

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-65588

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	ARNEBORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-68940/1700028489	28499	14/09/2019

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
+/RED							
WF BEAMS 6x15	40'	1	18	18	4898	4.898	191322
WF BEAMS 6x15	40'	3	18	54	4898	14.694	191323
WF BEAMS 6x20	40'	1	14	14	5080	5.080	191359
WF BEAMS 6x25	40'	1	10	10	4535	4.535	191355
WF BEAMS 8x31	40'	3	8	24	4499	13.497	191318
WF BEAMS 8x31	40'	1	8	8	4499	4.499	191319
WF BEAMS 8x31	40'	3	8	24	4499	13.497	191320
WF BEAMS 8x40	40'	5	6	30	4355	21.775	191350
WF BEAMS 8x40	40'	2	6	12	4355	8.710	191351
WF BEAMS 8x18	40'	1	16	16	5226	5.226	191481
WF BEAMS 8x18	40'	4	16	64	5226	20.904	191483
WF BEAMS 8x18	40'	5	16	80	5226	26.130	191484
WF BEAMS 8x18	40'	1	8	8	2613	2.613	191481
WF BEAMS 8x21	40'	1	12	12	4572	4.572	191478
WF BEAMS 8x21	40'	1	12	12	4572	4.572	191480
WF BEAMS 10x12	40'	1	22	22	4790	4.790	191481
WF BEAMS 10x12	40'	2	22	44	4790	9.580	191482
WF BEAMS 10x12	40'	3	22	66	4790	14.370	191483

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 10x12	40'	2	22	44	4790	9.580	191484
WF BEAMS 10x12	40'	2	22	44	4790	9.580	191485
WF BEAMS 10x12	40'	6	22	132	4790	28.740	191486
WF BEAMS 10x12	40'	1	7	7	1524	1.524	191481
WF BEAMS 10x15	40'	1	18	18	4898	4.898	191494
WF BEAMS 10x15	40'	6	18	108	4898	29.388	191508
WF BEAMS 10x17	40'	3	16	48	4935	14.805	191470
WF BEAMS 10x17	40'	1	16	16	4935	4.935	191471
WF BEAMS 10x17	40'	1	4	4	1234	1.234	191470
WF BEAMS 10x19	40'	3	14	42	4827	14.481	191463
WF BEAMS 10x19	40'	4	14	56	4827	19.308	191464
WF BEAMS 10x19	40'	2	14	28	4827	9.654	191465
WF BEAMS 10x22	40'	5	12	60	4790	23.950	191445
WF BEAMS 10x22	40'	7	12	84	4790	33.530	191446
WF BEAMS 10x22	40'	1	12	12	4790	4.790	191447
WF BEAMS 10x22	40'	3	12	36	4790	14.370	191449
WF BEAMS 10x26	40'	3	10	30	4717	14.151	191438
WF BEAMS 10x26	40'	3	10	30	4717	14.151	191439
WF BEAMS 10x26	40'	2	10	20	4717	9.434	191442
WF BEAMS 10x26	40'	1	10	10	4717	4.717	191443
WF BEAMS 10x26	40'	1	4	4	1887	1.887	191438
WF BEAMS 10x30	40'	1	8	8	4370	4.370	191430
WF BEAMS 10x30	40'	6	8	48	4370	26.220	191433
WF BEAMS 10x30	40'	5	8	40	4370	21.850	191434
WF BEAMS 10x60	40'	2	4	8	4354	8.708	190963
WF BEAMS 12x14	40'	6	20	120	5079	30.474	191375
WF BEAMS 12x14	40'	5	20	100	5079	25.395	191376
WF BEAMS 12x14	40'	4	20	80	5079	20.316	191377
WF BEAMS 12x14	40'	2	20	40	5079	10.158	191378
WF BEAMS 12x16	40'	4	18	72	5225	20.900	191386
WF BEAMS 12x16	40'	1	18	18	5225	5.225	191388
WF BEAMS 12x19	40'	8	14	112	4827	38.616	191373
WF BEAMS 12x19	40'	4	14	56	4827	19.308	191374
WF BEAMS 12x22	40'	7	12	84	4790	33.530	191361
WF BEAMS 12x26	40'	9	10	90	4717	42.453	191374
WF BEAMS 12x26	40'	3	10	30	4717	14.151	191375
WF BEAMS 12x26	40'	4	10	40	4717	18.868	191376

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 12x26	40´	3	10	30	4717	14.151	191377
WF BEAMS 12x26	40´	1	10	10	4717	4.717	191378
WF BEAMS 12x26	40´	1	8	8	3774	3.774	191374
WF BEAMS 12x30	40´	4	8	32	4355	17.420	191367
WF BEAMS 12x30	40´	7	8	56	4355	30.485	191368
WF BEAMS 12x30	40´	6	8	48	4355	26.130	191369
WF BEAMS 12x30	40´	5	8	40	4355	21.775	191370
WF BEAMS 12x30	40´	4	8	32	4355	17.420	191371
WF BEAMS 12x30	40´	1	8	8	4355	4.355	191372
WF BEAMS 12x30	40´	1	7	7	3811	3.811	191367
WF BEAMS 12x35	40´	2	8	16	5081	10.162	191363
WF BEAMS 12x35	40´	5	8	40	5081	25.405	191364
WF BEAMS 12x35	40´	3	8	24	5081	15.243	191365
WF BEAMS 12x35	40´	7	8	56	5081	35.567	191366
WF BEAMS 12x35	40´	1	3	3	1905	1.905	189703
WF BEAMS 12x35	40´	1	6	6	3810	3.810	191363
WF BEAMS 12x40	40´	5	5	25	3629	18.145	191141
WF BEAMS 12x40	40´	3	5	15	3629	10.887	191142
WF BEAMS 12x40	40´	1	2	2	1452	1.452	191141
WF BEAMS 12x45	40´	1	3	3	2449	2.449	191140
WF BEAMS 12x50	40´	1	5	5	4536	4.536	191137
WF BEAMS 12x50	40´	2	5	10	4536	9.072	191138
WF BEAMS 12x50	40´	5	5	25	4536	22.680	191139
WF BEAMS 12x50	40´	3	5	15	4536	13.608	191141
WF BEAMS 14x22	40´	1	9	9	3592	3.592	190025
WF BEAMS 14x22	40´	8	9	72	3592	28.736	191454
WF BEAMS 14x22	40´	9	9	81	3592	32.328	191455
WF BEAMS 14x22	40´	6	9	54	3592	21.552	191456
WF BEAMS 14x22	40´	1	9	9	3592	3.592	191457
WF BEAMS 14x26	40´	8	9	72	4245	33.960	191430
WF BEAMS 14x26	40´	2	9	18	4245	8.490	191431
WF BEAMS 14x30	40´	20	6	120	3266	65.320	191389
WF BEAMS 14x30	40´	5	6	30	3266	16.330	191390
WF BEAMS 14x30	40´	2	6	12	3266	6.532	191391
WF BEAMS 14x38	40´	5	6	30	4137	20.685	191383
WF BEAMS 16x40	40´	1	4	4	2903	2.903	191113
WF BEAMS 16x50	40´	1	1	1	907	907	190910

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 18x50	40´	1	5	5	4536	4.536	190927
WF BEAMS 18x50	40´	11	5	55	4536	49.896	190928
WF BEAMS 18x50	40´	7	5	35	4536	31.752	190929
WF BEAMS 18x55	40´	1	5	5	4990	4.990	190927
WF BEAMS 18x76	40´	2	3	6	4137	8.274	191647
WF BEAMS 18x76	40´	3	3	9	4137	12.411	191648
WF BEAMS 18x76	40´	5	3	15	4137	20.685	191649
WF BEAMS 18x86	40´	1	3	3	4681	4.681	191635
WF BEAMS 18x86	40´	2	3	6	4681	9.362	191636
WF BEAMS 18x86	40´	5	3	15	4681	23.405	191637
WF BEAMS 18x86	40´	2	3	6	4681	9.362	191638

TOTAL BUNDLES **350**

TOTAL WEIGHT **1.536.831 Kg.**

A02 EN 10204/3.1

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

(B01/B02/B03) A03



MILL TEST CERTIFICATE

OLA P-65588

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
<i>B08</i>																			
191433	,082	,920	,200	,031	,018	,007	,250	,200	,032	,430	,041	,032	,003	,34					
191434	,094	,980	,210	,030	,018	,008	,290	,210	,033	,430	,039	,027	,004	,37					
191438	,077	,930	,210	,025	,018	,007	,290	,160	,026	,390	,031	,033	,005	,33					
191439	,083	,900	,170	,023	,017	,007	,300	,160	,032	,370	,034	,033	,002	,34					
191442	,102	,910	,220	,029	,019	,008	,340	,210	,026	,420	,037	,031	,004	,37					
191443	,082	,900	,210	,023	,018	,006	,250	,170	,024	,420	,033	,030	,005	,33					
191445	,075	,900	,210	,021	,019	,006	,200	,160	,025	,390	,034	,026	,005	,31					
191446	,053	,880	,180	,016	,021	,006	,120	,190	,024	,340	,032	,025	,003	,27					
191447	,088	,870	,160	,017	,022	,005	,140	,170	,027	,380	,037	,031	,004	,30					
191449	,078	,870	,210	,018	,023	,005	,140	,170	,025	,390	,036	,027	,004	,29					
191454	,112	,930	,220	,030	,020	,008	,280	,200	,027	,390	,038	,029	,004	,37					
191455	,090	,940	,200	,032	,018	,007	,300	,150	,027	,390	,038	,031	,005	,35					
191456	,099	,900	,200	,031	,018	,007	,220	,170	,026	,450	,036	,032	,005	,34					
191457	,113	,920	,230	,034	,018	,007	,200	,170	,024	,400	,034	,035	,005	,35					
191463	,103	,900	,210	,027	,021	,007	,270	,190	,032	,410	,033	,027	,004	,35					
191464	,105	,920	,200	,023	,021	,006	,240	,150	,023	,350	,033	,028	,003	,35					
191465	,073	,920	,180	,021	,020	,007	,190	,170	,026	,380	,032	,027	,002	,31					
191470	,080	,930	,210	,023	,018	,007	,200	,150	,022	,380	,043	,025	,004	,32					
191471	,085	,920	,210	,021	,019	,006	,190	,180	,023	,380	,040	,025	,005	,32					
191478	,080	,900	,200	,024	,021	,007	,200	,210	,031	,450	,033	,024	,004	,32					
191480	,064	,890	,180	,025	,024	,006	,210	,150	,022	,400	,037	,028	,004	,30					
191481	,070	,910	,190	,022	,023	,007	,210	,160	,024	,370	,038	,026	,004	,31					
191482	,079	,920	,190	,019	,024	,006	,180	,170	,023	,390	,035	,026	,004	,31					
191483	,087	,900	,190	,022	,020	,006	,200	,160	,024	,380	,036	,029	,004	,32					
191484	,088	,910	,190	,022	,020	,007	,220	,180	,024	,450	,038	,030	,004	,33					
191485	,072	,890	,180	,024	,020	,006	,240	,190	,024	,440	,035	,030	,003	,32					
191486	,084	,860	,190	,023	,022	,005	,230	,200	,026	,380	,031	,029	,004	,32					
191494	,080	,990	,210	,023	,023	,006	,240	,170	,020	,360	,036	,028	,003	,33					
191508	,082	,930	,190	,030	,023	,006	,220	,170	,026	,440	,033	,031	,005	,33					
191635	,079	,920	,160	,020	,021	,007	,230	,130	,025	,420	,036	,027	,002	,32					
191636	,094	,860	,200	,023	,019	,005	,210	,170	,028	,410	,034	,028	,005	,32					
191637	,098	,880	,210	,028	,020	,006	,260	,160	,028	,410	,033	,025	,004	,34					
191638	,138	,870	,200	,030	,017	,007	,260	,150	,027	,440	,030	,023	,004	,38					
191647	,078	,990	,220	,024	,018	,006	,270	,150	,035	,420	,038	,028	,004	,34					
191648	,071	,950	,210	,024	,019	,004	,260	,170	,031	,440	,034	,023	,003	,33					
191649	,139	,960	,210	,020	,018	,004	,210	,160	,028	,440	,029	,019	,003	,39					

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	191481	430	430	552	530	22,3	22,
W-10x12	191482	424	416	535	523	22,4	21,7
W-10x12	191483	436	424	548	544	22,2	21,9
W-10x12	191484	423	409	550	528	22,3	21,8
W-10x12	191485	429	427	560	544	22,1	23,
W-10x12	191486	419	418	538	536	22,5	21,6
W-10x15	191494	419	407	591	591	22,3	22,1
W-10x15	191508	413	412	587	561	22,3	21,9



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OLA P-65588

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		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-10x17	191470	416	416	545	523	22,5	21,7
W-10x17	191471	434	416	530	522	22,9	22,5
W-10x19	191463	420	416	560	550	22,4	21,8
W-10x19	191464	423	409	538	532	22,1	22,
W-10x19	191465	442	424	567	553	22,4	21,7
W-10x22	191445	402	390	509	497	22,2	21,8
W-10x22	191446	414	397	513	497	22,4	21,8
W-10x22	191447	403	398	509	497	22,2	22,1
W-10x22	191449	410	401	521	519	22,1	22,1
W-10x26	191438	400	386	518	518	22,5	21,6
W-10x26	191439	411	399	539	539	22,5	21,7
W-10x26	191442	397	395	606	580	22,2	22,
W-10x26	191443	409	408	527	523	22,3	21,9
W-10x30	191430	401	399	549	533	22,6	22,5
W-10x30	191433	400	392	567	565	22,1	22,
W-10x30	191434	399	393	536	524	22,4	21,8
W-10x60	190963	419	413	541	537	25,9	25,6
W-12x14	191375	422	410	571	551	22,4	21,7
W-12x14	191376	448	438	589	563	22,4	22,
W-12x14	191377	435	419	580	560	22,3	22,
W-12x14	191378	439	435	585	579	22,4	21,9
W-12x16	191386	419	405	556	532	22,3	21,9
W-12x16	191388	427	421	537	521	22,4	21,8
W-12x19	191373	393	388	541	529	22,5	21,7
W-12x19	191374	418	412	554	544	22,1	22,
W-12x22	191361	427	409	528	522	25,	24,3
W-12x26	191374	406	394	527	521	23,4	23,4
W-12x26	191375	397	397	540	522	23,6	22,9
W-12x26	191376	406	395	533	526	23,4	23,1
W-12x26	191377	408	400	542	534	23,4	23,1
W-12x26	191378	436	420	572	548	23,3	23,2
W-12x30	191367	408	391	521	509	23,4	23,
W-12x30	191368	406	396	525	510	23,5	23,3
W-12x30	191369	403	389	527	515	23,4	23,
W-12x30	191370	407	393	519	503	23,4	23,2
W-12x30	191371	411	405	528	517	23,5	22,8
W-12x30	191372	418	402	552	540	23,3	23,
W-12x35	189703	394	394	534	516	23,4	23,3
W-12x35	191363	374	370	502	498	24,	23,2
W-12x35	191364	395	387	523	515	23,8	23,8
W-12x35	191365	379	363	499	491	24,	23,2
W-12x35	191366	391	383	500	500	24,1	23,2
W-12x40	191141	415	410	559	545	24,	23,9
W-12x40	191142	381	377	501	487	23,8	23,6
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

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ER-0036/1992



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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-12x50	191141	390	407	525	521	24,6	25,6
W-14x22	190025	443	443	568	564	23,8	23,6
W-14x22	191454	444	428	555	537	22,7	22,
W-14x22	191455	429	413	551	545	22,4	22,3
W-14x22	191456	439	427	552	546	22,5	22,1
W-14x22	191457	433	425	571	569	22,6	22,2
W-14x26	191430	444	428	612	596	22,1	22,1
W-14x26	191431	443	433	544	528	22,7	22,1
W-14x30	191389	419	407	512	510	23,3	22,9
W-14x30	191390	405	403	515	503	23,7	23,3
W-14x30	191391	405	386	546	533	23,1	24,
W-14x38	191383	415	411	534	524	24,1	23,7
W-16x40	191113	387	386	525	491	23,3	24,3
W-16x50	190910	398	390	531	521	23,	22,2
W-18x50	190927	424	412	500	534	23,1	24,
W-18x50	190928	401	397	523	513	24,	23,4
W-18x50	190929	401	395	515	509	23,8	23,5
W-18x55	190927	419	403	544	522	24,8	24,8
W-18x76	191647	411	405	523	513	26,3	25,6
W-18x76	191648	409	407	543	527	26,	25,5
W-18x76	191649	395	393	523	501	26,3	25,4
W-18x86	191635	414	410	585	569	25,4	25,
W-18x86	191636	387	373	513	503	25,9	25,3
W-18x86	191637	387	375	491	493	25,4	24,7
W-18x86	191638	375	369	494	487	22,8	22,4
W-6x15	191322	378	370	564	544	22,3	21,9
W-6x15	191323	424	410	541	523	22,5	22,1
W-6x20	191359	362	376	491	493	26,3	26,3
W-6x25	191355	390	388	501	499	22,2	22,1
W-8x18	191481	395	390	525	519	22,4	21,8
W-8x18	191483	403	399	516	504	22,2	21,7
W-8x18	191484	403	390	523	506	22,1	22,
W-8x21	191478	376	368	543	541	22,2	21,9
W-8x21	191480	395	391	513	495	22,3	21,9
W-8x31	191318	420	414	545	535	25,7	25,6
W-8x31	191319	425	421	570	554	25,9	25,1
W-8x31	191320	446	437	569	555	25,4	25,3
W-8x40	191350	394	382	514	508	25,6	25,5
W-8x40	191351	401	389	520	510	25,8	25,2

84 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
 Jose Maria Galindo