

ArcelorMittal Gipuzkoa, S.L.U.

ArcelorMittal Europe – Long Products

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Guipúzcoa)

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



## MILL TEST CERTIFICATE

OLA P-56795

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. S. Francisco Chilpan. Tul MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			PASAJES, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	NOMADIC HJELLESTAD
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-61420/1700025835	26191	30/11/2017

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

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

ARCELORMITTAL GUIPUZKOA, 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 10x12	40'	1	22	22	4790	4.790	176422
WF BEAMS 10x12	40'	1	6	6	1306	1.306	176422
WF BEAMS 10x39	40'	1	8	8	5661	5.661	174992
WF BEAMS 10x39	40'	1	8	8	5661	5.661	174993
WF BEAMS 10x39	40'	1	8	8	5661	5.661	174994
WF BEAMS 10x39	40'	1	8	8	5661	5.661	176552
WF BEAMS 12x22	40'	2	12	24	4790	9.580	177074
WF BEAMS 12x22	40'	1	12	12	4790	4.790	177075
WF BEAMS 12x22	40'	1	12	12	4790	4.790	177076
WF BEAMS 12x26	40'	3	10	30	4717	14.151	177040
WF BEAMS 12x26	40'	3	10	30	4717	14.151	177041
WF BEAMS 12x26	40'	3	10	30	4717	14.151	177043
WF BEAMS 12x26	40'	4	10	40	4717	18.868	177046
WF BEAMS 12x26	40'	5	10	50	4717	23.585	177053
WF BEAMS 12x30	40'	1	8	8	4355	4.355	177063
WF BEAMS 12x30	40'	5	8	40	4355	21.775	177072
WF BEAMS 12x40	40'	1	5	5	3629	3.629	176668
WF BEAMS 12x40	40'	3	5	15	3629	10.887	176670

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 12x40	40'	1	5	5	3629	3.629	176671
WF BEAMS 12x45	40'	1	5	5	4082	4.082	175169
WF BEAMS 12x45	40'	2	5	10	4082	8.164	176662
WF BEAMS 12x45	40'	4	5	20	4082	16.328	176663
WF BEAMS 12x50	40'	4	5	20	4536	18.144	176656
WF BEAMS 14x26	40'	3	9	27	4245	12.735	174686
WF BEAMS 14x26	40'	1	9	9	4245	4.245	176272
WF BEAMS 14x43	40'	3	5	15	3901	11.703	176632
WF BEAMS 14x43	40'	1	5	5	3901	3.901	176633
WF BEAMS 14x43	40'	3	5	15	3901	11.703	176634
WF BEAMS 14x43	40'	8	5	40	3901	31.208	176637
WF BEAMS 14x48	40'	1	5	5	4354	4.354	176624
WF BEAMS 14x48	40'	2	5	10	4354	8.708	176626
WF BEAMS 14x48	40'	2	5	10	4354	8.708	176627
WF BEAMS 14x53	40'	7	5	35	4808	33.656	176619
WF BEAMS 14x53	40'	5	5	25	4808	24.040	176621
WF BEAMS 14x53	40'	1	2	2	1923	1.923	176619
WF BEAMS 16x31	40'	2	7	14	3937	7.874	176794
WF BEAMS 16x31	40'	3	7	21	3937	11.811	176795
WF BEAMS 16x31	40'	2	7	14	3937	7.874	176796
WF BEAMS 16x31	40'	4	7	28	3937	15.748	176802
WF BEAMS 16x31	40'	2	7	14	3937	7.874	176803
WF BEAMS 16x36	40'	8	6	48	3919	31.352	176765
WF BEAMS 16x36	40'	2	6	12	3919	7.838	176766
WF BEAMS 16x40	40'	9	6	54	4355	39.195	176789
WF BEAMS 16x40	40'	4	6	24	4355	17.420	176790
WF BEAMS 16x40	40'	1	6	6	4355	4.355	176791
WF BEAMS 16x45	40'	8	5	40	4082	32.656	176785
WF BEAMS 16x45	40'	7	5	35	4082	28.574	176786
WF BEAMS 16x57	40'	2	5	10	5171	10.342	175081
WF BEAMS 16x57	40'	2	5	10	5171	10.342	176815
WF BEAMS 18x46	40'	4	6	24	5008	20.032	176706
WF BEAMS 18x60	40'	3	4	12	4354	13.062	176560
WF BEAMS 18x60	40'	2	4	8	4354	8.708	176561
WF BEAMS 18x60	40'	2	4	8	4354	8.708	176562
WF BEAMS 18x65	40'	6	4	24	4717	28.302	176607
WF BEAMS 18x65	40'	3	4	12	4717	14.151	176608

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ER-0036/1992

**MILL TEST CERTIFICATE****OLA P-56795**

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 18x65	40´	2	4	8	4717	9.434	176609
WF BEAMS 21x83	40´	1	3	3	4518	4.518	174283
WF BEAMS 24x55	40´	4	5	20	4990	19.960	176068
WF BEAMS 24x55	40´	1	5	5	4990	4.990	176069
WF BEAMS 24x55	40´	1	5	5	4990	4.990	176071
WF BEAMS 24x68	40´	1	4	4	4935	4.935	173461
WF BEAMS 24x68	40´	1	4	4	4935	4.935	173499
WF BEAMS 24x84	40´	4	3	12	4572	18.288	176031
WF BEAMS 24x84	40´	4	3	12	4572	18.288	176032
WF BEAMS 24x84	40´	1	3	3	4572	4.572	176033
WF BEAMS 24x94	40´	1	3	3	5117	5.117	174268

TOTAL BUNDLES 184

TOTAL WEIGHT 806.928 Kg.

A02 EN 10204/3.1

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

(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				
<i>B08</i>																		
176794	,069	,910	,200	,025	,022	,054	,140	,190	,035	,390	,010	,019	,005	,31				
176795	,070	,890	,200	,022	,020	,056	,140	,130	,029	,400	,010	,021	,004	,30				
176796	,063	,910	,210	,024	,021	,054	,180	,110	,027	,360	,011	,024	,005	,30				
176802	,080	,910	,190	,023	,019	,058	,160	,180	,036	,250	,010	,015	,004	,31				
176803	,095	,950	,190	,023	,019	,055	,180	,150	,035	,280	,010	,016	,004	,34				
176815	,088	,950	,190	,022	,019	,060	,160	,110	,023	,380	,011	,019	,003	,33				
177040	,067	,870	,190	,016	,022	,058	,130	,120	,026	,320	,008	,013	,005	,28				
177041	,072	,890	,190	,018	,025	,055	,130	,120	,024	,340	,010	,014	,003	,29				
177043	,071	,920	,180	,021	,022	,058	,110	,140	,028	,350	,009	,014	,002	,30				
177046	,084	,880	,190	,031	,017	,058	,160	,150	,036	,340	,005	,016	,004	,31				
177053	,085	,910	,190	,020	,018	,055	,110	,200	,040	,330	,008	,014	,005	,31				
177063	,073	,970	,190	,025	,020	,049	,220	,140	,036	,360	,009	,016	,004	,33				
177072	,106	1,010	,200	,021	,018	,050	,120	,200	,030	,380	,010	,025	,003	,35				
177074	,077	1,000	,190	,021	,019	,050	,100	,170	,027	,440	,009	,028	,004	,32				
177075	,075	1,010	,190	,023	,017	,057	,110	,140	,024	,400	,008	,023	,005	,32				
177076	,083	1,040	,230	,021	,020	,057	,120	,150	,031	,400	,010	,023	,005	,33				
MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES																
		ReH MPa		Rm MPa		A% LO=8"												
<i>B11</i>	<i>B08</i>	<i>C11</i>		<i>C12</i>		<i>C13</i>												
W-10x12	176422	448	432	548	530	24,8	24,4											
W-10x39	174992	395	389	479	486	22,2	22,1											
W-10x39	174993	397	388	483	475	22,1	21,7											
W-10x39	174994	401	395	517	503	22,5	21,7											
W-10x39	176552	424	414	544	526	24,5	24,2											
W-12x22	177074	420	412	524	512	23,	23,											
W-12x22	177075	446	440	554	552	23,3	22,4											
W-12x22	177076	447	435	537	521	23,6	22,7											
W-12x26	177040	396	388	495	487	23,7	23,2											
W-12x26	177041	400	390	496	490	23,5	22,9											
W-12x26	177043	403	401	503	501	24,1	23,3											
W-12x26	177046	452	442	564	557	23,3	23,											
W-12x26	177053	415	408	531	521	22,4	22,1											
W-12x30	177063	429	421	550	540	23,3	22,7											
W-12x30	177072	425	414	531	525	23,2	22,8											
W-12x40	176668	435	435	503	536	22,5	22,9											
W-12x40	176670	419	413	519	509	22,8	22,5											
W-12x40	176671	418	407	523	535	22,2	22,6											
W-12x45	175169	411	405	517	513	22,4	22,											
W-12x45	176662	404	402	503	501	22,8	22,3											
W-12x45	176663	443	437	563	541	22,7	22,3											
W-12x50	176656	402	391	508	496	23,3	22,9											
W-14x26	174686	445	433	533	526	23,2	22,6											
W-14x26	176272	447	413	510	504	22,4	22,7											
W-14x43	176632	412	406	522	502	23,2	23,											
W-14x43	176633	409	407	512	496	22,7	22,6											
W-14x43	176634	407	393	507	505	22,5	22,4											
W-14x43	176637	421	415	524	512	23,	22,2											

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-14x48	176624	388	378	492	472	23,	22,4
W-14x48	176626	415	403	517	513	23,	22,3
W-14x48	176627	405	394	510	502	23,2	22,5
W-14x53	176619	418	406	522	502	23,6	22,7
W-14x53	176621	415	405	536	526	23,4	23,1
W-16x31	176794	407	451	543	530	22,2	23,8
W-16x31	176795	445	439	524	517	24,2	23,8
W-16x31	176796	430	418	514	512	24,1	23,8
W-16x31	176802	446	442	543	529	22,4	22,
W-16x31	176803	431	425	530	526	22,2	22,2
W-16x36	176765	426	414	539	522	24,9	24,1
W-16x36	176766	444	438	532	521	24,7	24,3
W-16x40	176789	419	414	522	508	23,6	23,
W-16x40	176790	423	413	529	525	23,9	23,9
W-16x40	176791	398	420	517	513	22,	22,1
W-16x45	176785	439	433	554	542	22,5	22,4
W-16x45	176786	436	436	537	529	22,7	22,3
W-16x57	175081	427	425	542	534	23,3	22,7
W-16x57	176815	415	427	536	530	23,4	22,7
W-18x46	176706	425	413	538	516	22,9	22,7
W-18x60	176560	406	390	503	493	23,6	22,9
W-18x60	176561	429	411	521	505	23,4	22,8
W-18x60	176562	430	412	530	530	23,7	23,3
W-18x65	176607	433	423	533	525	23,8	23,1
W-18x65	176608	411	406	510	507	23,9	23,1
W-18x65	176609	412	404	513	507	23,5	23,1
W-21x83	174283	423	402	527	509	23,1	23,6
W-24x55	176068	431	419	520	510	22,7	22,4
W-24x55	176069	396	394	505	493	22,7	22,6
W-24x55	176071	408	398	512	500	22,8	22,3
W-24x68	173461	420	414	528	505	23,	22,5
W-24x68	173499	433	415	540	523	23,3	22,7
W-24x84	176031	402	401	513	510	23,8	22,5
W-24x84	176032	407	431	530	536	23,1	22,2
W-24x84	176033	394	384	495	500	24,3	24,
W-24x94	174268	427	417	493	546	23,7	25,5

## 64 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*  
 ArcelorMittal Gipuzkoa, S.L.U.  
 Jose Maria Galindo