

WELDER'S QUALIFICATION ALIGNMENT SHEET

according to NEN-EN-ISO 9606-1: 2013

DNV-GL

Certificate No.: A0261669-1

Rev.: 0

Ref.: A0261669

Designation(s) NEN-EN-ISO 9606-1 135 T BW FM2 S t=12.5 (s1=4.00) D 70.0 H-L045 ss, nb
136 T BW FM3 P t=12.5 (s2=8.50) D 70.0 H-L045 ss, mb

Approval body Det Norske Veritas B.V. - PCNL, the Netherlands

Registration no. CE 0427 - Notified Body. Approval of personnel for permanent joining according PED 97/23/EC.
I136 - Accredited Dutch RvA. Approval of personnel for permanent joining according PED 97/23/EC

Welder's name Adrian Robert Lazarek

Identification / Method of identification Identiteitsbewijs / CAA 111744

Date and place of birth 1985-09-09 / Szczecin

Employer IHC Fabrication B.V.

WPS - Reference WPS 06/SUT/2009

Job knowledge Not tested

Welding data	Test Piece	Range of qualification NEN-EN-ISO 9606-1:2013
Welding process(es)	135 136	135, 138 136
Transfer mode	Short circuit arc N.A.	Short circuiting arc, Globulair arc, Spray arc N.A.
Current and polarity	DC pos DC pos	N.A. N.A.
Product type Type of weld	T BW	P, T BW, branch joints with an angle $\geq 60^\circ$
Material group(s)	5.1 (EN 10028-2 13CrMo4-5) 5.1 (EN 10028-2 13CrMo4-5)	N.A. N.A.
Filler metal group and type	FM2, S, ISO 16834-A: G62 4 M Mn3NiCrMo FM3, P, ISO 17634-A: T CrMo1 P M 2 H5	FM1, FM2, S FM1, FM2, FM3, R, P, V, W, Y, Z
Shielding gas	M21 M21	N.A. N.A.
Auxiliaries (e.g. backing gas)	N.A. N.A.	N.A. N.A.
Material thickness (mm)	t = 12.50 mm	N.A.
Deposite weld thickness (mm)	S1:4.00mm S2:8.50mm	S1:3.00 - 8.00 mm - S2:3.00 - 17.00 mm
Outside tube diameter (mm)	70 mm	D $\geq$ 35 mm
Welding position	H-L045	PA, PC, PE, PF
Weld details	ss, nb ss, mb	ss nb - ss mb - bs - ss gb - ss fb ss mb - bs
Suppl. FW Test piece (5.4e)	N.A. N.A.	N.A. N.A.

*) 3 or more layers.

Type of qualification tests	Performed and accepted	Not tested	
Visual testing	Yes	-----	0701PRIV01-01-2013
Radiographic testing	Yes	-----	0701PRIV01-01-2013
Ultrasonic testing	-----	Not tested	
Liquid Penetrant testing	-----	Not tested	
Magnetic testing	-----	Not tested	
Bend test	Yes	-----	0701PRIV01-01-2013
Macroscopic examination	-----	Not tested	
Fracture test	Yes	-----	0701PRIV01-01-2013
Hardness examination	-----	Not tested	
Charpy V-notch testing	-----	Not tested	
Tensile test	-----	Not tested	

Place of welding Kapellen

Date of welding 2013-01-07

Valid till 2015-01-07

Issue date 2013-10-14

Issue place Barendrecht

Surveyor Marc van Holsteijn

Verified by DNV GL
Marc van Holsteijn

Signature welder

This qualification is approved for application under PED 97/23/EC by Det Norske Veritas B.V. - PCNL (NoBo 0427, 'beschikking 2014-0000021705'); This qualification is approved for application under DNV Classification Rules and Offshore Standards;

Signature employer:

Note: Assessment for specific application to be performed on the application project itself.

See reverse side for prolongation by employer every 6 months, and examiner/test body's prolongation every 2 years.
Additional information may also be stated in the column 'supplementary remarks'.

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