

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-67245

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-71307/1700029169	29255	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'	4	18	72	4898	19.592	194724
WF BEAMS 6x15	40'	4	18	72	4898	19.592	194731
WF BEAMS 6x15	40'	2	18	36	4898	9.796	194733
WF BEAMS 6x20	40'	2	14	28	5080	10.160	194703
WF BEAMS 6x20	40'	2	14	28	5080	10.160	194704
WF BEAMS 6x25	40'	2	10	20	4535	9.070	194739
WF BEAMS 8x31	40'	5	8	40	4499	22.495	194475
WF BEAMS 8x35	40'	1	8	8	5081	5.081	194090
WF BEAMS 8x35	40'	1	8	8	5081	5.081	194091
WF BEAMS 8x18	40'	2	16	32	5226	10.452	194029
WF BEAMS 8x18	40'	5	16	80	5226	26.130	194690
WF BEAMS 8x18	40'	9	16	144	5226	47.034	194691
WF BEAMS 8x18	40'	1	16	16	5226	5.226	194692
WF BEAMS 8x21	40'	8	12	96	4572	36.576	194688
WF BEAMS 10x26	40'	1	10	10	4717	4.717	194066
WF BEAMS 10x30	40'	1	8	8	4370	4.370	194056
WF BEAMS 10x30	40'	1	8	8	4370	4.370	194057
WF BEAMS 10x39	40'	1	6	6	4246	4.246	193863
WF BEAMS 10x39	40'	2	6	12	4246	8.492	193864
WF BEAMS 12x16	40'	1	2	2	581	581	194038



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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 12x19	40´	1	14	14	4827	4.827	193996
WF BEAMS 12x19	40´	1	14	14	4827	4.827	193997
WF BEAMS 12x19	40´	1	8	8	2758	2.758	193995
WF BEAMS 14x22	40´	1	9	9	3592	3.592	193959
WF BEAMS 14x22	40´	5	9	45	3592	17.960	194768
WF BEAMS 14x22	40´	10	9	90	3592	35.920	194769
WF BEAMS 14x22	40´	8	9	72	3592	28.736	194770
WF BEAMS 14x22	40´	5	9	45	3592	17.960	194771
WF BEAMS 14x26	40´	2	9	18	4245	8.490	193952
WF BEAMS 14x26	40´	1	8	8	3774	3.774	193946
WF BEAMS 14x26	40´	2	8	16	3774	7.548	193947
WF BEAMS 14x30	40´	19	6	114	3266	62.054	194742
WF BEAMS 14x30	40´	13	6	78	3266	42.458	194743
WF BEAMS 14x30	40´	5	6	30	3266	16.330	194744
WF BEAMS 14x30	40´	1	6	6	3266	3.266	194745
WF BEAMS 14x34	40´	4	6	24	3701	14.804	194723
WF BEAMS 14x34	40´	1	6	6	3701	3.701	194724
WF BEAMS 14x38	40´	8	6	48	4137	33.096	194722
WF BEAMS 16x26	40´	12	7	84	3302	39.624	194654
WF BEAMS 16x26	40´	1	7	7	3302	3.302	194655
WF BEAMS 16x31	40´	11	7	77	3937	43.307	194643
WF BEAMS 16x36	40´	10	6	60	3919	39.190	194415
WF BEAMS 16x36	40´	6	6	36	3919	23.514	194416
WF BEAMS 16x40	40´	1	6	6	4355	4.355	194408
WF BEAMS 16x40	40´	5	6	30	4355	21.775	194409
WF BEAMS 16x45	40´	10	5	50	4082	40.820	194407
WF BEAMS 16x45	40´	13	5	65	4082	53.066	194408
WF BEAMS 16x50	40´	5	5	25	4536	22.680	194389
WF BEAMS 16x50	40´	8	5	40	4536	36.288	194422
WF BEAMS 16x50	40´	1	4	4	3629	3.629	193382
WF BEAMS 16x57	40´	1	1	1	1034	1.034	193380
WF BEAMS 16x57	40´	5	5	25	5171	25.855	194389
WF BEAMS 18x35	40´	6	7	42	4446	26.676	194662
WF BEAMS 18x35	40´	1	7	7	4446	4.446	194663
WF BEAMS 18x35	40´	1	6	6	3810	3.810	193988
WF BEAMS 18x50	40´	18	5	90	4536	81.648	194630
WF BEAMS 18x50	40´	9	5	45	4536	40.824	194631



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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 18x55	40´	2	5	10	4990	9.980	194656
WF BEAMS 18x55	40´	3	5	15	4990	14.970	194657
WF BEAMS 18x60	40´	6	4	24	4354	26.124	194651
WF BEAMS 18x65	40´	1	4	4	4717	4.717	194642
WF BEAMS 18x65	40´	6	4	24	4717	28.302	194645
WF BEAMS 12x65	40´	1	3	3	3538	3.538	194482
WF BEAMS 12x65	40´	13	3	39	3538	45.994	194483
WF BEAMS 12x65	40´	4	3	12	3538	14.152	194484
WF BEAMS 18x76	40´	2	3	6	4137	8.274	191642
WF BEAMS 18x76	40´	1	3	3	4137	4.137	191643
WF BEAMS 18x76	40´	1	3	3	4137	4.137	191644
WF BEAMS 18x76	40´	3	3	9	4137	12.411	191645
WF BEAMS 18x76	40´	3	3	9	4137	12.411	191646
WF BEAMS 18x76	40´	1	3	3	4137	4.137	191650
WF BEAMS 21x50	40´	1	5	5	4536	4.536	193817
WF BEAMS 21x62	40´	5	4	20	4500	22.500	194677
WF BEAMS 21x62	40´	3	4	12	4500	13.500	194678
WF BEAMS 21x62	40´	2	4	8	4500	9.000	194679
WF BEAMS 21x68	40´	2	4	8	4935	9.870	193809
WF BEAMS 21x68	40´	3	4	12	4935	14.805	193811
WF BEAMS 21x68	40´	1	3	3	3701	3.701	193809
WF BEAMS 21x73	40´	7	4	28	5298	37.086	194686
WF BEAMS 21x83	40´	5	3	15	4518	22.590	194683
WF BEAMS 21x83	40´	3	3	9	4518	13.554	194689
WF BEAMS 24x55	40´	1	5	5	4990	4.990	193717
WF BEAMS 24x55	40´	1	5	5	4990	4.990	193718
WF BEAMS 24x84	40´	3	3	9	4572	13.716	194506
WF BEAMS 24x84	40´	4	3	12	4572	18.288	194513
WF BEAMS 24x84	40´	3	3	9	4572	13.716	194531

TOTAL BUNDLES 358

TOTAL WEIGHT 1.491.291 Kg.

A02 EN 10204/3.1

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

OLAP67245 (B01/B02/B03) A03

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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																		
191642	,091	,890	,180	,015	,015	,004	,150	,160	,025	,520	,033	,030	,003	,32				
191643	,077	,960	,190	,020	,017	,005	,200	,180	,026	,480	,040	,030	,003	,33				
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				
191650	,090	,950	,190	,016	,019	,004	,150	,180	,031	,410	,029	,019	,003	,32				
193380	,116	,900	,240	,018	,018	,004	,090	,150	,025	,490	,030	,026	,003	,33				
193382	,078	1,060	,190	,018	,021	,004	,110	,150	,017	,450	,033	,027	,003	,32				
193717	,068	,960	,200	,018	,024	,004	,070	,170	,028	,410	,035	,026	,002	,29				
193718	,069	,960	,200	,018	,023	,005	,080	,160	,028	,430	,035	,026	,001	,29				
193809	,063	1,010	,200	,017	,022	,005	,080	,160	,028	,320	,036	,029	,001	,29				
193811	,065	,930	,190	,019	,026	,004	,080	,190	,034	,350	,035	,033	,001	,28				
193817	,082	1,080	,200	,022	,026	,005	,120	,180	,025	,400	,033	,033	,004	,33				
193863	,058	1,030	,230	,024	,021	,004	,100	,150	,023	,460	,032	,023	,003	,30				
193864	,071	1,070	,200	,025	,026	,004	,100	,160	,019	,430	,033	,026	,003	,31				
193946	,060	,890	,200	,020	,025	,004	,070	,170	,019	,440	,033	,029	,002	,27				
193947	,066	,910	,190	,019	,020	,004	,070	,170	,019	,480	,034	,031	,002	,28				
193952	,081	,910	,200	,018	,022	,003	,080	,160	,019	,410	,033	,035	,003	,29				
193959	,078	,910	,170	,017	,025	,005	,090	,170	,020	,370	,034	,028	,002	,29				
193988	,095	,980	,180	,015	,022	,003	,100	,170	,032	,400	,032	,029	,001	,32				
193995	,073	,900	,220	,015	,021	,005	,080	,180	,022	,420	,036	,027	,002	,28				
193996	,067	,960	,200	,019	,024	,004	,110	,160	,023	,370	,032	,027	,003	,29				
193997	,065	,970	,170	,021	,024	,005	,140	,320	,042	,450	,034	,029	,003	,32				
194029	,098	,980	,220	,030	,025	,005	,130	,230	,032	,390	,036	,033	,003	,34				
194038	,079	,980	,200	,016	,023	,005	,110	,170	,034	,360	,037	,023	,001	,31				
194056	,085	,990	,230	,017	,019	,005	,120	,180	,037	,340	,031	,029	,003	,32				
194057	,077	,920	,160	,023	,018	,005	,160	,150	,033	,310	,030	,028	,004	,30				
194066	,083	1,000	,170	,018	,018	,006	,280	,200	,058	,350	,032	,023	,001	,36				
194090	,076	,950	,190	,016	,020	,005	,140	,260	,038	,470	,035	,033	,004	,32				
194091	,070	,990	,190	,019	,023	,006	,160	,230	,038	,420	,040	,033	,004	,32				
194389	,067	,910	,180	,016	,023	,006	,080	,140	,032	,340	,031	,032	,001	,27				
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				
194422	,070	1,030	,190	,021	,022	,008	,140	,160	,035	,400	,039	,034	,001	,32				
194475	,096	1,020	,250	,019	,023	,006	,120	,170	,043	,380	,031	,029	,002	,34				
194482	,070	1,010	,200	,016	,022	,008	,130	,130	,032	,310	,036	,027	,001	,30				
194483	,069	,940	,210	,017	,021	,006	,130	,170	,032	,350	,032	,031	,003	,29				
194484	,062	,940	,190	,021	,019	,005	,140	,140	,024	,350	,030	,031	,002	,29				
194506	,071	,940	,220	,019	,021	,005	,100	,170	,041	,330	,035	,031	,001	,29				
194513	,064	,940	,220	,020	,021	,005	,120	,170	,038	,360	,032	,025	,001	,29				
194531	,085	,980	,200	,017	,021	,005	,110	,190	,030	,350	,036	,036	,003	,31				
194630	,071	,980	,180	,019	,024	,006	,150	,140	,028	,350	,033	,031	,002	,30				
194631	,077	1,050	,200	,021	,021	,006	,170	,130	,033	,340	,036	,022	,003	,33				
194642	,065	,970	,200	,016	,024	,005	,130	,150	,040	,280	,030	,022	,004	,29				
194643	,059	1,040	,240	,017	,019	,005	,090	,170	,049	,340	,032	,022	,003	,30				

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ER-0036/1992



MILL TEST CERTIFICATE

OLA P-67245

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-12x65	194483	392	386	491	472	25,5	24,9
W-12x65	194484	434	435	560	559	25,1	25,3
W-14x22	193959	424	414	530	507	24,5	24,2
W-14x22	194768	450	444	546	538	25,2	25,2
W-14x22	194769	452	444	556	544	25,3	25,1
W-14x22	194770	446	432	552	532	25,3	24,6
W-14x22	194771	442	430	541	533	24,8	23,9
W-14x26	193946	434	418	528	510	24,4	24,
W-14x26	193947	428	424	530	508	24,7	23,7
W-14x26	193952	424	412	509	495	24,	23,2
W-14x30	194742	419	409	515	503	22,5	22,5
W-14x30	194743	420	406	524	518	22,8	22,2
W-14x30	194744	436	426	545	541	23,3	22,8
W-14x30	194745	434	418	539	533	22,6	22,6
W-14x34	194723	401	393	514	496	25,5	25,5
W-14x34	194724	410	422	511	512	24,9	25,1
W-14x38	194722	413	397	512	499	24,6	24,1
W-16x26	194654	432	422	516	505	23,	22,4
W-16x26	194655	444	439	527	506	24,	23,3
W-16x31	194643	436	426	524	510	22,7	22,5
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-16x45	194408	427	411	528	512	24,2	23,4
W-16x50	193382	362	363	482	481	24,	23,5
W-16x50	194389	400	392	506	486	23,9	23,4
W-16x50	194422	405	395	511	491	23,8	23,6
W-16x57	193380	393	389	542	522	24,9	24,7
W-16x57	194389	378	368	496	474	25,	24,3
W-18x35	193988	376	428	533	528	22,9	26,9
W-18x35	194662	424	414	533	523	27,7.	26,7
W-18x35	194663	437	425	523	522	26,6	26,
W-18x50	194630	411	403	515	501	25,6	25,2
W-18x50	194631	409	407	521	503	25,4	24,9
W-18x55	194656	404	392	522	512	28,5	27,5
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-18x76	191642	416	408	546	522	26,1	25,2
W-18x76	191643	398	401	505	496	27,2	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	191650	412	408	549	537	26,3	25,3
W-21x50	193817	431	425	546	525	24,3	23,6



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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-21x62	194677	414	406	513	497	23,4	23,
W-21x62	194678	403	400	511	497	23,8	23,4
W-21x62	194679	411	412	496	516	25,2	24,5
W-21x68	193809	409	406	512	511	25,2	26,9
W-21x68	193811	409	397	502	500	26,5	26,4
W-21x73	194686	397	391	513	491	29,4	28,6
W-21x83	194683	385	383	491	491	24,2	24,1
W-21x83	194689	383	395	506	514	27,7	27,8
W-24x55	193717	411	419	517	505	23,9	23,6
W-24x55	193718	438	422	516	514	23,9	23,4
W-24x84	194506	417	421	510	479	27,3	26,2
W-24x84	194513	384	376	481	478	27,6	26,8
W-24x84	194531	392	392	498	490	27,7	27,2
W-6x15	194724	431	419	526	510	22,9	22,4
W-6x15	194731	409	409	513	491	22,8	22,3
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	194739	413	411	532	526	23,2	23,
W-8x18	194029	435	424	549	533	24,1	23,8
W-8x18	194690	437	427	572	570	25,9	25,1
W-8x18	194691	429	425	573	558	25,7	25,7
W-8x18	194692	423	421	545	537	25,2	24,9
W-8x21	194688	432	418	543	532	25,7	25,4
W-8x31	194475	401	390	504	492	24,2	23,8
W-8x35	194090	431	417	538	522	24,6	24,
W-8x35	194091	418	410	533	523	24,7	23,8

82 análisis

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

B06: Marca AMO

Responsable: **Mittal Olaberria-Bergara**

Jose Maria Galindo