

WELDING PROCEDURE SPECIFICATION (WPS)

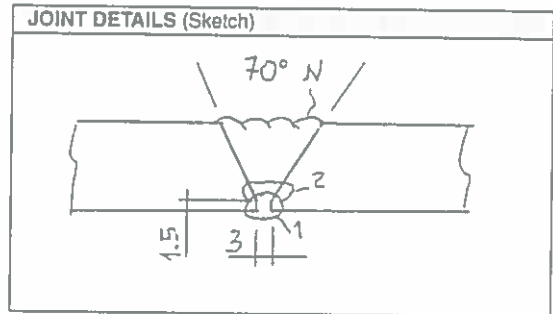
OFFICINE MECCANICHE PELLANDA Srl
 Company Name _____
 Authorized by _____ Date 14-02-2017

02/17
 WPS No. _____
 001-17
 Supporting PQR(s) _____
 0
 Rev. No. _____
 N.A.
 CVN Report _____
 14-02-2017
 Date

BASE METALS	Specification	Type or Grade	AWS Group No.
Base Material	EN 10025-2	S355 J2	II
Welded To	EN 10025-2	S355 J2	II
Backing Material	N.A.		
Other			

BASE METAL THICKNESS	As-Welded	With PWHT
CJP Groove Welds	25 mm.	N.A.
CJP Groove w/CVN		
PJP Groove Welds		
Fillet Welds		
DIAMETER		

JOINT DETAILS	
Groove Type	SINGLE V-GROOVE BUTT JOINT
Groove Angle	60°-70°
Root Opening	3 mm.
Root Face	1.5 mm.
Backgouging	N.A.
Method	



POSTWELD HEAT TREATMENT	
Temperature	N.A.
Time at Temperature	
Other	

PROCEDURE									
Weld Layer(s)	ALL								
Weld Pass(es)	ALL								
Process	GMAW								
Type (Semiautomatic, Mechanized, etc.)	Semiauto								
Position	F								
Vertical Progression	N.A.								
Filler Metal (AWS Spec.)	A5 18								
AWS Classification	ER70S-6								
Diameter	1.2 mm.								
Manufacturer/Trade Name	SIDERWELD								
Shielding Gas (Composition)	SG-ACO-3/1								
Flow Rate	17 l/min								
Nozzle Size	18 mm.								
Preheat Temperature	20°C								
Interpass Temperature	250°C								
Electrical Characteristics									
Current Type & Polarity	DCEP								
Transfer Mode	SPRAY								
Power Source Type (cc, cv, etc.)	CC								
Amps	200-280								
Volts	24-28								
Wire Feed Speed	(Amps)								
Travel Speed	200-420								
Maximum Heat Input	2185 J/mm								
Technique									
Stringer or Weave	STRINGER								
Multi or Single Pass (per side)	MULTI								
Oscillation (Mechanized/Automatic)	N.A.								
Traverse Length	N.A.								
Traverse Speed	N.A.								
Dwell Time	N.A.								
Number of Electrodes	1								
Contact Tube to Work Distance	20-25 mm.								
Peening	N.A.								
Interpass Cleaning	GRINDING								
Other									

Form M-2



TEST RESULTS
TENSILE TEST

Specimen No.	WIDTH mm	THICKNESS mm	AREA mm ²	ULTIMATE TENSILE LOAD	ULTIMATE UNIT STRESS	Character of failure and location
				N	N/mm	
1	20,0	22	440		567,3	DUCTILE - OUTSIDE WELD
2	20,0	22	440		569,8	DUCTILE - OUTSIDE WELD

GUIDED BEND TEST

Specimen No	Type Of Bend	Result
1	FIG. 4.9 SIDE BEND (α180° transv.)	acceptable
2	FIG. 4.9 SIDE BEND (α180° transv.)	acceptable
3	FIG. 4.9 SIDE BEND (α180° transv.)	acceptable
4	FIG. 4.9 SIDE BEND (α180° transv.)	acceptable

VISUAL INSPECTION		RADIOGRAPHIC –ULTRASONIC EXAMINATION	
APPEARANCE :	ACCEPTABLE	RT REPORT No. 0137-2017/1 sh. 6	RESULT ACCEPTABLE
UNDERCUT :	None	UT REPORT No.	RESULT
PIPING POROSITY	None		
CONVEXITY :	ACCEPTABLE		
TEST DATE :	14/02/2017		
WITNESSED BY : SGS INSPECTOR - PELLANDA Coordinator			


OTHER TESTS :		FILLET WELD TEST RESULT	
Hardness test	N.A.	MINIMUM SIZE MULTIPLE PASS	MAXIMUM SIZE SINGLE PASS
MACROETCH	see Report. No. 0137-2017/1 sh.5	MACROETCH	MACROETCH
IMPACT TEST :	see Report No. 0137-2017/1 sh.4	N.A.	N.A.
PENETRANT	N.A.	ALL WELD METAL TENSION TEST	
		TENSILE STRENGTH	N.A.
		YIELD POINT /STRENGTH	N.A.
		ELONGATION IN 2 in. %	N.A.
		LABOTATORY TEST No.	N.A.

Welder's name : _____ clock no. N.A. stamp .no. CIM

Test conducted by : ST Mario Cuzzolin Srl

Report no. 0137-2017/1 of 22/02/2017
Per M. Cuzzolin

We , undersigned ,certify that the statements in this record are correct and that the test weld were prepared , welded and tested in conformance with the requirements of clause 4 of AWS D1.1/D1.1 M -2015 edition " Structural welding code – steel "

Third party inspector date and signature 	Signed	
	By	
	Title	Welding Coordinator
	Date	24/02/2017

**WELDER, WELDING OPERATOR, OR TACK WELDER
PERFORMANCE QUALIFICATION TEST RECORD**

Type of Welder : **WELDER**
Name : _____ Identification No. CIM _____
Welding Procedure Specification No. **02/17** Rev. **0** Date: **14.02.2017**

Variables	Record Actual Values Used in Qualification	Qualification Range
Process/Type	GMAW – Semiauto.	GMAW – Semi./Mech./Auto.
Electrode (single or multiple)	Single	Single
Type of Weld Joint	Plate - Groove	Groove, Fillet, Plug and Slot Welds (T-,Y-,K-Groove PJP only)
Position	Groove – 1G	Groove : F Fillet : F, H
Weld progression (Up/Downhill)	N.A.	N.A.
Backing (Yes or No)	No	Yes or no
Material Spec.	S355 J2+N - Group II to S355 J2+N - Group II	Group I to Group I Group II to Group I Group II to Group II
Base Metal		
Thickness : (Plate)	25	3 to Unlimited
Groove	n.a.	3 to Unlimited
Fillet	n.a.	3 to Unlimited
Thickness : (Pipe/Tube)		
Groove	n.a.	3 to Unlimited
Fillet	n.a.	3 to Unlimited
Diameter : (Pipe)		
Groove	n.a.	≥ 600
Fillet	n.a.	All
Filler Metal		
Spec. No.	AWS A5.18	A5.18
Class	ER 70S-6	All
F-No.	/	/
Gas/Flux Type	A5.32 SG-ACO-3/1	A5.32 SG Approved
Other : GMAW Transfer Mode	Spray	Spray, Pulsed, Globular

VISUAL INSPECTION (4.9.1) Acceptable (Yes or No) : Yes
Guided Bend Test Results (4.9.3.1)

Type	Result	Type	Result
T-Side Bend	Satisfactory	T-Side Bend	Satisfactory
T-Side Bend	Satisfactory	T-Side Bend	Satisfactory

Fillet Test Results (4.22.2.2 and 4.22.4.1)

Appearance : **n.a.** Fillet size : **n.a.**

Fracture test root penetration : **n.a.** Macroetch : **n.a.**

(Describe the location, nature, and size or any crack or tearing of the specimen.)

Inspected by : **ST Mario Cuzzolin Srl**

Test N° : **0137-2017/1 sh. 3**



RADIOGRAPHIC TEST RESULTS (4.22.3.2) Film

Film Identification	Results	Remarks	Film Identification	Results	Remarks
1-2 CIM	Satisfactory				

Interpreted by : **ST Mario Cuzzolin Srl (A. Cestaro)**

Test N° : **0137-2017/1 sh. 6**

We, the undersigned, certify that the statements in this record are correct and that the welds were prepared welded and tested in conformance with the requirements of Section 4 of AWS D1.1/D1.1M - 2015 Structural Welding Code-Steel.

Manufacturer: **PELLANDA Officine Meccaniche Srl**

Authorized by :

Date : **24.02.2017**



STUDIO TECNICO
Mario Cuzzolin s.r.l.

LABORATORIO/LABORATORY



LAB N°0303
Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

RAPPORTO DI PROVA N° : 0137 - 2017 / 1

Pagina/Page: 1 di/of 6

Test report n°

RICHIEDENTE : Officine Meccaniche Pellanda s.r.l.
Customer

INDIRIZZO : Via Facca, 89
Address 35013 - Cittadella (PD)

OGGETTO : Qualifica procedimento della saldatura secondo AWS D1.1.
Object

IDENTIFICAZIONE : Plate sp. 25,0 mm, mat. S355J2+N (EN 10025-2), proc di sald. GMAW
Identification:

Saldatore:

BOLLA DI ENTRATA : e-mail
Bill of entry Commessa SGS n° 75.17.13305

DATA : 17/02/2017
Date

IL PRESENTE RAPPORTO E' COSTITUITO DAI SEGUENTI RESOCONTI DI PROVA :
This report includes the following tests

Prova di Trazione/Tensile test	* Vedi pag./see page : 2 di/of 6
Prova di Piega/Bend test	* Vedi pag./see page : 3 di/of 6
Prova di Resilienza/Impact test	* Vedi pag./see page : 4 di/of 6
Esame Macrografico/Macro examination	* Vedi pag./see page : 5 di/of 6
Controllo R.X./Radiographic examination	* Vedi pag./see page : 6 di/of 6

(* Prova non accreditata da ACCREDIA)

(* This test is not accredited by ACCREDIA)

DATA DI ESECUZIONE DELLA/E PROVA/E : 21/02/2017 - 22/02/2017

Test date

LA RIPRODUZIONE PARZIALE DEL PRESENTE RAPPORTO DEVE ESSERE AUTORIZZATA PER ISCRITTO DAL RESPONSABILE DEL LABORATORIO
- Partial reproduction of this report must be authorized in writing by the laboratory manager.

I RISULTATI CONTENUTI NEL PRESENTE RAPPORTO SI RIFERISCONO ESCLUSIVAMENTE AGLI OGGETTI PROVATI

- The test results relate only to the tested item.

CAMPIONAMENTO EFFETTUATO DAL CLIENTE - Sampling executed by the customer

TEMPO DI CONSERVAZIONE - STORAGE TIME :

- CAMPIONE - SAMPLE = 90 giorni - 90 days
- RAPPORTO DI PROVA - TEST REPORT = 10 anni - 10 years
- REGISTRAZIONE DATI PROVE - DATA TEST RECORDING = 2 anni - 2 years

DATA DI EMISSIONE : 22/02/2017

Emission date

PRESIDENTE STUDIO TECNICO

Chairman

Per. Ing. Mario Cuzzolin





STUDIO TECNICO
Mario Cuzzolin s.r.l.

RAPPORTO DI PROVA

PROVA DI TRAZIONE

Tensile test

Cliente/Customer : Officine Meccaniche Pellanda s.r.l. Materiale/Material : S355J2+N (EN 10025-2) Spessore/Thickness : 25,0 mm	Commessa/Job : 2017/0188 Data di prova/Test date : 22/02/2017 D.est./D.ext : \	Rapporto/Report : 0137 - 2017 / 1 Pagina/Page : 2 di/ of 6 Tipo/Type : Butt full penetration
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NORMA DI PROVA / TEST STANDARD
AWS D.1.1 - Figure 4.10 Reduced Section Tension Specimens (see 4.9.3.4)

Riferimenti/References
AWS D1.1:2015

MACCHINE DI PROVA / TESTING MACHINE

Galdabini PM 50 matr. 32508 (01A)			Galdabini PM 20 matr. 24394 (02A)			Galdabini PM 60 matr. 29618 (03A)		
Scala (KN)	Classe	<input type="checkbox"/>	Scala (KN)	Classe	<input type="checkbox"/>	Scala (KN)	Classe	<input type="checkbox"/>
100	1	<input type="checkbox"/>	40	0,5	<input type="checkbox"/>	600	0,5	<input type="checkbox"/>
500	0,5	<input type="checkbox"/>	200	0,5	<input type="checkbox"/>			

Galdabini QUASAR 600 matr. V9UG (06A)			INSTRON 4411 matr. H1929 (04A)		
Scala (KN)	Classe	<input checked="" type="checkbox"/>	Scala (KN)	Classe	<input type="checkbox"/>
600	0,5	<input checked="" type="checkbox"/>	5	1	<input type="checkbox"/>

Cert. di taratura LAT 034/Certificate of calibration LAT 034:
N.372-15F & N.374-16F (01/06/16)
N.362-16F (01/06/2016)
N.363-16F (01/06/2016) - N.375-16F (01/06/16)

Risultati delle prove / Test results

CARATTERISTICHE PROVINO <i>Specimen characteristics</i>						CARATTERISTICHE MECCANICHE <i>Mechanical characteristics</i>				
Pos.	Direz. prelievo <i>Direc. drawing</i>	Numero saggio <i>Test piece n°</i>	Dimensioni		Area	All.	Carico snervamento superiore <i>R_{sH}</i>	Carico di rottura <i>R_m</i>	Allungamento % dopo rottura <i>A</i>	* Tipo e Posizione rottura
			t _s	b	S ₀ <i>Area</i>	L ₀ <i>Elong.</i>	N/mm ²	N/mm ²	%	
			mm		mm ²	mm				
1	TW	CIM	22,0	x 20,0	440,0	\	\	567,3	\	BM - D
2	TW	CIM	22,0	x 20,0	440,0	\	\	569,8	\	BM - D

SGS **SGS ITALIA S.p.A.**

Witnessed
 Review
 Noted for information only

22-02-17
 Date Signature

Annotazioni : * BM = Fuori saldatura (Out of weld); W = In saldatura (Weld metal); H.A.Z. = Zona termicamente alterata (Heat affected zone);
 Notes : D = Duttile (ductile); F = Fragile (fragile);

<p>Esecutore Operator</p> <p align="center"></p> <p>Per. Ind. Luca Pofatto</p>	<p>L' Ispettore Inspector</p> <p align="center">_____</p>
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STUDIO TECNICO
Mario Cuzzolin s.r.l.

RAPPORTO DI PROVA

PROVA DI PIEGAMENTO

Bend test

Cliente/Customer :	Commessa/Job :	Rapporto/Report :
Officine Meccaniche Pellanda s.r.l.	2017/0188	0137 - 2017 / 1
Materiale/Material :	Data di prova/Test date :	Pagina/Page: 3 di/of 6
S355J2+N (EN 10025-2)	22/02/2017	
Saggio/Test piece :	Spessore/Thickness :	D.est./D.ext :
CIM	25,0 mm	\
		Tipo/Type :
		Butt full penetration

NORMA DI PROVA / TEST STANDARD

AWS D.1.1 - Figure 4.9 Side Bend Specimens (see 4.9.3.1)

Riferimenti/References	Tipo di prova/Type of test
AWS D1.1:2015	Con punzone/With a former

MACCHINE DI PROVA / TESTING MACHINE

Galdabini PM 20 matr. 24394 (02A) <input checked="" type="checkbox"/>	Galdabini PM 60 matr. 29618 (03A) <input type="checkbox"/>										
<table border="1"> <tr><td>Scala (KN)</td><td>Classe</td></tr> <tr><td>40</td><td>0,5</td></tr> <tr><td>200</td><td>0,5</td></tr> </table>	Scala (KN)	Classe	40	0,5	200	0,5	<table border="1"> <tr><td>Scala (KN)</td><td>Classe</td></tr> <tr><td>600</td><td>0,5</td></tr> </table>	Scala (KN)	Classe	600	0,5
Scala (KN)	Classe										
40	0,5										
200	0,5										
Scala (KN)	Classe										
600	0,5										

Cert. di taratura LAT 034/Certificate of calibration LAT 034:
N.374-16F & N.362-16F (01/06/2016)

CARATTERISTICHE PROVINO

Specimen characteristics

RISULTATI DELLE PROVE

Test results

Pos.	Numero saggio	Dimensioni		Piegata	Diametro mandrino	Distanza tra i rulli	Angolo	Allung.	Pos. e angolo di rottura	Tipo e dimensioni delle imperfezioni osservate
Position	Test piece n°	t _s	b	Bend	Diameter of the former	Distance bet. Rollers	Angle	Elongation	Failure position and angle	Defect Type and dimensions
		mm			mm	mm	°	mm		
1	CIM	25	10	SBB	40	63	180	\	\	No Defect
2	CIM	25	10	SBB	40	63	180	\	\	No Defect
3	CIM	25	10	SBB	40	63	180	\	\	No Defect
4	CIM	25	10	SBB	40	63	180	\	\	No Defect

SGS SGS ITALIA S.p.A.

Witnessed

Review

Noted for information only

22.02.17 Date Signature

Annotazioni :
Notes :

Esecutore
Operator

Per. Ind. Luca Poratto

L' Ispettore
Inspector

Mod.CFM.02 Rev. : 08 del 21.09.2016



STUDIO TECNICO
Mario Cuzzolin s.r.l.

RAPPORTO DI PROVA

PROVA DI RESILIENZA

Impact test

Cliente/Customer :	Commessa/Job :	Rapporto/Report :
Officine Meccaniche Pellanda s.r.l.	2017/0188	0137 - 2017 / 1
Materiale/Material :	Data di Prova/Test date :	Pagina/Page: 4 di/of 6
S355J2+N (EN 10025-2)	22/02/2017	
Saggio/Test piece :	Spessore/Thickness :	D.est./D.ext :
CIM	25,0 mm	\
		Tipo/Type :
		Butt full penetration

NORMA DI PROVA / TEST STANDARD

AWS D.1.1 - Part. D rif. 4.25 - Figure 4.28 CVN Test Specimen Locations (see 4.26.1)

Riferimenti/References
AWS D1.1:2015

MACCHINE DI PROVA / TESTING MACHINE

Impact 450 matr. VC17 (59B)

Digitale con risoluzione minima/Digital with minimum resolution = 0,1 J

Energia potenziale nominale/Potential nominal energy: 450 J

Cert. di taratura LAT 034 N.001-17R (12/01/2017)/Certificate of calibration LAT 034 N.001-17R (12/01/2017)

Taratura NIST del 26/01/2017/Calibration NIST of 01/26/2017

NOTE/Notes: Geometria del coltello/Knife geometry = **KV₂**

CARATTERISTICHE PROVINO

Specimen characteristics

RISULTATI DELLE PROVE

Test result

Pos. <i>Position</i>	Numero saggio <i>Test piece n°</i>	Tipo e Senso Posizione <i>Type and sense position</i>	Dimensioni <i>Dimension</i>		Temp. <i>Temp.</i>	Energia <i>Energy</i>	Duttilità <i>Ductility</i>	Espansione laterale <i>Lateral expansion</i>
			a	b				
			mm		°C	J	%	mm
1	CIM	VWT 0/1,5	10,0	10,0	- 20	106,2 - 164,3 - 129,0	\	\
2	CIM	VHT 1,0/1,5	10,0	10,0	- 20	184,1 - 181,6 - 134,7	\	\
3	CIM	VHT 5,0/1,5	10,0	10,0	- 20	160,5 - 108,5 - 65,7	\	\

SGS **SGS ITALIA S.p.A.**

Witnessed

Review

Noted for information only

22.02.17
Date Signature

8

Annotazioni :
Notes :

Esecutore
Operator

(Circular stamp: STUDIO TECNICO MARIO CUZZOLIN S.p.A. Laboratorio Prove)

Per. Ind. Luca Poretto

L'Ispettore
Inspector

Mod. CPM.02 Rev. : 08 del 21.09.2016



RAPPORTO DI PROVA

ESAME MACROGRAFICO

Macro examination

STUDIO TECNICO
Mario Cuzzolin s.r.l.

Cliente/Customer : Officine Meccaniche Pellanda s.r.l.	Commessa/Job : 2017/0188	Rapporto/Report : 0137 - 2017 / 1
Materiale base/Base material : S355J2+N (EN 10025-2)	Data di prova/Test date : 22/02/2017	Pagina/Page: 5 di/of 6
Saggio/Test piece : CIM	Spessore/Thickness : 25,0 mm	D.est./D.ext : \
		Tipo/Type : Butt full penetration

NORMA DI PROVA / TEST STANDARD
AWS D.1.1 (see 4.9.4)

Riferimenti/References
AWS D1.1:2015

Posizione/Position
Trasversale al giunto saldato

Condizioni superficiali/Surface finish
Lappatura secondo / Lapping second : ASTM E3-11

DATI / DATA		TECNICHE E MATERIALI IMPIEGATI / Materials and test method in according to ASTM E340-00	
Ingrandimento / Magnification : 1,4 x		Metodo d'attacco/Etching method : n.a.	<input checked="" type="checkbox"/> Immersione/dipping <input type="checkbox"/> Strofinamento/swabbing <input type="checkbox"/> Elettrolitico/Electrolytic
Lato "Z" cordone 1 : Lato "Z" cordone 2 : Dimensione gola "a" :	n.a. n.a. n.a.	Tipo d'attacco / Etching : Nital 5%	

DIFETTI / Imperfections	FOTOGRAFIA / Photograph
	M

NOTE / Notes Materiale d'apporto: Trattamento termico:	 SGS ITALIA S.p.A. Witnessed <input type="checkbox"/> Review <input checked="" type="checkbox"/> Noted for information only <input type="checkbox"/> 22.02.17 Date Signature	Ispettore Inspector <hr/>
Esecutore Operator Per. Ind. Luca Roratto		

Mod. MAC.02 Rev.: 07 del 21.09.2016

**WELDER, WELDING OPERATOR, OR TACK WELDER
PERFORMANCE QUALIFICATION TEST RECORD**

Type of Welder : **WELDER**

Name : _____ Identification No. CI _____
Welding Procedure Specification No. **02/17** Rev. **0** Date: **14.02.2017**

Variables	Record Actual Values Used in Qualification	Qualification Range
Process/Type	GMAW – Semiauto.	GMAW – Semi./Mech./Auto.
Electrode (single or multiple)	Single	Single
Type of Weld Joint	Plate - Groove	Groove, Fillet, Plug and Slot Welds (T-,Y-,K-Groove PJP only)
Position	Groove – 1G	Groove : F Fillet : F, H
Weld progression (Up/Downhill)	N.A.	N.A.
Backing (Yes or No)	No	Yes or no
Material Spec.	S355 J2+N - Group II to S355 J2+N - Group II	Group I to Group I Group II to Group I Group II to Group II
Base Metal		
Thickness : (Plate)		
Groove	25	3 to Unlimited
Fillet	n.a.	3 to Unlimited
Thickness : (Pipe/Tube)		
Groove	n.a.	3 to Unlimited
Fillet	n.a.	3 to Unlimited
Diameter : (Pipe)		
Groove	n.a.	≥ 600
Fillet	n.a.	All
Filler Metal		
Spec. No.	AWS A5.18	A5.18
Class	ER 70S-6	All
F-No.	/	/
Gas/Flux Type	A5.32 SG-ACO-3/1	A5.32 Approved
Other : GMAW Transfer Mode	Spray	Spray, Pulsed, Globular

VISUAL INSPECTION (4.9.1) Acceptable (Yes or No) : Yes

Guided Bend Test Results (4.9.3.1)

Type	Result	Type	Result
T-Side Bend	Satisfactory		
T-Side Bend	Satisfactory		

Fillet Test Results (4.22.2.2 and 4.22.4.1)

Appearance : **n.a.** Fillet size : **n.a.**

Fracture test root penetration : **n.a.** Macroetch : **n.a.**

(Describe the location, nature, and size or any crack or tearing of the specimen.)

Inspected by : **ST Mario Cuzzolin Srl**

Test N° : **0137-2017/2**



RADIOGRAPHIC TEST RESULTS (4.22.3.2) Film

Film Identification	Results	Remarks	Film Identification	Results	Remarks
n.a.					

Interpreted by :

Test N° :

We, the undersigned, certify that the statements in this record are correct and that the welds were prepared welded and tested in conformance with the requirements of Section 4 of AWS D1.1/D1.1M - 2015 Structural Welding Code-Steel.

Manufacturer: **PELLANDA Officine Meccaniche Srl**

Authorized by :

Date : **24.02.2017**

**WELDER, WELDING OPERATOR, OR TACK WELDER
PERFORMANCE QUALIFICATION TEST RECORD**

Type of Welder : **WELDER**
Name : _____ Identification No. TT _____
Welding Procedure Specification No. **02/17** Rev. **0** Date: **14.02.2017**

Variables	Record Actual Values Used in Qualification	Qualification Range
Process/Type	GMAW – Semiauto.	GMAW – Semi./Mech./Auto.
Electrode (single or multiple)	Single	Single
Type of Weld Joint	Plate - Groove	Groove, Fillet, Plug and Slot Welds (T-,Y-,K-Groove PJP only)
Position	Groove – 1G	Groove : F Fillet : F, H
Weld progression (Up/Downhill)	N.A.	N.A.
Backing (Yes or No)	No	Yes or no
Material Spec.	S355 J2+N - Group II to S355 J2+N - Group II	Group I to Group I Group II to Group I Group II to Group II
Base Metal		
Thickness : (Plate)		
Groove	25	3 to Unlimited
Fillet	n.a.	3 to Unlimited
Thickness : (Pipe/Tube)		
Groove	n.a.	3 to Unlimited
Fillet	n.a.	3 to Unlimited
Diameter : (Pipe)		
Groove	n.a.	≥ 600
Fillet	n.a.	All
Filler Metal		
Spec. No.	AWS A5.18	A5.18
Class	ER 70S-6	All
F-No.	/	/
Gas/Flux Type	A5.32 SG-ACO-3/1	A5.32 Approved
Other : GMAW Transfer Mode	Spray	Spray, Pulsed, Globular

VISUAL INSPECTION (4.9.1) Acceptable (Yes or No) : Yes
Guided Bend Test Results (4.9.3.1)

Type	Result	Type	Result
T-Side Bend	Satisfactory		
T-Side Bend	Satisfactory		

Fillet Test Results (4.22.2.2 and 4.22.4.1)

Appearance : n.a.	Fillet size : n.a.
Fracture test root penetration : n.a.	Macroetch : n.a.
(Describe the location, nature, and size or any crack or tearing of the specimen.)	

Inspected by : **ST Mario Cuzzolin Srl**

Test N° : **0137-2017/2**



RADIOGRAPHIC TEST RESULTS (4.22.3.2) Film

Film Identification	Results	Remarks	Film Identification	Results	Remarks
n.a.					

Interpreted by :

Test N° :

We, the undersigned, certify that the statements in this record are correct and that the welds were prepared welded and tested in conformance with the requirements of Section 4 of AWS D1.1/D1.1M - 2015 Structural Welding Code-Steel.

Manufacturer: **PELLANDA Officine Meccaniche Srl**

Authorized by :

Date : **24.02.2017**



STUDIO TECNICO
Mario Cuzzolin s.r.l

LABORATORIO/LABORATORY



LAB N°0303
Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

RAPPORTO DI PROVA N° : 0137 - 2017 / 2

Pagina/Page: 1 di/of 2

Test report n°

RICHIEDENTE : Officine Meccaniche Pellanda s.r.l.
Customer

INDIRIZZO : Via Facca, 89
Address 35013 - Cittadella (PD)

OGGETTO : Qualifica del saldatore secondo AWS D1.1.
Object

IDENTIFICAZIONE : Plate sp. 25,0 mm, mat. S355J2+N (EN 10025-2), proc di sald. GMAW.
Identification:

Saldatori: (CI) - (TT)

BOLLA DI ENTRATA : e-mail
Bill of entry Commessa SGS n° 75.17.13305

DATA : 17/02/2017
Date

IL PRESENTE RAPPORTO E' COSTITUITO DAI SEGUENTI RESOCONTI DI PROVA :
This report includes the following tests

Prova di Piega/Bend test

* Vedi pag./see page : 2 di/of 2

(* Prova non accreditata da ACCREDIA)

(* This test is not accredited by ACCREDIA)

DATA DI ESECUZIONE DELLA/E PROVA/E : 22/02/2017

Test date

LA RIPRODUZIONE PARZIALE DEL PRESENTE RAPPORTO DEVE ESSERE AUTORIZZATA PER ISCRITTO DAL RESPONSABILE DEL LABORATORIO
- Partial reproduction of this report must be authorized in writing by the laboratory manager.

I RISULTATI CONTENUTI NEL PRESENTE RAPPORTO SI RIFERISCONO ESCLUSIVAMENTE AGLI OGGETTI PROVATI
- The test results relate only to the tested item.

CAMPIONAMENTO EFFETTUATO DAL CLIENTE - Sampling executed by the customer

TEMPO DI CONSERVAZIONE - STORAGE TIME :

- CAMPIONE - SAMPLE = 90 giorni - 90 days
- RAPPORTO DI PROVA - TEST REPORT = 10 anni - 10 years
- REGISTRAZIONE DATI PROVE - DATA TEST RECORDING = 2 anni - 2 years

DATA DI EMISSIONE : 22/02/2017

Emission date

PRESIDENTE STUDIO TECNICO

Chairman

Per. Ing. Mario Cuzzolin





RAPPORTO DI PROVA

PROVA DI PIEGAMENTO

Bend test

STUDIO TECNICO
Mario Cuzzolin s.r.l

Ciente/Customer : Officine Meccaniche Pellanda s.r.l. Commessa/Job : 2017/0188 Rapporto/Report : 0137 - 2017 / 2
 Materiale/Material : S355J2+N (EN 10025-2) Data di prova/Test date : 22/02/2017 Pagina/Page: 2 di/of 2
 Saggio/Test piece : CI - TT Spessore/Thickness : 25,0 mm D.est./D.ext : \ Tipo/Type : Butt full penetration

NORMA DI PROVA / TEST STANDARD
AWS D.1.1 - Figure 4.9 Side Bend Specimens (see 4.9.3.1)

Riferimenti/References : AWS D1.1:2015 Tipo di prova/Type of test : Con punzone/With a former

MACCHINE DI PROVA / TESTING MACHINE

Galdabini PM 20 matr. 24394 (02A) <input checked="" type="checkbox"/>		Galdabini PM 60 matr. 29618 (03A) <input type="checkbox"/>	
Scala (KN)	Classe	Scala (KN)	Classe
40	0,5	600	0,5
200	0,5		

Cert. di taratura LAT 034/Certificate of calibration LAT 034:
N.374-16F & N.362-16F (01/06/2016)

CARATTERISTICHE PROVINO

Specimen characteristics

RISULTATI DELLE PROVE

Test results

Pos.	Numero saggio	Dimensioni		Piegatura	Diametro mandrino	Distanza tra i rulli	Angolo	Allung.	Pos. e angolo di rottura	Tipo e dimensioni delle imperfezioni osservate
Position	Test piece n°	t _s	b	Bend	Diameter of the former	Distance bet. Rollers	Angle	Elongation	Failure position and angle	Defect Type and dimensions
		mm			mm	mm	°	mm		
1	CI	25	10	SBB	40	63	180	\	\	No Defect
2	CI	25	10	SBB	40	63	180	\	\	No Defect

1	TT	25	10	SBB	40	63	180	\	\	No Defect
2	TT	25	10	SBB	40	63	180	\	\	No Defect

SGS SGS ITALIA S.p.A.

Witnessed
 Review
 Noted for information only

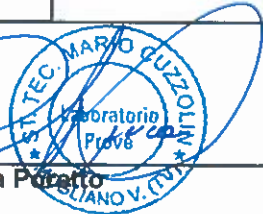
22-02-17
 Date Signature

8

Annotazioni :

Notes :

Esecutore
Operator



Per. Ind. Luca Povero

L' Ispettore
Inspector