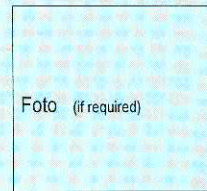


Certificate



Welder Qualification Test acc. to EN 287-1 : 2004 + A2 : 2006

Certificate No. **WF 09401187 HH**
 Designation: **136 P BW 1.1 P t15,0 PA ss nb**
 Manufacturer's Welding Procedure Specification No. (if available): **WPS: ---**
 Name: **Swertz, Raymundus**
 Date of birth: **1959-09-18** Place of birth: **Boxmeer**
 Legitimation: **2193482** Type: **ID. Card**
 Test by order of: **Staalmeesters**



Test data	Details	Range of Qualification	
Welding process	136	Flux-Cored Arc Welding (with active Gas Shield) (FCAW)	acc. to section 5.2
Product type [(P)/(T)]	P	see EN 287-1 : 2004 + A2 : 2006, section 5.3 and table 7	
Joint type	BW	BW-P, BW-T, FW-P, FW-T	acc. to section 5.4
Material group	1.1	1.1, 1.2, 1.4; (see table 2 of EN 287-1 : 2004 + A2 : 2006)	acc. to section 5.5
Filler metal type	P	R; P; V; W; Y; Z	acc. to section 5.6
Shielding gas	M 21	similar gases according to EN 439	
Auxiliaries	-		
Material thickness	15,0 mm	>= 5,0 mm	acc. to section 5.7
Pipe outside diameter	-	---	acc. to section 5.7
Weld details	ss / nb	P: ss mb; ss nb; bs; for FW: sl; ml	
Position of test piece	EN ISO 6947	PA PB PC PD PE PF (P) PF (T) PG (P) PG (T) H-L045 J-L045	
	PA	X X --- --- --- --- --- --- --- --- --- ---	
		Additionally the requirements of 5.3, 5.4 and 5.8 shall be observed.	

Differing range of approval according to GL Rules and other remarks: Joint type: only butt welds
 Base material: unalloyed steels with a minimum specified yield strength up to 280 N/mm².
 Welded: Grade GL-A

Type of test	Results	Job knowledge: not tested (for employment in Germany see national foreword of DIN EN 287-1 : 2006)
Visual test	passed	Initial Test carried out on: 2008-07-07 valid until:*) 2010-07-06 Hamburg, 2009-02-05
Radiographic / Ultrasonic	passed	
Bend test	passed	
Fracture test	---	
Macro	passed	
Notched-tensile test	---	
Surface crack test	---	
Additional test	none	

Germanischer Lloyd

E. Brück
Enno Brück

Confirmation of the validity by employer (welding supervisor) according to above-mentioned standard, section 9.2, for the following 6 months.		Prolongation of qualification according to above-mentioned standard, section 9.3 and annex D, by the Surveyor of Germanischer Lloyd for the following 2 years.	
Date	Signature (Stamp, Official Position or Title)	Date	Signature (Stamp, Official Position or Title)

After two years, a copy of this certificate has to be submitted for further prolongation. For the prolongation in Germany the Job knowledge test is necessary.
 The latest edition of the General Terms and Conditions of Germanischer Lloyd is applicable (see Chap. I - Ship Technology, Part 0 - Classification and Surveys). Germanischer Lloyd Aktiengesellschaft; Registered Office Hamburg, HR B 31393.

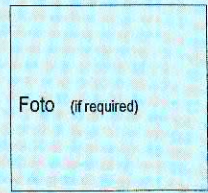
*) When confirmation of the validity by employer (welding supervisor) according to above-mentioned standard is duly given.

Certificate



Welder Qualification Test acc. to EN 287-1 : 2004 + A2 : 2006

Certificate No. **WF 09400406 HH**
 Designation: **136 P FW 8 R t15,0 PB ml**
 Manufacturer's Welding Procedure Specification No. (if available): **WPS: 003**
 Name: **Swertz, Raymundus**
 Date of birth: **1959-09-18** Place of birth: **Boxmeer**
 Legitimation: **2193482** Type: **ID. Card**
 Test by order of: **Staalmeesters**



Test data	Details	Range of Qualification
Welding process	136	Flux-Cored Arc Welding (with active Gas Shield) (FCAW) acc. to section 5.2
Product type [(P)/(T)]	P	see EN 287-1 : 2004 + A2 : 2006, section 5.3 and table 7
Joint type	FW	FW-P, FW-T acc. to section 5.4
Material group	8	8, 9.2, 9.3, 10; (see table 2 of EN 287-1 : 2004 + A2 : 2006) acc. to section 5.5
Filler metal type	R	R; P; V; W; Y; Z acc. to section 5.6
Shielding gas	M 12	similar gases according to EN 439
Auxiliaries	-	
Material thickness	15,0 mm	>= 3,0 mm acc. to section 5.7
Pipe outside diameter	-	--- acc. to section 5.7
Weld details	ml	sl; ml
Position of test piece	EN ISO 6947	PA PB PC PD PE PF (P) PF (T) PG (P) PG (T) H-L045 J-L045
	PB	X X --- --- --- --- --- --- --- --- --- ---
Additionally the requirements of 5.3, 5.4 and 5.8 shall be observed.		

Differing range of approval according to GL Rules and other remarks
 Base material: Combaination S355J2G3 (t=50,0mm) to 316 L (15,0mm)

Type of test	Results	Job knowledge: not tested (for employment in Germany see national foreword of DIN EN 287-1 : 2006)
Visual test	passed	Initial Test carried out on: 2008-01-24 valid until:*) 2010-01-23 Hamburg, 2009-01-14 Germanischer Lloyd Martin Wenning
Radiographic / Ultrasonic	---	
Bend test	---	
Fracture test	passed	
Macro	passed	
Notched-tensile test	---	
Surface crack test	passed	
Additional test	none	

Confirmation of the validity by employer (welding supervisor) according to above-mentioned standard, section 9.2, for the following 6 months.		Prolongation of qualification according to above-mentioned standard, section 9.3 and annex D, by the Surveyor of Germanischer Lloyd for the following 2 years.	
Date	Signature (Stamp, Official Position or Title)	Date	Signature (Stamp, Official Position or Title)

After two years, a copy of this certificate has to be submitted for further prolongation. For the prolongation in Germany the Job knowledge test is necessary.
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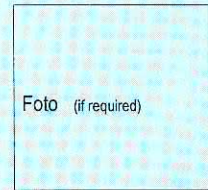
*) When confirmation of the validity by employer (welding supervisor) according to above-mentioned standard is duly given.

Certificate



Welder Qualification Test acc. to EN 287-1 : 2004 + A2 : 2006

Certificate No. **WF 09401186 HH**
 Designation: **136 P BW 8 R t15,0 PA ss nb**
 Manufacturer's Welding Procedure Specification No. (if available): **WPS: ---**
 Name: **Swertz, Raymundus**
 Date of birth: **1959-09-18** Place of birth: **Boxmeer**
 Legitimation: **2193482** Type: **ID. Card**
 Test by order of: **Staalmeesters**



Test data	Details	Range of Qualification
Welding process	136	Flux-Cored Arc Welding (with active Gas Shield) (FCAW) acc. to section 5.2
Product type [(P)/(T)]	P	see EN 287-1 : 2004 + A2 : 2006, section 5.3 and table 7
Joint type	BW	BW-P, BW-T, FW-P, FW-T acc. to section 5.4
Material group	8	8, 9.2, 9.3, 10; (see table 2 of EN 287-1 : 2004 + A2 : 2006) acc. to section 5.5
Filler metal type	R	R; P; V; W; Y; Z acc. to section 5.6
Shielding gas	M 21	similar gases according to EN 439
Auxiliaries	-	
Material thickness	15,0 mm	>= 5,0 mm acc. to section 5.7
Pipe outside diameter	-	acc. to section 5.7
Weld details	ss / nb	P: ss mb; ss nb; bs; for FW: sl; ml
Position of test piece	EN ISO 6947	PA PB PC PD PE PF (P) PF (T) PG (P) PG (T) H-L045 J-L045
	PA	X X --- --- --- --- --- --- --- ---
	Additionally the requirements of 5.3, 5.4 and 5.8 shall be observed.	

Differing range of approval according to GL Rules and other remarks
 Joint type: only butt welds
 Base material: Combination 316L with Grade GL A

Type of test	Results	Job knowledge: not tested (for employment in Germany see national foreword of DIN EN 287-1 : 2006)
Visual test	passed	Initial Test carried out on: 2008-07-07 valid until:*) 2010-07-06 Hamburg, 2009-02-05
Radiographic / Ultrasonic	passed	
Bend test	passed	
Fracture test	---	
Macro	passed	
Notched-tensile test	---	
Surface crack test	---	
Additional test	none	Germanischer Lloyd Enno Brück

Confirmation of the validity by employer (welding supervisor) according to above-mentioned standard, section 9.2, for the following 6 months.		Prolongation of qualification according to above-mentioned standard, section 9.3 and annex D, by the Surveyor of Germanischer Lloyd for the following 2 years.	
Date	Signature (Stamp, Official Position or Title)	Date	Signature (Stamp, Official Position or Title)

After two years, a copy of this certificate has to be submitted for further prolongation. For the prolongation in Germany the Job knowledge test is necessary.
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*) When confirmation of the validity by employer (welding supervisor) according to above-mentioned standard is duly given.