / BM
6	V6F	10,05	25,03	67,9	131,98	525	HAZ

Series graph:



Statistics:

Series	a ₀ mm	b ₀ mm	L _c mm	σ _M kN	R _m MPa
n = 6					
\bar{x}	10,03	25,01	68,5	131,64	525
s	0,0216	0,02927	1,26	0,34	2,00
V	0,22	0,12	1,84	0,26	0,38

TEST REPORT (BEND TESTING)



Client: Prodtext

WPQR no.:

Date of testing: 2020.09.9/10/11

Project no.-act: 10252180

Ref. doc. no.:

Bend Testing (ISO 15614-14:2013 / ISO 5173:2010)

Test ID / Location	Dimension			Former dia. [mm]	Distance between rollers [mm]	Bend angle [°]	Results
	Thickness [mm]	Width [mm]	Direction				
V1A	8 mm	40.5	TFBB	4T	52	180	Flaw over 3 mm
V1B	8 mm	40.0	TRBB	4T	52	180	ok
V1G	8 mm	39.7	TFBB	4T	52	180	Flaw over 3 mm
V1H	8 mm	40.0	TRBB	4T	52	180	ok
V2A	8 mm	40.0	TFBB	4T	52	180	Flaw over 3 mm
V2B	8 mm	39.5	TRBB	4T	52	180	ok
V2G	8 mm	40.2	TFBB	4T	52	180	Flaw over 3 mm
V2H	8 mm	39.5	TRBB	4T	52	180	Flaw over 3 mm
V3A	8 mm	40.0	TFBB	4T	52	180	Flaw over 3 mm
V3B	8 mm	40.5	TRBB	4T	52	180	Flaw over 3 mm
V3G	8 mm	40.3	TFBB	4T	52	180	Flaw over 3 mm
V3H	8 mm	40.1	TRBB	4T	52	180	ok
V4A	10 mm	40.1	TFBB	4T	67	180	Flaw over 3 mm
V4B	10 mm	40.0	TRBB	4T	67	180	ok
V4G	10 mm	40.1	TFBB	4T	68.5	180	Flaw over 3 mm
V4H	10 mm	40.1	TRBB	4T	68.5	180	ok
V5A	10 mm	40.1	TFBB	4T	68.5	180	Flaw over 3 mm
V5B	10 mm	40.1	TRBB	4T	68.5	180	ok
V5G	10 mm	40.0	TFBB	4T	68.5	180	Flaw over 3 mm
V5H	10 mm	40.0	TRBB	4T	68.5	180	ok
V6A	10 mm	42.5	TFBB	4T	68.5	180	Flaw over 3 mm
V6B	10 mm	40.2	TRBB	4T	68.5	180	Flaw over 3 mm
V6G	10 mm	40.1	TFBB	4T	68.5	180	Flaw over 3 mm
V6H	10 mm	40.1	TRBB	4T	68.5	180	ok

Acceptance criteria acc. to ISO 15614-14:2013: During testing, the test specimens shall not reveal any single flaw > 3 mm in any direction. Flaws appearing in the corners of a test specimens during testing shall be ignored in the evaluation.

Work performed by:

Larsson, Magnus
Göran

Digitally signed by Larsson, Magnus Göran
Date: 2020.09.21 14:28:13 +0200

Verified by:

Nesbø, Håkon

Digitally signed by Nesbø, Håkon
Date: 2020.09.24 22:49:52 +0200

Date of this revision: 2020.09.21

Rev. No.: 0

Cause for this revision:

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TEST REPORT (IMPACT TESTING)



DNV-GL

Client: Prodtex Date of testing: 2020.09.21&22
 WPQR no.: Ref.doc. no.:
 Project no.-act: 10252180

Impact testing KV2 (ISO 15614-14:2013 / ISO 9016:2012 / ISO 148-1:2016 / NS-EN 10149-2:2013 / NS-EN 10149-1:2013)

Test ID / Location	Dimension [mm]	Notch Orientation	Temp. [°C]	Absorbed energy [Joule]			Absorbed energy, average [Joule]
				1	2	3	
V1D (VWT) (2)	5 x 10 x 55	T	-50	31	28	20	26
V1E (VHT) (2)	5 x 10 x 55	T	-50	59	55	35	50
V2D (VWT) (2)	5 x 10 x 55	T	-50	30	39	13	27
V2E (VHT) (2)	5 x 10 x 55	T	-50	79	89	96	88
V3D (VWT) (1)	5 x 10 x 55	T	-40	19	19	23	20
V3E (VHT) (1)	5 x 10 x 55	T	-40	35	58	53	49
V4D (VWT) (2)	7.5 x 10 x 55	T	-50	43	23	34	33
V4E (VHT) (2)	7.5 x 10 x 55	T	-50	19	40	40	33
V5D (VWT) (2)	7.5 x 10 x 55	T	-50	95	25	33	51
V5E (VHT) (2)	7.5 x 10 x 55	T	-50	34	180	30	81
V6D (VWT) (1)	7.5 x 10 x 55	T	-40	48	27	23	33
V6E (VHT) (1)	7.5 x 10 x 55	T	-40	28	51	36	38

- (1) Test Temp - 40 deg C: Test temperature according to ISO 15614-14:2013. Acceptance criteria found in parent material standard NS-EN 10149-1:2013.
 (2) Test temp -50 deg C: At the customer's request, a sub size Charpy V-notch impact test was carried out in accordance with NS-EN 1993-2:2006 [11] at -50 deg C.

Note Heat affected zone resulting from welding is small. The reason for higher test values when testing HAZ may be that the notch has been placed closer to the base material. Material certificate for base material shows values up to 261 at test temperature - 60 deg C.

Work performed by:

Larsson, Magnus Göran

Digitally signed by Larsson, Magnus Göran
 Date: 2020.10.22 15:05:30 +02'00'

Verified by:

Holt, Liviu

Digitally signed by Holt, Liviu
 Date: 2020.10.22 15:07:10 +02'00'

Date of this revision: 2020.10.22

Rev. No.: 2

Cause for this revision:

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About DNV GL

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VEDLEGG B: Godkjente og signerte WPQR og WPS for bruk på Frønesbrua

WPS Identification

Manufacturer	Prodtex Industri AS
WPQR Nr:	LH-003-TW Vertical

Equipment Identification

Welding machine (Device)	Fronius
Fiber core diameter	0,6 mm
Beam focussing system	Fronius
Focussing optics	Trumpf optics
Welding power source	Fronius TPSI 500i
Laser power source	Trumpf trdisk 10002 fiberlaser

Batchnr: Material specification

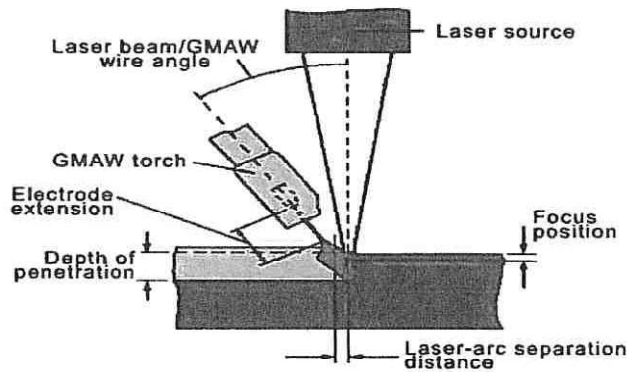
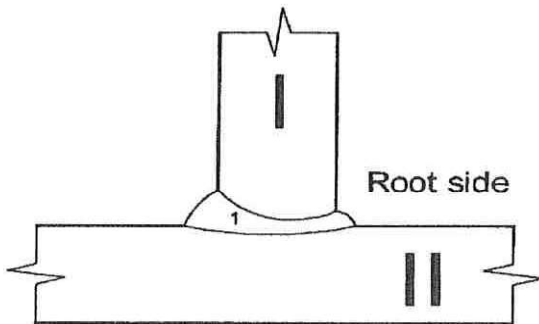
52-2383	Material A:	SSAB Laser 355 MC Plus	Thickness	8mm
52-2383	Material B:	SSAB Laser 355 MC Plus	Thickness	8mm

Filler or additional material

Consumables	Carbomig3N
Dimension	1,2mm

Joint type T-joint one side welded

Joint Design **Geometry**




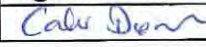
Jigs: Yes No

Mechanically clamping Tack weld process

Preheating Yes No

Post Heating Yes No

	Preparation	T-Joint, 0 mm gap, no bevelling			
	Procedure	Laser cutted			
		Unit	Tacking pass	1st pass	2nd pass
1	Welding position			PG	
2	Torch arrangement			Leading wire	
3	Beam power at work piece				
	-Continuous	W		9000	
4	Power ramping details				
a	-slope up	mm		-	
b	-overlap	mm		-	
c	-slope down	mm		-	
d	-slope profile			-	
5	Geometrical parameters				
a	- Beam angle transverse	Grader		8	
b	- Beam angle longitudinal	Grader		0,2fwd	
c	- Distance beam-wire	mm		0	
d	-Focus position	Mm		0	
e	-Beam position	mm		0	
6	Welding speed	m/min		1,2	
7	Welding speed ramping			-	
8	Arc parameters				
a	-mode polarity			DC+	
b	-wire feed rate	m/min		8,9	
c	-current	A		195	
d	-voltage level	V		25,1	
e	-stick out wire	mm		23	
f	-pulse dynamic corr.			10	
g	-arc length corr.			0	
9	Shielding gas				
a	-Classification and type			M12-Arc-2	
b	-gas flow	l/min		20	
Comments:					
Kun godkjent for bruk i prosjekt «FRØNESBRUA»					

Prodtex Industri			Kontrollør		
Dato	Navn	Signatur	Dato	Navn	Signatur
18.05.21	Geir Sævi		19.04.2021	CATU DORUM	

WPS Identification

Manufacturer	Prodtex Industri AS
WPQR Nr:	LH-003-TW Vertical

Equipment Identification

Welding machine (Device)	Fronius
Fiber core diameter	0,6 mm
Beam focussing system	Fronius
Focussing optics	Trumpf optics
Welding power source	Fronius TPSI 500i
Laser power source	Trumpf trdisk 10002 fiberlaser

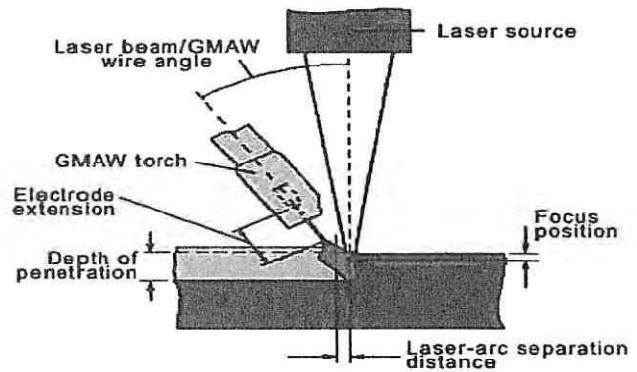
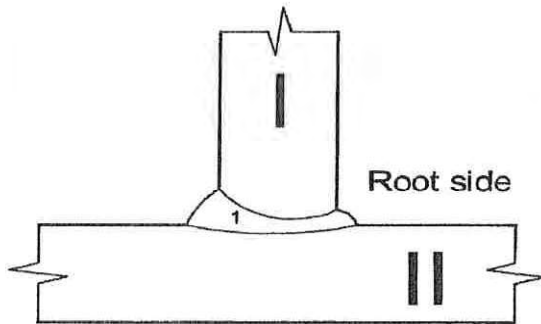
Batchnr: Material specification

52-2383	Material A:	SSAB Laser 355 MC Plus	Thickness	8mm
52-2383	Material B:	SSAB Laser 355 MC Plus	Thickness	8mm

Filler or additional material

Consumables	OK 1264
Dimension	1,2mm

Joint type	T-joint one side welded
Joint Design	Geometry



Jigs:		Yes	X	No
--------------	--	-----	---	----

X	Mechanically clamping
---	-----------------------

Tack weld process

Preheating	Yes	No	X
Post Heating	Yes	No	X

	Preparation Procedure	Butt joint, 0 mm gap, no bevelling			
		Laser cutted			
		Unit	Tacking pass	1st pass	2nd pass
1	Welding position			PG	
2	Torch arrangement			Leading wire	
3	Beam power at work piece				
	-Continuous	W		9000	
4	Power ramping details				
a	-slope up	mm		-	
b	-overlap	mm		-	
c	-slope down	mm		-	
d	-slope profile			-	
5	Geometrical parameters				
a	- Beam angle transverse	Grader		8	
b	- Beam angle longitudinal	Grader		0,2fwd	
c	- Distance beam-wire	mm		0	
d	-Focus position	Mm		0	
e	-Beam position	mm		0	
6	Welding speed	m/min		1,2	
7	Welding speed ramping			-	
8	Arc parameters				
a	-mode polarity			DC+	
b	-wire feed rate	m/min		8,9	
c	-current	A		195	
d	-voltage level	V		25,1	
e	-stick out wire	mm		23	
f	-pulse dynamic corr.			10	
g	-arc lenght corr.			0	
9	Shielding gas				
a	-Classification and type			M12-Arc-2	
b	-gas flow	l/min		20	
	Comments:				
Kun godkjent for bruk i prosjekt «FRØNESBRUA»					

Prodtex Industri			Kontrollør		
Dato	Navn	Signatur	Dato	Navn	Signatur
18.05.21	Geir Janny		19.01.2021	CATO DORUM	

WPS Identification

Manufacturer Prodtex Industri AS
WPQR Nr: LH-004-BW

Equipment Identification

Welding machine (Device)	Fronius
Fiber core diameter	0,6 mm
Beam focussing system	Fronius
Focussing optics	Trumpf optics
Welding power source	Fronius TPSI 500i
Laser power source	Trumpf trudisk 10002 fiberlaser

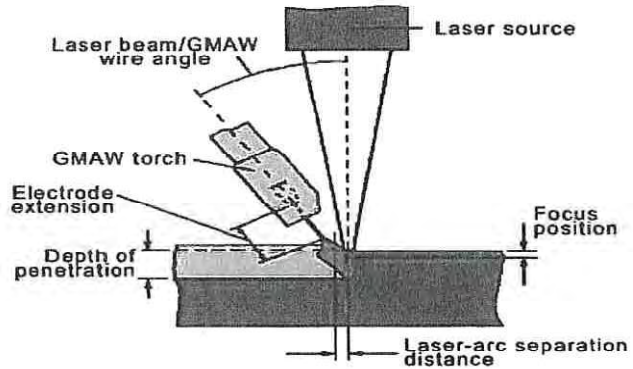
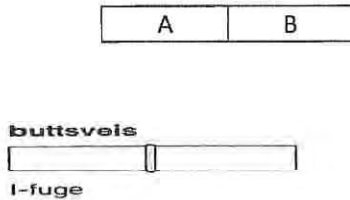
Batchnr: Material specification

52-2383	Material A:	SSAB Laser 355 MC Plus	Thickness	8mm
52-2383	Material B:	SSAB Laser 355 MC Plus	Thickness	8mm

Filler or additional material

Consumables	Carbomig3N
Dimension	1,2mm

Joint type T-joint one side welded
Joint Design Geometry





Jigs: Yes No

X	Mechanically clamping
x	Tack weld process

Preheating	Yes	No	X
Post Heating	Yes	No	X

	Preparation Procedure	T-Joint, 0 mm gap, no bevelling			
		Laser cutted			
		Unit	Tacking pass	1st pass	2nd pass
1	Welding position			PA	
2	Torch arrangement			Leading wire	
3	Beam power at work piece				
	-Continuous	W		9800	
4	Power ramping details				
a	-slope up	mm		-	
b	-overlap	mm		-	
c	-slope down	mm		-	
d	-slope profile			-	
5	Geometrical parameters				
a	- Beam angle transverse	Grader		90	
b	- Beam angle longitudinal	Grader		40 fwd	
c	- Distance beam-wire	mm		2,5	
d	-Focus position	Mm		0	
e	-Beam position	mm		0	
6	Welding speed	m/min		2,1	
7	Arc parameters				
a	-mode polarity			DC+	
b	-wire feed rate	m/min		8,5	
c	-current	A		222	
d	-voltage level	V		20,5	
e	-stick out wire	mm		18	
f	-pulse dynamic corr.			3,0	
g	-arc length corr.			-3,0	
8	Shielding gas				
a	-Classification and type			M12-ArC-2	
b	-gas flow	l/min		20	
Comments:					
<ul style="list-style-type: none"> Tack weld process: 3KW, 10mm long 1,5 m/min. <p>Kun godkjent for bruk i prosjekt «FRØNESBRUA»</p>					

Prodtex Industri			Kontrollør		
Dato	Navn	Signatur	Dato	Navn	Signatur
18.03.21	Geir Jonny Næver		19.04.2021	CATO ØRUM	

WPS Identification

Manufacturer	Prodtex Industri AS
WPQR Nr:	LH-004-BW

Equipment Identification

Welding machine (Device)	Fronius
Fiber core diameter	0,6 mm
Beam focussing system	Fronius
Focussing optics	Trumpf optics
Welding power source	Fronius TPSI 500i
Laser power source	Trumpf trudisk 10002 fiberlaser

Batchnr: Material specification

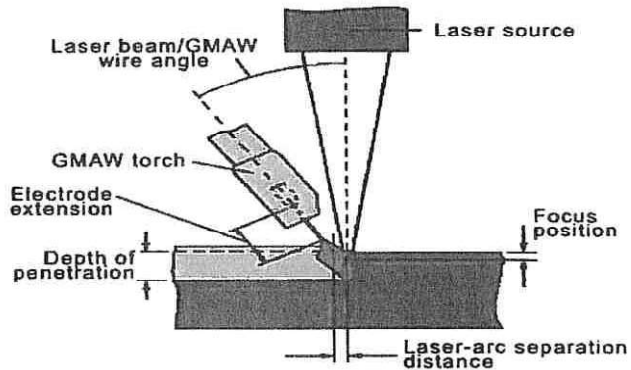
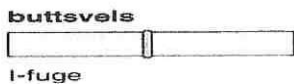
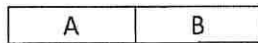
52-2383	Material A:	SSAB Laser 355 MC Plus	Thickness	8mm
52-2383	Material B:	SSAB Laser 355 MC Plus	Thickness	8mm

Filler or additional material

Consumables	Carbomig3N
Dimension	1,2mm

Joint type	T-joint one side welded
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Joint Design	Geometry
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Jigs:		Yes	X	No
--------------	--	-----	---	----

X	Mechanically clamping
---	-----------------------

x	Tack weld process
---	-------------------

Preheating	Yes	No	X
-------------------	------------	-----------	---

Post Heating	Yes	No	X
---------------------	------------	-----------	---

	Preparation Procedure	T-Joint, 0 mm gap, no bevelling			
		Laser cutted			
		Unit	Tacking pass	1st pass	2nd pass
1	Welding position			PA	
2	Torch arrangement			Leading wire	
3	Beam power at work piece				
	-Continuous	W		9800	
4	Power ramping details				
a	-slope up	mm		-	
b	-overlap	mm		-	
c	-slope down	mm		-	
d	-slope profile			-	
5	Geometrical parameters				
a	- Beam angle transverse	Grader		90	
b	- Beam angle longitudinal	Grader		40 fwd	
c	- Distance beam-wire	mm		2,5	
d	-Focus position	Mm		0	
e	-Beam position	mm		0	
6	Welding speed	m/min		2,1	
7	Arc parameters				
a	-mode polarity			DC+	
b	-wire feed rate	m/min		8,5	
c	-current	A		222	
d	-voltage level	V		20,5	
e	-stick out wire	mm		18	
f	-pulse dynamic corr.			3,0	
g	-arc lenght corr.			-3,0	
8	Shielding gas				
a	-Classification and type			M12-ArC-2	
b	-gas flow	l/min		20	
Comments:					
<ul style="list-style-type: none"> Tack weld process: 3KW, 10mm long 1,5 m/min. Kun godkjent for bruk i prosjekt «FRØNESBRUA»					

Prodtex Industri			Kontrollør		
Dato	Navn	Signatur	Dato	Navn	Signatur
18.05.21	Geir Jonny Vik	Geir Jonny Vik	19.04.2021	CATO DØRUM	Cato Dørum

WPS Identification

Manufacturer Prodtex Industri AS
WPQR Nr: LH-005-BW

Equipment Identification

Welding machine (Device)	Fronius
Fiber core diameter	0,6 mm
Beam focussing system	Fronius
Focussing optics	Trumpf optics
Welding power source	Fronius TPSI 500i
Laser power source	Trumpf trudisk 10002 fiberlaser

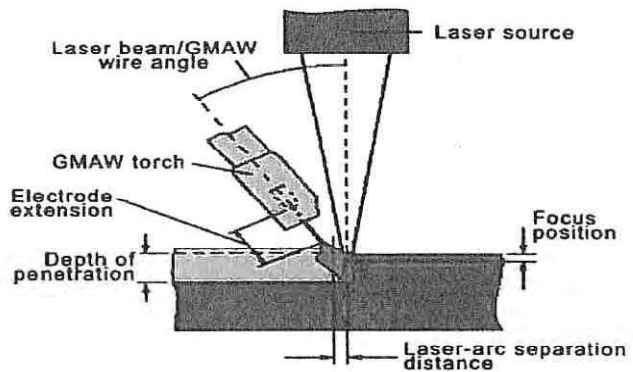
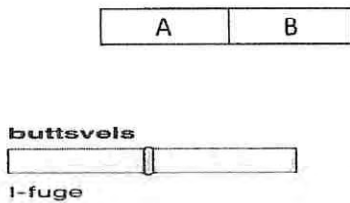
Batchnr: Material specification

59-8283	Material A:	SSAB Laser 355 MC Plus	Thickness	10mm
59-8283	Material B:	SSAB Laser 355 MC Plus	Thickness	10mm

Filler or additional material

Consumables	Carbomig3N
Dimension	1,2mm

Joint type T-joint one side welded
Joint Design Geometry

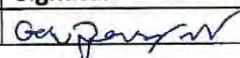
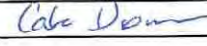


Jigs: Yes No

<input checked="" type="checkbox"/>	Mechanically clamping
<input checked="" type="checkbox"/>	Tack weld process

Preheating	Yes	No	X
Post Heating	Yes	No	X

	Preparation Procedure	T-Joint, 0 mm gap, no bevelling			
		Laser cutted			
		Unit	Tacking pass	1st pass	2nd pass
1	Welding position			PA	
2	Torch arrangement			Leading wire	
3	Beam power at work piece				
	-Continuous	W		10000	
4	Power ramping details				
a	-slope up	mm		-	
b	-overlap	mm		-	
c	-slope down	mm		-	
d	-slope profile			-	
5	Geometrical parameters				
a	- Beam angle transverse	Grader		90	
b	- Beam angle longitudinal	Grader		15,6 fwd	
c	- Distance beam-wire	mm		5,0	
d	-Focus position	Mm		254	
e	-Beam position	mm		24,3	
6	Welding speed	m/min		1,9	
7	Arc parameters				
a	-mode polarity			DC+	
b	-wire feed rate	m/min		9,0	
c	-current	A		222	
d	-voltage level	V		20,5	
e	-stick out wire	mm		15	
f	-pulse dynamic corr.			-10	
g	-arc lenght corr.			2,0	
8	Shielding gas				
a	-Classification and type			M12-ArC-2	
b	-gas flow	l/min		20	
Comments:					
<ul style="list-style-type: none"> Tack weld process: 3KW,10mm long 1,5 m/min. <p>Kun godkjent for bruk i prosjekt «FRØNESBRUA»</p>					

Prodtex Industri			Kontrollør		
Dato	Navn	Signatur	Dato	Navn	Signatur
18.07.21	Geir Jonny Larsen		19.04.22	CATO DØRUM	

WPS Identification

Manufacturer	Prodtex Industri AS
WPQR Nr:	LH-005-BW

Equipment Identification

Welding machine (Device)	Fronius
Fiber core diameter	0,6 mm
Beam focussing system	Fronius
Focussing optics	Trumpf optics
Welding power source	Fronius TPSI 500i
Laser power source	Trumpf trdisk 10002 fiberlaser

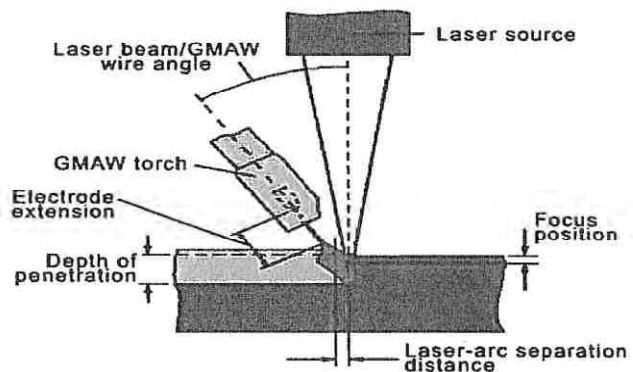
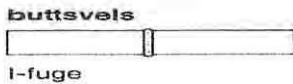
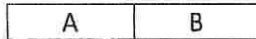
Batchnr: Material specification

59-8283	Material A:	SSAB Laser 355 MC Plus	Thickness	10mm
59-8283	Material B:	SSAB Laser 355 MC Plus	Thickness	10mm

Filler or additional material

Consumables	Carbomig3N
Dimension	1,2mm

Joint type	T-joint one side welded
Joint Design	Geometry



Jigs:		Yes	X	No
	X	Mechanically clamping		
	x	Tack weld process		
Preheating		Yes	No	X
Post Heating		Yes	No	X

	Preparation Procedure	T-Joint, 0 mm gap, no bevelling			
		Laser cutted			
		Unit	Tacking pass	1st pass	2nd pass
1	Welding position			PA	
2	Torch arrangement			Leading wire	
3	Beam power at work piece				
	-Continuous	W		10000	
4	Power ramping details				
a	-slope up	mm		-	
b	-overlap	mm		-	
c	-slope down	mm		-	
d	-slope profile			-	
5	Geometrical parameters				
a	- Beam angle transverse	Grader		90	
b	- Beam angle longitudinal	Grader		15,6 fwd	
c	- Distance beam-wire	mm		5,0	
d	-Focus position	Mm		254	
e	-Beam position	mm		24,3	
6	Welding speed	m/min		1,9	
7	Arc parameters				
a	-mode polarity			DC+	
b	-wire feed rate	m/min		9,0	
c	-current	A		222	
d	-voltage level	V		20,5	
e	-stick out wire	mm		15	
f	-pulse dynamic corr.			-10	
g	-arc lenght corr.			2,0	
8	Shielding gas				
a	-Classification and type			M12-ArC-2	
b	-gas flow	l/min		20	
	Comments:				
<ul style="list-style-type: none"> Tack weld process: 3KW, 10mm long 1,5 m/min. <p>Kun godkjent for bruk i prosjekt «FRØNESBRUA»</p>					

Prodtex Industri			Kontrollør		
Dato	Navn	Signatur	Dato	Navn	Signatur
18.03.21	Groen Jonny		19.04.2021	CAFU DØRUM	

Produced by: Prodtex industri as

Client ----

Ref. standard: EN ISO 15609-6

Project: General

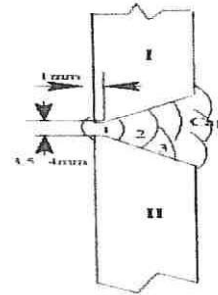
Ref. spec/standard: NS-EN ISO 15614-14

Verit body: DNV

Location: Fiská

Ref. PWPS MW-04-PC

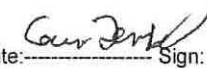
Welding methods:	1	138	2	136	3
Shielding gas type:	82 % Ar + 18 % CO2		82 % Ar + 18 % CO2		
Welding position	PC				
Torch arrangement					
Purging gas	N/A				
Joint type	BW-Single-V-Butt				
Joint preparation	Cutting				
Cleaning method	Grinding/Brushing				
Backing	N/A				
Single/double side	Single side, full penetration				
Gouging method	N/A				
Wire stickout	15-20				
Torch angle	70-80 Grader				
Arc lenght	NA				
Pulse dyn.corr.	NA				
Wire-beam distance	NA				



Identification of base material	I: C max:	CE max:	PCM max:	II: C max:	CE max:	PCM max:
Part	Name/Grade	Standard	Group	Delivery cond.	Thick. range mm	Diameter range mm
A	S355G10+M	EN 10225	1.2	TM	10-10	-
B	S355G10+M	EN 10225	1.2	TM	10-10	-

Identification of filler material				
Index	Brand name	Classification	Group	Filler treatment
A	NSSW SM-3A	EN ISO17632-A: T 42 2 ZMn P M21 1 H5	9606-1 FM1	Manufactures spec
B	NSSW SF-3A	EN ISO17632-A: T 46 4 ZMni P M21 1 H5	9606-1 FM1	Manufactures spec

Welding parameters											
Pass no:	Side	Dia. Mm wire	Welding method	Wire feed m/min	Current A	Volt V	Polarity	W. speed mm/min	Run out length mm	Gas L/min	Heat input KJ/mm
1	1	1,2	138	2-2,2	95-110	14,5-15	DC+	60-80	500	20	1,03-1,65
Fill	1	1,2	136	6-8	210-225	22-24	DC+	270-400	500	20	0,69-1,2
Cap	1	1,2	136	6-7	205-215	22-24	DC+	250-360	500	20	0,75-1,24

PWHT min: NONE	max:	Non - Destructive Testing:				Produced by:	
Soaking: N/A	min/mm	VE: 100%	UT:	RT: 100%	MT:100%	PT:	 Date: _____ Sign: _____ Approved by: Date: 19.04.2021 Sign: Cato Damm
Heating rate: N/A	Other Information:						
Cooling rate: N/A	Welding unit: Kempii						
Preheat min: 20 °C							
Interpass max: 250°C							
Temp. control: Digital							

Produced by: Prodtex industri as

Client —

Ref. standard: EN ISO 15609-6

Project: General

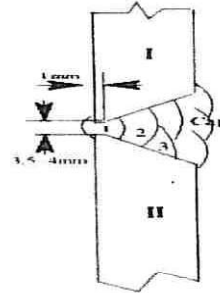
Ref. spec/standard: NS-EN ISO 15614-14

Verit body: DNV

Location: Fiská

Ref. WPQR: MW-04-PC

Welding methods:	1	138	2	136	3	
Shielding gas type:		82 % Ar + 18 % CO2		82 % Ar + 18 % CO2		
Welding position	PC					
Torch arrangement						
Purging gas	N/A					
Joint type	BW-Single-V-Butt					
Joint preparation	Cutting					
Cleaning method	Grinding/Brushing					
Backing	N/A					
Single/double side	Single side, full penetration					
Gouging method	N/A					
Wire stickout	15-20					
Torch angle	70-80 Grader					
Arc lenght	NA					
Pulse dyn.corr.	NA					
Wire-beam distance	NA					



Identification of base material	I: C max:	CE max:	PCM max:	II: C max:	CE max:	PCM max:
Part	Name/Grade	Standard	Group	Delivery cond.	Thick. range mm	Diameter range mm
A	S355G10+M	EN 10225	1.2	TM	10-10	-
B	S355G10+M	EN 10225	1.2	TM	10-10	-

Identification of filler material

Index	Brand name	Classification	Group	Filler treatment
A	NSSW SM-3A	EN ISO17632-A: T 42 2 ZMn P M21 1 H5	9606-1 FM1	Manufactures spec
B	NSSW SF-3A	EN ISO17632-A: T 46 4 ZMni P M21 1 H5	9606-1 FM1	Manufactures spec

Welding parameters

Pass no:	Side	Dia. Mm wire	Welding method	Wire feed m/min	Current A	Volt V	Polarity	W. speed mm/min	Run out length mm	Gas L/min	Heat input KJ/mm
1	1	1,2	138	2-2,2	95-110	14,5-15	DC+	60-80	500	20	1,03-1,65
Fill	1	1,2	136	6-8	210-225	22-24	DC+	270-400	500	20	0,69-1,2
Cap	1	1,2	136	6-7	205-215	22-24	DC+	250-360	500	20	0,75-1,24

PWHT min: NONE	max:	Non - Destructive Testing:
Soaking: N/A	min/mm	VE: 100% UT: RT: 100% MT: 100% PT:
Heating rate: N/A		Other Information:
Cooling rate: N/A		Welding unit: Kempii
Preheat min: 20 °C		
Interpass max: 250°C		
Temp. control: Digital		

Produced by:

Date: 18.03.20 Sign: [Signature]

Approved by:

Date: 19.04.2021 Sign: [Signature]

Prodtex

Production / Technology / Excellence

Welding Procedure Specification WPQR

WPQR No: MW 05 PF

Date: 22.09.2020

Rev. 0

Produced by: Prodtex industri as

Client ----

Ref. standard: EN ISO 15609-6

Project: General

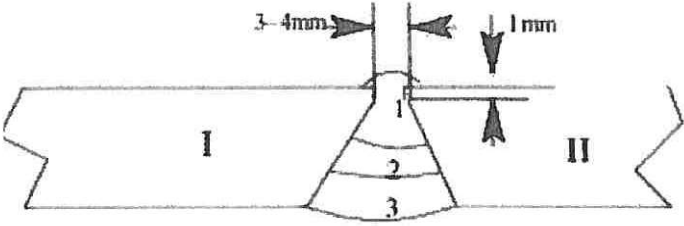
Ref. spec/standard: NS-EN ISO 15614-14

Verit body: DNV

Location: Fiskå

Ref. PWPS MW-05-PF

Welding methods:	1	138	2	136	3	
Shielding gas type:		82 % Ar + 18 % CO2		82 % Ar + 18 % CO2		
Welding position	PF					
Torch arrangement	NA					
Purging gas	N/A					
Joint type	BW-Single-V-Butt					
Joint preparation	Cutting					
Cleaning method	Grinding/Brushing					
Backing	N/A					
Single/double side	Single side, full penetration					
Gouging method	N/A					
Wire stickout	15-20					
Torch angle	70-80 Grader					
Arc lenght	NA					
Pulse dyn.corr.	NA					
Wire-beam dittance	NA					



Identification of base material

Part	Name/Grade	Standard	Group	Delivery cond.	Thick. range mm	Diameter range mm
A	S355G10+M	EN 10225	2.1	TM	10-10	-
B	S355G10+M	EN 10225	2.1	TM	10-10	-

Identification of filler material

Index	Brand name	Classification	Group	Filler treatment
A	NSSW SM-3A	EN ISO17632-A: T 42 4 ZMn P M21 1 H5	9606-1 FM1	Manufactures spec
B	NSSW SF-3A	EN ISO17632-A: T 46 4 ZMni P M21 1 H5	9606-1 FM1	Manufactures spec

Welding parameters

Pass no:	Side	Dia. Mm wire	Welding method	Wire feed m/min	Current A	Volt V	Polarity	W. speed mm/min	Run out length mm	Gas L/min	Heat input KJ/mm
1	1	1,2	138	1.9-2.2	90-110	14,5-15	DC+	50-80	500	20	0.98-1.98
2	1	1,2	136	6-8	210-225	22-24	DC+	160-200	500	20	1.39-1.98
Cap	1	1,2	136	5-6	190-210	22-24	DC+	170-230	500	20	1.09-1.78

PWHT min: NONE max:	Non - Destructive Testing:	Produced by:
Soaking: N/A min/mm	VE: 100% UT: RT: 100% MT: 100% PT:	Date: <u>19.04.2021</u> Sign: <u>Cato Dam</u>
Heating rate: N/A	Other Information:	
Cooling rate: N/A	Welding unit: Kempii	Approved by:
Preheat min: 20 °C		Date: <u>19.04.2021</u> Sign: <u>Cato Dam</u>
Interpass max: 250°C		
Temp. control: Digital		

Produced by: Prodtex industri as

Client ---

Ref. standard: EN ISO 15609-6

Project: General

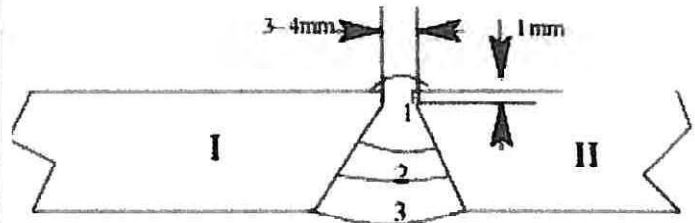
Ref. spec/standard: NS-EN ISO 15614-14

Verit body: DNV

Location: Fiskå

Ref. WPQR: MW-05-PF

Welding methods:	1	138	2	136	3	
Shielding gas type:		82 % Ar + 18 % CO2		82 % Ar + 18 % CO2		
Welding position	PF					
Torch arrangement	NA					
Purging gas	N/A					
Joint type	BW-Single-V-Butt					
Joint preparation	Cutting					
Cleaning method	Grinding/Brushing					
Backing	N/A					
Single/double side	Single side, full penetration					
Gouging method	N/A					
Wire stickout	15-20					
Torch angle	70-80 Grader					
Arc lenght	NA					
Pulse dyn.corr.	NA					
Wire-beam distance	NA					



Identification of base material

Part	Name/Grade	Standard	Group	Delivery cond.	Thick. range mm	Diameter range mm
A	S355G10+M	EN 10225	2.1	TM	10-10	-
B	S355G10+M	EN 10225	2.1	TM	10-10	-

Identification of filler material

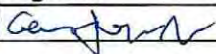
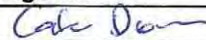
Index	Brand name	Classification	Group	Filler treatment
A	NSSW SM-3A	EN ISO17632-A: T 42 4 ZMn P M21 1 H5	9606-1 FM1	Manufactures spec
B	NSSW SF-3A	EN ISO17632-A: T 46 4 ZMni P M21 1 H5	9606-1 FM1	Manufactures spec

Welding parameters

Pass no:	Side	Dia. Mm wire	Welding method	Wire feed m/min	Current A	Volt V	Polarity	W. speed mm/min	Run out length mm	Gas L/min	Heat input KJ/mm
1	1	1,2	138	1.9-2.2	90-110	14,5-15	DC+	50-80	500	20	0.98-1.98
2	1	1,2	136	6-8	210-225	22-24	DC+	160-200	500	20	1.39-1.98
Cap	1	1,2	136	5-6	190-210	22-24	DC+	170-230	500	20	1.09-1.78

PWHT min: NONE	max:	Non - Destructive Testing:	Produced by:
Soaking: N/A	min/mm	VE: 100% UT: RT: 100% MT: 100% PT:	Date: 18.03.2021 Sign: <i>Gerd J. N.</i>
Heating rate: N/A		Other Information:	Approved by:
Cooling rate: N/A		Welding unit: Kempii	
Preheat min: 20 °C			
Interpass max: 250°C			
Temp. control: Digital			Date: 19.04.2021 Sign: <i>Cate Dorn</i>

	Preparation	Butt joint, 0 mm gap, no bevelling			
	Procedure	Laser cutted			
		Unit	Tacking pass	1st pass	2nd pass
1	Welding position			PA	
2	Torch arrangement			Leading wire	
3	Beam power at work piece				
	-Continuous	W		10000	
4	Power ramping details				
a	-slope up	mm		-	
b	-overlap	mm		-	
c	-slope down	mm		-	
d	-slope profile			-	
5	Geometrical parameters				
a	- Beam angle transverse	Grader		90	
b	- Beam angle longitudinal	Grader		15,6fwd	
c	- Distance beam-wire	mm		5,0	
d	-Focus position	Mm		0	
e	-Beam position	mm		0	
6	Welding speed	m/min		1,9	
7	Welding speed ramping			-	
8	Arc parameters				
a	-mode polarity			DC+	
b	-wire feed rate	m/min		9,0	
c	-current	A		254	
d	-voltage level	V		24,3	
e	-stick out wire	mm		15	
f	-pulse dynamic corr.			-10	
g	-arc lenght corr.			2,0	
9	Shielding gas				
a	-Classification and type			M12-ArC-2	
b	-gas flow	l/min		20	
	Comments:				
<ul style="list-style-type: none"> Tackweld process: 3KW laserpower 10mm long speed 1,5m/min Kun godkjent for bruk i prosjekt «FRØNESBRUA» 					

Prodtex Industri			Kontrollør		
Dato	Navn	Signatur	Dato	Navn	Signatur
18.03.21	Geir Johnny Helseth		19.04.21	CAFØ DØRUM	

WPS Identification

Manufacturer	Prodtex Industri AS
WPQR Nr:	Plasma

Equipment Identification

Welding machine (Device)	Fronius
Fiber core diameter	0,6 mm
Beam focussing system	Fronius
Focussing optics	Trumpf optics
Welding power source	Fronius TPSI 500i
Laser power source	Trumpf trudisk 10002 fiberlaser

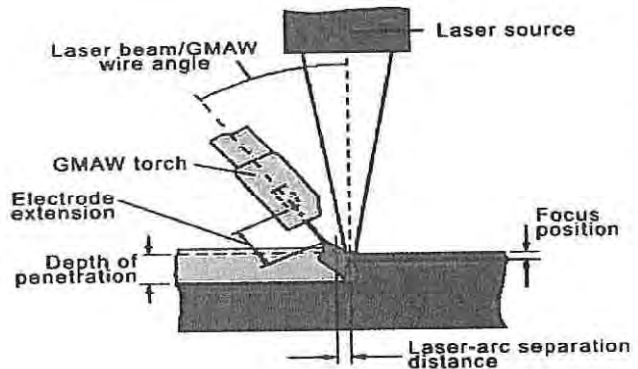
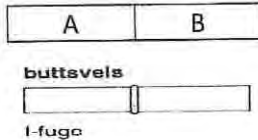
Batchnr: Material specification

62193	Material A:	SSAB Laser 355 MC Plus	Thickness	10mm
62193	Material B:	SSAB Laser 355 MC Plus	Thickness	10mm

Filler or additional material

Consumables	Carbomig3N
Dimension	1,2mm

Joint type	Butt joint one side welded
Joint Design	Geometry

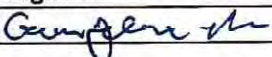



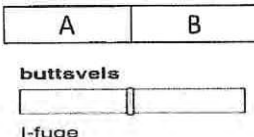
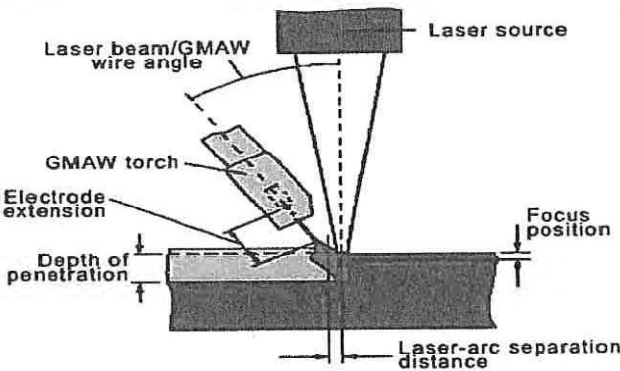
Jigs:		Yes	X	No
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X	Mechanically clamping
	Tack weld process

Preheating	Yes	No	X
Post Heating	Yes	No	X

	Preparation Procedure	Butt joint, 0 mm gap, no bevelling			
		Laser cutted			
		Unit	Tacking pass	1st pass	2nd pass
1	Welding position			PA	
2	Torch arrangement			Leading wire	
3	Beam power at work piece				
	-Continuous	W		10000	
4	Power ramping details				
a	-slope up	mm		-	
b	-overlap	mm		-	
c	-slope down	mm		-	
d	-slope profile			-	
5	Geometrical parameters				
a	- Beam angle transverse	Grader		90	
b	- Beam angle longitudinal	Grader		15,6fwd	
c	- Distance beam-wire	mm		5,0	
d	-Focus position	Mm		0	
e	-Beam position	mm		0	
6	Welding speed	m/min		1,9	
7	Welding speed ramping			-	
8	Arc parameters				
a	-mode polarity			DC+	
b	-wire feed rate	m/min		9,0	
c	-current	A		254	
d	-voltage level	V		24,3	
e	-stick out wire	mm		15	
f	-pulse dynamic corr.			-10	
g	-arc lenght corr.			2,0	
9	Shielding gas				
a	-Classification and type			M12-ArC-2	
b	-gas flow	l/min		20	
Comments:					
<ul style="list-style-type: none"> Tackweld process: 3KW laserpower 10mm long speed 1,5m/min Kun godkjent for bruk i prosjekt «FRØNESBRUA» 					

Prodtex Industri			Kontrollør		
Dato	Navn	Signatur	Dato	Navn	Signatur
18.03.21	Geir Johnny Nansen		19.04.21	CATU DØRUM	

WPS Identification				
Manufacturer		Prodtex Industri AS		
WPQR Nr:		Plasma		
Equipment Identification				
Welding machine (Device)		Fronius		
Fiber core diameter		0,6 mm		
Beam focussing system		Fronius		
Focussing optics		Trumpf optics		
Welding power source		Fronius TPSI 500i		
Laser power source		Trumpf trudisk 10002 fiberlaser		
Batchnr:		Material specification		
62193	Material A:	SSAB Laser 355 MC Plus	Thickness	10mm
62193	Material B:	SSAB Laser 355 MC Plus	Thickness	10mm
Filler or additional material				
Consumables		Carbomig3N		
Dimension		1,2mm		
Joint type		Butt joint one side welded		
Joint Design		Geometry		
				
Jigs:		Yes	X	No
X		Mechanically clamping		
		Tack weld process		
Preheating	Yes		No	X
Post Heating	Yes		No	X

VEDLEGG C: NDT rapporter fra Vitec og Vertikalservice





Magnetic Particle Testing / Magnetpulver Testing (MT)

Client / Kunde Prodtex industrier AS	Report no / Rapport nr MT- 1	
Client order no / Kunde ordre nr 2116000	Project / Prosjekt Frønesbrua	
Section no / Seksjon nr Seksjon 1	Extent of Testing / Kontrollomfang 100% av oppgitte sveiser	
Procedure / Prosedyre SVV-R762-10.06	Acceptance standard / Akseptstandard NS-EN ISO 23278	
Equipment / Utstyr <input checked="" type="checkbox"/> Tiede Yoke AC <input type="checkbox"/> Other / Annet	Magnetic Particle Type/ Magnetpulver Type <input checked="" type="checkbox"/> Magnavis WB-27 <input type="checkbox"/> Bycotest 103 <input type="checkbox"/> PFinder 251 <input type="checkbox"/> Tiede 690.1 <input type="checkbox"/> Other/ Annet	
Contrast Paint / Kontrastmaling <input type="checkbox"/> Spectracolor 971 <input checked="" type="checkbox"/> MR Chemie 72 <input type="checkbox"/> Bycotest 104A	Technique/ Teknikk <input type="checkbox"/> Dry Powder / Tørrpulver <input checked="" type="checkbox"/> Wet Powder / Våtpulver <input type="checkbox"/> Fluorecent / Fluoriserende	
Material / thickness / Materiale/ tykkelse : 10mm	Welding process/ Sveisemetode Laser hybrid	Joint / Fuge <input checked="" type="checkbox"/> BW / Buttsveis <input type="checkbox"/> FW / Kilsveis
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temp. / Overflate temperatur = 20°C		

TEST RESULTS / TEST RESULTAT

Weld no / Sveis nr	Position / Posisjon (mm)	Length Tested / Testlengde (mm) / (%)	Defect Length / Feillengde (mm)	Defect Type / Feiltype	Defect Name / Feilnavn	Acc	Rej
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer

Godkjente toppsveiser (tvers) :

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33.

Opplistede sveiser er godkjent i hele sin lengde (4420mm pr stk).

Til sammen 141 440mm.

Date / Dato 09/08-2021	Operator name / Inspektør navn Jørgen H. Johansen	Certificate no / Sertifikat nr 12719-N2-M
Place of Work / Kontrollsted Prodtex Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of/ av 1



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-52	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate			
<input checked="" type="checkbox"/> As welded / Sveist	<input checked="" type="checkbox"/> Grinded / Slipt	<input type="checkbox"/> Blasted / Sandblåst	<input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert
Surface temperature / Overflate temperatur: 15°C			

Weld no / Sveis nr Seksjon 1, Bunnsveis 2	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 349 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	2014-2043	7-8	29	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2440-2520	7-8	80	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	2460-2484	3-5	24	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	TOFD	5000-5240	5-8	240	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 03/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-53	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate	
<input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 1, Bunnsveis 3	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 4012 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+1	0-1000	5-7	1000	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1315-3040	0-8	1725	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3493-3530	7-8	37	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	TOFD	3995-5245	0-8	1250	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 03/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDRAHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-58	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, bunnveis 4	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 210 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	40-250	5-7	210	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-54		
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
Welders / Sveisere N/A			Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>			Inspection cat / Insp kat B		
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB	
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm	
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C					
Weld no / Sveis nr Seksjon 1, Bunnsveis 5		Length Tested / Testlengde 5492 mm		Defect Length / Feillengde 1910 mm	
Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1129-1310	3-7	181	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1848-3320	2-8	1472	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3771-4028	2-8	257	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 03/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-55	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
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Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C	
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Weld no / Sveis nr Seksjon 1, Bunnsveis 6	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 2425 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	550-1579	3-8	1029	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	3370-4481	0-8	1111	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	4783-5068	2-5	285	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 03/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-56		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, Bunnsveis 7	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 518 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	4457-4975	2-8	518	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 03/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDHAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-57	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex
<input type="checkbox"/> Super Duplex	<input type="checkbox"/> Titan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 1, Bunnsvais 8	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 1743 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	130-185	2-6	55	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2635-3328	2-7	693	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3500-3855	2-8	355	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	TOFD	4384-5024	0-8	640	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>


Comments / Kommentarer :

Date of test / Test dato 03/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1

Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-107						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B				
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 1, bunnsveis 10	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 259 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1296-1393	6-8	97	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+4	4217-4379	5-8	162	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 05/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 08.08.21 GERR AMUND INDHAHL		Approved sign / Godkjent sign Geir Amund Indahl			Cert no / Sert nr 2679-N3-U			



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-60	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
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Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C			
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Weld no / Sveis nr Seksjon 1, bunnveis 11	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 1707 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	785-1662	2-8	877	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1950-1970	2-8	20	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	2790-3600	0-8	238	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :
 Spredte porer i forskjellige dybder mellom angitt posisjoner.

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-59	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 8mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
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Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
---------------------------------------------	-----------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------

Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C	
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Weld no / Sveis nr Seksjon 1, Bunnsveis 9	Length Tested / Testlengde 5492 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1

Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDHAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-17		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, sveis 23	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm		Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>Vegar Mosling</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-18	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 24	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>Vegar Mosling</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-19	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 1, sveis 25	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>Vegar Mosling</i> <i>Jørgen H. Johansen</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl <i>Geir Amund Indahl</i>	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-25	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 31	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>Vegar Mosling</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent signatur Geir Amund Indahl <i>Geir Amund Indahl</i>	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-37	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 42	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>[Signature]</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-38		
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
			Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B	
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>					
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB	
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm	
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C					
Weld no / Sveis nr Seksjon 1, sveis 43	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm		Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>Vegar Mosling</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-39	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 44	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>Vegar Mosling</i>	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND IND AHL	Approved sign / Godkjent sign <i>Geir Amund Indahl</i>	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-43	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert				
Surface temperature / Overflate temperatur: 15°C				

Weld no / Sveis nr Seksjon 1, sveis 48	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>Vegar Mosling</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-49	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thick / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 1	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 98 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	2063-2138	6-9	75	Sprede porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	0	2800-2812	4-6	12	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	0	3404-3415	6-10	11	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :
 Dårlig TOFD signal pga sliping i grunnmaterialet med slipeskive. Gjelder område 590-1450mm & 2950-4420mm.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-50	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 2	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 257 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-80	0-10	80	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1531-1671	0-10	140	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	1883-1907	0-10	24	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	TOFD	2437-2450	0-10	13	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :
 Dårlig TOFD signal pga sliping i grunnmaterialet med slipeskive. Gjelder område 1450-2000mm & 2270-4420mm.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1

Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-51	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thick / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 3	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 79 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+5	92-108	5-10	16	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+12	1603-1624	0-10	21	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+12	1670-1689	0-10	19	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	0	2636-2649	4-10	13	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	+1	3622-3632	5-10	10	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-1	
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
			Testing Level / Test Nivå EXC 3	
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, sveis 4	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 835 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+5	1837-1859	0-10	22	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+5	2105-2644	5-10	539	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+7	3101-3115	4-8	14	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+7	4160-4420	6-10	260	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIRAMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-28	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate	
<input checked="" type="checkbox"/> As welded / Sveist	<input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 1, sveis 5	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 25 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+7	810-828	5-10	18	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	0	3997-4004	6-10	7	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-2	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 2
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate			
<input checked="" type="checkbox"/> As welded / Sveist	<input checked="" type="checkbox"/> Grinded / Slipt	<input type="checkbox"/> Blasted / Sandblåst	<input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert
Surface temperature / Overflate temperatur: 15°C			

Weld no / Sveis nr Seksjon 1, sveis 6	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 169 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
Resultat er samlet på side 2.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 2
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDALH	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+9	1072-1092	4-10	20	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+7	1543-1587	0-10	44	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+8	1618-1630	0-10	12	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	-1	1668-1674	2-8	6	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	0	3285-3294	5-10	9	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	N/A	+5	3642-3660	3-10	18	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	N/A	+3	4003-4019	6-10	16	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	N/A	-3	4314-4320	4-10	6	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	N/A	+6	4348-4386	5-10	38	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>





Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-3						
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 2				
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
			Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B					
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>									
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB					
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C									
Weld no / Sveis nr Seksjon 1, sveis 7	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 261 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT									
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej	
							<input type="checkbox"/>	<input type="checkbox"/>	
							<input type="checkbox"/>	<input type="checkbox"/>	
							<input type="checkbox"/>	<input type="checkbox"/>	
Comments / Kommentarer : Resultat er samlet på side 2.									
Date of test / Test dato 19/06-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U				
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 2				
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL		Approved sign / Godkjent sign Geir Amund Indahl			Cert no/ Sert nr 2679-N3-U				

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+1	22-32	6-10	10	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	0	36-44	4-8	8	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+4	504-525	3-10	21	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+7	625-655	3-10	30	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	+6	820-840	0-10	20	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	N/A	+4	1856-1876	0-10	20	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	N/A	0	2117-2124	0-10	7	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	N/A	TOFD	2564-2571	2-9	7	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	N/A	+1	3002-3028	5-9	26	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	N/A	-6	3053-3064	4-10	11	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	N/A	+3	3767-3851	3-10	84	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	N/A	+7	4367-4384	2-10	17	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>





Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-4						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 2					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thick / Tykkelse 10mm	Inspection cat / Insp kat B				
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 1, sveis 8	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 536 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer : Resultat er samlet på side 2.								
Date of test / Test dato 19/06-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 2			
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL		Approved sign / Godkjent sign Geir Amund Indahl 			Cert no/ Sert nr 2679-N3-U			

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	-2	573-581	3-10	8	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	-5	840-854	3-10	14	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+6	1537-1730	4-10	193	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+4	1788-1809	4-10	21	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	-3	2173-2180	3-9	7	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	N/A	+1	2976-2995	4-10	19	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	N/A	TOFD	3542-3588	6-10	46	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	N/A	TOFD	4102-4285	8-10	183	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	N/A	-3	4365-4380	5-10	15	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	N/A	-5	4390-4420	7-10	30	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>





Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-5						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 2					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B				
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 1, sveis 9	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 836 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer : Resultat er samlet på side 2.								
Date of test / Test dato 19/06-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen		Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U				
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 		Page / Side 1 of / av 2				
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDRAHL		Approved sign / Godkjent sign Geir Amund Indahl 		Cert no/ Sert nr 2679-N3-U				

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+2	14-20	6-10	6	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	-3	1537-1545	3-10	8	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	-2	1610-1620	3-10	10	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+2	1680-1692	3-10	12	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	0	1775-1786	3-10	11	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	N/A	+2	2785-2799	4-7	14	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	N/A	TOFD	2824-2841	9-10	17	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	N/A	0	2994-3083	3-10	87	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	N/A	TOFD	3386-3420	7-10	34	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	N/A	TOFD	3497-3800	6-10	303	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	N/A	TOFD	4086-4420	7-10	334	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>





Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-6					
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 1			
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%					
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018					
			Testing Level / Test Nivå EXC 3					
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B				
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 1, sveis 10	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 1663 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej				
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	740-1135	4-10	395	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1945-3063	0-10	1268	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer : Porer spredt i forskjellige dybder mellom angitte posisjoner								
Date of test / Test dato 19/06-2021			Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U		
Place of Work / Kontrollsted Fiskå Vanylven			Operator signature / Inspektør signatur 			Page / Side 1 of / av 1		
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDAL			Approved sign / Godkjent sign Geir Amund Indal 			Cert no/ Sert nr 2679-N3-U		



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-7		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, sveis 11	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 992 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+1	1371-1398	7-10	27	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+5	2327-2950	4-10	623	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+5	4078-4420	0-10	342	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-8		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, sveis 12	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 1767 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	838-2274	0-10	1436	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2562-2698	7-10	136	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	0	2950-3000	5-10	50	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	TOFD	3486-3585	7-10	99	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	+7	4374-4420	4-10	46	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDAL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-9					
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 1			
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%					
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018					
			Testing Level / Test Nivå EXC 3					
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B				
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 1, sveis 13	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 4420 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej				
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-4420	0-10	4420	Bindefeil / porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer : Spredte små & store feil over hele sveiselengden. Anbefaler å fjerne hele lengden og sveise på nytt.								
Date of test / Test dato 19/06-2021			Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U		
Place of Work / Kontrollsted Fiskå Vanylven			Operator signature / Inspektør signatur 			Page / Side 1 of / av 1		
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL			Approved sign / Godkjent sign Geir Amund Indahl 			Cert no/ Sert nr 2679-N3-U		



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-10	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 2
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 14	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 1304 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Resultat er samlet på side 2.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 2
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDAL	Approved sign / Godkjent sign Geir Amund Indal	Cert no/ Sert nr 2679-N3-U
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	110-330	0-10	220	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	-3	970-980	3-10	10	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	1395-2189	3-10	794	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+1	2907-3157	3-10	250	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	-3	3700-3714	3-10	14	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	N/A	TOFD	4176-4192	3-10	16	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>





Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-11		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B

Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm

Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C			
Weld no / Sveis nr Seksjon 1, sveis 15	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 917 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	0	633-670	5-10	37	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1763-2179	6-10	416	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+1	3956-4420	5-10	464	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-46					
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 1			
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%					
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018					
			Testing Level / Test Nivå EXC 3					
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B				
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 1, sveis 16	Length Tested / Testlengde 2850 mm	Defect Length / Feillengde 260 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej				
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	4160-4420	5-10	260	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer : Område før & etter 2stk løfteører mangler kontroll.								
Date of test / Test dato 22/06-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur <i>Jørgen H. Johansen</i> <i>OMO</i>			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL		Approved sign / Godkjent sign Geir Amund Indahl			Cert no/ Sert nr 2679-N3-U			



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-13						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm					
		Inspection cat / Insp kat B						
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB						
Sens. Level / Forsterkning +6 dB								
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm ϕ = 2,5 mm T= 8 mm ϕ = 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 1, sveis 18	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 114 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-114	5-10	114	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 19/06-2021			Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U		
Place of Work / Kontrollsted Fiskå Vanylven			Operator signature / Inspektør signatur <i>[Signature]</i>			Page / Side 1 of / av 1		
Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl			Approved sign / Godkjent sign Geir Amund Indahl <i>[Signature]</i>			Cert no/ Sert nr 2679-N3-U		



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-12	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 17	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 453 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	-3	1477-1796	4-7	19	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	3986-4420	4-10	434	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-14	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 19	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 870 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	580-1450	0-10	870	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Spredte porer i forskjellige dybder mellom angitt posisjon.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>[Signature]</i>	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl <i>[Signature]</i>	Cert no / Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-15		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, sveis 20	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 258 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-126	7-10	126	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	4288-4420	5-10	132	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Spredte porer i forskjellige dybder mellom angitt posisjoner.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>Jørgen H. Johansen</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl <i>Geir Amund Indahl</i>	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-29		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B

Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset -- min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm

Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C			
Weld no / Sveis nr Seksjon 1, sveis 21	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 714 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	0	0-45	5-10	45	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	0	280-302	3-10	22	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	1304-1450	7-10	146	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	TOFD	3919-4420	5-10	501	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-16		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thick / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, sveis 22	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 640 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	570-1210	0-10	640	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Spredte porer i forskjellige dybder mellom angitt posisjon.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-20		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, sveis 26	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 563 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1257-1732	5-9	475	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	4332-4420	3-10	88	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Spredte porer i forskjellige dybder mellom angitt posisjoner.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-21	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex
<input type="checkbox"/> Super Duplex	<input type="checkbox"/> Titan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3	Skew 90 +5 dB	+6 dB
<input type="checkbox"/> M2M Gekko	Skew 270 +5 dB	
<input checked="" type="checkbox"/> Supplementary method TOFD		
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate	
<input checked="" type="checkbox"/> As welded / Sveist	<input checked="" type="checkbox"/> Grinded / Slipt
<input type="checkbox"/> Blasted / Sandblåst	<input type="checkbox"/> Painted / Malt
<input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 1, sveis 27	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 1515 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	293-1386	0-10	1093	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2723-2950	6-10	227	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3505-3700	5-10	195	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :
Spredte porer i forskjellige dybder mellom angitt posisjoner.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>[Signature]</i>	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl <i>[Signature]</i>	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-22	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thick / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 28	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 877 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	471-1348	4-10	877	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Spredte porer i forskjellige dybder mellom angitt posisjon.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-23					
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 1			
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%					
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018					
			Testing Level / Test Nivå EXC 3					
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thick / Tykkelse 10mm	Inspection cat / Insp kat B				
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 1, sveis 29	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 607 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej				
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-184	5-9	184	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	510-911	5-10	401	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	1438-1460	5-8	22	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments / Kommentarer : Spredte porer i forskjellige dybder mellom angitt posisjoner.								
Date of test / Test dato 19/06-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur <i>[Signature]</i>			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL			Approved sign / Godkjent sign Geir Amund Indahl <i>[Signature]</i>			Cert no/ Sert nr 2679-N3-U		



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-24	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate	
<input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 1, sveis 30	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 825 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	35-168	6-10	133	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	415-980	6-10	565	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	1450-1577	5-10	127	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :
Spredte porer i forskjellige dybder mellom angitt posisjoner.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-26		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B

Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm

Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C			
Weld no / Sveis nr Seksjon 1, sveis 32	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 1043 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	443-1238	0-10	795	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1395-1405	5-8	10	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	2582-2820	5-10	238	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Spredte porer i forskjellige dybder mellom angitt posisjoner.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-27	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 33	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 1255 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-300	5-9	300	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	555-1510	6-10	955	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Spredte porer i forskjellige dybder mellom angitt posisjoner.

Date of test / Test dato 19/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent signatur Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-30	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thick / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm I= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 34	Length Tested / Testlengde 2850 mm	Defect Length / Feillengde 433 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	60-138	6-10	78	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2375-2730	5-10	355	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Områder rundt løfteører er ikke scannet. Mangler 2 områder på til sammen ca 1570mm.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-47	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Svcist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 35	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 2995 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+6	0-262	7-10	262	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+5	388-1184	7-10	769	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+7	1508-1950	7-10	442	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+6	2900-4420	7-10	1520	Bindefeil	<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Bindefeiler spredt i angitte lengder ovenfor.

Date of test / Test dato 24/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur <i>[Signature]</i>	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign <i>[Signature]</i> Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-31	
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
			Testing Level / Test Nivå EXC 3	
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm ϕ= 2,5 mm T= 8 mm ϕ= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 1, sveis 36	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 23 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	0	1194-1217	2-5	23	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-32	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 37	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 110 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+2	1295-1325	3-6	30	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1540-1620	6-10	80	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDHAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-33		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B

Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm

Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C			
Weld no / Sveis nr Seksjon 1, sveis 38	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 136 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1490-1626	6-9	136	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-34	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 39	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 585 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	295-880	3-10	3-10	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Dårlig TOFD signal pga sliping i grunnmaterialet med slipeskive. Gjelder område 2950-4420mm.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND IND AHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-35	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm ϕ = 2,5 mm T= 8 mm ϕ = 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 40	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 700 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	2250-2950	7-9	700	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND IND AHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-36	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 41	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 255 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	580-800	5-9	220	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2665-2700	7-10	35	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Dårlig signal på TOFD pga sliping i grunnmaterialet med slipeskive. Gjelder område 2800-2950mm.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent signatur Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-40	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 45	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 25 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	3014-3039	5-9	25	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Dårlig signal på TOFD pga sliping i grunnmaterialet med slipeskive. Gjelder område 4000-4420mm.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-41	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 46	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 1953 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+3	0-1070	0-10	1070	Bindefeil / porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2970-3112	6-10	142	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3487-4228	6-10	741	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-42	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 47	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 415 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	530-945	4-10	415	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-44	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis 49	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 840 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+9	260-1100	0-10	840	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Dårlig TOFD signal pga sliping i grunnmaterialet med slipeskive. Gjelder område 1100-1900mm.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDHAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-48	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 2
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 1, sveis B	Length Tested / Testlengde 18 240 mm	Defect Length / Feillengde 3514mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Resultat er samlet på side 2.
 Dårlig TOFD signal pga sliping i grunnmateriale med slipeskive. Gjelder område 7320-7940mm & 12186-12247mm.
 Mangler områder rundt 2stk løfteører.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 2
Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	48-120	0-10	72	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	-3	219-227	3-5	8	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+2	325-347	22	5-10	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+6	743-2614	6-10	1871	Spredte bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	+3	3050-3434	0-10	536	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	N/A	+2	4346-4357	6-10	11	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	N/A	-1	5613-5620	5-8	7	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	N/A	TOFD	7056-7270	5-10	214	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	N/A	TOFD	8712-8872	5-10	160	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	N/A	-3	10888-10905	6-10	17	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	N/A	TOFD	12622-12642	8-10	20	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	N/A	TOFD	13031-13049	5-10	18	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	N/A	TOFD	14742-14856	5-9	114	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	N/A	-3	16087-16103	5-8	16	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	N/A	TOFD	16322-16872	4-8	550	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	N/A	TOFD	17180-17371	4-8	191	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17	N/A	TOFD	18766-18989	4-8	223	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>





Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-45	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 2
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 1, sveis C	Length Tested / Testlengde 18 240 mm	Defect Length / Feillengde 4162 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :
 Resultat er samlet på side 2.
 Dårlig TOFD signal pga sliping i grunnmateriale med slipeskive. Gjelder område 1000-3500mm, 9680-9800mm, 10944-11176mm & 12570-13110mm.
 Mangler områder rundt 2stk løfteører.

Date of test / Test dato 22/06-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 2
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Approved date, name / Godkj dato, navn 08.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	0	0-165	5-10	165	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	957-965	5-8	8	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	1739-1781	5-8	42	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	TOFD	3873-4230	0-10	357	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	TOFD	5640-5843	5-10	203	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	N/A	TOFD	6818-7022	5-9	204	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	N/A	TOFD	7470-7675	3-8	205	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	N/A	TOFD	8057-8210	3-10	153	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	N/A	TOFD	8374-8622	3-10	248	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	N/A	TOFD	9907-10248	3-10	341	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	N/A	TOFD	12767-13019	8-10	252	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	N/A	+6	13850-15834	7-10	1984	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>





VERTIKALSERVICE

Ultrasonic testing
Ultralødprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR Order 124	DATE OF TESTING / KONTROLLDATO 2021-09-21	REPORT NO. / RAPPORT NR. 6217-21-UT-10	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. ---NA---	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
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OBJECT / KONTROLL AV Project: Frønesbrua Seksjon 1/bunn. Kontroll etter reperasjon.

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 8 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
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UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGSDATO 2020-10-15	CALIBR. / KALIBR. Ø 1,5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE As welded
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Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 /77364	4	70	43	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER Alle mål/lengder i mm.

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
bunnsveis, 01		01	60/70		785	1662	877			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
bunnsveis, 01		02	60/70		1950	1970	20			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
bunnsveis, 01		03	60/70		2790	3600	238			<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE



Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR Order 124			DATE OF TESTING / KONTROLLDATO 2021-09-21			REPORT NO. / RAPPORT NR. 6217-21-UT-10			PAGE / SIDE 2 of/av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
bunnsveis, 02		01	60/70		2014	2043	29			✓		
bunnsveis, 02		02	60/70		2440	2520	80m			✓		
bunnsveis, 02		03	60/70		2460	2484	24			✓		
bunnsveis, 02		04	60/70		5000	5240	240			✓		
bunnsveis, 03		01	60/70		0	1000	1000			✓		
bunnsveis, 03		02	60/70		1315	3040	1725			✓		
bunnsveis, 03		03	60/70		3493	3530	37			✓		
bunnsveis, 03		04	60/70		3995	5245	1250			✓		
bunnsveis, 04		01	60/70		40	250	210			✓		
bunnsveis, 05		01	60/70		1129	1310	181			✓		
bunnsveis, 05		02	60/70		1848	3320	1472			✓		
bunnsveis, 05		03	60/70		3771	4028	257			✓		
bunnsveis, 06		01	60/70		550	1579	1029			✓		
bunnsveis, 06		02	60/70		3370	4481	1111			✓		
bunnsveis, 06		03	60/70		4783	5068	285			✓		
bunnsveis, 07		01	60/70		4457	4975	518			✓		
bunnsveis, 08		01	60/70		130	185	55			✓		
bunnsveis, 08		02	60/70		2635	3328	693			✓		
bunnsveis, 08		03	60/70		3500	3855	355			✓		
bunnsveis, 08		04	60/70		4384	5024	640			✓		
bunnsveis, 10		01	60/70		1296	1393	97			✓		
bunnsveis, 10		02	60/70		4217	4379	162			✓		
bunnsveis, 11		01	60/70		785	1662	877			✓		
bunnsveis, 11		02	60/70		1950	1970	20			✓		
bunnsveis, 11		03	60/70		2790	3600	238			✓		

TYPE OF DEFECT / FEILTYPE
100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsvising 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ
 OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-23 Approved / Godkjent 	OPERATOR / OPERATØR DATO:2021-09-23 



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR Order 124	DATE OF TESTING / KONTROLLDATO 2021-09-23	REPORT NO. / RAPPORT NR. 6217-21-UT-14-REV3	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. --NA--	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
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OBJECT / KONTROLL AV
Project: Fronesbrua
Kontroll etter reoperasjon.
Ultral lyd kontroll ov sveis & HAZ på "Seksjon 1 /Topp"

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
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UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGSDATO 2020-10-15	CALIBR. / KALIBR. Ø 1.5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE som sveist
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Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 /77364	4	70	43	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
Alle mål/lengder i mm.

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
01/Topp		01	60/70		2063	2138	75			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
01/Topp		02	60/70		2800	2812	12			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
01/Topp		03	60/70		3404	3415	11			<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE



Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR Order 124			DATE OF TESTING / KONTROLLDATO 2021-09-23			REPORT NO. / RAPPORT NR. 6217-21-UT-14-REV3			PAGE / SIDE 2 of/av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
02/Topp		01	60/70		0	80	80			✓		
02/Topp		02	60/70		1531	1671	140			✓		
02/Topp		03	60/70		1883	1907	24			✓		
02/Topp		04	60/70		2437	2450	13			✓		
03/Topp		01	60/70		92	108	16			✓		
03/Topp		02	60/70		1603	1624	21			✓		
03/Topp		03	60/70		1670	1689	19			✓		
03/Topp		04	60/70		2636	2649	13			✓		
03/Topp		05	60/70		3622	2632	10			✓		
04/Topp		01	60/70		1837	1859	22			✓		
04/Topp		02	60/70		2105	2644	539			✓		
04/Topp		03	60/70		3101	3115	14			✓		
04/Topp		04	60/70		4160	4420	260			✓		
05/Topp		01	60/70		810	828	18			✓		
05/Topp		02	60/70		3997	4004	7			✓		
06/Topp		01	60/70		1072	1092	20			✓		
06/Topp		02	60/70		1543	1587	44			✓		
06/Topp		03	60/70		1618	1630	12			✓		
06/Topp		04	60/70		1668	1674	6			✓		
06/Topp		05	60/70		3285	3294	9			✓		
06/Topp		06	60/70		3642	3660	18			✓		
06/Topp		07	60/70		4003	4019	16			✓		
06/Topp		08	60/70		4314	4320	6			✓		
06/Topp		09	60/70		4348	4386	38			✓		
07/Topp		01	60/70		22	32	10			✓		
07/Topp		02	60/70		26	44	8			✓		
07/Topp		03	60/70		504	525	21			✓		
07/Topp		04	60/70		625	655	30			✓		
07/Topp		05	60/70		820	840	20			✓		
07/Topp		06	60/70		1856	1876	20			✓		
07/Topp		07	60/70		2117	2124	7			✓		
07/Topp		08	60/70		2564	2571	7			✓		
07/Topp		09	60/70		3002	3028	26			✓		
07/Topp		10	60/70		3053	3064	11			✓		
07/Topp		11	60/70		3767	3851	84			✓		
07/Topp		12	60/70		4367	4384	17			✓		
08/Topp		01	60/70		573	581	8			✓		
08/Topp		02	60/70		840	854	14			✓		
08/Topp		03	60/70		1537	1730	193			✓		
08/Topp		04	60/70		1788	1809	21			✓		

TYPE OF DEFECT / FEILTYPE
100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsvising 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ
 OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-24 Approved / Godkjent 	OPERATOR / OPERATØR DATO:2021-09-24 



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODEX AS	CLIENT O.NO / KUNDE O.NR Order 124	DATE OF TESTING / KONTROLLDATO 2021-09-23	REPORT NO. / RAPPORT NR. 6217-21-UT-15-REV1	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. --NA--	PLACE OF WORK / KONTROLLSTED PRODEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
--------------------------------------------	------------------------------------------------------------	--------------------------------------------------	----------------------------------

OBJECT / KONTROLL AV
**Project: Frønesbrua
Ultral lyd kontroll av sveis & HAZ på "Seksjon 1 /Topp"
Kontroll etter reperatur.**

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
----------------------------------------------	-----------------------------------------------------	----------------------------------------------------------	--------------------------------------	----------------------------------------------------------------	------------------------------------------

UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGSDATO 2020-10-15	CALIBR. / KALIBR. Ø 1.5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE som sveist
---------------------------------------------------------------------------	---------------------------------------------------------	-----------------------------------------	----------------------------------------------	---------------------------------------------

Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 /77364	4	70	43	+4	0-100	

Ø mm DGS SCREEN TYPE / Ø mm
AVG SKJERM TYPE
--

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
Alle mål/lengder i mm.

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
08/Topp		05	60/70		2173	2180	7			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
08/Topp		06	60/70		2976	2995	19			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
08/Topp		07	60/70		3542	3588	46			<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE



Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR Order 124			DATE OF TESTING / KONTROLLDATO 2021-09-23			REPORT NO. / RAPPORT NR. 6217-21-UT-15-REV1			PAGE / SIDE 2 of/av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
08/Topp		08	60/70		4102	4285	183			✓		
08/Topp		09	60/70		4365	4380	15			✓		
08/Topp		10	60/70		4390	4420	30			✓		
09/Topp		01	60/70		14	20	6			✓		
09/Topp		02	60/70		1537	1545	8			✓		
09/Topp		03	60/70		1610	1620	10			✓		
09/Topp		04	60/70		1680	1692	12			✓		
09/Topp		05	60/70		1775	1786	11			✓		
09/Topp		06	60/70		2785	2799	14			✓		
09/Topp		07	60/70		2824	2841	17			✓		
09/Topp		08	60/70		2294	2083	87			✓		
09/Topp		09	60/70		3386	3420	34			✓		
09/Topp		10	60/70		3497	3800	303			✓		
09/Topp		11	60/70		4086	4420	334			✓		
10/Topp		01	60/70		740	1135	395			✓		
10/Topp		02	60/70		1945	3063	1268			✓		
11/Topp		01	60/70		1371	1398	27			✓		
11/Topp		02	60/70		2327	2950	623			✓		
11/Topp		03	60/70		4078	4420	242			✓		
12/Topp		01	60/70		838	2274	1436			✓		
12/Topp		02	60/70		2562	2698	136			✓		
12/Topp		03	60/70		2950	3000	50			✓		
12/Topp		04	60/70		3486	3585	99			✓		
12/Topp		05	60/70		4374	4420	46			✓		
13/Topp		01	60/70		0	4420	4420			✓		
14/Topp		01	60/70		110	330	220			✓		
14/Topp		02	60/70		970	980	10			✓		
14/Topp		03	60/70		1395	2189	794			✓		
14/Topp		04	60/70		2907	3157	250			✓		
14/Topp		05	60/70		3700	3714	14			✓		
14/Topp		06	60/70		4176	4192	16			✓		
15/Topp		01	60/70		633	670	37			✓		
15/Topp		02	60/70		1763	2179	416			✓		
15/Topp		03	60/70		3956	4420	464			✓		
16/Topp		01	60/70		4169	4420	260			✓		
17/Topp		01	60/70		1477	1796	19			✓		
17/Topp		02	60/70		3986	4420	434			✓		
18/Topp		01	60/70		0	114	114			✓		
19/Topp		01	60/70		580	1450	870			✓		
20/Topp		04	60/70		0	126	126			✓		

TYPE OF DEFECT / FEILTYPE
 100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsvising 401 = Bindefeil
 402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ
 OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-23 Approved / Godkjent 	OPERATOR / OPERATØR DATO:2021-09-23 



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR Order 124	DATE OF TESTING / KONTROLLDATO 2021-09-23	REPORT NO. / RAPPORT NR. 6217-21-UT-17	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. --NA--	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
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OBJECT / KONTROLL AV
**Project: Frønesbrua
Ultral lyd kontroll av sveis & HAZ på "Seksjon 1 /Topp"
Kontroll etter reoperasjon.**

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
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UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGS DATO 2020-10-15	CALIBR. / KALIBR. Ø 1.5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE som sveist
---------------------------------------------------------------------------	----------------------------------------------------------	-----------------------------------------	----------------------------------------------	---------------------------------------------

Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 /77364	4	70	43	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
Alle mål/lengder i mm.

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
20/Topp		02	60/70		4288	4420	126			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
21/Topp		01	60/70		0	45	45			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
21/Topp		02	60/70		280	302	22			<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE



Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR Order 124			DATE OF TESTING / KONTROLLDATO 2021-09-23			REPORT NO. / RAPPORT NR. 6217-21-UT-17			PAGE / SIDE 2 of/av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
21/Topp		03	60/70		1304	1450	146			✓		
21/Topp		04	60/70		3919	4420	501			✓		
22/Topp		01	60/70		570	1210	640			✓		
26/Topp		01	60/70		1257	1732	475			✓		
26/Topp		02	60/70		4332	4420	88			✓		
27/Topp		01	60/70		293	1386	1093			✓		
27/Topp		02	60/70		2723	2950	227			✓		
27/Topp		03	60/70		3505	3700	195			✓		
28/Topp		01	60/70		471	1348	877			✓		
29/Topp		01	60/70		0	184	184			✓		
29/Topp		02	60/70		510	911	401			✓		
29/Topp		03	60/70		1438	1460	22			✓		
30/Topp		01	60/70		35	168	133			✓		
30/Topp		02	60/70		415	980	565			✓		
30/Topp		03	60/70		1450	1577	127			✓		
32/Topp		01	60/70		443	1238	795			✓		
32/Topp		01	60/70		1395	1405	10			✓		
32/Topp		02	60/70		2582	2820	238			✓		
33/Topp		03	60/70		0	300	300			✓		
33/Topp		01	60/70		555	1510	955			✓		

TYPE OF DEFECT / FEILTYPE
100 = Sprekke 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsveing 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ
 OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-23 Approved / Godkjent 	OPERATØR / OPERATØR DATO:2021-09-23 



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR 124	DATE OF TESTING / KONTROLLDATO 2021-09-24	REPORT NO. / RAPPORT NR. 6217-21-UT-19-REV1	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. ---NA---	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
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OBJECT / KONTROLL AV
Project: Fronesbrua
Ultral lyd kontroll ov sveis & HAZ på "Seksjon 1/Topp" Sveis 0, A, D.

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
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UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGSDATO 2020-10-15	CALIBR. / KALIBR. Ø 1.5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE som sveist
------------------------------------------------------------------------	------------------------------------------------------	--------------------------------------	-------------------------------------------	------------------------------------------

Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 / 77364	4	70	43	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
Alle mål/lengder i mm.
Alle indikasjoner ble markert på sveiser.
Alle reperasjoner ble kontrollert 100%.

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
A		01	60	-6	0	150	150	6-10	400	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A		02	60	-3	2970	3130	160	7-10	400	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A		03	70	0	4500	4640	140	7-10	400	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE



Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR 124			DATE OF TESTING / KONTROLLDATO 2021-09-24			REPORT NO. / RAPPORT NR. 6217-21-UT-19-REV1			PAGE / SIDE 2 of/av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
A		04	70	-3	6607	6857	250	6-10	400	✓		
A		05	70	0	8220	8648	428	7-10	400	✓		
A		06	70	-2	10250	10850	600	6	300	✓		
A		07	70	0	16190	16530	340	7-10	400	✓		
B		01	70	-3	0	520	520	6-10	400	✓		
B		02	70	0	3130	3530	400	5	300	✓		
B		03	70	0	4320	4365	45	7-10	400	✓		
B		04	70	-6	4890	5130	240	7-10	400	✓		
0		--	60/70	--	--	--	--	--	--	✓		


TYPE OF DEFECT / FEILTYPE
100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsveing 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ
 OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-24 Approved / Godkjent 	OPERATOR / OPERATØR DATO:2021-09-24 



Visual Testing / Visuell Testing (VT)

Client / Kunde Prodtex industrier		Report no / Rapport nr VT- 1					
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua					
Section no / Seksjon nr Seksjon 1		Extent of Testing / Kontrollomfang 100% av oppgitte sveiser					
Procedure / Prosedyre SVV-R762-10.08		Acceptance standard / Akseptstandard NS-EN ISO 5817 Level C					
Material/ Material <input checked="" type="checkbox"/> Carbonsteel/Karbonstål <input type="checkbox"/> Other / Annet:	Equipment / Utstyr <input checked="" type="checkbox"/> Weldgauge/Sveiselære <input type="checkbox"/> Mirror/Speil <input checked="" type="checkbox"/> Flashlight/Lykt <input type="checkbox"/> Gapgauge/Åpningsmåler <input checked="" type="checkbox"/> Other/Annet						
Joint/ Fuge <input checked="" type="checkbox"/> BW / Buttsveis <input type="checkbox"/> FW / Kilsveis	Technique/ Teknikk <input checked="" type="checkbox"/> Direct visual testing/Direkte visuell inspeksjon <input type="checkbox"/> Remote visual testing/Indirekte visuell inspeksjon						
Light illuminance/ Lys styrke 1000> Lux	Welding process/ Sveisemetode Laser hybrid						
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Machined / Maskinert <input type="checkbox"/> Painted / Malt							
TEST RESULTS / TEST RESULTAT							
Weld no / Sveis nr	Position / Posisjon (mm)	Length Tested / Testlengde (mm) / (%)	Defect Length / Feillengde (mm)	Defect Type / Feiltype	Defect Name / Feilnavn	Acc	Rej
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer							
Godkjente toppsveiser: Sveisnr 1 til 49 på tvers. Sveisnr B & C på langs.							
Godkjente Bunnsvseiser: Sveisnr 2 til 11.							
Date / Dato 09/08-2021	Operator name / Inspektør navn Jørgen H. Johansen Vegar Mosling			Certificate no / Sertifikat nr 12719-N2-V 12076-N2-V			
Place of Work / Kontrollsted Prodtex Vanylven	Operator signature / Inspektør signatur 			Page / Side 1 of/ av 1			



Magnetic Particle Testing / Magnetpulver Testing (MT)

Client / Kunde Prodtex industrier AS	Report no / Rapport nr MT- 2	
Client order no / Kunde ordre nr 2116000	Project / Prosjekt Frønesbrua	
Section no / Seksjon nr Seksjon 2	Extent of Testing / Kontrollomfang 100% av oppgitte sveiser	
Procedure / Prosedyre SVV-R762-10.06	Acceptance standard / Akseptstandard NS-EN ISO 23278	
Equipment / Utstyr <input checked="" type="checkbox"/> Tiede Yoke AC <input type="checkbox"/> Other / Annet	Magnetic Particle Type/ Magnetpulver Type <input checked="" type="checkbox"/> Magnavis WB-27 <input type="checkbox"/> Bycotest 103 <input type="checkbox"/> PFinder 251 <input type="checkbox"/> Tiede 690.1 <input type="checkbox"/> Other/ Annet	
Contrast Paint / Kontrastmaling <input type="checkbox"/> Spectracolor 971 <input checked="" type="checkbox"/> MR Chemie 72 <input type="checkbox"/> Bycotest 104A	Technique/ Teknikk <input type="checkbox"/> Dry Powder / Tørrpulver <input checked="" type="checkbox"/> Wet Powder / Våtpulver <input type="checkbox"/> Fluorecent / Fluoriserende	
Material / thickness / Materiale/ tykkelse : 10mm	Welding process/ Sveisemetode Laser hybrid	Joint / Fuge <input checked="" type="checkbox"/> BW / Buttsveis <input type="checkbox"/> FW / Kilsveis
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temp. / Overflate temperatur = 20°C		

TEST RESULTS / TEST RESULTAT

Weld no / Sveis nr	Position / Posisjon (mm)	Length Tested / Testlengde (mm) / (%)	Defect Length / Feillengde (mm)	Defect Type / Feiltype	Defect Name / Feilnavn	Acc	Rej
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer

Godkjente toppsveiser (tvers) :

1,6,18,31,33,36,38,41,46.

Opplistede sveiser er godkjent i hele sin lengde (4420mm pr stk).

Til sammen 39 780mm.

Date / Dato 09/08-2021	Operator name / Inspektør navn Jørgen H. Johansen	Certificate no / Sertifikat nr 12719-N2-M
Place of Work / Kontrollsted Prodtex Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of/ av 1



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-61	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
------------------------------------------	--------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 1	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-66	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate	
<input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	

Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 6	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
-------------------------------------------------------	---------------------------------------------	----------------------------

Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-76		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 18	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 0 mm		Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-89		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 31	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 0 mm		Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-91		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 33	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 0 mm		Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-93					
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 1			
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%					
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018					
			Testing Level / Test Nivå EXC 3					
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B				
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 36	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 06/07-2021			Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U		
Place of Work / Kontrollsted Fiskå Vanylven			Operator signature / Inspektør signatur 			Page / Side 1 of / av 1		
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL			Approved sign / Godkjent sign Geir Amund Indahl 			Cert no/ Sert nr 2679-N3-U		



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-95						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm					
Inspection cat / Insp kat B								
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB					
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 38	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 06/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur <i>[Signature]</i>			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL		Approved sign / Godkjent sign Geir Amund Indahl			Cert no/ Sert nr 2679-N3-U			



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-98						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm					
Inspection cat / Insp kat B								
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB					
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 41	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 06/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl		Approved sign / Godkjent sign Geir Amund Indahl			Cert no/ Sert nr 2679-N3-U			



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-103						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
Welders / Sveisere N/A		Groove / Fugetype I-fuge	Diameter N/A					
		Thickn / Tykkelse 10mm	Inspection cat / Insp kat B					
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB					
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 46	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 0 mm	Accept / Akseptert <input checked="" type="checkbox"/> Acc <input type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 06/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL			Approved sign / Godkjent sign Geir Amund Indahl			Cert no/ Sert nr 2679-N3-U		



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-62	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 2	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 1135 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+4	2851-2992	0-6	141	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	3334-4328	5-10	994	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1

Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-63	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate	
<input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 2, sveis 3	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 306 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1434-1491	0-5	57	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1623-1872	5-9	249	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1

Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND IND AHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-64	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 4	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 209 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+2	122-331	5-10	209	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dat6, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS			Report no / Rapport nr PAUT-65		
Client order no / Kunde ordre nr 2116000			Project / Prosjekt Frønesbrua		Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A			Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E			Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
			Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B	
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>					
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB	
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm	
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C					
Weld no / Sveis nr Seksjon 2, sveis 5	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 901 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	443-800	5-10	357	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+9	3160-3704	6-10	544	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj. dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-67	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 7	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 650 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-152	6-10	152	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	406-892	5-10	498	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1

Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-68		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 8	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 1024 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	260-845	3-10	585	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+1	1299-1346	3-6	47	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+6	1398-1513	5-10	115	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+5	2332-2440	6-10	108	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	+1	2915-3084	4-10	169	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-69			
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1		
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%			
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018			
Welders / Sveisere N/A		Groove / Fugetype I-fuge	Diameter N/A	Thick / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>					
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB	
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm	
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C					
Weld no / Sveis nr Seksjon 2, sveis 9		Length Tested / Testlengde 4420mm		Defect Length / Feillengde 1993 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	518-870	5-10	352	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2342-2450	4-8	108	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	2887-4420	4-10	1533	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Feil nr3 har 3stk bindefeil spredt innen område 2887-4420mm (+6dB), samt spredte porer hele lengden.

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-70		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 10	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 1159 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	+7	1400-1610	5-8	210	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2947-3896	3-10	949	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Bindefeil 1437-1470mm.
Porer 1515-1610mm.

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDRAAL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-106			
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1		
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%			
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018			
Welders / Sveisere N/A		Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>					
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB	
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm	
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C					
Weld no / Sveis nr Seksjon 2, sveis 11		Length Tested / Testlengde 4420mm		Defect Length / Feillengde 93 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	2913-3006	4-8	93	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2								
3								

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-71		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 12	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 266 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	0	1500-1547	3-8	47	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	+8	2942-2982	5-10	40	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3285-3464	3-10	179	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-73		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 13	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 350 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-227	5-10	227	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1447-1468	3-7	21	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	2978-3080	5-9	102	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-72		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 14	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 497 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	360-830	5-10	470	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1441-1468	3-7	27	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-74	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 15	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 1024 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD / +6	289-970	2-10	681	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1426-1612	2-10	186	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	2991-3148	6-10	157	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDHAHL	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-75		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 17	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 822 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	2142-2281	3-7	139	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2266-2949	4-10	683	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-77						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm					
Inspection cat / Insp kat B								
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB					
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 19	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 212 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1497-1560	5-10	63	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2501-2571	5-10	70	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	4237-4316	5-10	71	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 05/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL		Approved sign / Godkjent sign Geir Amund Indahl 			Cert no/ Sert nr 2679-N3-U			



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-78	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 20	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 219 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	2727-2946	6-10	219	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2							<input type="checkbox"/>	<input type="checkbox"/>
3							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-79	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slípt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 21	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 539 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	447-940	0-10	493	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1521-1567	5-10	46	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 09.08.21 GER AMUND INDHAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-80			
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1		
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%			
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018			
Welders / Sveisere N/A		Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>					
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB	
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm	
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C					
Weld no / Sveis nr Seksjon 2, sveis 22		Length Tested / Testlengde 4420mm		Defect Length / Feillengde 1156 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1445-2601	0-10	1156	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2							<input type="checkbox"/>	<input type="checkbox"/>
3							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-81	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 23	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 1522 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	165-1006	0-10	841	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1577-1774	5-10	197	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	2665-3149	5-10	484	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-82	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate			
<input checked="" type="checkbox"/> As welded / Sveist	<input checked="" type="checkbox"/> Grinded / Slipt	<input type="checkbox"/> Blasted / Sandblåst	<input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert
Surface temperature / Overflate temperatur: 15°C			

Weld no / Sveis nr Seksjon 2, sveis 24	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 2073 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	0-605	3-10	605	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2952-4420	4-10	1468	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
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Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
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Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHE	Approved sign / Godkjent sign Geir Amund Indahl	Cert no / Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-83			
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1		
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%			
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018			
Welders / Sveisere N/A		Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>					
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB	
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm	
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C					
Weld no / Sveis nr Seksjon 2, sveis 25		Length Tested / Testlengde 4420mm		Defect Length / Feillengde 646 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	478-950	4-10	472	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1388-1614	5-10	226	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3166-3414	6-10	248	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-84						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm					
Inspection cat / Insp kat B								
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB					
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 26	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 2036 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	437-847	5-10	410	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1276-2226	5-10	950	Poror / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3090-3766	5-10	676	Poror / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 05/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDHAHL		Approved sign / Godkjent sign Geir Amund Indahl 			Cert no/ Sert nr 2679-N3-U			



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-85		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 27	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 707 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	400-1061	4-10	661	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1507-1514	5-8	7	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	+1	1958-1971	4-7	13	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	0	2759-2775	4-8	16	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	N/A	0	4410-4420	3-6	10	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-86	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 2, sveis 28	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 1130 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	448-795	6-10	347	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	978-1135	5-10	157	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	3211-381	4-10	600	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	N/A	+4	4214-4240	6-10	26	Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5								

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-87		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 29	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 819 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	355-989	4-10	634	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1531-1716	3-8	185	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3								

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-88	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 30	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 179 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	513-657	5-10	144	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2900-2935	6-9	35	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3								

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDHAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-90		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 32	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 408 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD / +6	2798-3071	6-10	273	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	3615-3750	3-9	135	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3								

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-92			
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1		
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%			
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018			
Welders / Sveisere N/A		Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>					
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB	
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm	
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C					
Weld no / Sveis nr Seksjon 2, sveis 35	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 340 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej	

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1424-1463	5-8	39	Porer/Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2986-3287	6-10	301	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 06/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-94	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet				
<input checked="" type="checkbox"/> Carbon Steel	<input type="checkbox"/> Carbon Steel (TMCP)	<input type="checkbox"/> 316L	<input type="checkbox"/> 6MO	<input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>

Equipment / Utstyr	Transfer correction/Overflate komp	Sens. Level / Forsterkning
<input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko	Skew 90 +5 dB	+6 dB
<input checked="" type="checkbox"/> Supplementary method TOFD	Skew 270 +5 dB	
Serial number/Serienummer: QC-0074079		

Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle	Reference block / Kalibreringsblokk
		<input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70°	T= 10 mm Ø= 2,5 mm
		<input checked="" type="checkbox"/> Linear Group 2: 63-72°	T= 8 mm Ø= 2,5 mm
		<input type="checkbox"/> Compound Group 3: 50-72°	

Surface / Overflate	
<input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert	
Surface temperature / Overflate temperatur: 15°C	

Weld no / Sveis nr Seksjon 2, sveis 37	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 84 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	2863-2947	5-9	84	Porer/Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 06/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-96						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm					
Inspection cat / Insp kat B								
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB					
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 39	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 443 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	403-846	3-10	443	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 06/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL		Approved sign / Godkjent sign Geir Amund Indahl 			Cert no/ Sert nr 2679-N3-U			



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-97						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
Welders / Sveisere N/A		Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B			
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB				
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk. T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm				
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 40	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 142 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	2979-3121	5-10	142	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 06/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen		Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U				
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 		Page / Side 1 of / av 1				
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDHAHL		Approved sign / Godkjent sign Geir Amund Indahl 		Cert no/ Sert nr 2679-N3-U				



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-99		
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1	
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%		
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018		
		Testing Level / Test Nivå EXC 3		
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>				
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB		Sens. Level / Forsterkning +6 dB
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°		Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C				
Weld no / Sveis nr Seksjon 2, sveis 42	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 319 mm		Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej

TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1495-1557	5-9	62	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	1891-1944	5-9	53	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	N/A	TOFD	2852-3056	5-9	204	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GETR Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-100	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 43	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 336 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1148-1484	3-10	336	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2								
3								

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDHAHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-101	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 44	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 642 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	3107-3749	6-10	642	Porer / Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2								
3								

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDHAHL	Approved sign / Godkjent signatur Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-102	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 45	Length Tested / Testlengde 4420mm	Defect Length / Feillengde 249 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	1504-1753	5-10	249	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2								
3								

Comments / Kommentarer :

Date of test / Test dato 05/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1
Approved date, name / Godkj dato, navn 09.08.21 Geir Amund Indahl	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no / Sert nr 2679-N3-U



Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-104	
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%	
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018	
		Testing Level / Test Nivå EXC 3	

Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm	Inspection cat / Insp kat B
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Material Quality / Material kvalitet
 Carbon Steel Carbon Steel (TMCP) 316L 6MO Duplex Super Duplex Titan

Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079	Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB
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Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm
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Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Painted / Malt Machined / Maskinert
 Surface temperature / Overflate temperatur: **15°C**

Weld no / Sveis nr Seksjon 2, sveis 47	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 572 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej
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TEST RESULTS / TEST RESULTAT

No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	482-795	3-10	313	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2707-2966	5-10	301	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer :

Date of test / Test dato 06/07-2021	Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen	Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U
Place of Work / Kontrollsted Fiskå Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1

Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND IND AHL	Approved sign / Godkjent sign Geir Amund Indahl 	Cert no/ Sert nr 2679-N3-U
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Phased Array Testing (PAUT)

Client / Kunde Prodtex industrier AS		Report no / Rapport nr PAUT-105						
Client order no / Kunde ordre nr 2116000		Project / Prosjekt Frønesbrua	Page / Side 1 of / av 1					
Drawing no / Tegnings nr N/A		Extent of Testing / Kontrollomfang 100%						
Procedure / Prosedyre SVV-FRØN-10.25E		Acceptance standard / Akseptstandard PAUT : ISO 19285-2017 / TOFD : ISO 15626-2018						
		Testing Level / Test Nivå EXC 3						
Welders / Sveisere N/A	Groove / Fugetype I-fuge	Diameter N/A	Thickn / Tykkelse 10mm					
Inspection cat / Insp kat B								
Material Quality / Material kvalitet <input checked="" type="checkbox"/> Carbon Steel <input type="checkbox"/> Carbon Steel (TMCP) <input type="checkbox"/> 316L <input type="checkbox"/> 6MO <input type="checkbox"/> Duplex <input type="checkbox"/> Super Duplex <input type="checkbox"/> Titan <input type="checkbox"/>								
Equipment / Utstyr <input checked="" type="checkbox"/> Omniscan MX2/X3 <input type="checkbox"/> M2M Gekko <input checked="" type="checkbox"/> Supplementary method TOFD Serial number/Serienummer: QC-0074079		Transfer correction/Overflate komp Skew 90 +5 dB Skew 270 +5 dB	Sens. Level / Forsterkning +6 dB					
Couplant / Koplingsmedium Vann	Frequency / Frekvens 4 MHz	Beamset – min / max angle <input checked="" type="checkbox"/> Sectorial Group 1: Vpa 1-33 70° <input checked="" type="checkbox"/> Linear Group 2: 63-72° <input type="checkbox"/> Compound Group 3: 50-72°	Reference block / Kalibreringsblokk T= 10 mm Ø= 2,5 mm T= 8 mm Ø= 2,5 mm					
Surface / Overflate <input checked="" type="checkbox"/> As welded / Sveist <input checked="" type="checkbox"/> Grinded / Slipt <input type="checkbox"/> Blasted / Sandblåst <input type="checkbox"/> Painted / Malt <input type="checkbox"/> Machined / Maskinert Surface temperature / Overflate temperatur: 15°C								
Weld no / Sveis nr Seksjon 2, sveis 48	Length Tested / Testlengde 4420 mm	Defect Length / Feillengde 491 mm	Accept / Akseptert <input type="checkbox"/> Acc <input checked="" type="checkbox"/> Rej					
TEST RESULTS / TEST RESULTAT								
No / Nr	Probe angel / Lydvinkel	Echo height / Feilnivå (dB)	Position / Posisjon (mm)	Depth / Dybde (mm)	Length / Lengde (mm)	Defect description / Feilbeskrivelse	Acc	Rej
1	N/A	TOFD	532-757	5-10	225	Spredte porer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	N/A	TOFD	2983-3249	5-10	266	Poror/Bindefeil	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
Comments / Kommentarer :								
Date of test / Test dato 06/07-2021		Operator name / Inspektør navn Vegar Mosling Jørgen H. Johansen			Certificate no / Sertifikat nr 12076-N3-U 12719-N2-U			
Place of Work / Kontrollsted Fiskå Vanylven		Operator signature / Inspektør signatur 			Page / Side 1 of / av 1			
Approved date, name / Godkj dato, navn 09.08.21 GEIR AMUND INDÅHL		Approved sign / Godkjent sign Geir Amund Indahl 			Cert no / Sert nr 2679-N3-U			



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR Order 124	DATE OF TESTING / KONTROLLDATO 2021-09-21	REPORT NO. / RAPPORT NR. 6217-21-UT-11	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. ---NA---	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
----------------------------------------------	-------------------------------------------------------------	--------------------------------------------------	----------------------------------

OBJECT / KONTROLL AV
Project: Frønesbrua
Ultral lyd kontroll ov sveis & HAZ på Seksjon 2/bunn.
sveis no. 01-11
Totalt lengde på hver sveis 5492mm.

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 8 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
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UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGSDATO 2020-10-15	CALIBR. / KALIBR. Ø 1,5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE As welded
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Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 / 77364	4	70	48	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
Alle indikasjoner ble merket på objekt/sveiser.
Alle reparasjoner ble kontrollert på nytt 100%.
Alle mål/lengder i mm.

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
bunnsveis,01	02.08.2021	01	60/70	-2db	3150	3558	408	5-8	400	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
bunnsveis,01	02.08.2021	02	60/70	-6db	4447	4886	439	3-8	300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
bunnsveis,02	02.08.2021	01	60/70	-2db	0	590	590	2-6	300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE



Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR Order 124			DATE OF TESTING / KONTROLLDATO 2021-09-21			REPORT NO. / RAPPORT NR. 6217-21-UT-11			PAGE / SIDE 2 of/av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
bunnsveis,04	02.08.2021	01	60/70	-4db	4440	5445	1005	3-8	400	✓		
bunnsveis,05	02.08.2021	01	60/70	-4db	5300	5460	160	5-8	400	✓		
bunnsveis,07	02.08.2021	01	60/70	-4db	884	1384	500	6-8	400	✓		
bunnsveis,08	02.08.2021	01	60/70	-06db	0	439	439	6-8	400	✓		
bunnsveis,08	02.08.2021	02	60/70	-3db	4010	4300	290	6-8	400	✓		

TYPE OF DEFECT / FEILTYPE
100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomveising 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ
 OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-23 Approved / Godkjent 	OPERATOR / OPERATØR DATO:2021-09-23 



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR Order 124	DATE OF TESTING / KONTROLLDATO 2021-09-22	REPORT NO. / RAPPORT NR. 6217-21-UT-12	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. ---NA---	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
----------------------------------------------	-------------------------------------------------------------	--------------------------------------------------	----------------------------------

OBJECT / KONTROLL AV
Project: Frønesbrua
Ultral lyd kontroll av sveis & HAZ på "Seksjon 2 /Topp"
Kontroll etter reperatur.

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
----------------------------------------------	-----------------------------------------------------	----------------------------------------------------------	--------------------------------------	----------------------------------------------------------------	------------------------------------------

UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGS DATO 2020-10-15	CALIBR. / KALIBR. Ø 1,5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE som sveist
---------------------------------------------------------------------------	----------------------------------------------------------	-----------------------------------------	----------------------------------------------	---------------------------------------------

Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 /77364	4	70	43	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
Alle mål/lengder i mm.

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
02/Topp		01	60/70		2851	2992	141			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
02/Topp		02	60/70		3334	4328	994			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
03/Topp		01	60/70		1434	1491	57			<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE



Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR Order 124			DATE OF TESTING / KONTROLLDATO 2021-09-22			REPORT NO. / RAPPORT NR. 6217-21-UT-12			PAGE / SIDE 2 of/av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
03/Topp		02	60/70		1623	1872	249			✓		
04/Topp		01	60/70		122	331	209			✓		
05/Topp		01	60/70		443	800	357			✓		
05/Topp		02	60/70		3160	3704	544			✓		
07/Topp		01	60/70		0	152	152			✓		
07/Topp		02	60/70		406	892	498			✓		
08/Topp		01	60/70		260	845	585			✓		
08/Topp		02	60/70		1299	1346	47			✓		
08/Topp		03	60/70		1398	1513	115			✓		
08/Topp		03	60/70		2332	2440	108			✓		
08/Topp		05	60/70		2915	3084	169			✓		
09/Topp		01	60/70		518	870	352			✓		
09/Topp		02	60/70		2342	2450	108			✓		
09/Topp		03	60/70		2887	4420	1533			✓		
10/Topp		01	60/70		1400	1610	210			✓		
10/Topp		02	60/70		2947	3896	949			✓		
11/Topp		01	60/70		2913	3006	93			✓		
12/Topp		01	60/70		1500	1547	47			✓		
12/Topp		02	60/70		2942	2982	40			✓		
12/Topp		03	60/70		3285	3464	179			✓		
13/Topp		01	60/70		0	227	227			✓		
13/Topp		02	60/70		1447	1468	21			✓		
13/Topp		03	60/70		2978	3080	102			✓		
14/Topp		01	60/70		360	830	470			✓		
14/Topp		02	60/70		1441	1468	27			✓		
15/Topp		01	60/70		289	970	681			✓		
15/Topp		02	60/70		1426	1612	186			✓		
15/Topp		03	60/70		2991	3148	157			✓		
17/Topp		01	60/70		2142	2281	139			✓		
17/Topp		02	60/70		2266	2949	683			✓		
19/Topp		01	60/70		1497	1560	63			✓		
19/Topp		02	60/70		2501	2571	70			✓		
19/Topp		03	60/70		4237	4316	71			✓		
20/Topp		01	60/70		2727	2946	219			✓		
21/Topp		01	60/70		447	940	493			✓		
21/Topp		02	60/70		1521	1567	46			✓		
22/Topp		01	60/70		1445	2601	1156			✓		
23/Topp		01	60/70		165	1006	841			✓		
23/Topp		02	60/70		1577	1774	197			✓		
23/Topp		03	60/70		2665	3149	484			✓		

TYPE OF DEFECT / FEILTYPE
100 = Sprekke 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsvising 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ
 OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-23 Approved / Godkjent 	OPERATOR / OPERATØR DATO:2021-09-23 



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR Order 124	DATE OF TESTING / KONTROLLDATO 2021-09-22	REPORT NO. / RAPPORT NR. 6217-21-UT-13-REV1	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. --NA--	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
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OBJECT / KONTROLL AV
**Project: Frønesbrua
Ultral lyd kontroll av sveis & HAZ på "Seksjon 2 /Topp"
Kontroll etter reperatur.**

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
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UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGS DATO 2020-10-15	CALIBR. / KALIBR. Ø 1.5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE som sveist
------------------------------------------------------------------------	-------------------------------------------------------	--------------------------------------	-------------------------------------------	------------------------------------------

Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 /77364	4	70	43	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
Alle mål/lengder i mm.

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO FEDEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
24/Topp		01	60/70		0	605	605			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
24/Topp		02	60/70		2952	4420	1468			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
25/Topp		01	60/70		478	950	472			<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR Order 124			DATE OF TESTING / KONTROLLDATO 2021-09-22			REPORT NO. / RAPPORT NR. 6217-21-UT-13-REV1			PAGE / SIDE 2 of av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
25/Topp		02	60/70		1388	1614	226			✓		
25/Topp		03	60/70		3166	3414	248			✓		
26/Topp		01	60/70		437	847	410			✓		
26/Topp		02	60/70		1276	2226	950			✓		
26/Topp		03	60/70		3090	3766	676			✓		
27/Topp		01	60/70		400	1061	661			✓		
27/Topp		02	60/70		1507	1514	7			✓		
27/Topp		03	60/70		1958	1971	13			✓		
27/Topp		04	60/70		2759	2775	16			✓		
27/Topp		05	60/70		4410	4420	10			✓		
28/Topp		01	60/70		448	795	347			✓		
28/Topp		02	60/70		978	1135	157			✓		
28/Topp		03	60/70		3211	3811	600			✓		
28/Topp		04	60/70		4214	4240	26			✓		
29/Topp		01	60/70		355	989	634			✓		
29/Topp		02	60/70		1531	1716	186			✓		
30/Topp		01	60/70		513	657	144			✓		
30/Topp		02	60/70		2900	2935	35			✓		
32/Topp		01	60/70		2798	3071	273			✓		
32/Topp		02	60/70		3615	3750	135			✓		
35/Topp		01	60/70		1424	1463	39			✓		
35/Topp		02	60/70		2986	3287	301			✓		
37/Topp		01	60/70		2863	2947	84			✓		
39/Topp		01	60/70		403	846	443			✓		
40/Topp		01	60/70		2979	3121	142			✓		
42/Topp		01	60/70		1495	1557	62			✓		
42/Topp		02	60/70		1891	1944	53			✓		
42/Topp		03	60/70		2852	3056	204			✓		
43/Topp		01	60/70		1148	1184	336			✓		
44/Topp		01	60/70		3107	3749	642			✓		
45/Topp		01	60/70		1504	1753	249			✓		
47/Topp		01	60/70		482	795	313			✓		
47/Topp		02	60/70		2707	2966	301			✓		
48/Topp		01	60/70		532	757	225			✓		
48/Topp		02	60/70		2983	3249	266			✓		

TYPE OF DEFECT / FEILTYPE

100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsving 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ

OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR.

()

N2 NAME CERT. NO. / N2 NAVN SERT. NR.

Ivan Khashayarpour (11101-N2-U)

OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR.

Ivan Khashayarpour (11101-N2-U)

APPROVED / GODKJENT DATO:

APPROVED / GODKJENT DATO:2021-09-23

OPERATOR / OPERATØR DATO:2021-09-23

Approved / Godkjent



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR 124	DATE OF TESTING / KONTROLLDATO 2021-09-24	REPORT NO. / RAPPORT NR. 6217-21-UT-20	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. ---NA---	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
----------------------------------------------	-------------------------------------------------------------	--------------------------------------------------	----------------------------------

OBJECT / KONTROLL AV
**Project: Fronesbrua
Ultral lyd kontroll ov sveis & HAZ på "Seksjon 2/Topp" Sveis 0, A, D.**

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
-------------------------------------------	--------------------------------------------------	-------------------------------------------------------	-----------------------------------	-------------------------------------------------------------	------------------------------------------

UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGSDATO 2020-10-15	CALIBR. / KALIBR. Ø 1.5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE som sveist
------------------------------------------------------------------------	------------------------------------------------------	--------------------------------------	-------------------------------------------	------------------------------------------

Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 /77364	4	70	43	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
Alle indikasjoner ble reparert og kontrollert 100%



WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
0		01	60	-6	700	1150	450	4	300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D		--	60/70	--	--	--	--	--	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
A		01	70	-6	8345	8383	38	5	300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE

Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR 124			DATE OF TESTING / KONTROLLDATO 2021-09-24			REPORT NO. / RAPPORT NR. 6217-21-UT-20			PAGE / SIDE 2 of av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
A		02	70	4	16017	16135	118	7-10	400	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TYPE OF DEFECT / FEILTYPE 100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomveising 401 = Bindefeil 402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)												
REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ <input checked="" type="checkbox"/> OBJECT / OBJEKT <input type="checkbox"/> SKETCH / SKISSE												
NAME CERT. NO. / NAVN SERT. NR. ()				N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)				OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)				
APPROVED / GODKJENT DATO:				APPROVED / GODKJENT DATO:2021-09-24 Approved / Godkjent 				OPERATOR / OPERATØR DATO:2021-09-24 				



Visual Testing / Visuell Testing (VT)

Client / Kunde Prodtex industrier	Report no / Rapport nr VT-2
Client order no / Kunde ordre nr 2116000	Project / Prosjekt Frønesbrua
Section no / Seksjon nr Seksjon 2	Extent of Testing / Kontrollomfang 100% av oppgitte sveiser
Procedure / Prosedyre SVV-R762-10.08	Acceptance standard / Akseptstandard NS-EN ISO 5817 Level C

Material/ Material <input checked="" type="checkbox"/> Carbonsteel/Karbonstål <input type="checkbox"/> Other / Annet:	Equipment / Utstyr <input checked="" type="checkbox"/> Weldgauge/Sveiselære <input type="checkbox"/> Mirror/Speil <input checked="" type="checkbox"/> Flashlight/Lykt <input type="checkbox"/> Gapgauge/Åpningsmåler <input checked="" type="checkbox"/> Other/Annet
Joint/ Fuge <input checked="" type="checkbox"/> BW / Buttsveis <input type="checkbox"/> FW / Kilsveis	Technique/ Teknikk <input checked="" type="checkbox"/> Direct visual testing/Direkte visuell inspeksjon <input type="checkbox"/> Remote visual testing/Indirekte visuell inspeksjon
Light illuminance/ Lys styrke 1000> Lux	Welding process/ Sveisemetode Laser hybrid

Surface / Overflate
 As welded / Sveist Grinded / Slipt Blasted / Sandblåst Machined / Maskinert Painted / Malt

TEST RESULTS / TEST RESULTAT

Weld no / Sveis nr	Position / Posisjon (mm)	Length Tested / Testlengde (mm) / (%)	Defect Length / Feillengde (mm)	Defect Type / Feiltype	Defect Name / Feilnavn	Acc	Rej
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

Comments / Kommentarer

Godkjente toppsveiser:
 Sveisnr 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,35,36,37,38,39,40, 41,42,43,44,45,46,47,48 på tvers.

Date / Dato 09/08-2021	Operator name / Inspektør navn Jørgen H. Johansen Vegar Mosling	Certificate no / Sertifikat nr 12719-N2-V 12076-N2-V
Place of Work / Kontrollsted Prodtex Vanylven	Operator signature / Inspektør signatur 	Page / Side 1 of / av 1



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

Administrasjon Produksjon Vedlikehold

Logg ut (Bindiu Odon Bogdan)

Hoved / Prosjekter / Frønesbrua / Ultral lydprøving



CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR 124	DATE OF TESTING / KONTROLLDATO 2021-09-23	REPORT NO. / RAPPORT NR. 6217-21-UT-16	PAGE / SIDE 1 of av 2								
DRAWING NO. / TEGNING NO. NA	PLACE OF WORK / KONTROLLSTED Prodtex/Fikåholmen	OPERATOR / OPERATOR Bindiu Odon Bogdan	ATTACHMENT / VEDLEGG 0									
OBJECT / KONTROLL AV Project: Frønesbrua Ultral lyd kontroll av sveis & HAZ på Section 3 topp. Welds 23 to 50.												
PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017									
MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEOMETRI I	WELDING PROCESS / SVEISEPROSSE 135 Laser hybrid								
WELDERS ID / SVEISER ID NA												
UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO (SN:GOPLS13090067)	CALIBR. DATE / KALIBRERINGSDATO 2020-11-02	CALIBR. / KALIBR. Ø 3 mm	COUPLANT / KONTAKTMIDDEL Gel	SURFACE / OVERFLATE As welded								
Lydhode type/nr Probe type/no. 67749	MHz 4	Vinkel Angle 0	Ref. forst. Prim Gain dB 48	Overfl. Surf dB 0	Område Range mm 0-100	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80						
50928/60-4	4	60	41	+4	0-100							
1197666/70-4	4	70	51	+4	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERMTYPE 3						
SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE			TRANSVERCE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET									
SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>												
COMMENTS / KOMMENTARER Alle indikasjoner ble reparert og kontrollert 100%												
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
23		401	60	-6	1000		200	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
24		401	60	-6	2550		290	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
25		401	60	-6	3560		240	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODEX AS		CLIENT O.NO / KUNDE O.NR 124			DATE OF TESTING / KONTROLLDATO 2021-09-23				REPORT NO. / RAPPORT NR. 6217-21-UT-16			PAGE / SIDE 2 of/av 2	
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER	
26		401	60	-4	700		300	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
26		401	60	-6	1640		200	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
26		401	60	-6	3080		250	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
29		401	60	-6	1490		460	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
29		401	60	-4	2610		270	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
30		401	60	-4	970		240	5	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
33		401	60	-6	820		280	5	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
33		401	60	-6	1500		300	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
34		401	60	-4	970		330	5	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
37		401	60	-6	1590		1230	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
38		401	60	-6	300		200	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
38		401	60	-6	2100		350	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
40		401	60	-4	3100		200	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
47		401	60	-6	100		400	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
47		401	60	-6	950		1000	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
47		401	60	-6	2500		450	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
48		401	60	-6	100		400	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
48		401	60	-6	1050		350	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
48		401	60	-6	2500		290	5	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
A		401	60	-6	7200		400	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
A		401	60	-6	13050		250	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
D		401	60	-6	6100		300	6	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
D		401	60	-6	8150		270	7	401	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

TYPE OF DEFECT / FEILTYPE

100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsvising 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ

OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. () 1950	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Bindiu Odon Bogdan ()
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO: <i>Bindiu</i>	OPERATOR / OPERATØR DATO: 2021-10-06 <i>Bindiu</i> It god signatur



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR Order 124	DATE OF TESTING / KONTROLLDATO 2021-09-23	REPORT NO. / RAPPORT NR. 6217-21-UT-18	PAGE / SIDE 1 of/av 1
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DRAWING NO. / TEGNING NO. ---NA---	PLACE OF WORK / KONTROLLSTED PRODTEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
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OBJECT / KONTROLL AV
**Project: Fronesbrua.
Ultral lyd kontroll av sveis & HAZ på Seksjon 3/bunn. Sveis 0-11 tattalt lengde av hver sveis 5492mm.**

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 8 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
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UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGSDATO 2020-10-15	CALIBR. / KALIBR. Ø 1,5 mm	COUPLANT / KONTAKTMIDDEL UT Gel	SURFACE / OVERFLATE As welded
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Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	47	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 / 77364	4	70	43	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
**Alle mål/lengder i mm.
Alle Indikasjoner ble markert på objekt/sveis.
Alle reparasjoner ble kontrollert 100%.**

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER

TYPE OF DEFECT / FEILTYPE
**100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsvising 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)**

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ
 OBJECT / OBJEKT SKETCH / SKISSE

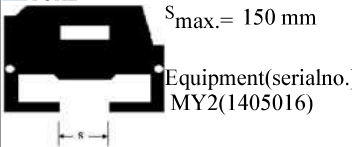
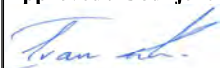

NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-U)
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APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-23 Approved / Godkjent 	OPERATOR / OPERATØR DATO:2021-09-23
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VERTIKALSERVICE

Magnetic testing
Magnetpulverprøving

CLIENT / KUNDE PRODEX AS	CLIENT O.NO / KUNDE O.NR 124	DATE OF TESTING / KONTROLLDATO 2021-09-23	REPORT NO. / RAPPORT NR. 6217-21-MP-8	PAGE / SIDE 1 of/av 1
DRAWING NO. / TEGNING NO. ---NA---	PLACE OF WORK / KONTROLLSTED PRODEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0	
OBJECT / KONTROLL AV "Fronesbrua" "Seksjon 3 / Topp/bunn" MPI kontroll av sveis & HAZ på sveiser, Topp.0.1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,30,31,32,33,34,35,40,41,42,43,44,45,46,47. Bunn, 0.1.2.3.4.5.6.7.8.9.10.11				
PROCEDURE / PROSEDYRE NDT-5.11.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 23278	
MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	SURFACE / OVERFLATE As welded	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSESS 135 Laser hybrid
MAGNETIC PARTICLE INK / MAGNETISK PULVER TYPE PFINDER 251 BATCH / PARTI --	<input checked="" type="checkbox"/> YOKE  $S_{max.} = 150 \text{ mm}$ Equipment(serialno.) MY2(1405016)	<input type="checkbox"/> OTHER / ANNEN METODE	OBJECT TEMPERATURE / OVERFLATETEMPERATUR 15	
MEDIUM <input checked="" type="checkbox"/> WET / VÅTT <input type="checkbox"/> DRY / TØRT <input checked="" type="checkbox"/> BLACK / SVART <input type="checkbox"/> FLUORESCENT / FLUORISERENDE			1000² Lux	CONTRAST COLOR / KONTRASTFARGE Bycotest 104 A/White
LIFTING CAPACITY / LØFTEKAPASITET 4,5 kg	FIELD STRENGTH / FELT STYRKE min 2,4 kA/cm²No	FIELD INDICATOR / FELTINDIKATOR Castrolstrips		
MAGNETIZED FOR / MAGNETISERT FOR LONGITUDINAL + TRANSVERSE DEFECTS / LANGSGÅENDE + TVERRGÅENDE INDIKASJONER				
TEST RESULTS - REMARKS / RESULTATER - BEMERKNINGER Totalt Lengde på hver sveis, 4420mm.				
REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ <input type="checkbox"/> OBJECT / OBJEKT <input type="checkbox"/> SKETCH / SKISSE				
NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (11101-N2-M)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (11101-N2-M)		
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-23 Approved / Godkjent 	OPERATOR / OPERATØR DATO: 		



VERTIKALSERVICE

Ultrasonic testing
Ultral lydprøving

CLIENT / KUNDE PRODTEX AS	CLIENT O.NO / KUNDE O.NR 124	DATE OF TESTING / KONTROLLDATO 2021-09-20	REPORT NO. / RAPPORT NR. 6217-21-UT-9-REV1	PAGE / SIDE 1 of/av 2
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DRAWING NO. / TEGNING NO. --NA--	PLACE OF WORK / KONTROLLSTED Prodtex/Fikåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0
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OBJECT / KONTROLL AV
**Project: Frønesbrua
Ultral lyd kontroll ov sveis & HAZ på "Seksjon 3 /Topp siden" Sveis 0-22**

PROCEDURE / PROSEDYRE NDT-5.13.00 (iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD ISO 19285-2017
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MATERIAL TYPE / MATERIALTYPE CS	HEAT TREATED / VARMEBEHANDLET No / Nei	MATERIAL THICKNESS / MATERIALTYKKELSE 10 mm	GROOVE / FUGEGEOMETRI I	WELDING PROCESS / SVEISEPROSSESS 135 Laser hybrid	WELDERS ID / SVEISER ID --NA--
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UTEQUIP SERIALNO / UTAPP. SERIENR. USM GO+(SN:GOPLS13090152)	CALIBR. DATE / KALIBRERINGSDATO 2020-10-15	CALIBR. / KALIBR. Ø 1.5 mm	COUPLANT / KONTAKTMIDDEL Gel	SURFACE / OVERFLATE As welded
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Lydhode type/nr Probe type/no.	MHz	Vinkel Angle	Ref. forst. Prim Gain dB	Overfl. Surf dB	Område Range mm	REPORTING LEVEL PERCENT OF DAC/ RAPPORTERINGSNIVÅ % AV DAK 80%
MSEB 0-4/SM-57462	4	0	48	0	0-100	Ø mm DGS SCREEN TYPE / Ø mm AVG SKJERM TYPE --
MWB 60-4 / 75424	4	60	41	+4	0-100	
MWB 70-4 /77284	4	70	51	+4	0-100	

SCANNING TECHNIQUE FOR / PRØVEUTFØRELSE M.H.P. LONGITUDINAL DEFECTS / LANGSGÅENDE FEIL 1 SIDE, 2 SURFACES / 1 SIDE, 2 OVERFLATER <input checked="" type="checkbox"/> 2 SIDES, 4 SURFACES / 2 SIDER, 4 OVERFLATER <input type="checkbox"/> OTHER / ANNET <input type="checkbox"/> SEE SKETCH / SE SKISSE	TRANSVERSE DEFECTS / TVERRGÅENDE FEIL <input type="checkbox"/> AT FLUSH GROUND REINFORCEMENT / PÅ PLANSLIPT RÅK <input type="checkbox"/> AT REINFORCEMENT / PÅ RÅK <input checked="" type="checkbox"/> FROM THE PARENT METAL / FRA GRUNNMATERIALET
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SCANNING TECHNIQUE FOR DEFECTS IN THE PARENT MATERIAL / PRØVEUTFØRELSE M.H.P. FEIL I GRUNNMATERIALET NORMALPROBE / NORMALLYDHODE <input checked="" type="checkbox"/> ANGLE PROBE / VINKELLYDHODE <input type="checkbox"/>

COMMENTS / KOMMENTARER
**Alle indikasjoner ble markert på sveiser.
Alle reparasjoner ble kontrollert på nytt 100% og godkjent.
Alle mål/lengder i mm.**

WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
0/Topp		01	70	-4	1440	2780	1340	4-10	400	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
03/Topp		01	70	4	3840	4380	540	6-10	400	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
05/Topp		01	70	2	2360	3000	640	7-10	400	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



VERTIKALSERVICE

Ultrasonic testing

Ultralydprøving

CLIENT / KUNDE PRODTEX AS		CLIENT O.NO / KUNDE O.NR 124		DATE OF TESTING / KONTROLLDATO 2021-09-20			REPORT NO. / RAPPORT NR. 6217-21-UT-9-REV1			PAGE / SIDE 2 of/av 2		
WELD NO SVEIS NR	DATE AND TIME DATO KL.	DEFECT NO DEFEKT NR	PROBE LYDHODE	ECHO AMPL. dB NIVÅ	FROM FRA X	FROM FRA Y	LENGTH LENGDE	DEPTH DYBDE	TYPE OF DEFECT FEILTYPE	ACC. OK	REJ. NOK	REMARKS ANMERKNINGER
06/Topp		01	70	-5	3010	3870	860	5-10	400	✓		
11/Topp		01	70	-2	1440	1750	310	6-10	400	✓		
11/Topp		02	70	-6	2630	2992	362	6-10	400	✓		
12/Topp		01	70	-2	0	550	550	7-10	400	✓		
12/Topp		02	70	-4	1440	2000	560	6-10	400	✓		
15/Topp		01	70	0	910	1015	105	6-10	400	✓		
16/Topp		01	70	-4	0	400	400	5-10	400	✓		
16/Topp		02	70	-2	3910	4220	310	5-10	400	✓		
18/Topp		01	70	-3	2330	2945	615	8-10	400	✓		
19/Topp		01	70	-2	0	510	510	7-10	400	✓		
19/Topp		02	70	-2	1270	1460	190	7-10	400	✓		
19/Topp		03	70	-3	2000	2470	470	7-10	400	✓		
19/Topp		04	70	-4	2720	2950	230	7-10	400	✓		
20/Topp		01	70	-4	260	430	170	7-10	400	✓		
21/Topp		01	70	-2	2160	2310	150	7-10	400	✓		
21/Topp		02	70	0	2400	2590	590	7-10	400	✓		
22/Topp		01	70	4	2775	2890	115	7-10	400	✓		

TYPE OF DEFECT / FEILTYPE

100 = Sprekk 200 = Hulrom, porer 300 = Fast inneslutting, Slagg 400 = Bindefeil og manglende gjennomsvising 401 = Bindefeil
402 = Rotfeil 500 = Uregelmessig form 501 = Sårkant 600 = Andre uregelmessigheter (spesifiser)

REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ

OBJECT / OBJEKT SKETCH / SKISSE

NAME CERT. NO. / NAVN SERT. NR.

()

N2 NAME CERT. NO. / N2 NAVN SERT. NR.

Ivan Khashayarpour (11101-N2-U)

OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR.

Ivan Khashayarpour (11101-N2-U)



APPROVED / GODKJENT DATO:

APPROVED / GODKJENT DATO:2021-09-23

Approved / Godkjent

OPERATOR / OPERATØR DATO:2021-09-23



CLIENT / KUNDE PRODEX AS	CLIENT O.NO / KUNDE O.NR 124	DATE OF TESTING / KONTROLLDATO 2021-09-23	REPORT NO. / RAPPORT NR. 6217-21-VT-8	PAGE / SIDE 1 of/av 1
DRAWING NO. / TEGNING NO. ---NA---	PLACE OF WORK / KONTROLLSTED PRODEX/ Fiskåholmen	OPERATOR / OPERATØR Ivan Khashayarpour	ATTACHMENT / VEDLEGG 0	
OBJECT / KONTROLL AV Project: Fronesbrua.				
PROCEDURE / PROSEDYRE NDT-5.10.00-EN (Iht.DNV)	REV	EXTENT OF TESTING / KONTROLLOMFANG 100%	ACCEPTANCE STANDARD / AKSEPTSTANDARD EN ISO.5817 Lev C	
COMMENTS / KOMMENTARER VT kontroll av sviser 0-49/ Tvergående. B & C langsgående. Bunnsveiser 0-11				
REPAIRS MARKED ON / REPARASJONER AVMERKET PÅ <input type="checkbox"/> OBJECT / OBJEKT <input type="checkbox"/> SKETCH / SKISSE				
NAME CERT. NO. / NAVN SERT. NR. ()	N2 NAME CERT. NO. / N2 NAVN SERT. NR. Ivan Khashayarpour (TIS1049)	OPERATOR NAME CERT. NO. / OPERATØR NAVN SERT. NR. Ivan Khashayarpour (TIS1049)		
APPROVED / GODKJENT DATO:	APPROVED / GODKJENT DATO:2021-09-23 Approved / Godkjent 	OPERATOR / OPERATØR DATO: 		

VEDLEGG D: Sveiselogg





Statens vegvesen
Pb. 1010 Nordre Ål
2605 Lillehammer

Tlf: (+47) 22 07 30 00

firmapost@vegvesen.no

vegvesen.no

Tryggere, enklere og grønnere reisehverdag