



MILL TEST CERTIFICATE

OLA P-68094

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. 417 20212 OLABERRIA (Gipuzkoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			PASAJES, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	PARIS TRADER
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-72103/1700029478	29524	22/04/2020

Material: "WF-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´	1	18	18	4898	4.898	196242
WF BEAMS 6x15	40´	2	18	36	4898	9.796	196686
WF BEAMS 6x15	40´	1	18	18	4898	4.898	196715
WF BEAMS 6x20	40´	2	14	28	5080	10.160	196672
WF BEAMS 6x20	40´	2	14	28	5080	10.160	196674
WF BEAMS 6x20	40´	1	4	4	1451	1.451	196249
WF BEAMS 6x25	40´	1	10	10	4535	4.535	196212
WF BEAMS 6x25	40´	3	10	30	4535	13.605	196668
WF BEAMS 8x31	40´	4	8	32	4499	17.996	195345
WF BEAMS 8x31	40´	1	8	8	4499	4.499	195346
WF BEAMS 8x18	40´	3	16	48	5226	15.678	196398
WF BEAMS 8x18	40´	1	16	16	5226	5.226	196399
WF BEAMS 8x21	40´	2	12	24	4572	9.144	196388
WF BEAMS 8x21	40´	1	12	12	4572	4.572	196389
WF BEAMS 8x21	40´	1	12	12	4572	4.572	196390
WF BEAMS 8x21	40´	1	12	12	4572	4.572	196393
WF BEAMS 10x12	40´	1	22	22	4790	4.790	194948
WF BEAMS 10x12	40´	3	22	66	4790	14.370	196711
WF BEAMS 10x15	40´	2	18	36	4898	9.796	196681
WF BEAMS 10x15	40´	1	18	18	4898	4.898	196771



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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 10x15	40´	1	16	16	4354	4.354	194955
WF BEAMS 10x22	40´	2	12	24	4790	9.580	196798
WF BEAMS 10x22	40´	3	12	36	4790	14.370	196799
WF BEAMS 10x26	40´	4	10	40	4717	18.868	196741
WF BEAMS 10x26	40´	1	10	10	4717	4.717	196742
WF BEAMS 10x30	40´	1	8	8	4370	4.370	196263
WF BEAMS 10x30	40´	1	8	8	4370	4.370	196733
WF BEAMS 10x30	40´	1	8	8	4370	4.370	196734
WF BEAMS 10x30	40´	2	8	16	4370	8.740	196735
WF BEAMS 12x40	40´	3	5	15	3629	10.887	196768
WF BEAMS 12x40	40´	2	5	10	3629	7.258	196769
WF BEAMS 12x40	40´	1	5	5	3629	3.629	196770
WF BEAMS 12x50	40´	1	5	5	4536	4.536	196760
WF BEAMS 14x22	40´	2	9	18	3592	7.184	196360
WF BEAMS 14x22	40´	4	9	36	3592	14.368	196363
WF BEAMS 14x22	40´	1	9	9	3592	3.592	196364
WF BEAMS 14x22	40´	1	9	9	3592	3.592	196366
WF BEAMS 14x26	40´	1	9	9	4245	4.245	195477
WF BEAMS 14x30	40´	2	6	12	3266	6.532	196345
WF BEAMS 14x30	40´	5	6	30	3266	16.330	196346
WF BEAMS 16x26	40´	3	7	21	3302	9.906	196909
WF BEAMS 16x26	40´	1	7	7	3302	3.302	196911
WF BEAMS 16x26	40´	3	7	21	3302	9.906	196912
WF BEAMS 18x55	40´	4	5	20	4990	19.960	195323
WF BEAMS 18x55	40´	1	5	5	4990	4.990	195982
WF BEAMS 12x65	40´	6	3	18	3538	21.228	196814
WF BEAMS 12x72	40´	4	3	12	3919	15.676	196801
WF BEAMS 12x72	40´	1	3	3	3919	3.919	196803
WF BEAMS 12x72	40´	1	3	3	3919	3.919	196804
WF BEAMS 12x79	40´	2	3	6	4300	8.600	196100
WF BEAMS 12x79	40´	3	3	9	4300	12.900	196101
WF BEAMS 18x86	40´	1	3	3	4681	4.681	196954
WF BEAMS 18x86	40´	3	3	9	4681	14.043	196955
WF BEAMS 21x44	40´	1	6	6	4790	4.790	196898
WF BEAMS 21x44	40´	1	6	6	4790	4.790	196990
WF BEAMS 21x44	40´	2	6	12	4790	9.580	196991
WF BEAMS 21x44	40´	3	6	18	4790	14.370	196992



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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 21x44	40´	1	6	6	4790	4.790	196997
WF BEAMS 21x44	40´	1	6	6	4790	4.790	196999
WF BEAMS 21x44	40´	2	6	12	4790	9.580	197000
WF BEAMS 21x50	40´	1	5	5	4536	4.536	196938
WF BEAMS 21x50	40´	1	5	5	4536	4.536	196940
WF BEAMS 21x50	40´	1	5	5	4536	4.536	196941
WF BEAMS 21x50	40´	1	5	5	4536	4.536	196944
WF BEAMS 21x50	40´	1	5	5	4536	4.536	197002
WF BEAMS 21x57	40´	4	5	20	5171	20.684	196946
WF BEAMS 21x68	40´	2	4	8	4935	9.870	196912
WF BEAMS 21x73	40´	2	4	8	5298	10.596	196914
WF BEAMS 21x73	40´	2	4	8	5298	10.596	196922
WF BEAMS 24x55	40´	3	5	15	4990	14.970	196846
WF BEAMS 24x55	40´	2	5	10	4990	9.980	196847
WF BEAMS 24x55	40´	2	5	10	4990	9.980	196853
WF BEAMS 24x62	40´	2	4	8	4500	9.000	196835
WF BEAMS 24x62	40´	5	4	20	4500	22.500	196939
WF BEAMS 24x68	40´	3	4	12	4935	14.805	196877
WF BEAMS 24x68	40´	3	4	12	4935	14.805	196878
WF BEAMS 24x68	40´	1	4	4	4935	4.935	196915
WF BEAMS 24x76	40´	4	3	12	4137	16.548	196853
WF BEAMS 24x76	40´	1	3	3	4137	4.137	196854
WF BEAMS 24x76	40´	2	3	6	4137	8.274	196855
WF BEAMS 24x76	40´	1	3	3	4137	4.137	196864

TOTAL BUNDLES 161

TOTAL WEIGHT 709.725 Kg.

A02 EN 10204/3.1

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

(B01/B02/B03) A03
OLAP68094



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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
194948	,089	,850	,210	,019	,023	,006	,130	,170	,036	,310	,033	,028	,002	,30				
194955	,075	,920	,210	,020	,025	,005	,100	,160	,030	,370	,031	,021	,002	,29				
195323	,071	,980	,240	,015	,019	,004	,100	,240	,053	,360	,031	,017	,004	,31				
195345	,100	,990	,230	,023	,021	,004	,140	,190	,033	,390	,036	,017	,003	,34				
195346	,080	,960	,210	,027	,021	,004	,160	,250	,035	,430	,034	,018	,003	,33				
195477	,078	1,000	,200	,019	,024	,005	,160	,200	,052	,330	,040	,017	,003	,32				
195982	,091	,900	,210	,022	,021	,004	,160	,180	,039	,410	,032	,023	,005	,32				
196100	,088	,870	,200	,022	,018	,005	,110	,210	,042	,390	,034	,024	,004	,30				
196101	,083	,940	,220	,023	,023	,005	,120	,200	,040	,420	,038	,027	,003	,31				
196212	,074	,960	,250	,016	,021	,003	,100	,190	,031	,390	,033	,020	,004	,30				
196242	,079	,950	,230	,022	,025	,005	,120	,160	,041	,420	,038	,022	,004	,31				
196249	,064	,900	,190	,022	,028	,004	,110	,190	,032	,430	,031	,023	,004	,28				
196263	,077	,940	,210	,026	,023	,005	,140	,150	,041	,420	,035	,024	,002	,31				
196345	,079	,920	,200	,019	,024	,006	,130	,200	,036	,400	,035	,037	,003	,31				
196346	,067	,930	,190	,023	,025	,004	,120	,240	,038	,440	,033	,036	,003	,30				
196360	,119	,960	,230	,023	,018	,004	,200	,180	,027	,400	,041	,021	,003	,36				
196363	,080	,900	,210	,027	,018	,004	,140	,190	,037	,460	,033	,023	,002	,31				
196364	,108	,860	,180	,026	,018	,004	,150	,240	,031	,420	,031	,021	,001	,33				
196366	,080	,890	,210	,022	,022	,003	,100	,200	,040	,440	,031	,029	,002	,30				
196388	,098	,970	,190	,022	,019	,006	,150	,180	,036	,490	,038	,027	,001	,34				
196389	,093	,940	,180	,025	,021	,004	,170	,210	,046	,460	,033	,026	,002	,34				
196390	,093	,950	,170	,025	,021	,004	,180	,210	,048	,450	,033	,026	,002	,34				
196393	,099	,930	,210	,026	,021	,006	,140	,190	,034	,500	,034	,028	,004	,34				
196398	,087	,930	,210	,022	,021	,005	,150	,190	,041	,500	,035	,027	,004	,33				
196399	,104	,950	,200	,021	,019	,004	,160	,200	,049	,420	,033	,023	,004	,35				
196668	,073	,890	,180	,020	,019	,004	,130	,240	,056	,370	,031	,028	,004	,30				
196672	,088	,920	,200	,019	,024	,005	,190	,240	,056	,370	,034	,021	,003	,33				
196674	,073	,890	,180	,019	,024	,004	,150	,230	,049	,380	,031	,026	,004	,30				
196681	,060	,920	,180	,017	,021	,005	,130	,190	,043	,300	,033	,025	,003	,28				
196686	,070	,950	,200	,016	,021	,005	,130	,190	,061	,310	,035	,025	,003	,30				
196711	,076	,910	,210	,019	,021	,005	,160	,240	,060	,360	,033	,030	,003	,31				
196715	,068	,900	,190	,015	,021	,005	,150	,230	,062	,320	,030	,024	,003	,30				
196733	,074	,900	,220	,022	,023	,004	,170	,250	,055	,400	,033	,037	,005	,31				
196734	,080	,900	,210	,029	,020	,004	,180	,250	,056	,430	,031	,031	,004	,32				
196735	,090	,910	,200	,026	,021	,006	,220	,240	,058	,430	,034	,031	,004	,34				
196741	,079	,910	,220	,018	,022	,005	,160	,220	,054	,320	,033	,030	,003	,31				
196742	,069	,930	,220	,018	,021	,005	,140	,200	,058	,320	,032	,027	,004	,30				
196760	,070	,920	,210	,018	,023	,005	,110	,230	,058	,410	,035	,039	,004	,30				
196768	,087	,920	,230	,025	,023	,005	,180	,230	,070	,350	,033	,034	,003	,33				
196769	,086	,910	,230	,022	,023	,005	,150	,250	,071	,320	,032	,035	,003	,32				
196770	,087	,860	,190	,020	,025	,004	,130	,270	,060	,370	,029	,031	,003	,31				
196771	,090	,930	,200	,019	,024	,004	,150	,260	,073	,440	,031	,024	,003	,34				
196798	,080	,950	,200	,023	,024	,006	,150	,220	,050	,370	,036	,027	,003	,32				
196799	,090	,880	,200	,030	,020	,004	,130	,220	,046	,380	,033	,024	,004	,31				
196801	,091	,920	,190	,026	,018	,005	,160	,230	,059	,380	,033	,030	,003	,33				
196803	,074	,920	,200	,020	,019	,005	,190	,260	,082	,400	,033	,038	,004	,33				
196804	,065	,950	,220	,021	,022	,005	,230	,240	,068	,420	,033	,037	,004	,33				
196814	,068	,980	,180	,019	,024	,007	,130	,210	,054	,400	,038	,029	,001	,31				



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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
B08																		
196835	,098	,960	,220	,032	,024	,007	,200	,160	,055	,390	,038	,028	,004	,35				
196846	,067	,970	,200	,023	,024	,007	,160	,220	,065	,390	,036	,024	,003	,32				
196847	,093	,930	,190	,029	,022	,005	,170	,260	,065	,420	,031	,026	,003	,34				
196853	,080	,890	,210	,019	,021	,005	,130	,220	,044	,390	,033	,027	,005	,30				
196854	,104	,920	,230	,018	,024	,005	,130	,170	,042	,390	,036	,028	,004	,33				
196855	,130	1,010	,190	,031	,021	,007	,220	,160	,046	,380	,038	,023	,002	,39				
196864	,080	,940	,220	,025	,021	,004	,140	,240	,063	,410	,035	,031	,004	,32				
196877	,070	,900	,170	,019	,020	,005	,140	,230	,045	,450	,032	,028	,003	,30				
196878	,069	,920	,190	,022	,021	,005	,150	,210	,047	,380	,034	,028	,004	,30				
196898	,095	,950	,200	,023	,022	,005	,230	,230	,055	,470	,037	,021	,003	,36				
196909	,116	,930	,200	,023	,022	,006	,180	,170	,037	,410	,035	,030	,013	,35				
196911	,081	,980	,190	,023	,019	,007	,200	,170	,033	,500	,034	,025	,003	,34				
196912	,078	,930	,210	,023	,021	,006	,140	,210	,041	,450	,038	,028	,005	,31				
196914	,081	,940	,210	,020	,026	,005	,100	,220	,046	,420	,035	,029	,005	,31				
196915	,081	,920	,190	,019	,019	,004	,120	,220	,050	,370	,035	,029	,005	,31				
196922	,075	1,000	,210	,018	,026	,006	,110	,130	,040	,420	,038	,027	,003	,31				
196938	,061	,920	,180	,023	,022	,005	,120	,240	,046	,420	,033	,021	,003	,29				
196939	,065	,930	,190	,017	,022	,006	,090	,200	,045	,410	,034	,021	,003	,29				
196940	,061	,920	,170	,016	,022	,005	,080	,200	,045	,360	,032	,025	,002	,28				
196941	,065	,930	,190	,018	,022	,006	,100	,200	,051	,420	,033	,024	,003	,29				
196944	,080	,920	,210	,018	,022	,004	,090	,180	,045	,420	,034	,026	,004	,30				
196946	,085	,920	,200	,017	,025	,004	,090	,190	,044	,380	,035	,027	,004	,30				
196954	,062	,940	,210	,026	,024	,006	,120	,230	,061	,410	,035	,031	,003	,30				
196955	,062	,930	,230	,021	,028	,005	,120	,330	,079	,520	,031	,027	,002	,31				
196990	,062	,960	,180	,016	,027	,005	,100	,240	,057	,340	,031	,028	,002	,29				
196991	,067	1,020	,190	,015	,026	,006	,110	,210	,045	,310	,038	,027	,001	,30				
196992	,067	,920	,190	,015	,024	,004	,090	,220	,040	,350	,032	,030	,004	,29				
196997	,078	,970	,200	,021	,020	,005	,180	,190	,048	,360	,036	,023	,002	,32				
196999	,091	1,110	,200	,024	,017	,007	,260	,140	,048	,380	,041	,023	,001	,37				
197000	,099	1,130	,220	,026	,020	,007	,220	,100	,035	,350	,039	,021	,001	,37				
197002	,118	,900	,160	,020	,019	,005	,170	,160	,034	,310	,035	,022	,003	,34				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-10x12	194948	447	447	549	530	22,5	22,
W-10x12	196711	439	427	530	530	23,2	23,
W-10x15	194955	445	447	544	524	22,5	21,9
W-10x15	196681	428	424	528	526	23,2	22,8
W-10x15	196771	445	447	567	543	23,2	23,
W-10x22	196798	413	398	550	535	22,6	21,8
W-10x22	196799	418	416	546	530	22,7	21,9
W-10x26	196741	424	419	529	521	23,7	23,2
W-10x26	196742	423	409	525	525	24,1	23,8
W-10x30	196263	408	398	525	507	22,8	22,1
W-10x30	196733	415	407	531	530	23,4	22,9
W-10x30	196734	414	402	530	528	23,4	23,4
W-10x30	196735	419	401	550	546	23,5	22,8



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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-12x40	196768	415	410	560	553	23,6	23,4
W-12x40	196769	412	402	550	544	23,5	22,7
W-12x40	196770	413	401	538	523	23,5	23,3
W-12x50	196760	401	399	531	512	24,6	24,1
W-12x65	196814	413	403	513	505	24,9	24,6
W-12x72	196801	419	403	523	515	25,8	25,1
W-12x72	196803	409	395	522	509	26,	25,4
W-12x72	196804	404	402	514	507	26,	25,3
W-12x79	196100	399	389	505	501	26,1	25,2
W-12x79	196101	386	409	490	496	26,6	26,4
W-14x22	196360	450	449	602	576	25,	24,
W-14x22	196363	437	431	550	542	23,8	23,3
W-14x22	196364	442	438	555	544	25,	24,2
W-14x22	196366	417	401	518	504	24,2	23,9
W-14x26	195477	431	431	535	519	24,7	23,9
W-14x30	196345	416	412	519	512	24,2	23,2
W-14x30	196346	436	433	537	530	23,9	23,6
W-16x26	196909	454	436	542	521	22,6	22,2
W-16x26	196911	457	442	544	527	22,6	21,9
W-16x26	196912	451	439	547	545	22,6	22,2
W-18x55	195323	420	404	515	509	25,7	25,4
W-18x55	195982	411	407	515	515	23,8	23,4
W-18x86	196954	394	380	511	497	24,8	24,6
W-18x86	196955	404	382	503	511	25,3	24,9
W-21x44	196898	437	426	552	539	23,8	23,5
W-21x44	196990	429	421	524	516	23,4	22,7
W-21x44	196991	430	422	523	507	24,4	23,7
W-21x44	196992	418	406	522	500	23,4	23,
W-21x44	196997	437	435	568	554	23,6	23,1
W-21x44	196999	434	424	542	530	25,5	24,8
W-21x44	197000	429	413	544	537	23,8	23,6
W-21x50	196938	411	398	506	496	24,1	23,8
W-21x50	196940	404	392	509	493	23,9	23,5
W-21x50	196941	414	396	512	500	24,3	23,5
W-21x50	196944	421	415	515	511	24,1	23,8
W-21x50	197002	407	407	536	518	24,7	24,1
W-21x57	196946	419	413	518	518	24,5	23,6
W-21x68	196912	402	384	513	504	24,3	23,9
W-21x73	196914	404	394	512	505	24,4	23,8
W-21x73	196922	403	401	515	501	24,3	23,8
W-24x55	196846	421	415	529	511	24,5	24,1
W-24x55	196847	421	416	536	532	24,8	24,4
W-24x55	196853	404	400	509	493	23,6	23,5
W-24x62	196835	425	423	549	547	23,9	23,5
W-24x62	196939	425	409	521	517	25,2	25,1
W-24x68	196877	389	392	491	494	24,7	24,5
W-24x68	196878	410	400	510	504	24,7	24,2
W-24x68	196915	418	404	529	508	24,5	24,4



ER-0036/1992



MILL TEST CERTIFICATE

OLA P-68094

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-24x76	196853	381	381	497	497	25,1	25,1
W-24x76	196854	395	379	515	503	24,9	24,1
W-24x76	196855	422	418	577	553	25,6	24,6
W-24x76	196864	413	407	531	515	23,8	23,5
W-6x15	196242	439	433	534	530	23,	22,2
W-6x15	196686	419	409	522	504	25,6	24,8
W-6x15	196715	401	401	505	499	25,1	24,3
W-6x20	196249	405	403	508	496	23,5	23,4
W-6x20	196672	402	398	526	523	25,2	25,1
W-6x20	196674	393	381	509	487	24,6	24,5
W-6x25	196212	418	404	529	507	25,8	25,1
W-6x25	196668	400	384	500	493	25,5	24,7
W-8x18	196398	433	423	555	546	23,6	23,4
W-8x18	196399	421	405	553	537	23,8	23,8
W-8x21	196388	425	407	553	548	24,3	23,7
W-8x21	196389	422	420	557	553	23,3	22,9
W-8x21	196390	422	406	542	532	25,6	24,7
W-8x21	196393	449	443	595	585	24,7	24,
W-8x31	195345	437	423	546	544	23,5	22,8
W-8x31	195346	441	425	565	555	23,6	23,

79 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