

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-67948**

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			<b>PASAJES, SPAIN</b>
		PORT OF DISCHARGE	VESSEL
		<b>VERACRUZ</b>	<b>JOO HYE</b>
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
<b>P1704510</b>	<b>E-71775/1700029380</b>	<b>29417</b>	<b>28/03/2020</b>

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
<b>+/RED</b>							
WF BEAMS 10x19	40´	1	2	2	690	690	194057
WF BEAMS 14x43	40´	1	5	5	3901	3.901	195943
WF BEAMS 14x43	40´	3	5	15	3901	11.703	195945
WF BEAMS 14x48	40´	1	5	5	4354	4.354	195953
WF BEAMS 14x48	40´	1	5	5	4354	4.354	195954
WF BEAMS 14x48	40´	3	5	15	4354	13.062	195955
WF BEAMS 14x53	40´	1	5	5	4808	4.808	195949
WF BEAMS 14x53	40´	3	5	15	4808	14.424	195950
WF BEAMS 16x31	40´	3	7	21	3937	11.811	194643
WF BEAMS 12x65	40´	4	3	12	3538	14.152	195805
WF BEAMS 21x44	40´	8	6	48	4790	38.320	195841
WF BEAMS 21x44	40´	2	6	12	4790	9.580	195845
WF BEAMS 21x44	40´	1	6	6	4790	4.790	195847
WF BEAMS 21x44	40´	1	6	6	4790	4.790	195848
WF BEAMS 21x50	40´	1	1	1	907	907	193799
WF BEAMS 21x50	40´	7	5	35	4536	31.752	195853
WF BEAMS 21x57	40´	1	5	5	5171	5.171	193819
WF BEAMS 21x57	40´	2	5	10	5171	10.342	195855
WF BEAMS 21x57	40´	1	4	4	4137	4.137	195855
WF BEAMS 21x68	40´	3	4	12	4935	14.805	195199

## MILL TEST CERTIFICATE

OLA P-67948

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 24x62	40´	2	4	8	4500	9.000	195838
WF BEAMS 24x62	40´	1	3	3	3375	3.375	195837
WF BEAMS 24x84	40´	2	3	6	4572	9.144	194531
WF BEAMS 24x84	40´	4	3	12	4572	18.288	195184

TOTAL BUNDLES

57

TOTAL WEIGHT

247.660 Kg.

A02 EN 10204/3.1

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

(B01/B02/B03) A03

OLAP67948

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														CEV				
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al						
B08																			
193799	,073	,970	,220	,014	,020	,004	,090	,130	,022	,300	,032	,037	,002	,29					
193819	,086	,910	,210	,018	,026	,004	,070	,190	,028	,380	,032	,041	,003	,30					
194057	,077	,920	,160	,023	,018	,005	,160	,150	,033	,310	,030	,028	,004	,30					
194531	,085	,980	,200	,017	,021	,005	,110	,190	,030	,350	,036	,036	,003	,31					
194643	,059	1,040	,240	,017	,019	,005	,090	,170	,049	,340	,032	,022	,003	,30					
195184	,078	1,020	,180	,018	,023	,007	,090	,190	,042	,340	,032	,016	,001	,31					
195199	,058	1,110	,180	,020	,023	,008	,120	,190	,036	,350	,037	,018	,001	,31					
195805	,081	,920	,200	,023	,025	,004	,120	,160	,034	,410	,032	,025	,002	,30					
195837	,071	,970	,180	,021	,021	,004	,120	,190	,031	,450	,031	,025	,004	,31					
195838	,068	,880	,170	,019	,019	,004	,130	,230	,037	,440	,031	,025	,003	,29					
195841	,075	,960	,170	,014	,022	,004	,080	,160	,055	,400	,031	,023	,001	,30					
195845	,093	,940	,210	,016	,025	,010	,100	,170	,044	,350	,031	,027	,003	,32					
195847	,084	,960	,190	,017	,021	,004	,110	,200	,042	,330	,033	,025	,003	,31					
195848	,078	,950	,170	,017	,023	,005	,110	,210	,048	,330	,033	,024	,001	,30					
195853	,073	1,040	,200	,021	,021	,005	,160	,150	,026	,340	,035	,025	,002	,32					
195855	,078	,920	,220	,021	,024	,004	,110	,170	,050	,420	,032	,023	,004	,30					
195943	,095	,910	,180	,019	,022	,004	,140	,160	,033	,390	,032	,021	,002	,32					
195945	,092	,950	,210	,020	,024	,005	,100	,170	,037	,390	,033	,023	,004	,32					
195949	,083	,900	,180	,021	,025	,004	,130	,160	,041	,390	,029	,024	,001	,30					
195950	,080	,940	,220	,023	,025	,005	,160	,180	,045	,440	,034	,023	,003	,32					
195953	,074	,930	,180	,024	,023	,005	,130	,210	,055	,470	,030	,023	,001	,31					
195954	,069	,920	,210	,022	,024	,003	,120	,180	,046	,430	,031	,022	,003	,30					
195955	,059	,950	,210	,032	,021	,004	,210	,180	,040	,460	,034	,026	,003	,31					

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-10x19	194057	447	431	553	531	23,1	22,5
W-12x65	195805	418	412	534	530	24,9	24,5
W-14x43	195943	400	404	560	498	24,9	24,7
W-14x43	195945	409	407	536	533	25,1	24,8
W-14x48	195953	381	373	504	502	23,4	22,6
W-14x48	195954	413	404	542	528	23,	22,5
W-14x48	195955	417	399	551	529	25,2	24,4
W-14x53	195949	399	397	536	517	24,8	24,
W-14x53	195950	389	385	504	500	24,6	24,4
W-16x31	194643	436	426	524	510	22,7	22,5

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-67948**

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B06	C11		C12		C13	
W-21x44	195841	425	409	526	508	24,	23,6
W-21x44	195845	424	416	531	507	23,6	23,3
W-21x44	195847	414	402	518	512	23,6	22,7
W-21x44	195848	426	410	523	516	22,8	22,6
W-21x50	193799	426	414	514	505	24,1	23,7
W-21x50	195853	442	436	539	527	25,	24,1
W-21x57	193819	409	393	514	533	23,3	22,8
W-21x57	195855	425	421	509	507	25,	24,8
W-21x68	195199	397	395	499	491	31,	30,6
W-24x62	195837	415	399	497	495	24,4	24,
W-24x62	195838	419	415	536	522	24,2	24,
W-24x84	194531	392	392	498	490	27,7	27,2
W-24x84	195184	387	390	513	527	27,4	26,4

**23 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