A01

ArcelorMittal Gipuzkoa, S.L.U. 290966
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

CE 09-0099 AMOL-2/08-CPR-13-1 EN 10025-1:2004

AENOR Empresa Registrada ISO 9001 ER-0036/1992

ArcelorMittal

CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

OLA P-59266

DISCHARGE ADDRESS	CUSTOMER
ArcelorMittal Gipuzkoa, S.L.U. **Neew Harbour Road** **HAMWORTHY / POOLE** **GRAN BRETAÑA**	**A.J.N. STEELSTOCK LTD** ICKNIELD WAY / KENTFORD NEWMARKET GRAN BRETAÑA

SHIPPED AND CERTIFIED BY	CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		**PASAJES, SPAIN**
	PORT OF DISCHARGE	VESSEL
	POOLE	**AMADEUS SILVER (UK918)**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704995	**E-63547/1100523732**	**68791**	**05/06/2018**

HOT ROLLED STEEL STRUCTURALS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
Pintar Testas: VERDE **Instrucciones de carga: carga con alma horizontal**							
U BEAMS 203x133x25	**6,1**	**6**	**16**	**96**	**2450**	**14.700**	**181055,181057**
U BEAMS 203x133x25	**8**	**5**	**16**	**80**	**3213**	**16.065**	**181052,181053**
U BEAMS 203x133x25	**9,5**	**4**	**16**	**64**	**3815**	**15.260**	**181152**
U BEAMS 203x133x25	**11**	**3**	**16**	**48**	**4418**	**13.254**	**181062,181147**
U BEAMS 203x133x25	**12,2**	**4**	**16**	**64**	**4900**	**19.600**	**181052**
U BEAMS 203x133x25	**13**	**3**	**14**	**42**	**4568**	**13.704**	**181056,181058**
U BEAMS 203x133x25	**14**	**5**	**14**	**70**	**4920**	**24.600**	**181061,181147**
U BEAMS 203x133x25	**15,5**	**5**	**12**	**60**	**4669**	**23.345**	**181060,181150,181151, 181153**
U BEAMS 203x133x25	**16,5**	**4**	**12**	**48**	**4970**	**19.880**	**181054**
U BEAMS 203x133x25	**18,3**	**4**	**10**	**40**	**4593**	**18.372**	**181150,181151**
U BEAMS 203x133x30	**6,1**	**5**	**16**	**80**	**2928**	**14.640**	**181143,181145**
U BEAMS 203x133x30	**8**	**4**	**16**	**64**	**3840**	**15.360**	**181134,181136,181137, 181138**
U BEAMS 203x133x30	**11**	**3**	**14**	**42**	**4620**	**13.860**	**181179,181180**
U BEAMS 203x133x30	**12,2**	**4**	**14**	**56**	**5124**	**20.496**	**181136,181138,181145**
U BEAMS 203x133x30	**13**	**3**	**12**	**36**	**4680**	**14.040**	**181132,181133**
U BEAMS 203x133x30	**14**	**5**	**12**	**60**	**5040**	**25.200**	**181134,181135,181136**
U BEAMS 203x133x30	**15,5**	**4**	**10**	**40**	**4650**	**18.600**	**181177,181179,181181**
U BEAMS 203x133x30	**16,5**	**3**	**10**	**30**	**4950**	**14.850**	**181141**
U BEAMS 203x133x30	**18,3**	**3**	**8**	**24**	**4392**	**13.176**	**181143**
U BEAMS 254x146x31	**8**	**3**	**14**	**42**	**3483**	**10.449**	**180645,180646**
U BEAMS 254x146x31	**9,5**	**4**	**14**	**56**	**4136**	**16.544**	**180628,180632,180634, 180635**

Despatch No.: 1007998 S/O No.: 2280.03 Cust Name: Weldrite Structures Ltd
Cust Ref: WSL9946/C1255/L2 Parent: 290766 Cast No.....: 180524 Weight:
Pieces: 12 Size: 14.000 Message: AJN Steelstock Ltd Product: UB406178-60
Child Batch No: 290766

A01

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CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

OLA P-59266

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
U BEAMS 254x146x31	11	3	14	42	4789	14.367	180646,180666,180671, 180672,180673,180675
U BEAMS 254x146x31	12,2	3	12	36	4553	13.659	180631,180632,180636
U BEAMS 254x146x31	13	2	12	24	4852	9.704	180648,180669
U BEAMS 254x146x31	14	6	10	60	4354	26.124	180625,180626,180628
U BEAMS 254x146x31	15,5	5	10	50	4821	24.105	180644,180645,180646, 180647,180676,180677, 180678
U BEAMS 254x146x31	16,5	4	10	40	5132	20.528	180639,180640,180641, 180642,180643
U BEAMS 254x146x31	18,3	5	8	40	4553	22.765	180666,180668,180669, 180672
U BEAMS 305x127x37	8	2	16	32	4736	9.472	180770,180772
U BEAMS 305x127x37	11	2	12	24	4884	9.768	180767,180775
U BEAMS 305x127x37	15,5	2	8	16	4588	9.176	180770
U BEAMS 356x127x39	9,5	3	12	36	4457	13.371	181041,181042
U BEAMS 356x127x39	12,2	2	10	20	4770	9.540	181043
U BEAMS 356x127x39	14	3	8	24	4379	13.137	181040
U BEAMS 356x127x39	15,5	3	8	24	4848	14.544	181041
U BEAMS 406x178x54	9,5	4	5	20	2570	10.280	180534,180541
U BEAMS 406x178x54	11	3	5	15	2976	8.928	180540
U BEAMS 406x178x54	12,2	3	5	15	3300	9.900	180541,180542
U BEAMS 406x178x54	14	5	4	20	3030	15.150	180533
U BEAMS 406x178x54	15,5	4	4	16	3354	13.416	180538,180540
U BEAMS 406x178x54	16,5	4	3	12	2678	10.712	180533,180534
U BEAMS 406x178x54	18,3	3	3	9	2970	8.910	180540,180541
U BEAMS 406x178x60	9,5	4	5	20	2855	11.420	180523,180524
U BEAMS 406x178x60	11	3	5	15	3306	9.918	180527,180528
U BEAMS 406x178x60	12,2	3	5	15	3666	10.998	180523,180524
U BEAMS 406x178x60	14	4	4	16	3366	13.464	180524,180525
U BEAMS 406x178x60	15,5	4	4	16	3726	14.904	180526,180527
U BEAMS 406x178x60	16,5	3	3	9	2975	8.925	180528,180529
U BEAMS 406x178x60	18,3	3	3	9	3299	9.897	180529
U BEAMS 533x210x82	11	2	5	10	4521	9.042	180538
U BEAMS 533x210x82	12,2	2	4	8	4011	8.022	180525,180526
U BEAMS 533x210x82	14	3	4	12	4603	13.809	180535,180536,180538
U BEAMS 533x210x82	15,5	5	4	20	5096	25.480	180545,180547
U BEAMS 533x210x82	16,5	4	3	12	4069	16.276	180531,180532,180534
U BEAMS 533x210x82	18,3	4	3	12	4513	18.052	180545,180547
U BEAMS 533x210x92	14	2	4	8	5158	10.316	180558,180559

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
U BEAMS 533x210x92	**15,5**	**2**	**3**	**6**	**4283**	**8.566**	**180554**
U BEAMS 533x210x92	**16,5**	**2**	**3**	**6**	**4559**	**9.118**	**180557,180558**
U BEAMS 533x210x92	**18,3**	**3**	**3**	**9**	**5056**	**15.168**	**180554,180555**
U COLUMNS 152x152x30	**6,1**	**3**	**18**	**54**	**3294**	**9.882**	**181167**
U COLUMNS 152x152x30	**8**	**2**	**18**	**36**	**4320**	**8.640**	**181171**
U COLUMNS 152x152x30	**9,5**	**4**	**15**	**60**	**4275**	**17.100**	**181161,181162,181165**
U COLUMNS 152x152x30	**11**	**3**	**15**	**45**	**4950**	**14.850**	**181172**
U COLUMNS 152x152x30	**12,2**	**7**	**12**	**84**	**4392**	**30.744**	**181162,181163**
U COLUMNS 152x152x30	**13**	**2**	**12**	**24**	**4680**	**9.360**	**181173,181174**
U COLUMNS 152x152x30	**14**	**5**	**12**	**60**	**5040**	**25.200**	**181166,181167**
U COLUMNS 152x152x30	**15,5**	**4**	**9**	**36**	**4185**	**16.740**	**181171,181172**
U COLUMNS 152x152x30	**16,5**	**2**	**9**	**18**	**4455**	**8.910**	**181175**

TOTAL BUNDLES **240** TOTAL WEIGHT **998.352 Kg.**

A02 EN 10204/3.1 A03

S 355 J0+M - EN 10025-2/2004 SUITABLE FOR GALVANIZING (B01/B02/B03)

Tolerancias dimensionales y de forma - Tolerances on shape and dimensions : EN 10.034

C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-203x133x25	181052	,08	,99	,21	,024	,017	,010	,027	,160	,380	,150	,028	,022						,32
UB-203x133x25	181053	,07	1,03	,19	,028	,020	,012	,029	,180	,400	,190	,032	,020						,32
UB-203x133x25	181054	,09	,99	,20	,019	,018	,009	,029	,130	,350	,160	,023	,018						,32
UB-203x133x25	181055	,12	1,01	,19	,021	,017	,009	,028	,110	,340	,140	,026	,019						,35
UB-203x133x25	181056	,10	1,01	,20	,024	,018	,010	,028	,140	,330	,140	,028	,020						,34
UB-203x133x25	181057	,08	1,00	,19	,021	,021	,009	,030	,140	,360	,130	,024	,017						,31
UB-203x133x25	181058	,07	1,00	,17	,021	,022	,010	,023	,110	,330	,130	,020	,017						,30
UB-203x133x25	181060	,09	1,10	,21	,031	,016	,009	,023	,120	,290	,140	,021	,018						,33
UB-203x133x25	181061	,07	1,04	,17	,018	,020	,009	,026	,100	,310	,130	,018	,015						,30
UB-203x133x25	181062	,09	,99	,20	,016	,019	,008	,025	,100	,320	,140	,019	,018						,31
UB-203x133x25	181147	,08	,98	,17	,024	,024	,009	,025	,130	,410	,140	,022	,017						,32
UB-203x133x25	181150	,06	,95	,20	,018	,023	,009	,027	,110	,310	,120	,030	,012						,28
UB-203x133x25	181151	,06	,99	,20	,022	,022	,009	,028	,100	,310	,130	,031	,014						,29
UB-203x133x25	181152	,07	1,02	,20	,024	,020	,010	,028	,130	,370	,160	,036	,015						,31
UB-203x133x25	181153	,08	,99	,20	,019	,021	,010	,028	,140	,350	,170	,041	,017						,32
UB-203x133x30	181132	,08	1,03	,20	,032	,019	,008	,031	,150	,360	,180	,039	,019						,33
UB-203x133x30	181133	,10	,99	,22	,027	,018	,011	,029	,200	,310	,130	,031	,022						,34
UB-203x133x30	181134	,06	1,02	,19	,027	,024	,012	,031	,140	,330	,130	,031	,022						,30
UB-203x133x30	181135	,07	1,04	,20	,024	,022	,011	,029	,200	,330	,140	,025	,023						,33
UB-203x133x30	181136	,08	1,04	,17	,026	,021	,010	,030	,180	,350	,140	,021	,021						,33
UB-203x133x30	181137	,11	,98	,22	,027	,019	,008	,032	,160	,340	,130	,021	,018						,35
UB-203x133x30	181138	,12	1,04	,21	,028	,023	,010	,032	,150	,340	,130	,019	,021						,36
UB-203x133x30	181141	,08	,97	,17	,024	,023	,010	,027	,140	,320	,170	,026	,017						,31
UB-203x133x30	181143	,09	,98	,21	,032	,020	,009	,027	,190	,390	,170	,026	,014						,34

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OLA P-59266

C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-203x133x30	181145	,08	1,00	,19	,031	,025	,009	,024	,130	,380	,150	,030	,013						,32
UB-203x133x30	181177	,10	1,04	,19	,021	,020	,010	,024	,140	,330	,150	,023	,014						,34
UB-203x133x30	181179	,07	1,03	,19	,021	,024	,010	,026	,120	,430	,160	,028	,013						,31
UB-203x133x30	181180	,07	1,01	,16	,026	,024	,009	,026	,130	,400	,150	,029	,014						,31
UB-203x133x30	181181	,08	1,00	,20	,019	,021	,008	,026	,130	,380	,160	,031	,015						,32
UB-254x146x31	180625	,09	1,03	,21	,023	,019	,011	,032	,140	,390	,160	,036	,015						,34
UB-254x146x31	180626	,09	1,05	,19	,022	,017	,011	,029	,150	,400	,160	,035	,015						,34
UB-254x146x31	180628	,13	1,02	,23	,027	,019	,009	,027	,150	,400	,170	,037	,015						,38
UB-254x146x31	180631	,07	1,00	,20	,023	,022	,011	,027	,120	,380	,150	,034	,011						,31
UB-254x146x31	180632	,08	1,03	,19	,026	,020	,011	,027	,170	,420	,140	,035	,015						,34
UB-254x146x31	180634	,11	,98	,20	,026	,020	,011	,024	,150	,410	,150	,041	,011						,35
UB-254x146x31	180635	,11	1,04	,19	,028	,020	,011	,029	,150	,400	,150	,038	,015						,36
UB-254x146x31	180636	,11	1,05	,21	,033	,020	,010	,033	,170	,440	,150	,035	,021						,37
UB-254x146x31	180639	,07	1,03	,18	,023	,023	,011	,034	,130	,350	,160	,046	,017						,32
UB-254x146x31	180640	,08	,98	,19	,024	,022	,011	,031	,120	,330	,160	,043	,013						,31
UB-254x146x31	180641	,08	,98	,17	,026	,020	,011	,029	,190	,350	,190	,047	,016						,33
UB-254x146x31	180642	,08	,97	,18	,025	,022	,011	,024	,160	,350	,170	,045	,018						,32
UB-254x146x31	180643	,09	1,03	,21	,024	,022	,011	,030	,140	,380	,160	,034	,018						,34
UB-254x146x31	180644	,10	,97	,21	,024	,022	,011	,029	,140	,340	,170	,039	,013						,34
UB-254x146x31	180645	,11	1,00	,20	,027	,025	,011	,027	,150	,350	,150	,042	,017						,35
UB-254x146x31	180646	,08	1,02	,20	,024	,026	,011	,026	,130	,370	,170	,035	,018						,32
UB-254x146x31	180647	,09	1,03	,21	,023	,025	,012	,030	,130	,360	,160	,032	,016						,33
UB-254x146x31	180648	,06	1,04	,20	,020	,026	,011	,028	,130	,350	,170	,036	,018						,31
UB-254x146x31	180666	,08	,97	,19	,025	,018	,011	,028	,180	,390	,140	,040	,012						,33
UB-254x146x31	180668	,08	1,00	,16	,024	,021	,011	,028	,150	,390	,190	,048	,015						,33
UB-254x146x31	180669	,09	,97	,17	,023	,020	,011	,028	,150	,350	,220	,049	,013						,33
UB-254x146x31	180671	,07	1,01	,21	,023	,023	,011	,027	,150	,330	,160	,044	,014						,31
UB-254x146x31	180672	,09	1,06	,22	,027	,023	,011	,031	,170	,350	,200	,054	,015						,35
UB-254x146x31	180673	,06	1,04	,18	,025	,023	,011	,029	,180	,330	,200	,050	,016						,32
UB-254x146x31	180675	,07	,97	,20	,022	,024	,009	,028	,140	,300	,170	,042	,012						,31
UB-254x146x31	180676	,06	,98	,20	,026	,024	,008	,028	,140	,340	,140	,036	,015						,30
UB-254x146x31	180677	,07	1,01	,19	,029	,025	,012	,026	,150	,380	,160	,038	,017						,32
UB-254x146x31	180678	,07	1,01	,15	,025	,023	,012	,029	,140	,390	,150	,026	,018						,31
UB-305x127x37	180767	,07	1,05	,20	,024	,022	,011	,031	,160	,330	,160	,037	,017						,33
UB-305x127x37	180770	,08	1,01	,19	,027	,021	,010	,026	,150	,380	,180	,035	,018						,32
UB-305x127x37	180772	,08	1,00	,19	,024	,020	,012	,026	,110	,340	,170	,032	,014						,31
UB-305x127x37	180775	,06	1,01	,20	,024	,020	,010	,026	,170	,350	,150	,044	,014						,31
UB-356x127x39	181040	,07	,98	,18	,028	,022	,011	,025	,150	,310	,170	,038	,017						,30
UB-356x127x39	181041	,06	,97	,18	,027	,023	,008	,026	,130	,330	,160	,026	,019						,29
UB-356x127x39	181042	,07	,99	,20	,023	,022	,009	,029	,090	,370	,150	,027	,018						,30
UB-356x127x39	181043	,08	1,02	,20	,025	,024	,012	,028	,080	,410	,210	,024	,020						,32
UB-406x178x54	180533	,06	1,01	,17	,027	,019	,010	,031	,150	,390	,150	,029	,013						,31
UB-406x178x54	180534	,06	1,02	,18	,024	,022	,009	,029	,150	,440	,160	,035	,015						,32
UB-406x178x54	180538	,07	1,00	,20	,023	,023	,010	,023	,130	,380	,190	,032	,019						,31
UB-406x178x54	180540	,08	1,01	,19	,034	,018	,010	,027	,200	,400	,150	,023	,013						,34
UB-406x178x54	180541	,07	1,04	,20	,031	,018	,011	,022	,190	,410	,140	,031	,016						,33
UB-406x178x54	180542	,06	1,00	,19	,029	,022	,012	,024	,160	,410	,140	,024	,017						,31
UB-406x178x60	180523	,11	1,00	,22	,032	,019	,011	,040	,230	,370	,160	,032	,014						,37

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ArcelorMittal Gipuzkoa, S.L.U. 290766
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TELEF. (943) 80.50.00 - FAX (943) 88.04.04

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ISO 9001
ER-0036/1992

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CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

OLA P-59266

C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
		C	Mn	Si	P	S	N	V	Cr	Cu	Ni	Mo	Nb						Cev
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
UB-406x178x60	180524	,07	1,01	,19	,024	,021	,011	,033	,200	,340	,160	,031	,013						,32
UB-406x178x60	180525	,08	1,03	,18	,023	,020	,012	,034	,180	,370	,160	,031	,013						,33
UB-406x178x60	180526	,07	1,04	,20	,030	,025	,011	,032	,180	,360	,160	,034	,016						,33
UB-406x178x60	180527	,08	1,02	,21	,033	,027	,009	,033	,180	,370	,140	,032	,016						,33
UB-406x178x60	180528	,07	1,08	,22	,034	,021	,008	,028	,270	,430	,170	,030	,015						,35
UB-406x178x60	180529	,06	1,06	,20	,032	,020	,009	,029	,200	,420	,160	,027	,015						,33
UB-533x210x82	180525	,08	1,03	,18	,023	,020	,012	,034	,180	,370	,160	,031	,013						,33
UB-533x210x82	180526	,07	1,04	,20	,030	,025	,011	,032	,180	,360	,160	,034	,016						,33
UB-533x210x82	180531	,08	1,03	,18	,034	,021	,010	,030	,230	,400	,160	,031	,012						,34
UB-533x210x82	180532	,07	1,02	,19	,033	,021	,011	,032	,190	,390	,170	,031	,011						,32
UB-533x210x82	180534	,06	1,02	,18	,024	,022	,009	,029	,150	,440	,160	,035	,015						,32
UB-533x210x82	180535	,09	1,03	,19	,020	,021	,009	,032	,120	,410	,200	,036	,014						,34
UB-533x210x82	180536	,07	1,03	,19	,018	,020	,009	,032	,110	,420	,190	,037	,012						,32
UB-533x210x82	180538	,07	1,00	,20	,023	,023	,010	,023	,130	,380	,190	,032	,019						,31
UB-533x210x82	180545	,11	,97	,18	,022	,017	,011	,030	,170	,440	,200	,042	,015						,36
UB-533x210x82	180547	,09	1,02	,24	,026	,019	,009	,031	,140	,360	,140	,042	,016						,33
UB-533x210x92	180554	,09	1,02	,19	,023	,021	,009	,027	,160	,400	,190	,038	,015						,34
UB-533x210x92	180555	,07	1,03	,17	,027	,023	,009	,029	,160	,380	,150	,027	,017						,32
UB-533x210x92	180557	,09	1,02	,17	,023	,022	,008	,032	,100	,360	,140	,025	,015						,32
UB-533x210x92	180558	,09	1,02	,18	,033	,020	,010	,033	,160	,360	,170	,028	,017						,34
UB-533x210x92	180559	,07	1,04	,17	,034	,025	,009	,032	,150	,500	,160	,033	,014						,33
UC-152x152x30	181161	,07	1,04	,20	,020	,022	,009	,026	,140	,340	,200	,034	,019						,32
UC-152x152x30	181162	,06	1,05	,17	,021	,021	,009	,026	,140	,370	,210	,026	,021						,32
UC-152x152x30	181163	,07	,99	,20	,026	,023	,010	,026	,160	,390	,220	,042	,016						,32
UC-152x152x30	181165	,08	,98	,22	,023	,022	,008	,028	,160	,320	,210	,034	,016						,32
UC-152x152x30	181166	,07	1,01	,21	,027	,023	,009	,026	,220	,320	,220	,037	,017						,33
UC-152x152x30	181167	,09	1,04	,19	,027	,022	,011	,029	,260	,370	,210	,039	,020						,37
UC-152x152x30	181171	,08	1,04	,21	,026	,023	,009	,025	,140	,360	,180	,034	,015						,33
UC-152x152x30	181172	,08	1,02	,22	,023	,022	,011	,026	,150	,380	,160	,029	,015						,33
UC-152x152x30	181173	,09	1,03	,21	,021	,023	,009	,026	,130	,380	,160	,024	,015						,33
UC-152x152x30	181174	,12	1,05	,25	,018	,020	,008	,025	,120	,330	,150	,023	,015						,36
UC-152x152x30	181175	,09	,98	,21	,015	,020	,009	,030	,150	,370	,210	,033	,014						,33

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C50	C03	C40/41	C42			C43
UB-203x133x25	181052	419	520	34,3		0°	5	38	47	71	52
UB-203x133x25	181053	426	524	33,7		0°	5	67	67	77	70
UB-203x133x25	181054	439	549	34,3		0°	5	47	52	63	54
UB-203x133x25	181055	418	536	33,8		0°	5	42	45	53	47
UB-203x133x25	181056	425	542	34,3		0°	5	66	52	53	57
UB-203x133x25	181057	411	507	34,2		0°	5	57	59	86	67
UB-203x133x25	181058	406	498	31,8		0°	5	41	74	62	59
UB-203x133x25	181060	434	517	29,1		0°	5	81	84	80	82
UB-203x133x25	181061	414	516	28,7		0°	5	71	66	66	68
UB-203x133x25	181062	417	514	32,7		0°	5	86	75	77	79
UB-203x133x25	181147	416	527	32,7		0°	5	63	79	59	67
UB-203x133x25	181150	412	522	33,		0°	5	89	60	73	74

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CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

OLA P-59266

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180º	ºC	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C50	C03	C40/41	C42			C43
UB-203x133x25	181151	423	513	34,6		0º	5	82	61	62	68
UB-203x133x25	181152	422	523	32,4		0º	5	36	63	42	47
UB-203x133x25	181153	425	515	33,6		0º	5	94	94	92	93
UB-203x133x30	181132	446	547	30,2		0º	7,5	138	160	135	144
UB-203x133x30	181133	448	550	30,2		0º	7,5	135	159	143	146
UB-203x133x30	181134	445	546	31,5		0º	7,5	166	154	134	151
UB-203x133x30	181135	447	539	30,3		0º	7,5	158	145	145	149
UB-203x133x30	181136	444	574	33,		0º	7,5	115	121	106	114
UB-203x133x30	181137	444	529	30,		0º	7,5	134	155	160	150
UB-203x133x30	181138	445	585	28,7		0º	7,5	105	127	102	111
UB-203x133x30	181141	448	570	29,6		0º	7,5	64	108	88	87
UB-203x133x30	181143	433	541	33,9		0º	7,5	66	67	52	62
UB-203x133x30	181145	423	513	34,		0º	7,5	126	132	84	114
UB-203x133x30	181177	440	583	30,3		0º	7,5	40	39	42	40
UB-203x133x30	181179	431	530	31,7		0º	7,5	133	138	85	119
UB-203x133x30	181180	428	522	30,8		0º	7,5	144	143	122	136
UB-203x133x30	181181	443	541	31,1		0º	7,5	148	132	110	130
UB-254x146x31	180625	449	561	30,3		0º	5	67	92	96	85
UB-254x146x31	180626	447	567	33,3		0º	5	63	56	57	59
UB-254x146x31	180628	441	546	31,4		0º	5	56	80	73	70
UB-254x146x31	180631	447	548	34,7		0º	5	74	55	56	62
UB-254x146x31	180632	404	512	31,8		0º	5	65	57	73	65
UB-254x146x31	180634	430	561	32,3		0º	5	40	37	38	38
UB-254x146x31	180635	445	563	32,3		0º	5	39	34	39	37
UB-254x146x31	180636	448	560	31,7		0º	5	34	66	31	44
UB-254x146x31	180639	441	553	32,3		0º	5	65	59	63	62
UB-254x146x31	180640	449	554	32,5		0º	5	67	65	70	67
UB-254x146x31	180641	440	553	32,3		0º	5	46	42	45	44
UB-254x146x31	180642	428	530	32,3		0º	5	79	84	84	82
UB-254x146x31	180643	443	550	32,		0º	5	60	37	45	47
UB-254x146x31	180644	440	562	31,8		0º	5	30	35	50	38
UB-254x146x31	180645	445	558	32,1		0º	5	38	52	42	44
UB-254x146x31	180646	448	561	31,7		0º	5	42	30	36	36
UB-254x146x31	180647	430	539	32,4		0º	5	58	66	71	65
UB-254x146x31	180648	448	558	30,		0º	5	30	37	41	36
UB-254x146x31	180666	448	559	31,5		0º	5	79	64	46	63
UB-254x146x31	180668	449	554	34,3		0º	5	60	64	98	74
UB-254x146x31	180669	446	560	30,5		0º	5	53	83	78	71
UB-254x146x31	180671	441	554	34,3		0º	5	31	36	48	38
UB-254x146x31	180672	431	527	31,2		0º	5	65	86	87	79
UB-254x146x31	180673	432	533	31,7		0º	5	64	74	73	70
UB-254x146x31	180675	434	581	31,7		0º	5	46	40	73	53
UB-254x146x31	180676	436	490	31,1		0º	5	65	73	75	71
UB-254x146x31	180677	414	521	31,7		0º	5	65	69	68	67
UB-254x146x31	180678	431	528	32,		0º	5	58	76	64	66
UB-305x127x37	180767	447	539	31,5		0º	7,5	144	145	117	135
UB-305x127x37	180770	435	531	33,2		0º	7,5	118	114	132	121
UB-305x127x37	180772	429	516	30,9		0º	7,5	168	151	143	154

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CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE

OLA P-59266

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5,65VSo	Doblado 180º	ºC	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C50	C03	C40/41	C42			C43
UB-305x127x37	180775	430	531	30,3		0º	7,5	143	157	129	143
UB-356x127x39	181040	435	531	31,6		0º	7,5	129	128	137	131
UB-356x127x39	181041	419	513	31,7		0º	7,5	34	133	158	108
UB-356x127x39	181042	431	524	31,1		0º	7,5	115	140	144	133
UB-356x127x39	181043	439	534	32,6		0º	7,5	78	118	110	102
UB-406x178x54	180533	449	546	30,		0º	7,5	167	126	119	137
UB-406x178x54	180534	439	543	32,3		0º	7,5	90	109	33	77
UB-406x178x54	180538	447	545	31,7		0º	7,5	117	123	122	121
UB-406x178x54	180540	449	580	27,9		0º	7,5	34	53	37	41
UB-406x178x54	180541	445	556	30,		0º	7,5	133	130	118	127
UB-406x178x54	180542	443	573	29,5		0º	10	74	66	61	67
UB-406x178x60	180523	443	610	26,8		0º	10	60	137	88	95
UB-406x178x60	180524	447	588	28,9		0º	10	83	93	78	85
UB-406x178x60	180525	446	558	32,6		0º	10	96	100	92	96
UB-406x178x60	180526	446	558	32,9		0º	10	107	78	66	84
UB-406x178x60	180527	440	545	32,6		0º	10	74	75	52	67
UB-406x178x60	180528	447	568	31,5		0º	10	45	34	30	36
UB-406x178x60	180529	444	547	31,		0º	10	131	108	132	124
UB-533x210x82	180525	446	544	30,7		0º	10	82	84	81	82
UB-533x210x82	180526	425	499	33,3		0º	10	68	61	61	63
UB-533x210x82	180531	437	542	31,5		0º	10	50	73	36	53
UB-533x210x82	180532	431	535	31,5		0º	10	116	53	83	84
UB-533x210x82	180534	428	537	31,7		0º	10	104	104	82	97
UB-533x210x82	180535	437	531	32,		0º	10	92	136	127	118
UB-533x210x82	180536	430	521	32,6		0º	10	164	151	97	137
UB-533x210x82	180538	426	526	32,9		0º	10	87	147	152	129
UB-533x210x82	180545	443	541	31,9		0º	10	50	67	88	68
UB-533x210x82	180547	432	533	31,9		0º	10	70	43	72	62
UB-533x210x92	180554	437	550	30,6		0º	10	114	80	132	109
UB-533x210x92	180555	431	529	30,3		0º	10	51	93	72	72
UB-533x210x92	180557	433	531	29,7		0º	10	45	55	76	59
UB-533x210x92	180558	441	534	29,2		0º	10	95	80	62	79
UB-533x210x92	180559	414	555	30,8		0º	10	74	58	61	64
UC-152x152x30	181161	433	531	28,4		0º	7,5	62	74	62	66
UC-152x152x30	181162	413	521	30,1		0º	7,5	38	34	81	51
UC-152x152x30	181163	411	523	27,7		0º	7,5	102	58	61	74
UC-152x152x30	181165	432	531	27,4		0º	7,5	120	50	53	74
UC-152x152x30	181166	391	529	27,4		0º	7,5	34	34	71	46
UC-152x152x30	181167	405	570	26,1		0º	7,5	35	34	37	35
UC-152x152x30	181171	409	503	28,		0º	7,5	34	69	85	63
UC-152x152x30	181172	409	516	29,7		0º	7,5	135	79	114	109
UC-152x152x30	181173	425	556	29,7		0º	7,5	34	40	32	35
UC-152x152x30	181174	425	538	27,7		0º	7,5	79	62	95	79
UC-152x152x30	181175	430	552	28,6		0º	7,5	37	34	35	35

104 análisis

Responsable del Departamento de Calidad Z01

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.

B06: Marca AMO
Productos laminados en caliente de aceros para estructuras
Diseñado para ser utilizado en estructuras soldadas, atornilladas y remachadas

Jose Maria Galindo

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