



## MILL TEST CERTIFICATE

## OLA P-64922

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. 419 20212 OLABERRIA (Gipuzkoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			PASAJES, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	ERASMUSGRACHT
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-68940/1700028489	28499	25/07/2019

Material: "WFB-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 6x20	40'	1	14	14	5080	5.080	189797
WF BEAMS 6x25	40'	3	10	30	4535	13.605	189912
WF BEAMS 8x35	40'	3	8	24	5081	15.243	189849
WF BEAMS 8x18	40'	1	16	16	5226	5.226	188934
WF BEAMS 10x15	40'	2	18	36	4898	9.796	190022
WF BEAMS 10x19	40'	1	5	5	1724	1.724	189994
WF BEAMS 10x26	40'	2	10	20	4717	9.434	189919
WF BEAMS 10x30	40'	1	8	8	4370	4.370	187872
WF BEAMS 10x30	40'	4	8	32	4370	17.480	187902
WF BEAMS 10x30	40'	1	8	8	4370	4.370	189916
WF BEAMS 10x30	40'	1	2	2	1092	1.092	189916
WF BEAMS 10x49	40'	1	6	6	5334	5.334	190227
WF BEAMS 10x49	40'	6	6	36	5334	32.004	190991
WF BEAMS 10x54	40'	3	4	12	3919	11.757	190966
WF BEAMS 10x68	40'	1	4	4	4935	4.935	190244
WF BEAMS 12x16	40'	3	18	54	5225	15.675	189790
WF BEAMS 12x22	40'	2	12	24	4790	9.580	189765
WF BEAMS 12x30	40'	1	8	8	4355	4.355	189706



## MILL TEST CERTIFICATE

## OLA P-64922

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 12x35	40'	1	8	8	5081	5.081	189703
WF BEAMS 12x40	40'	11	5	55	3629	39.919	191141
WF BEAMS 12x40	40'	5	5	25	3629	18.145	191142
WF BEAMS 12x40	40'	2	5	10	3629	7.258	191143
WF BEAMS 12x45	40'	6	5	30	4082	24.492	191140
WF BEAMS 12x50	40'	5	5	25	4536	22.680	191137
WF BEAMS 12x50	40'	1	5	5	4536	4.536	191138
WF BEAMS 12x50	40'	3	5	15	4536	13.608	191139
WF BEAMS 14x26	40'	1	9	9	4245	4.245	188838
WF BEAMS 14x26	40'	1	9	9	4245	4.245	188839
WF BEAMS 14x26	40'	2	9	18	4245	8.490	189928
WF BEAMS 14x26	40'	1	4	4	1887	1.887	189928
WF BEAMS 14x34	40'	5	6	30	3701	18.505	190033
WF BEAMS 14x38	40'	2	6	12	4137	8.274	190039
WF BEAMS 16x26	40'	1	7	7	3302	3.302	189422
WF BEAMS 16x26	40'	23	7	161	3302	75.946	191123
WF BEAMS 16x26	40'	6	7	42	3302	19.812	191125
WF BEAMS 16x26	40'	1	7	7	3302	3.302	191127
WF BEAMS 16x26	40'	5	7	35	3302	16.510	191130
WF BEAMS 16x31	40'	8	7	56	3937	31.496	191129
WF BEAMS 16x36	40'	6	6	36	3919	23.514	191098
WF BEAMS 16x36	40'	12	6	72	3919	47.028	191102
WF BEAMS 16x36	40'	5	6	30	3919	19.595	191103
WF BEAMS 16x40	40'	1	6	6	4355	4.355	187298
WF BEAMS 16x40	40'	1	6	6	4355	4.355	189339
WF BEAMS 16x40	40'	4	6	24	4355	17.420	191113
WF BEAMS 16x40	40'	6	6	36	4355	26.130	191114
WF BEAMS 16x40	40'	2	6	12	4355	8.710	191115
WF BEAMS 16x45	40'	4	5	20	4082	16.328	191119
WF BEAMS 16x45	40'	2	5	10	4082	8.164	191120
WF BEAMS 16x45	40'	2	5	10	4082	8.164	191121
WF BEAMS 16x45	40'	2	5	10	4082	8.164	191122
WF BEAMS 16x50	40'	10	5	50	4536	45.360	190910
WF BEAMS 16x57	40'	1	5	5	5171	5.171	189328
WF BEAMS 18x35	40'	8	7	56	4446	35.568	190969
WF BEAMS 18x35	40'	9	7	63	4446	40.014	190970
WF BEAMS 18x35	40'	1	7	7	4446	4.446	190971

ArcelorMittal Olaberria-Bergara

ArcelorMittal Europe – Long Products

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Gipuzkoa)

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



## MILL TEST CERTIFICATE

OLA P-64922

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 18x35	40'	11	7	77	4446	48.906	190972
WF BEAMS 18x35	40'	5	7	35	4446	22.230	190973
WF BEAMS 18x40	40'	1	7	7	5081	5.081	190233
WF BEAMS 18x40	40'	3	7	21	5081	15.243	190914
WF BEAMS 18x46	40'	1	6	6	5008	5.008	190232
WF BEAMS 18x46	40'	3	6	18	5008	15.024	190914
WF BEAMS 18x50	40'	2	5	10	4536	9.072	188987
WF BEAMS 18x55	40'	1	5	5	4990	4.990	190196
WF BEAMS 18x55	40'	1	5	5	4990	4.990	190916
WF BEAMS 18x55	40'	3	5	15	4990	14.970	190927
WF BEAMS 18x60	40'	1	4	4	4354	4.354	187055
WF BEAMS 18x60	40'	4	4	16	4354	17.416	190902
WF BEAMS 18x60	40'	1	3	3	3266	3.266	183670
WF BEAMS 18x65	40'	6	4	24	4717	28.302	190901
WF BEAMS 12x65	40'	11	3	33	3538	38.918	191110
WF BEAMS 12x65	40'	6	3	18	3538	21.228	191116
WF BEAMS 21x57	40'	1	5	5	5171	5.171	188445
WF BEAMS 21x68	40'	2	4	8	4935	9.870	187473
WF BEAMS 21x68	40'	2	4	8	4935	9.870	189625
WF BEAMS 24x76	40'	2	3	6	4137	8.274	191132
WF BEAMS 24x76	40'	9	3	27	4137	37.233	191163
WF BEAMS 24x84	40'	4	3	12	4572	18.288	191143
WF BEAMS 24x84	40'	2	3	6	4572	9.144	191144
WF BEAMS 24x94	40'	1	3	3	5117	5.117	188417
WF BEAMS 24x94	40'	1	2	2	3411	3.411	189577
WF BEAMS 24x94	40'	1	1	1	1706	1.706	188417

TOTAL BUNDLES 288

TOTAL WEIGHT 1.192.361 Kg.

A02 EN 10204/3.1

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

(B01/B02/B03) A03



ArcelorMittal Olaberria-Bergara

ArcelorMittal Europe – Long Products

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Gipuzkoa)

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



## MILL TEST CERTIFICATE

OLA P-64922

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
<i>B09</i>																			
190991	,088	,890	,190	,027	,016	,015	,270	,150	,049	,350	,013	,028	,003	,34					
191098	,088	,950	,200	,025	,019	,006	,230	,150	,024	,430	,038	,025	,003	,34					
191102	,081	,890	,180	,027	,021	,006	,210	,170	,028	,440	,035	,031	,003	,32					
191103	,068	,890	,170	,025	,019	,006	,220	,150	,026	,440	,034	,026	,001	,31					
191110	,085	,890	,160	,019	,018	,005	,220	,180	,041	,410	,031	,027	,003	,33					
191113	,093	,990	,190	,021	,018	,006	,230	,180	,031	,430	,039	,025	,001	,35					
191114	,097	,910	,190	,020	,019	,005	,190	,180	,031	,420	,035	,021	,003	,33					
191115	,112	,910	,180	,024	,018	,006	,190	,160	,026	,440	,041	,024	,001	,35					
191116	,092	,920	,180	,024	,018	,006	,170	,150	,025	,440	,040	,025	,002	,32					
191119	,068	,920	,190	,023	,018	,005	,180	,170	,030	,430	,037	,026	,003	,30					
191120	,087	,910	,220	,024	,020	,006	,170	,160	,033	,440	,044	,023	,004	,32					
191121	,073	,900	,200	,029	,022	,006	,180	,170	,034	,420	,038	,025	,004	,31					
191122	,081	,890	,190	,024	,021	,006	,160	,180	,032	,440	,040	,028	,004	,31					
191123	,083	,920	,200	,029	,020	,007	,240	,160	,029	,430	,038	,029	,005	,33					
191125	,086	,900	,190	,025	,021	,006	,230	,160	,031	,410	,036	,027	,004	,33					
191127	,095	,940	,170	,021	,020	,008	,210	,120	,026	,390	,043	,022	,001	,33					
191129	,078	,890	,160	,030	,019	,007	,240	,160	,027	,390	,035	,025	,001	,32					
191130	,093	,930	,170	,027	,020	,006	,220	,160	,028	,390	,035	,029	,002	,34					
191132	,095	,910	,220	,025	,021	,007	,180	,150	,029	,380	,045	,028	,004	,33					
191137	,079	,890	,200	,022	,021	,006	,180	,150	,025	,390	,041	,029	,004	,31					
191138	,088	,900	,210	,022	,020	,006	,170	,150	,023	,440	,042	,023	,004	,32					
191139	,077	,930	,190	,018	,020	,005	,140	,170	,029	,460	,036	,020	,004	,31					
191140	,087	,920	,200	,019	,021	,005	,150	,160	,029	,420	,040	,025	,004	,32					
191141	,085	,990	,220	,021	,021	,005	,160	,160	,027	,360	,038	,030	,004	,32					
191142	,068	,930	,180	,022	,019	,005	,160	,140	,024	,350	,034	,030	,004	,29					
191143	,087	,950	,200	,022	,018	,005	,180	,160	,028	,360	,038	,030	,004	,32					
191144	,075	,980	,200	,021	,021	,005	,170	,130	,020	,380	,036	,021	,003	,31					
191163	,085	,900	,180	,017	,020	,007	,190	,180	,030	,410	,040	,026	,003	,32					
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-10x15	190022	375	375	592	592	22,6	22,												
W-10x19	189994	439	423	568	546	24,5	23,9												
W-10x26	189919	435	419	560	538	22,7	22,												
W-10x30	187872	399	394	558	555	23,3	22,6												
W-10x30	187902	411	399	533	511	22,9	22,3												
W-10x30	189916	430	420	548	536	23,	22,4												
W-10x49	190227	411	407	533	513	24,3	23,9												
W-10x49	190991	400	388	528	518	24,3	23,5												
W-10x54	190966	403	403	536	532	25,5	24,5												
W-10x68	190244	376	374	490	480	23,3	23,												
W-12x16	189790	419	423	542	514	22,4	22,1												
W-12x22	189765	418	400	530	528	23,4	22,6												
W-12x30	189706	389	379	512	500	23,3	22,5												
W-12x35	189703	394	394	534	516	23,4	23,3												
W-12x40	191141	415	410	559	545	24,	23,9												
W-12x40	191142	381	377	501	487	23,8	23,6												

ArcelorMittal Olaberria-Bergara

ArcelorMittal Europe – Long Products

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Gipuzkoa)

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



## MILL TEST CERTIFICATE

OLA P-64922

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-12x40	191143	421	403	535	515	24,	23,8
W-12x45	191140	396	380	539	525	24,6	24,1
W-12x50	191137	402	390	523	507	25,8	25,2
W-12x50	191138	400	400	526	516	25,9	25,1
W-12x50	191139	397	392	518	507	25,1	24,7
W-12x65	191110	425	441	517	518	24,1	24,3
W-12x65	191116	424	409	540	540	24,	23,2
W-14x26	188838	438	437	545	523	24,	23,9
W-14x26	188839	453	445	540	534	23,6	23,6
W-14x26	189928	433	425	559	537	22,8	22,7
W-14x34	190033	406	406	538	532	23,	22,4
W-14x38	190039	418	423	489	505	23,6	23,
W-16x26	189422	432	425	515	513	22,2	22,2
W-16x26	191123	452	442	590	566	23,4	22,7
W-16x26	191125	446	444	553	549	22,9	22,3
W-16x26	191127	432	420	584	546	22,6	22,2
W-16x26	191130	454	442	555	525	21,9	22,2
W-16x31	191129	441	458	564	542	25,2	24,9
W-16x36	191098	410	410	532	510	24,7	24,1
W-16x36	191102	398	385	516	500	26,4	26,
W-16x36	191103	413	405	524	507	26,9	26,1
W-16x40	187298	407	399	504	498	23,3	22,6
W-16x40	189339	423	420	549	534	24,	23,3
W-16x40	191113	387	386	525	491	23,3	24,3
W-16x40	191114	425	407	558	536	25,	24,2
W-16x40	191115	416	405	540	532	23,5	22,7
W-16x45	191119	390	389	510	492	24,5	23,8
W-16x45	191120	383	379	504	487	25,4	24,5
W-16x45	191121	384	383	491	484	23,1	22,4
W-16x45	191122	401	395	521	509	22,8	22,5
W-16x50	190910	398	390	531	521	23,	22,2
W-16x57	189328	389	384	511	496	25,1	24,2
W-18x35	190969	433	417	541	539	23,7	23,7
W-18x35	190970	418	407	531	524	24,4	24,
W-18x35	190971	427	412	542	533	24,3	23,6
W-18x35	190972	421	415	563	541	24,2	23,5
W-18x35	190973	430	426	581	565	24,	23,6
W-18x40	190233	405	403	541	525	24,2	24,1
W-18x40	190914	410	396	504	500	25,2	25,
W-18x46	190232	407	393	541	533	25,2	25,
W-18x46	190914	409	405	521	511	24,6	24,
W-18x50	188987	423	415	519	509	23,5	23,3
W-18x55	190196	422	419	553	542	24,3	23,8
W-18x55	190916	416	410	507	539	24,5	23,1
W-18x55	190927	419	403	544	522	24,8	24,8
W-18x60	183670	419	411	518	516	23,6	23,3
W-18x60	187055	403	394	521	504	34,3	33,1
W-18x60	190902	409	395	525	523	25,3	24,4



## MILL TEST CERTIFICATE

## OLA P-64922

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B09	C11		C12		C13	
W-18x65	190901	407	401	522	508	25,6	24,7
W-21x57	188445	412	406	520	512	32,3	31,4
W-21x68	187473	413	401	539	527	24,4	23,9
W-21x68	189625	440	430	548	539	25,6	24,9
W-24x76	191132	398	430	513	534	22,7	23,5
W-24x76	191163	395	379	503	499	24,5	24,2
W-24x84	191143	400	392	506	498	24,5	24,2
W-24x84	191144	395	389	513	499	23,	22,8
W-24x94	188417	440	432	552	540	28,4	28,
W-24x94	189577	415	407	541	525	25,9	25,4
W-6x20	189797	387	385	506	506	24,6	24,4
W-6x25	189912	397	393	534	512	23,7	23,6
W-8x18	188934	404	396	500	488	23,3	22,6
W-8x35	189849	412	408	540	526	24,3	24,

### 76 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 Olaberria-Bergara