



PEDRO COSTA FREIRE
CONSTRUÇÕES, S.A.

Welding Certification type by PCF-Construções S.A.

Designation		Standard	Metal group	Welding process													Notes	
Nº	Type			Pipe	Plate	BW	FW	Filler Metal	Tickness	Diameter	H-L045	ss	nb	ml	PE	PD	Certification	Site
1	141	EN 287-1	6.2 (P24)	X		X		S	6,50	60,30	X	X	X			Veritas	Power station	
2	141/111	EN 287-1	6.4 (P91)	X		X		S/B	18,26	168,30	X	X	X			Veritas	Power station	
3	141	EN 287-1	6.4 (P91)	X		X		S	4,55	33,40	X	X	X			Veritas	Power station	
4	141	EN 287-1	8	X		X		S	1,60	13,50	X	X	X			Veritas	Pharmaceutical/food	
5	141	EN 287-1	8.1	X		X		S	3,02	13,70	X	X	X			Veritas	Pharmaceutical/food	
6	141	EN 287-1	8	X		X		S	2,00	27,00	X	X	X			Veritas	Pharmaceutical/food	
7	141	EN 287-1	8.1	X		X		S	2,00	60,30	X	X	X			Veritas	Pharmaceutical/food	
8	141/111	EN 287-1	11.1	X		X		S/B	13,50	168,30	X	X	X			Veritas	Pharmaceutical/food	
9	141/111	EN 287-1	1.1	X		X		S/B	11,30	88,90	X	X	X			Veritas	Shipyard	
10	141	EN 287-1	1.1	X		X		S	2,35	13,70	X	X	X			Veritas	Power station	
11	141	EN 287-1	5	X		X		S	1,60	21,30	X	X	X			Veritas	Power station	
12	141	EN 287-1	5	X		X		S	4,00	48,00	X	X	X			Veritas	Power station	



PEDRO COSTA FREIRE
CONSTRUÇÕES, S.A.

Welding Certification type by PCF-Construções S.A.

Designation		Standard	Metal group	Welding process												Notes		
Nº	Type			Pipe	Plate	BW	FW	Filler Metal	Tickness	Diameter	H-L045	ss	nb	ml	PE	PD	Certification	Site
13	141	EN 287-1	10.1	X		X		S	6,00	88,90	X	X	X			Veritas	Refinery/Chemical	
14	135	EN 287-1	1.3		X	X		S	14,00	-		X	X		X	Veritas	Off shore	
15	135	EN 287-1	1.3		X		X	S	14,00	-				X	X	Veritas	Off shore	
16	136	EN 287-1	1.3		X	X		P	14,00	-			X		X	Veritas	Off shore	
17	136	EN 287-1	1.3		X		X	P	14,00	-			X		X	Veritas	Off shore	
18	136/138	EN 287-1	1.3		X	X		P/M	14,00 (4/10)	-			X	X		X	Veritas	Off shore
19	135/136	EN 287-1	1.3		X	X		S/P	14,00(4/10)	-			X	X		X	Veritas	Off shore
20	138/136	EN 287-1	1.3	X		X		M/P	12,50(3/9,5)	168,30	X	X	X			Veritas	Off shore	
21	141	EN 287-1	8	X		X		S	5	48,30	X	X	X			Veritas	Refinery/Chemical	
20	141	EN 287-1	8	X		X		S	7,14	48,30	X	X	X			Veritas	Refinery/Chemical	
21	141	EN 287-1	VM12	X		X		VM12-SHC	5,00	54,00	X	X	X			Veritas	Power station	
22	141	EN 287-1	8.1	X		X		S	7,14	48,30	X	X	X			Veritas	Power station	



PEDRO COSTA FREIRE
CONSTRUÇÕES, S.A.

Welding Certification type by PCF-Construções S.A.

Designation		Standard	Metal group	Welding process												Notes	
Nº	Type			Pipe	Plate	BW	FW	Filler Metal	Thickness	Diameter	H-L045	ss	nb	ml	PE	PD	Certification
23	141	EN 287-1	8.1	X		X		S	3,02	13,70	X	X	X			Veritas	Pharmaceutical/food
24	141	EN 287-1	8.1	X		X		S	2,41	10,30	X	X	X			Veritas	Pharmaceutical/food

note: thickness/diameter in millimeters (mm)

note: item nº 18 represents the filler material API-5L-X65 | item nº 11 represents the filler metal Dúplex