

ArcelorMittal Olaberria-Bergara

ArcelorMittal Europe – Long Products

CARRETERA MADRID - IRUN, KM. 417

20212 OLABERRIA (Gipuzkoa)

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



MILL TEST CERTIFICATE

OLA P-67246

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	UBC SANTA MARTA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-71306/1700029178	29256	31/01/2020

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	193933
WF BEAMS 6x15	40'	1	18	18	4898	4.898	194724
WF BEAMS 6x15	40'	2	18	36	4898	9.796	194733
WF BEAMS 6x20	40'	1	14	14	5080	5.080	194703
WF BEAMS 6x20	40'	3	14	42	5080	15.240	194704
WF BEAMS 6x25	40'	5	10	50	4535	22.675	194738
WF BEAMS 6x25	40'	5	10	50	4535	22.675	194739
WF BEAMS 8x18	40'	4	16	64	5226	20.904	194690
WF BEAMS 8x21	40'	1	6	6	2286	2.286	194024
WF BEAMS 8x21	40'	9	12	108	4572	41.148	194688
WF BEAMS 8x24	40'	2	10	20	4355	8.710	194109
WF BEAMS 8x24	40'	3	10	30	4355	13.065	194110
WF BEAMS 8x28	40'	1	10	10	5080	5.080	194092
WF BEAMS 8x28	40'	1	10	10	5080	5.080	194096
WF BEAMS 12x30	40'	1	8	8	4355	4.355	194051
WF BEAMS 12x30	40'	1	6	6	3266	3.266	194052
WF BEAMS 12x35	40'	2	8	16	5081	10.162	194046
WF BEAMS 12x40	40'	1	5	5	3629	3.629	192757
WF BEAMS 14x34	40'	2	6	12	3701	7.402	193959
WF BEAMS 14x34	40'	2	6	12	3701	7.402	193960

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 14x34	40'	1	6	6	3701	3.701	194723
WF BEAMS 14x34	40'	1	6	6	3701	3.701	194724
WF BEAMS 14x38	40'	1	6	6	4137	4.137	193956
WF BEAMS 14x38	40'	4	6	24	4137	16.548	194722
WF BEAMS 14x43	40'	1	5	5	3901	3.901	185779
WF BEAMS 14x43	40'	3	5	15	3901	11.703	193845
WF BEAMS 14x43	40'	1	5	5	3901	3.901	193846
WF BEAMS 14x48	40'	1	5	5	4354	4.354	193840
WF BEAMS 14x48	40'	1	4	4	3483	3.483	193836
WF BEAMS 16x36	40'	3	6	18	3919	11.757	194415
WF BEAMS 16x36	40'	3	6	18	3919	11.757	194416
WF BEAMS 16x40	40'	2	6	12	4355	8.710	194408
WF BEAMS 16x40	40'	5	6	30	4355	21.775	194409
WF BEAMS 16x45	40'	6	5	30	4082	24.492	194407
WF BEAMS 18x50	40'	5	5	25	4536	22.680	194631
WF BEAMS 18x55	40'	4	5	20	4990	19.960	194657
WF BEAMS 18x60	40'	5	4	20	4354	21.770	194651
WF BEAMS 18x65	40'	4	4	16	4717	18.868	194642
WF BEAMS 18x65	40'	1	4	4	4717	4.717	194645
WF BEAMS 18x71	40'	4	4	16	5153	20.612	194640
WF BEAMS 14x68	40'	1	4	4	4935	4.935	190277
WF BEAMS 14x68	40'	3	4	12	4935	14.805	193829
WF BEAMS 18x76	40'	1	3	3	4137	4.137	191642
WF BEAMS 18x76	40'	3	3	9	4137	12.411	191645
WF BEAMS 18x76	40'	1	3	3	4137	4.137	191646
WF BEAMS 21x44	40'	1	6	6	4790	4.790	193828
WF BEAMS 21x44	40'	1	6	6	4790	4.790	193829
WF BEAMS 21x73	40'	3	4	12	5298	15.894	194686
WF BEAMS 21x73	40'	1	4	4	5298	5.298	194687
WF BEAMS 24x62	40'	2	4	8	4500	9.000	193684
WF BEAMS 24x68	40'	3	4	12	4935	14.805	193640
WF BEAMS 24x68	40'	1	4	4	4935	4.935	193658
WF BEAMS 24x76	40'	6	3	18	4137	24.822	194502

TOTAL BUNDLES 131

TOTAL WEIGHT 585.037 Kg.

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MILL TEST CERTIFICATE

OLA P-67246

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														CEV				
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al						
808																			
185779	,088	,930	,180	,018	,020	,015	,140	,180	,030	,350	,016	,023	,001	,32					
190277	,082	,880	,210	,025	,021	,012	,200	,150	,034	,480	,015	,025	,004	,32					
191642	,091	,890	,180	,015	,015	,004	,150	,160	,025	,520	,033	,030	,003	,32					
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					
192757	,082	,900	,220	,024	,023	,005	,130	,150	,031	,390	,031	,026	,003	,30					
193640	,064	1,020	,200	,019	,023	,012	,110	,200	,025	,480	,037	,028	,002	,31					
193658	,063	1,020	,200	,018	,022	,004	,140	,180	,026	,410	,035	,027	,003	,31					
193684	,061	1,060	,170	,017	,023	,006	,100	,190	,039	,510	,037	,025	,001	,31					
193828	,089	,960	,250	,018	,019	,005	,080	,160	,025	,410	,036	,034	,002	,31					
193829	,072	,950	,210	,018	,022	,005	,080	,150	,018	,400	,037	,033	,003	,29					
193836	,061	,960	,210	,025	,021	,005	,120	,150	,018	,400	,036	,031	,002	,29					
193840	,058	1,010	,210	,023	,020	,005	,100	,170	,021	,380	,035	,030	,002	,29					
193845	,080	,980	,210	,017	,022	,004	,070	,180	,023	,490	,034	,039	,002	,31					
193846	,076	,920	,210	,015	,021	,003	,070	,160	,022	,410	,030	,041	,002	,29					
193933	,066	,880	,190	,018	,024	,003	,070	,160	,020	,360	,029	,030	,003	,27					
193956	,087	,930	,180	,023	,024	,004	,120	,160	,024	,420	,032	,026	,001	,31					
193959	,078	,910	,170	,017	,025	,005	,090	,170	,020	,370	,034	,028	,002	,29					
193960	,083	,940	,210	,017	,023	,004	,110	,160	,019	,370	,041	,027	,002	,30					
194024	,058	1,140	,230	,020	,020	,006	,170	,140	,024	,340	,039	,027	,003	,32					
194046	,080	,890	,190	,018	,021	,005	,130	,180	,027	,370	,032	,026	,003	,30					
194051	,072	,930	,210	,025	,023	,004	,180	,180	,032	,350	,032	,026	,004	,31					
194052	,120	1,050	,230	,034	,018	,005	,210	,170	,027	,370	,037	,028	,003	,38					
194092	,064	,970	,210	,018	,020	,005	,120	,230	,045	,410	,040	,031	,003	,30					
194096	,073	,980	,190	,019	,021	,005	,120	,240	,045	,390	,036	,023	,003	,31					
194109	,074	,960	,200	,022	,022	,005	,150	,190	,038	,340	,031	,027	,003	,31					
194110	,094	,980	,200	,023	,020	,006	,160	,200	,044	,380	,032	,027	,003	,34					
194407	,066	,980	,180	,015	,021	,005	,080	,240	,047	,490	,033	,027	,001	,30					
194408	,077	,990	,230	,018	,024	,006	,130	,250	,060	,510	,030	,031	,002	,33					
194409	,095	1,060	,220	,014	,024	,005	,100	,200	,042	,440	,036	,028	,003	,34					
194415	,079	,960	,240	,017	,021	,006	,100	,150	,034	,420	,040	,041	,002	,31					
194416	,078	,990	,230	,019	,021	,006	,120	,170	,033	,420	,041	,041	,003	,31					
194502	,094	,890	,170	,016	,019	,005	,110	,150	,037	,320	,034	,026	,001	,30					
194631	,077	1,050	,200	,021	,021	,006	,170	,130	,033	,340	,036	,022	,003	,33					
194640	,073	,960	,210	,019	,022	,005	,090	,150	,037	,300	,031	,025	,003	,29					
194642	,065	,970	,200	,016	,024	,005	,130	,150	,040	,280	,030	,022	,004	,29					
194645	,074	1,010	,210	,019	,021	,006	,100	,150	,033	,340	,037	,021	,001	,30					
194651	,063	1,010	,230	,021	,025	,005	,130	,150	,041	,360	,035	,029	,003	,30					
194657	,091	,950	,230	,019	,021	,004	,140	,170	,041	,370	,033	,028	,003	,32					
194686	,076	1,010	,210	,023	,021	,005	,190	,170	,032	,390	,035	,027	,003	,33					
194687	,102	,980	,220	,021	,020	,005	,140	,160	,031	,380	,032	,028	,003	,34					
194688	,073	1,000	,200	,019	,023	,005	,120	,170	,029	,370	,035	,027	,002	,31					
194690	,090	,970	,210	,021	,020	,005	,150	,140	,029	,390	,031	,029	,002	,32					
194703	,058	,890	,200	,020	,020	,005	,110	,240	,049	,470	,033	,027	,002	,29					
194704	,063	,910	,190	,020	,025	,006	,100	,160	,037	,330	,037	,028	,002	,28					
194722	,067	,960	,180	,018	,022	,006	,140	,170	,036	,350	,038	,022	,001	,30					
194723	,090	,910	,200	,018	,021	,006	,130	,160	,043	,320	,037	,025	,002	,31					
194724	,080	,960	,230	,020	,019	,005	,140	,170	,046	,320	,035	,026	,001	,31					

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ER-0036/1992



MILL TEST CERTIFICATE

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
<i>B08</i>																			
194733	,092	,980	,190	,014	,020	,005	,070	,130	,031	,340	,035	,023	,001	,31					
194738	,072	,940	,200	,019	,024	,005	,120	,180	,031	,390	,038	,025	,001	,30					
194739	,081	,960	,200	,018	,023	,006	,160	,210	,045	,390	,035	,025	,002	,32					
MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES						ReH MPa	Rm MPa	A% LO=8"									
		C11		C12		C13													
<i>B11</i>	<i>B08</i>																		
W-12x30	194051	428	411	584	570	24,7	24,4												
W-12x30	194052	410	396	533	521	24,1	23,7												
W-12x35	194046	392	380	505	491	25,3	24,3												
W-12x40	192757	418	416	537	519	23,8	23,2												
W-14x34	193959	416	400	524	502	24,7	24,												
W-14x34	193960	416	410	519	500	24,5	24,2												
W-14x34	194723	401	393	514	496	25,5	25,5												
W-14x34	194724	410	422	511	512	24,9	25,1												
W-14x38	193956	404	406	501	515	24,2	25,5												
W-14x38	194722	413	397	512	499	24,6	24,1												
W-14x43	185779	411	399	536	521	24,	23,4												
W-14x43	193845	410	408	549	533	24,7	24,3												
W-14x43	193846	430	424	529	519	31,7	31,1												
W-14x48	193836	377	373	489	474	22,9	22,8												
W-14x48	193840	400	394	508	504	26,4	25,5												
W-14x68	190277	410	396	518	510	26,7	26,6												
W-14x68	193829	390	376	508	492	25,9	25,5												
W-16x36	194415	416	411	522	522	23,2	22,5												
W-16x36	194416	452	438	539	521	22,9	22,8												
W-16x40	194408	436	434	538	528	23,5	22,9												
W-16x40	194409	407	401	527	505	23,5	22,8												
W-16x45	194407	417	399	522	500	24,1	24,												
W-18x50	194631	409	407	521	503	25,4	24,9												
W-18x55	194657	397	391	501	497	29,6	28,8												
W-18x60	194651	409	397	506	486	28,8	28,5												
W-18x65	194642	390	384	480	483	26,	25,3												
W-18x65	194645	392	392	492	472	26,2	25,3												
W-18x71	194640	391	376	482	480	24,8	24,5												
W-18x76	191642	416	408	546	522	26,1	25,2												
W-18x76	191645	394	389	506	491	22,6	22,1												
W-18x76	191646	406	390	523	509	26,2	25,9												
W-21x44	193828	424	422	521	500	24,2	23,7												
W-21x44	193829	416	408	530	511	24,3	23,6												
W-21x73	194686	397	391	513	491	29,4	28,6												
W-21x73	194687	405	403	525	505	26,9	26,1												
W-24x62	193684	438	432	528	508	24,6	24,1												
W-24x68	193640	439	439	516	525	24,5	24,1												
W-24x68	193658	428	420	523	515	24,6	24,2												
W-24x76	194502	417	405	522	510	27,6	27,4												
W-6x15	193933	424	412	510	504	22,6	22,5												
W-6x15	194724	431	419	526	510	22,9	22,4												

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B09	C11		C12		C13	
W-6x15	194733	452	422	554	491	22,6	22,1
W-6x20	194703	427	427	515	512	32,3	31,1
W-6x20	194704	431	417	522	512	35,1	34,5
W-6x25	194738	404	413	520	510	24,9	24,3
W-6x25	194739	413	411	532	526	23,2	23,
W-8x18	194690	437	427	572	570	25,9	25,1
W-8x21	194024	429	421	554	543	23,9	23,2
W-8x21	194688	432	418	543	532	25,7	25,4
W-8x24	194109	405	399	507	503	23,	22,2
W-8x24	194110	419	413	548	526	22,6	22,5
W-8x28	194092	409	388	496	526	23,	23,1
W-8x28	194096	402	392	519	511	22,8	22,3

51 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

ArcelorMittal Olaberria-Bergara
 Jose Maria Giland