A01

ArcelorMittal Gipuzkoa, S.L.U.
Long Carbon Europe
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

AENOR ER Empresa Registrada ER-0036/1992

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-30493

DISCHARGE ADDRESS	CUSTOMER
Plesa Anahuac Y Clas, S.A. de C.V. **Av. Valle de las Alamedas 66-O** **Col. S. Francisco Chilpan, Tul** **MEXICO**	**Plesa Anahuac Y Clas, 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		**BILBAO, SPAIN**
	PORT OF DISCHARGE	VESSEL
	VERACRUZ	**ASIABORG**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
igomez	**01-E-40739 / 1700014083**	**12160**	**30/03/2012**

Material: WF Vigas,

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

ACERALIA GIPUZKOA 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 8x40	**40´**	**6**	**6**	**36**	**4355**	**26.130**	**137286**
WF BEAMS 8x28	**40´**	**7**	**10**	**70**	**5080**	**35.560**	**133885,137281**
WF BEAMS 10x12	**40´**	**20**	**18**	**360**	**3919**	**78.380**	**137445,137446,137447**
WF BEAMS 10x15	**40´**	**6**	**18**	**108**	**4898**	**29.388**	**137442,137443**
WF BEAMS 10x22	**40´**	**25**	**12**	**300**	**4790**	**119.750**	**137403,137404,137405, 137406**
WF BEAMS 10x26	**40´**	**13**	**10**	**130**	**4717**	**61.321**	**137399,137400,137401**
WF BEAMS 10x30	**40´**	**7**	**8**	**56**	**4355**	**30.485**	**137398,137399**
WF BEAMS 12x19	**40´**	**12**	**14**	**168**	**4827**	**57.924**	**137494,137495,137496**
WF BEAMS 12x26	**40´**	**34**	**10**	**340**	**4717**	**160.378**	**137448,137449,137450, 137451,137452,137454, 137455,137456**
WF BEAMS 12x30	**40´**	**9**	**8**	**72**	**4355**	**39.195**	**137445,137447**
WF BEAMS 12x35	**40´**	**16**	**8**	**128**	**5081**	**81.296**	**137442,137443**
WF BEAMS 12x40	**40´**	**34**	**6**	**204**	**4355**	**148.070**	**137351,137352,137353, 137354**
WF BEAMS 12x50	**40´**	**6**	**6**	**36**	**5443**	**32.658**	**137350**
WF BEAMS 14x48	**40´**	**3**	**6**	**18**	**5225**	**15.675**	**135709**
WF BEAMS 16x26	**40´**	**28**	**6**	**168**	**2830**	**79.240**	**137204,137205,137210, 137211**

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 16x40	**40´**	**14**	**5**	**70**	**3629**	**50.806**	**135704,137157**
WF BEAMS 21x50	**40´**	**5**	**5**	**25**	**4536**	**22.680**	**136782,136786**
WF BEAMS 21x57	**40´**	**1**	**2**	**2**	**2068**	**2.068**	**134810**
WF BEAMS 21x73	**40´**	**9**	**4**	**36**	**5298**	**47.682**	**137276**
WF BEAMS 24x68	**40´**	**16**	**3**	**48**	**3701**	**59.216**	**137635,137644,137645, 137646,137649**
WF BEAMS 24x76	**40´**	**8**	**3**	**24**	**4137**	**33.096**	**137640,137641,137642**
WF BEAMS 24x84	**40´**	**17**	**3**	**51**	**4572**	**77.724**	**137637,137638**

TOTAL BUNDLES **296** TOTAL WEIGHT **1.288.722 Kg.**

A02 EN 10204/3.1 **CSA G40.21 50W/ASTM A572 G50/A992/A6** (B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)												
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV
B08													
133885	,072	1,190	,190	,019	,031	,044	,100	,140	,022	,360	,003	,037	,34
134810	,114	1,310	,220	,028	,019	,048	,150	,190	,032	,380	,010	,047	,42
135704	,094	1,290	,170	,017	,029	,005	,090	,180	,046	,400	,024	,043	,38
135709	,076	1,180	,160	,018	,028	,042	,080	,180	,039	,510	,007	,052	,35
136782	,102	1,170	,190	,018	,017	,040	,150	,260	,061	,310	,006	,043	,39
136786	,100	1,170	,180	,012	,006	,038	,100	,190	,035	,400	,003	,039	,37
137157	,066	1,260	,220	,018	,018	,040	,110	,150	,031	,350	,003	,039	,35
137204	,110	1,170	,180	,014	,025	,038	,080	,130	,022	,340	,003	,028	,36
137205	,096	1,160	,170	,011	,020	,043	,080	,130	,018	,350	,003	,023	,35
137210	,090	1,220	,190	,024	,017	,039	,090	,150	,027	,370	,003	,025	,36
137211	,071	1,170	,200	,027	,020	,039	,110	,150	,024	,370	,003	,032	,34
137276	,098	1,130	,190	,014	,033	,039	,120	,130	,020	,320	,003	,038	,35
137281	,115	1,180	,170	,013	,014	,040	,120	,210	,031	,300	,004	,030	,38
137286	,113	1,190	,180	,021	,018	,040	,140	,230	,026	,500	,005	,029	,40
137350	,104	1,190	,180	,018	,027	,039	,090	,140	,025	,330	,005	,024	,36
137351	,109	1,200	,170	,015	,016	,038	,110	,140	,026	,340	,003	,025	,38
137352	,105	1,150	,200	,010	,027	,037	,090	,140	,024	,350	,003	,025	,36
137353	,103	1,170	,180	,012	,022	,038	,120	,190	,032	,370	,005	,033	,37
137354	,105	1,160	,180	,013	,020	,039	,110	,160	,030	,350	,007	,024	,37
137398	,085	1,150	,190	,019	,029	,044	,130	,160	,020	,350	,005	,029	,35
137399	,099	1,200	,190	,023	,020	,039	,150	,150	,018	,340	,003	,027	,37
137400	,109	1,150	,170	,016	,025	,038	,120	,140	,022	,360	,005	,028	,37
137401	,106	1,170	,180	,019	,024	,043	,150	,150	,025	,370	,008	,024	,38
137403	,096	1,140	,190	,014	,019	,037	,100	,160	,021	,340	,003	,021	,35
137404	,092	1,130	,180	,015	,019	,036	,130	,160	,023	,340	,005	,022	,35
137405	,117	1,160	,210	,016	,015	,039	,110	,180	,030	,360	,003	,023	,38
137406	,094	1,270	,190	,016	,030	,040	,120	,150	,025	,350	,003	,026	,38
137442	,095	1,160	,200	,015	,023	,040	,120	,180	,025	,290	,006	,027	,36
137443	,093	1,190	,210	,025	,032	,040	,160	,210	,029	,360	,003	,033	,38
137445	,091	1,220	,170	,023	,029	,043	,180	,250	,032	,400	,010	,034	,39
137446	,102	1,180	,190	,019	,025	,041	,150	,210	,032	,400	,013	,028	,38
137447	,091	1,170	,180	,021	,031	,043	,140	,190	,025	,350	,013	,028	,36

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV					
B08																		
137448	,104	1,150	,190	,022	,031	,041	,150	,180	,029	,350	,011	,025	,38					
137449	,082	1,160	,190	,024	,029	,042	,140	,190	,029	,340	,012	,030	,35					
137450	,087	1,180	,180	,029	,028	,041	,170	,190	,031	,380	,013	,033	,37					
137451	,113	1,160	,190	,016	,027	,042	,150	,190	,026	,360	,016	,038	,39					
137452	,093	1,160	,200	,017	,029	,042	,170	,190	,026	,400	,016	,034	,37					
137454	,089	1,240	,210	,015	,029	,041	,140	,170	,025	,340	,018	,034	,37					
137455	,126	1,140	,180	,017	,019	,042	,150	,180	,021	,410	,005	,030	,40					
137456	,110	1,190	,200	,024	,027	,038	,140	,170	,033	,340	,001	,028	,38					
137494	,117	1,190	,170	,029	,011	,043	,130	,190	,033	,380	,009	,028	,39					
137495	,116	1,210	,180	,032	,015	,041	,140	,210	,035	,460	,008	,024	,41					
137496	,112	1,310	,190	,034	,020	,043	,170	,220	,043	,430	,011	,027	,42					
137635	,111	1,160	,170	,010	,017	,037	,110	,190	,025	,390	,009	,021	,38					
137637	,117	1,170	,180	,017	,018	,039	,110	,190	,033	,420	,015	,029	,39					
137638	,108	1,130	,180	,028	,017	,038	,180	,180	,040	,410	,013	,028	,39					
137640	,087	1,130	,180	,027	,027	,038	,180	,220	,037	,430	,015	,036	,37					
137641	,103	1,080	,210	,031	,023	,038	,120	,230	,029	,390	,007	,037	,36					
137642	,122	1,120	,200	,036	,026	,041	,100	,170	,022	,450	,011	,035	,38					
137644	,100	1,160	,170	,022	,020	,038	,130	,190	,029	,410	,005	,037	,37					
137645	,103	1,190	,170	,031	,018	,038	,120	,210	,032	,420	,006	,036	,38					
137646	,100	1,150	,180	,012	,015	,038	,090	,180	,028	,420	,004	,041	,36					
137649	,107	1,190	,190	,026	,017	,040	,130	,210	,030	,380	,006	,036	,38					

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-10x12	137445	386	383	533	517	23,6	22,5
W-10x12	137446	394	384	518	516	21,5	20,9
W-10x12	137447	392	392	535	525	21,7	21,4
W-10x15	137442	395	387	526	518	21,7	22,2
W-10x15	137443	413	403	548	544	23,9	22,2
W-10x22	137403	395	379	515	513	21,1	21,6
W-10x22	137404	389	387	526	506	21,1	21,
W-10x22	137405	384	384	533	531	21,3	21,2
W-10x22	137406	368	366	510	500	21,3	20,9
W-10x26	137399	371	359	515	515	21,3	21,
W-10x26	137400	390	384	524	510	21,7	21,3
W-10x26	137401	392	382	518	512	21,5	21,
W-10x30	137398	390	387	521	499	22,8	22,4
W-10x30	137399	386	372	529	507	21,9	21,1
W-12x19	137494	417	399	570	570	21,6	21,6
W-12x19	137495	379	365	588	569	21,9	21,3
W-12x19	137496	411	401	608	582	21,9	21,3
W-12x26	137448	403	394	535	527	22,2	22,1
W-12x26	137449	409	403	534	520	21,5	21,4
W-12x26	137450	394	388	531	531	21,9	21,2
W-12x26	137451	394	384	515	503	21,4	21,3
W-12x26	137452	391	385	509	509	23,5	23,4
W-12x26	137454	404	394	534	526	21,3	21,

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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-12x26	137455	418	412	551	547	21,3	20,8
W-12x26	137456	397	395	528	516	23,3	22,
W-12x30	137445	400	388	535	513	22,7	21,9
W-12x30	137447	432	426	566	550	23,	22,6
W-12x35	137442	378	378	508	496	24,6	24,4
W-12x35	137443	400	394	541	523	22,5	22,5
W-12x40	137351	402	398	523	517	25,3	24,5
W-12x40	137352	405	395	527	516	23,2	22,7
W-12x40	137353	395	402	512	523	23,1	23,4
W-12x40	137354	449	443	575	563	24,3	24,
W-12x50	137350	396	392	521	513	25,1	24,4
W-14x48	135709	407	391	530	522	22,8	22,
W-16x26	137204	425	407	546	528	22,4	22,
W-16x26	137205	417	405	542	524	23,3	22,4
W-16x26	137210	415	401	545	535	22,4	22,1
W-16x26	137211	413	406	534	528	22,5	21,8
W-16x40	135704	368	358	538	518	22,8	21,9
W-16x40	137157	396	387	497	486	26,1	28,5
W-21x50	136782	408	408	554	536	23,6	22,9
W-21x50	136786	410	400	554	530	22,4	22,3
W-21x57	134810	420	404	533	511	22,5	22,5
W-21x73	137276	395	387	522	500	24,6	23,9
W-24x68	137635	365	371	501	520	23,1	22,9
W-24x68	137644	395	379	512	492	25,9	25,7
W-24x68	137645	393	379	516	510	23,5	23,3
W-24x68	137646	378	364	524	503	23,1	22,4
W-24x68	137649	372	364	508	506	25,2	24,9
W-24x76	137640	373	373	508	506	27,2	26,7
W-24x76	137641	386	370	499	495	26,3	25,9
W-24x76	137642	389	377	535	525	22,	21,9
W-24x84	137637	382	378	532	510	22,9	22,8
W-24x84	137638	385	375	526	518	24,	23,9
W-8x28	133885	389	378	503	495	22,3	21,9
W-8x28	137281	415	413	541	528	22,8	22,8
W-8x40	137286	419	409	557	533	23,	22,8

53 análisis

Z01

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.
B06: Marca AMO

Ángel Martínez de Treviño