

ArcelorMittal Olaberria-Bergara

ArcelorMittal Europe – Long Products

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Gipuzkoa)

TELEF. (943) 80.50.00 - FAX (943) 88.04.04

**MILL TEST CERTIFICATE****OLA P-66509**

DISCHARGE ADDRESS		CUSTOMER	
Plesa Anahuac Y Cias, S.A. de C.V. Av. Valle de las Alamedas 66-O Col. S. Francisco Chilpan, Tul MEXICO		PLESA ANAHUAC Y CIAS S.A. DE C.V. AV. VALLE DE LAS ALAMEDAS 66-O COL. SAN FRANCISCO CHILPAN - T MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Gipuzkoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			PASAJES, SPAIN
		PORT OF DISCHARGE	
		VERACRUZ	BBC CAMPANA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-70304/1700028875	28960	19/11/2019

Material: "WFB-PERFILES DE ACERO AL CARBONO LAMINADO EN CALIENTE"

El exportador de los productos incluidos en el presente documento,
Autorización aduanera no.

ARCELORMITTAL OLABERRIA-BERGARA, S. L. U. ES/20/0040/03

Declara que, salvo indicación en sentido contrario, estos
productos gozan de un origen preferencial ESPAÑA

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+ / RED							
WF BEAMS 6x15	40´	4	18	72	4898	19.592	192605
WF BEAMS 6x20	40´	3	14	42	5080	15.240	192914
WF BEAMS 6x25	40´	8	10	80	4535	36.280	192902
WF BEAMS 8x31	40´	7	8	56	4499	31.493	193272
WF BEAMS 8x40	40´	1	6	6	4355	4.355	192089
WF BEAMS 8x40	40´	4	6	24	4355	17.420	193252
WF BEAMS 8x48	40´	2	6	12	5225	10.450	189839
WF BEAMS 8x18	40´	4	16	64	5226	20.904	192356
WF BEAMS 8x18	40´	3	16	48	5226	15.678	193216
WF BEAMS 8x21	40´	7	12	84	4572	32.004	193216
WF BEAMS 8x21	40´	7	12	84	4572	32.004	193217
WF BEAMS 8x24	40´	2	10	20	4355	8.710	192586
WF BEAMS 8x24	40´	6	10	60	4355	26.130	192588
WF BEAMS 8x28	40´	6	10	60	5080	30.480	192584
WF BEAMS 8x28	40´	1	2	2	1016	1.016	192584
WF BEAMS 10x17	40´	1	2	2	617	617	192441
WF BEAMS 10x49	40´	3	6	18	5334	16.002	192751
WF BEAMS 10x49	40´	2	6	12	5334	10.668	192752

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 12x40	40´	5	5	25	3629	18.145	192755
WF BEAMS 12x40	40´	5	5	25	3629	18.145	192756
WF BEAMS 12x40	40´	7	5	35	3629	25.403	192757
WF BEAMS 12x40	40´	1	5	5	3629	3.629	192758
WF BEAMS 12x45	40´	11	5	55	4082	44.902	192753
WF BEAMS 12x45	40´	5	5	25	4082	20.410	192754
WF BEAMS 12x50	40´	1	5	5	4536	4.536	192749
WF BEAMS 12x50	40´	3	5	15	4536	13.608	192750
WF BEAMS 12x50	40´	1	5	5	4536	4.536	192751
WF BEAMS 14x22	40´	5	9	45	3592	17.960	193217
WF BEAMS 14x22	40´	3	9	27	3592	10.776	193218
WF BEAMS 14x26	40´	6	9	54	4245	25.470	193202
WF BEAMS 14x30	40´	13	6	78	3266	42.458	193164
WF BEAMS 14x30	40´	6	6	36	3266	19.596	193207
WF BEAMS 14x34	40´	9	6	54	3701	33.309	193160
WF BEAMS 14x34	40´	3	6	18	3701	11.103	193161
WF BEAMS 14x38	40´	8	6	48	4137	33.096	192638
WF BEAMS 14x53	40´	1	5	5	4808	4.808	191735
WF BEAMS 16x26	40´	9	7	63	3302	29.718	192730
WF BEAMS 16x26	40´	7	7	49	3302	23.114	192731
WF BEAMS 16x26	40´	1	7	7	3302	3.302	192732
WF BEAMS 16x26	40´	1	7	7	3302	3.302	192733
WF BEAMS 16x26	40´	1	5	5	2359	2.359	191951
WF BEAMS 16x31	40´	1	7	7	3937	3.937	191129
WF BEAMS 16x31	40´	5	7	35	3937	19.685	192716
WF BEAMS 16x31	40´	1	3	3	1687	1.687	190306
WF BEAMS 16x36	40´	1	6	6	3919	3.919	193415
WF BEAMS 16x36	40´	12	6	72	3919	47.028	193416
WF BEAMS 16x36	40´	3	6	18	3919	11.757	193417
WF BEAMS 16x40	40´	3	6	18	4355	13.065	191113
WF BEAMS 16x40	40´	7	6	42	4355	30.485	193395
WF BEAMS 16x40	40´	3	6	18	4355	13.065	193396
WF BEAMS 16x40	40´	2	6	12	4355	8.710	193398
WF BEAMS 16x45	40´	1	5	5	4082	4.082	191865
WF BEAMS 16x45	40´	4	5	20	4082	16.328	193392
WF BEAMS 16x45	40´	2	5	10	4082	8.164	193393
WF BEAMS 16x45	40´	1	5	5	4082	4.082	193394

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 16x50	40´	3	5	15	4536	13.608	191857
WF BEAMS 16x50	40´	6	5	30	4536	27.216	193384
WF BEAMS 16x50	40´	1	5	5	4536	4.536	193385
WF BEAMS 16x57	40´	4	5	20	5171	20.684	193380
WF BEAMS 18x35	40´	3	7	21	4446	13.338	192120
WF BEAMS 18x35	40´	1	7	7	4446	4.446	192131
WF BEAMS 18x35	40´	6	7	42	4446	26.676	192863
WF BEAMS 18x35	40´	2	7	14	4446	8.892	192864
WF BEAMS 18x35	40´	2	7	14	4446	8.892	192865
WF BEAMS 18x35	40´	2	7	14	4446	8.892	192866
WF BEAMS 18x35	40´	2	7	14	4446	8.892	192867
WF BEAMS 18x35	40´	1	7	7	4446	4.446	192868
WF BEAMS 18x40	40´	9	7	63	5081	45.729	192766
WF BEAMS 18x40	40´	4	7	28	5081	20.324	192767
WF BEAMS 18x50	40´	1	5	5	4536	4.536	192602
WF BEAMS 18x50	40´	4	5	20	4536	18.144	192603
WF BEAMS 18x50	40´	1	5	5	4536	4.536	192604
WF BEAMS 18x50	40´	1	5	5	4536	4.536	193302
WF BEAMS 18x50	40´	2	5	10	4536	9.072	193303
WF BEAMS 18x50	40´	1	5	5	4536	4.536	193304
WF BEAMS 18x55	40´	3	5	15	4990	14.970	193293
WF BEAMS 18x55	40´	1	5	5	4990	4.990	193295
WF BEAMS 18x60	40´	1	4	4	4354	4.354	187054
WF BEAMS 18x60	40´	1	4	4	4354	4.354	187055
WF BEAMS 18x60	40´	1	4	4	4354	4.354	193286
WF BEAMS 18x60	40´	1	4	4	4354	4.354	193287
WF BEAMS 18x65	40´	3	4	12	4717	14.151	193282
WF BEAMS 18x71	40´	2	4	8	5153	10.306	189156
WF BEAMS 18x71	40´	1	4	4	5153	5.153	190179
WF BEAMS 12x65	40´	4	3	12	3538	14.152	192775
WF BEAMS 12x65	40´	5	3	15	3538	17.690	192776
WF BEAMS 18x76	40´	2	3	6	4137	8.274	191644
WF BEAMS 18x76	40´	2	3	6	4137	8.274	191645
WF BEAMS 18x76	40´	1	3	3	4137	4.137	191646
WF BEAMS 18x76	40´	1	3	3	4137	4.137	191647
WF BEAMS 18x76	40´	1	3	3	4137	4.137	191648
WF BEAMS 18x76	40´	1	3	3	4137	4.137	191649

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 18x76	40´	2	3	6	4137	8.274	191650
WF BEAMS 18x86	40´	1	3	3	4681	4.681	191635
WF BEAMS 21x44	40´	2	6	12	4790	9.580	191976
WF BEAMS 21x50	40´	1	5	5	4536	4.536	191987
WF BEAMS 21x50	40´	2	5	10	4536	9.072	191988
WF BEAMS 21x68	40´	6	4	24	4935	29.610	191891
WF BEAMS 24x76	40´	5	3	15	4137	20.685	191960
WF BEAMS 24x84	40´	2	3	6	4572	9.144	191938
WF BEAMS 24x84	40´	8	3	24	4572	36.576	192870
WF BEAMS 24x94	40´	3	3	9	5117	15.351	192873
WF BEAMS 24x94	40´	2	3	6	5117	10.234	192874
WF BEAMS 24x103	40´	3	2	6	3738	11.214	191939

TOTAL BUNDLES

353

TOTAL WEIGHT

1.491.534 Kg.

A02 EN 10204/3.1

CSA G40.21 50W/ASTM A572 G50/A992/A6-16a

(B01/B02/B03) A03



MILL TEST CERTIFICATE

OLA P-66509

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
187054	,090	,940	,180	,024	,019	,012	,140	,180	,044	,370	,016	,019	,001	,32				
187055	,074	,990	,210	,022	,021	,012	,140	,150	,049	,320	,019	,017	,001	,31				
189156	,077	,950	,180	,022	,018	,010	,180	,190	,042	,410	,018	,033	,002	,32				
189839	,069	,940	,200	,022	,021	,012	,200	,210	,045	,480	,015	,031	,001	,32				
190179	,090	,930	,200	,021	,017	,013	,160	,200	,037	,420	,020	,025	,002	,33				
190306	,098	,920	,170	,027	,019	,014	,230	,180	,038	,430	,020	,028	,002	,35				
191113	,093	,990	,190	,021	,018	,006	,230	,180	,031	,430	,039	,025	,001	,35				
191129	,078	,890	,160	,030	,019	,007	,240	,160	,027	,390	,035	,025	,001	,32				
191635	,079	,920	,160	,020	,021	,007	,230	,130	,025	,420	,036	,027	,002	,32				
191644	,102	,930	,210	,022	,018	,004	,210	,180	,031	,480	,031	,027	,003	,35				
191645	,111	,950	,190	,019	,020	,005	,220	,210	,029	,460	,033	,026	,002	,36				
191646	,131	,940	,220	,019	,020	,004	,160	,170	,030	,400	,035	,033	,003	,36				
191647	,078	,990	,220	,024	,018	,006	,270	,150	,035	,420	,038	,028	,004	,34				
191648	,071	,950	,210	,024	,019	,004	,260	,170	,031	,440	,034	,023	,003	,33				
191649	,139	,960	,210	,020	,018	,004	,210	,160	,028	,440	,029	,019	,003	,39				
191650	,090	,950	,190	,016	,019	,004	,150	,180	,031	,410	,029	,019	,003	,32				
191735	,081	,940	,180	,026	,021	,005	,160	,200	,028	,460	,034	,025	,002	,32				
191857	,073	,890	,200	,022	,023	,004	,130	,140	,025	,410	,033	,026	,003	,29				
191865	,079	,840	,220	,026	,026	,003	,140	,160	,034	,420	,040	,030	,003	,29				
191891	,119	1,070	,170	,033	,016	,017	,230	,150	,032	,440	,039	,028	,003	,39				
191938	,069	,900	,200	,017	,019	,004	,130	,170	,031	,400	,032	,028	,002	,29				
191939	,062	,910	,250	,023	,020	,004	,230	,260	,050	,430	,031	,020	,003	,32				
191951	,081	,940	,190	,021	,018	,003	,200	,190	,034	,430	,037	,026	,001	,33				
191960	,076	,920	,190	,021	,023	,003	,140	,230	,039	,400	,035	,025	,002	,31				
191976	,066	,900	,210	,030	,023	,004	,140	,140	,027	,370	,037	,023	,003	,28				
191987	,074	,910	,190	,034	,022	,004	,210	,170	,033	,430	,036	,026	,003	,32				
191988	,070	,900	,180	,034	,022	,005	,210	,180	,031	,440	,035	,027	,003	,31				
192089	,071	,860	,220	,022	,025	,003	,140	,180	,036	,380	,031	,024	,004	,29				
192120	,076	,880	,190	,018	,023	,004	,190	,150	,029	,380	,033	,026	,004	,30				
192131	,092	1,010	,180	,026	,019	,006	,230	,170	,033	,370	,044	,027	,001	,35				
192356	,069	,870	,210	,017	,023	,004	,090	,170	,033	,420	,036	,024	,006	,28				
192441	,081	,930	,210	,027	,019	,007	,200	,190	,038	,410	,038	,026	,004	,33				
192584	,063	,950	,210	,020	,023	,006	,120	,170	,038	,390	,045	,022	,002	,29				
192586	,066	,930	,200	,023	,022	,006	,170	,200	,032	,370	,037	,024	,002	,30				
192588	,073	,910	,180	,024	,021	,006	,110	,200	,026	,320	,037	,021	,003	,29				
192602	,088	,900	,210	,021	,021	,005	,100	,200	,033	,420	,029	,025	,003	,31				
192603	,072	,900	,220	,026	,020	,004	,090	,190	,032	,420	,027	,021	,003	,29				
192604	,069	,920	,240	,024	,019	,005	,090	,170	,041	,380	,030	,022	,003	,29				
192605	,078	,920	,200	,021	,021	,006	,140	,170	,035	,410	,030	,022	,003	,31				
192638	,087	,900	,220	,023	,020	,005	,150	,190	,029	,380	,034	,024	,005	,31				
192716	,084	,990	,200	,020	,021	,005	,150	,180	,043	,340	,030	,029	,004	,32				
192730	,065	,940	,180	,022	,019	,006	,120	,170	,028	,360	,033	,026	,002	,29				
192731	,075	,930	,190	,022	,020	,006	,120	,150	,031	,360	,032	,037	,003	,30				
192732	,071	,940	,190	,024	,021	,006	,140	,170	,031	,430	,032	,041	,002	,30				
192733	,071	,920	,200	,026	,020	,006	,160	,180	,026	,450	,033	,034	,003	,30				
192749	,077	,940	,200	,016	,021	,003	,080	,140	,028	,400	,033	,027	,004	,29				
192750	,056	,960	,170	,021	,019	,005	,130	,140	,026	,370	,032	,026	,002	,28				
192751	,075	,980	,200	,021	,019	,005	,140	,150	,025	,380	,031	,030	,001	,31				



MILL TEST CERTIFICATE

OLA P-66509

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
192752	,071	1,000	,200	,019	,020	,006	,120	,160	,030	,380	,037	,032	,001	,30				
192753	,073	,950	,220	,024	,027	,005	,150	,160	,028	,360	,033	,031	,001	,30				
192754	,072	,940	,230	,020	,023	,004	,130	,150	,030	,370	,030	,029	,004	,30				
192755	,101	,930	,250	,028	,024	,005	,180	,170	,039	,370	,034	,027	,004	,34				
192756	,100	,920	,210	,021	,020	,004	,130	,140	,028	,370	,028	,029	,004	,32				
192757	,082	,900	,220	,024	,023	,005	,130	,150	,031	,390	,031	,026	,003	,30				
192758	,084	,960	,230	,025	,024	,005	,150	,150	,032	,360	,032	,029	,003	,32				
192766	,067	,880	,210	,018	,020	,004	,140	,160	,037	,360	,027	,029	,003	,28				
192767	,074	,950	,190	,021	,023	,007	,170	,160	,050	,410	,034	,027	,001	,32				
192775	,092	,960	,190	,023	,021	,009	,190	,180	,056	,360	,035	,028	,002	,34				
192776	,121	,960	,190	,024	,019	,009	,170	,170	,049	,350	,037	,026	,002	,36				
192863	,058	,860	,160	,024	,025	,004	,160	,210	,045	,390	,031	,023	,003	,28				
192864	,068	,930	,190	,021	,022	,011	,190	,180	,051	,370	,037	,024	,001	,31				
192865	,063	,890	,220	,024	,020	,007	,200	,190	,048	,370	,030	,026	,004	,30				
192866	,073	,910	,190	,019	,020	,007	,160	,160	,041	,360	,032	,026	,002	,30				
192867	,077	,930	,200	,021	,020	,007	,190	,140	,040	,340	,030	,027	,003	,31				
192868	,081	,920	,220	,020	,021	,007	,180	,190	,049	,350	,035	,031	,004	,32				
192870	,086	,920	,170	,016	,015	,006	,130	,210	,044	,310	,034	,022	,001	,31				
192873	,083	,920	,190	,021	,018	,006	,160	,180	,044	,370	,033	,025	,002	,32				
192874	,097	,940	,220	,022	,017	,007	,240	,220	,053	,360	,033	,025	,004	,35				
192902	,073	,900	,200	,019	,019	,005	,120	,140	,034	,360	,033	,028	,003	,29				
192914	,097	,940	,220	,025	,019	,006	,170	,170	,045	,370	,031	,024	,004	,33				
193160	,072	,900	,180	,023	,019	,005	,110	,250	,029	,430	,034	,026	,002	,30				
193161	,064	,890	,180	,022	,018	,004	,110	,230	,029	,430	,031	,024	,003	,28				
193164	,069	,970	,200	,023	,018	,005	,130	,210	,031	,420	,034	,023	,001	,31				
193202	,076	,900	,220	,022	,020	,004	,150	,160	,025	,400	,033	,020	,002	,30				
193207	,071	,980	,190	,019	,024	,005	,110	,150	,026	,390	,039	,022	,002	,30				
193216	,076	,990	,230	,020	,023	,005	,120	,160	,035	,380	,035	,023	,004	,31				
193217	,066	,890	,180	,020	,024	,003	,100	,180	,032	,380	,028	,023	,002	,28				
193218	,068	1,010	,200	,020	,026	,004	,090	,180	,036	,390	,037	,022	,001	,30				
193252	,063	,960	,190	,021	,020	,005	,160	,240	,050	,440	,039	,021	,002	,31				
193272	,056	,940	,200	,026	,020	,004	,150	,210	,027	,400	,034	,024	,003	,29				
193282	,072	1,040	,190	,017	,024	,003	,110	,150	,028	,390	,031	,025	,001	,31				
193286	,083	,950	,200	,026	,022	,005	,150	,180	,034	,370	,034	,023	,001	,32				
193287	,073	,950	,220	,022	,023	,005	,130	,170	,032	,410	,034	,020	,001	,30				
193293	,053	,950	,210	,020	,020	,008	,100	,130	,028	,380	,031	,020	,003	,27				
193295	,091	,930	,210	,022	,020	,004	,140	,160	,026	,450	,032	,036	,003	,32				
193302	,067	1,000	,170	,018	,020	,006	,100	,150	,018	,380	,038	,029	,001	,29				
193303	,064	,930	,210	,022	,021	,004	,110	,150	,020	,420	,033	,035	,003	,28				
193304	,064	,880	,220	,018	,019	,005	,140	,140	,018	,450	,030	,032	,002	,28				
193380	,116	,900	,240	,018	,018	,004	,090	,150	,025	,490	,030	,026	,003	,33				
193384	,078	,970	,180	,019	,025	,004	,090	,130	,015	,490	,035	,026	,003	,30				
193385	,065	1,080	,160	,019	,022	,006	,100	,130	,013	,520	,034	,022	,001	,31				
193392	,064	,990	,230	,023	,021	,004	,120	,150	,022	,350	,035	,027	,003	,29				
193393	,065	,950	,190	,021	,021	,004	,120	,170	,024	,380	,033	,028	,003	,29				
193394	,068	,980	,200	,018	,020	,005	,110	,150	,027	,380	,034	,026	,003	,30				
193395	,077	,970	,190	,019	,021	,004	,110	,180	,029	,440	,033	,027	,003	,31				
193396	,068	,980	,200	,021	,023	,005	,110	,190	,030	,460	,035	,025	,002	,30				



MILL TEST CERTIFICATE

OLA P-66509

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
<i>B08</i>																			
193398	,091	,900	,180	,023	,021	,005	,100	,190	,027	,380	,031	,023	,003	,31					
193415	,079	,930	,220	,018	,021	,004	,090	,190	,035	,440	,032	,024	,002	,30					
193416	,067	,930	,210	,018	,024	,004	,090	,190	,032	,390	,033	,022	,002	,29					
193417	,077	,960	,200	,019	,023	,006	,080	,170	,029	,350	,037	,023	,001	,29					
MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES																	
		ReH MPa		Rm MPa		A% L0=8"													
<i>B11</i>	<i>B08</i>	<i>C11</i>		<i>C12</i>		<i>C13</i>													
W-10x17	192441	413	404	547	529	24,7	24,												
W-10x49	192751	407	393	514	514	24,8	24,5												
W-10x49	192752	410	392	516	500	28,5	27,4												
W-12x40	192755	449	435	585	560	24,1	23,1												
W-12x40	192756	416	399	531	527	23,7	23,1												
W-12x40	192757	418	416	537	519	23,8	23,2												
W-12x40	192758	413	409	540	526	23,3	23,3												
W-12x45	192753	408	403	517	503	24,2	23,7												
W-12x45	192754	405	405	522	506	23,9	23,3												
W-12x50	192749	389	389	510	489	24,5	23,6												
W-12x50	192750	389	381	492	490	24,1	24,1												
W-12x50	192751	414	396	531	511	24,2	24,1												
W-12x65	192775	436	426	572	562	23,5	23,3												
W-12x65	192776	455	438	576	570	23,6	23,2												
W-14x22	193217	447	439	552	540	22,4	21,8												
W-14x22	193218	450	445	560	536	22,5	21,9												
W-14x26	193202	450	449	539	525	22,5	22,												
W-14x30	193164	406	431	556	549	22,6	22,4												
W-14x30	193207	438	424	550	526	22,7	22,4												
W-14x34	193160	399	395	499	497	24,5	23,9												
W-14x34	193161	410	408	507	503	23,8	23,4												
W-14x38	192638	397	381	500	482	24,3	24,1												
W-14x53	191735	386	372	502	494	27,1	26,8												
W-16x26	191951	447	449	547	543	25,2	24,5												
W-16x26	192730	447	445	548	544	25,2	24,9												
W-16x26	192731	449	447	554	552	25,	24,7												
W-16x26	192732	450	446	554	553	25,1	25,1												
W-16x26	192733	446	451	565	541	25,9	25,2												
W-16x31	190306	438	428	525	514	22,5	22,2												
W-16x31	191129	441	458	564	542	25,2	24,9												
W-16x31	192716	444	446	573	562	22,6	22,												
W-16x36	193415	412	410	522	516	24,4	23,5												
W-16x36	193416	420	411	517	497	24,9	24,4												
W-16x36	193417	411	399	498	496	24,8	24,5												
W-16x40	191113	387	386	525	491	23,3	24,3												
W-16x40	193395	405	396	502	490	31,	30,4												
W-16x40	193396	390	388	499	491	31,7	31,												
W-16x40	193398	416	404	552	530	32,3	31,5												
W-16x45	191865	401	385	511	491	24,	23,8												
W-16x45	193392	385	371	497	485	23,4	23,												



MILL TEST CERTIFICATE

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-16x45	193393	370	401	487	503	23,5	23,2
W-16x45	193394	393	387	504	490	28,7	27,6
W-16x50	191857	392	386	499	495	24,3	23,6
W-16x50	193384	374	365	499	487	24,1	23,4
W-16x50	193385	365	385	500	489	24,	24,1
W-16x57	193380	393	389	542	522	24,9	24,7
W-18x35	192120	431	425	557	545	24,6	24,5
W-18x35	192131	406	445	553	493	24,	23,1
W-18x35	192863	405	422	529	511	23,8	24,7
W-18x35	192864	426	412	522	513	22,3	22,1
W-18x35	192865	420	410	520	510	22,3	22,1
W-18x35	192866	422	419	523	506	22,8	22,4
W-18x35	192867	452	418	514	556	23,9	22,1
W-18x35	192868	431	419	513	511	22,5	22,4
W-18x40	192766	426	419	531	527	24,5	23,7
W-18x40	192767	427	413	535	520	24,4	23,8
W-18x50	192602	404	390	521	505	24,2	23,8
W-18x50	192603	395	387	510	494	24,2	24,1
W-18x50	192604	407	401	521	509	24,4	23,9
W-18x50	193302	394	385	491	484	26,	25,4
W-18x50	193303	389	384	492	487	26,6	25,8
W-18x50	193304	380	364	484	484	26,6	26,
W-18x55	193293	424	411	523	515	26,7	26,
W-18x55	193295	402	390	507	496	25,8	25,6
W-18x60	187054	407	399	528	508	26,6	25,6
W-18x60	187055	403	394	521	504	34,3	33,1
W-18x60	193286	400	388	512	490	25,9	25,1
W-18x60	193287	398	386	512	496	25,4	24,8
W-18x65	193282	402	393	524	520	26,8	26,4
W-18x71	189156	413	400	512	506	25,5	25,4
W-18x71	190179	416	404	539	531	25,9	25,1
W-18x76	191644	407	395	537	535	26,1	25,3
W-18x76	191645	394	389	506	491	22,6	22,1
W-18x76	191646	406	390	523	509	26,2	25,9
W-18x76	191647	411	405	523	513	26,3	25,6
W-18x76	191648	409	407	543	527	26,	25,5
W-18x76	191649	395	393	523	501	26,3	25,4
W-18x76	191650	412	408	549	537	26,3	25,3
W-18x86	191635	414	410	585	569	25,4	25,
W-21x44	191976	415	402	514	498	24,2	23,8
W-21x50	191987	421	405	534	510	22,3	22,
W-21x50	191988	413	398	518	503	22,6	22,1
W-21x68	191891	427	423	539	523	27,2	27,
W-24x103	191939	387	387	534	518	24,9	24,5
W-24x76	191960	411	402	523	516	29,5	28,8
W-24x84	191938	392	386	491	489	26,2	26,2
W-24x84	192870	401	397	522	506	25,2	24,8
W-24x94	192873	405	398	503	502	24,5	24,6

ArcelorMittal Olaberria-Bergara

ArcelorMittal Europe – Long Products

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Gipuzkoa)

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**MILL TEST CERTIFICATE****OLA P-66509**

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B06	C11		C12		C13	
W-24x94	192874	398	402	502	502	24,8	24,6
W-6x15	192605	401	439	517	504	22,	22,5
W-6x20	192914	413	406	562	549	25,5	24,7
W-6x25	192902	394	392	532	512	24,5	24,2
W-8x18	192356	422	411	522	513	25,	24,7
W-8x18	193216	427	421	539	537	22,5	22,1
W-8x21	193216	397	395	513	501	23,	22,7
W-8x21	193217	401	399	526	504	22,9	22,4
W-8x24	192586	406	404	518	518	24,3	24,2
W-8x24	192588	376	370	489	490	25,6	25,1
W-8x28	192584	429	411	530	514	23,7	23,7
W-8x31	193272	419	413	518	502	23,5	23,
W-8x40	192089	366	360	491	490	25,2	25,1
W-8x40	193252	418	412	517	507	25,2	25,
W-8x48	189839	402	393	526	506	27,5	27,

100 análisis

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

B06: Marca AMO

Responsable del Departamento de Calidad Z01

Jose Maria Galindo