

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



ArcelorMittal

## MILL TEST CERTIFICATE

OLA P-31595

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			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	ASIABORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
AICORRALIZA	01-E-41368 / 1700014549	12695	31/05/2012

### WIDE FLANGE BEAMS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
<b>+ / RED</b>							
WF BEAMS 6x15	40'	11	18	198	4890	53.787	138722,138723,138724, 138726,138727
WF BEAMS 6x25	40'	11	12	132	5460	60.059	138643,138644,138645
WF BEAMS 8x40	40'	13	6	78	4338	56.389	138433
WF BEAMS 8x31	40'	7	8	56	4482	31.373	138384,138385,138386, 138387
WF BEAMS 8x35	40'	6	8	48	5008	30.045	135232,138433
WF BEAMS 8x18	40'	7	14	98	4584	32.085	138679,138680
WF BEAMS 8x21	40'	17	12	204	4542	77.214	138686,138687
WF BEAMS 10x15	40'	12	18	216	4931	59.169	138545,138546,138547, 138548,138550,138564, 138565
WF BEAMS 10x17	40'	5	16	80	4922	24.609	137449,138611,138612, 138613
WF BEAMS 10x17	40'	1	15	15	4586	4.586	137449
WF BEAMS 10x22	40'	1	7	7	2767	2.767	137405
WF BEAMS 10x22	40'	6	12	72	4803	28.820	138691,138692,138693
WF BEAMS 12x14	40'	1	4	4	1011	1.011	137498
WF BEAMS 12x14	40'	6	18	108	4601	27.608	138733,138734,138763
WF BEAMS 12x16	40'	6	18	108	5242	31.452	138766,138767,138768, 138769
WF BEAMS 12x19	40'	1	9	9	3119	3.119	137493
WF BEAMS 12x19	40'	12	14	168	4824	57.882	138771,138772,138773, 138775,138776
WF BEAMS 12x22	40'	13	12	156	4795	62.331	138829,138832,138835, 138836,138847
WF BEAMS 12x26	40'	6	10	60	4703	28.220	138837,138841

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 14x22	40'	17	12	204	4807	81.723	138821,138823,138824, 138828,138841,138846
WF BEAMS 14x38	40'	10	6	60	4141	41.406	137896
WF BEAMS 14x53	40'	3	6	18	5794	17.381	135466,135467
WF BEAMS 16x26	40'	21	6	126	2814	59.090	138638,138639,138640
WF BEAMS 16x31	40'	9	6	54	3319	29.875	138641,138643,138644
WF BEAMS 16x36	40'	18	5	90	3244	58.401	138618,138619,138620, 138647,138648
WF BEAMS 16x40	40'	17	5	85	3612	61.398	138623,138624,138625
WF BEAMS 21x50	40'	1	1	1	903	903	136782
WF BEAMS 21x50	40'	15	5	75	4509	67.632	136784,136785,136786, 136787
WF BEAMS 24x55	40'	16	5	80	4963	79.403	134798,136858,138338, 138339,138340
WF BEAMS 24x68	40'	1	1	1	1227	1.227	137635,137649
WF BEAMS 24x68	40'	21	3	63	3702	77.737	137720,137722,138907, 138908,138926,138927
WF BEAMS 18x60	40'	14	4	56	4321	60.493	138569,138570

TOTAL BUNDLES 305

TOTAL WEIGHT 1.309.195 Kg.

A02 EN 10204/3.1

A03

## CSA G40.21 50W/ASTM A572 G50/A992/A6

(B01/B02/B03)

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														Cev	
		C	Mn	Si	P	S	N	V	Cr	Sn	Nb	Cu	Ni	Mo			
B01	B08	C01	C02	C03	C04	C05	C06	C07	C08								
W-10x15	138545	,11	1,18	,21	,017	,011	,009	,036	,110	,030	,003	,390	,130	,031			,38
W-10x15	138546	,10	1,24	,19	,018	,017	,009	,040	,090	,038	,003	,410	,130	,035			,37
W-10x15	138547	,11	1,14	,17	,019	,019	,009	,037	,110	,034	,003	,340	,160	,034			,37
W-10x15	138548	,11	1,18	,17	,017	,031	,009	,047	,090	,039	,005	,360	,160	,037			,37
W-10x15	138550	,09	1,10	,19	,018	,022	,009	,039	,160	,034	,003	,360	,150	,040			,36
W-10x15	138564	,09	1,15	,17	,020	,026	,009	,036	,080	,032	,003	,390	,140	,031			,35
W-10x15	138565	,10	1,17	,18	,024	,016	,009	,038	,100	,038	,003	,410	,150	,035			,36
W-10x17	137449	,08	1,16	,19	,024	,029	,010	,042	,140	,030	,012	,340	,190	,029			,35
W-10x17	138611	,12	1,15	,18	,034	,034	,009	,037	,120	,020	,003	,430	,120	,026			,38
W-10x17	138612	,10	1,14	,20	,024	,032	,009	,041	,120	,021	,003	,380	,120	,027			,36
W-10x17	138613	,10	1,16	,19	,030	,032	,010	,040	,120	,030	,003	,380	,110	,025			,37
W-10x22	137405	,12	1,16	,21	,016	,015	,010	,039	,110	,023	,003	,360	,180	,030			,38
W-10x22	138691	,10	1,19	,19	,019	,021	,010	,039	,110	,057	,003	,320	,150	,029			,37
W-10x22	138692	,09	1,19	,19	,016	,017	,009	,041	,110	,048	,003	,330	,150	,035			,35
W-10x22	138693	,09	1,24	,17	,025	,022	,010	,048	,120	,042	,004	,350	,140	,038			,37
W-12x14	137498	,12	1,15	,17	,027	,019	,009	,039	,230	,029	,003	,470	,230	,030			,42
W-12x14	138733	,09	1,13	,22	,025	,029	,009	,046	,140	,029	,003	,400	,140	,027			,36
W-12x14	138734	,09	1,17	,20	,034	,028	,009	,040	,140	,030	,003	,440	,120	,022			,36
W-12x14	138763	,09	1,13	,18	,020	,013	,010	,040	,100	,034	,003	,330	,140	,035			,34
W-12x16	138766	,09	1,18	,18	,017	,032	,010	,041	,120	,035	,003	,320	,150	,042			,36
W-12x16	138767	,09	1,10	,19	,018	,024	,010	,038	,100	,030	,003	,370	,130	,030			,34

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## MILL TEST CERTIFICATE

OLA P-31595

C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														Cev		
		C	Mn	Si	P	S	N	V	Cr	Sn	Nb	Cu	Ni	Mo				
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78									
W-12x16	138768	,08	1,12	,18	,022	,028	,009	,040	,130	,027	,003	,340	,150	,041				,34
W-12x16	138769	,12	1,17	,19	,020	,024	,009	,044	,120	,023	,003	,360	,130	,034				,38
W-12x19	137493	,12	1,31	,17	,025	,023	,010	,047	,160	,029	,010	,460	,190	,026				,42
W-12x19	138771	,09	1,14	,17	,022	,026	,009	,040	,100	,033	,003	,380	,130	,028				,35
W-12x19	138772	,11	1,15	,18	,025	,024	,009	,044	,120	,034	,003	,360	,130	,032				,38
W-12x19	138773	,11	1,13	,21	,030	,016	,010	,044	,140	,032	,003	,340	,180	,038				,38
W-12x19	138775	,12	1,18	,19	,025	,016	,010	,043	,130	,035	,003	,370	,150	,039				,39
W-12x19	138776	,11	1,16	,19	,021	,024	,009	,038	,100	,028	,003	,390	,140	,042				,37
W-12x22	138829	,11	1,16	,18	,034	,021	,009	,038	,220	,045	,003	,380	,190	,057				,40
W-12x22	138832	,10	1,12	,18	,023	,019	,009	,039	,140	,047	,003	,400	,190	,052				,37
W-12x22	138835	,08	1,12	,19	,020	,020	,010	,042	,140	,038	,003	,450	,200	,043				,36
W-12x22	138836	,10	1,12	,19	,025	,018	,010	,039	,160	,036	,003	,430	,230	,046				,37
W-12x22	138847	,09	1,16	,22	,025	,023	,010	,045	,160	,043	,003	,430	,210	,061				,38
W-12x26	138837	,10	1,14	,20	,026	,009	,009	,039	,140	,037	,003	,410	,150	,039				,37
W-12x26	138841	,12	1,18	,17	,026	,022	,010	,039	,130	,033	,003	,380	,160	,039				,39
W-14x22	138821	,10	1,18	,18	,016	,023	,009	,037	,130	,037	,003	,420	,180	,053				,38
W-14x22	138823	,09	1,13	,19	,031	,022	,010	,036	,170	,033	,003	,470	,180	,058				,38
W-14x22	138824	,10	1,26	,20	,026	,028	,010	,039	,170	,035	,003	,420	,180	,069				,41
W-14x22	138828	,11	1,24	,19	,034	,023	,010	,041	,160	,040	,003	,440	,190	,052				,41
W-14x22	138841	,12	1,18	,17	,026	,022	,010	,039	,130	,033	,003	,380	,160	,039				,39
W-14x22	138846	,11	1,19	,20	,023	,020	,010	,040	,150	,042	,003	,420	,200	,063				,40
W-14x38	137896	,08	1,18	,21	,029	,022	,009	,036	,190	,038	,003	,420	,230	,048				,38
W-14x53	135466	,09	1,21	,20	,014	,023	,010	,001	,130	,035	,022	,380	,170	,033				,36
W-14x53	135467	,10	1,26	,19	,015	,018	,009	,001	,150	,039	,024	,380	,170	,031				,38
W-16x26	138638	,12	1,12	,17	,030	,023	,009	,041	,100	,029	,003	,330	,140	,038				,37
W-16x26	138639	,10	1,17	,17	,031	,029	,009	,039	,140	,025	,003	,360	,140	,043				,38
W-16x26	138640	,10	1,21	,19	,027	,028	,009	,041	,120	,027	,003	,330	,140	,040				,37
W-16x31	138641	,10	1,17	,19	,033	,018	,010	,043	,130	,030	,003	,300	,130	,033				,36
W-16x31	138643	,08	1,15	,20	,027	,027	,009	,046	,150	,036	,003	,390	,140	,030				,35
W-16x31	138644	,10	1,21	,20	,015	,020	,010	,043	,090	,039	,003	,410	,120	,028				,37
W-16x36	138618	,09	1,20	,20	,023	,027	,010	,039	,110	,025	,003	,320	,110	,028				,35
W-16x36	138619	,10	1,18	,18	,029	,034	,010	,041	,110	,029	,003	,330	,110	,028				,36
W-16x36	138620	,10	1,19	,18	,017	,030	,010	,039	,100	,030	,003	,370	,120	,038				,37
W-16x36	138647	,09	1,21	,19	,019	,023	,010	,045	,120	,038	,003	,370	,130	,026				,36
W-16x36	138648	,10	1,20	,18	,017	,021	,010	,039	,120	,035	,003	,400	,130	,031				,37
W-16x40	138623	,11	1,21	,19	,013	,020	,009	,043	,100	,046	,003	,380	,130	,028				,38
W-16x40	138624	,09	1,25	,18	,021	,026	,010	,042	,090	,034	,003	,390	,130	,025				,37
W-16x40	138625	,11	1,31	,22	,026	,028	,010	,039	,140	,034	,003	,480	,140	,030				,41
W-18x60	138569	,10	1,29	,18	,027	,023	,010	,037	,100	,028	,004	,420	,140	,030				,38
W-18x60	138570	,10	1,20	,17	,028	,023	,009	,044	,120	,031	,003	,410	,120	,030				,38
W-21x50	136782	,10	1,17	,19	,018	,017	,009	,040	,150	,043	,006	,310	,260	,061				,39
W-21x50	136784	,10	1,17	,20	,013	,011	,010	,040	,150	,042	,003	,330	,270	,063				,39
W-21x50	136785	,13	1,31	,18	,016	,012	,009	,038	,130	,038	,003	,340	,220	,053				,42
W-21x50	136786	,10	1,17	,18	,012	,006	,010	,038	,100	,039	,003	,400	,190	,035				,37
W-21x50	136787	,12	1,21	,16	,020	,008	,010	,044	,120	,039	,003	,410	,180	,034				,40
W-24x55	134798	,09	1,20	,21	,028	,029	,009	,038	,130	,047	,003	,360	,160	,025				,37
W-24x55	136858	,12	1,17	,19	,017	,017	,009	,039	,160	,054	,006	,380	,250	,053				,40
W-24x55	138338	,12	1,14	,17	,026	,014	,009	,044	,140	,027	,003	,440	,110	,018				,39

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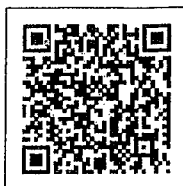
OLA P-31595

C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														Cev			
		C	Mn	Si	P	S	N	V	Cr	Sn	Nb	Cu	Ni	Mo					
B11	B08	C71	C72	C73	C74	C75	C76	C77	C78										
W-24x55	138339	,11	1,13	,18	,027	,016	,009	,039	,150	,032	,003	,460	,120	,028					,38
W-24x55	138340	,11	1,19	,20	,021	,017	,009	,044	,150	,035	,005	,440	,100	,023					,39
W-24x68	137635	,11	1,16	,17	,010	,017	,010	,037	,110	,021	,009	,390	,190	,025					,38
W-24x68	137649	,11	1,19	,19	,026	,017	,009	,040	,130	,036	,006	,380	,210	,030					,38
W-24x68	137720	,10	1,16	,19	,031	,025	,009	,042	,150	,037	,003	,480	,170	,026					,38
W-24x68	137722	,12	1,15	,19	,024	,015	,009	,042	,120	,038	,003	,370	,160	,023					,38
W-24x68	138907	,12	1,22	,20	,020	,014	,010	,043	,130	,047	,003	,350	,160	,039					,40
W-24x68	138908	,11	1,18	,20	,024	,015	,010	,009	,090	,043	,006	,360	,140	,032					,37
W-24x68	138926	,09	1,20	,20	,025	,024	,010	,040	,120	,048	,003	,380	,150	,035					,36
W-24x68	138927	,11	1,20	,20	,034	,013	,009	,037	,170	,046	,003	,430	,140	,027					,39
W-6x15	138722	,12	1,19	,17	,017	,021	,009	,037	,110	,028	,003	,400	,150	,036					,39
W-6x15	138723	,12	1,11	,19	,012	,023	,010	,036	,100	,034	,003	,420	,140	,037					,37
W-6x15	138724	,12	1,13	,19	,017	,021	,009	,038	,110	,032	,003	,430	,130	,035					,38
W-6x15	138726	,10	1,13	,18	,020	,028	,010	,039	,120	,024	,003	,400	,140	,027					,36
W-6x15	138727	,08	1,14	,18	,028	,031	,010	,044	,140	,025	,003	,460	,140	,036					,36
W-6x25	138643	,08	1,15	,20	,027	,027	,009	,046	,150	,036	,003	,390	,140	,030					,35
W-6x25	138644	,10	1,21	,20	,015	,020	,010	,043	,090	,039	,003	,410	,120	,028					,37
W-6x25	138645	,11	1,18	,20	,016	,021	,009	,040	,100	,037	,003	,420	,100	,026					,38
W-8x18	138679	,11	1,17	,19	,017	,023	,009	,044	,110	,026	,003	,440	,120	,031					,38
W-8x18	138680	,10	1,20	,19	,017	,026	,010	,043	,110	,022	,006	,360	,120	,028					,36
W-8x21	138686	,09	1,15	,20	,030	,024	,010	,043	,130	,049	,003	,390	,120	,021					,36
W-8x21	138687	,12	1,19	,20	,016	,009	,010	,038	,120	,040	,003	,330	,140	,024					,38
W-8x31	138384	,10	1,17	,20	,016	,024	,010	,038	,120	,030	,003	,330	,180	,036					,36
W-8x31	138385	,11	1,16	,21	,020	,026	,009	,040	,140	,035	,003	,360	,180	,033					,39
W-8x31	138386	,09	1,13	,19	,015	,036	,010	,039	,110	,039	,003	,340	,170	,032					,35
W-8x31	138387	,10	1,19	,19	,014	,022	,010	,038	,120	,039	,003	,320	,180	,035					,37
W-8x35	135232	,10	1,08	,20	,019	,024	,009	,042	,110	,048	,006	,370	,180	,022					,35
W-8x35	138433	,12	1,16	,18	,025	,017	,009	,043	,190	,033	,003	,330	,170	,037					,40
W-8x40	138433	,12	1,16	,18	,025	,017	,009	,043	,190	,033	,003	,330	,170	,037					,40

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST						
		ReH MPa	Rm MPa	A% LO=8"	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.	
B11	B08	C11	C12	C13	C10	C03	C10/1	C42			C43	
W-10x15	138545	435	570	22,4								
W-10x15	138546	417	544	22,2								
W-10x15	138547	432	542	22,1								
W-10x15	138548	399	530	22,3								
W-10x15	138550	440	514	22,1								
W-10x15	138564	397	553	22,8								
W-10x15	138565	403	559	24,3								
W-10x17	137449	383	513	21,9								
W-10x17	138611	425	559	22,7								
W-10x17	138612	448	576	26,4								
W-10x17	138613	414	543	23,2								
W-10x22	137405	384	532	21,3								
W-10x22	138691	392	509	22,1								
W-10x22	138692	399	535	22,1								
W-10x22	138693	405	566	22,2								

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### MILL TEST CERTIFICATE

OLA P-31595

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=8"	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
		C11	C12	C13	C50	C03	C10/41	C42			C43
W-12x14	137498	381	596	21,9							
W-12x14	138733	422	545	22,5							
W-12x14	138734	427	571	22,1							
W-12x14	138763	415	536	22,4							
W-12x16	138766	400	546	23,1							
W-12x16	138767	413	535	22,1							
W-12x16	138768	411	534	22,6							
W-12x16	138769	409	529	23,5							
W-12x19	137493	400	570	22,5							
W-12x19	138771	444	567	22,1							
W-12x19	138772	448	585	22,2							
W-12x19	138773	438	579	22,3							
W-12x19	138775	428	575	22,4							
W-12x19	138776	416	544	23,6							
W-12x22	138829	407	551	22,3							
W-12x22	138832	409	529	22,8							
W-12x22	138835	399	524	22,5							
W-12x22	138836	414	551	22,2							
W-12x22	138847	380	584	22,3							
W-12x26	138837	411	561	23,							
W-12x26	138841	409	554	22,3							
W-14x22	138821	393	595	22,7							
W-14x22	138823	374	594	22,4							
W-14x22	138824	388	586	22,							
W-14x22	138828	391	590	22,6							
W-14x22	138841	389	597	22,5							
W-14x22	138846	398	562	21,6							
W-14x38	137896	411	598	22,7							
W-14x53	135466	379	502	22,3							
W-14x53	135467	381	509	22,3							
W-16x26	138638	419	554	22,4							
W-16x26	138639	417	548	22,5							
W-16x26	138640	436	556	22,							
W-16x31	138641	434	567	22,1							
W-16x31	138643	445	539	22,5							
W-16x31	138644	426	564	22,2							
W-16x36	138618	412	522	22,4							
W-16x36	138619	440	559	22,6							
W-16x36	138620	430	565	22,							
W-16x36	138647	415	540	22,8							
W-16x36	138648	422	547	23,							
W-16x40	138623	415	542	22,3							
W-16x40	138624	426	551	22,1							
W-16x40	138625	418	563	22,5							
W-18x60	138569	396	518	25,7							
W-18x60	138570	408	532	24,1							
W-21x50	136782	408	545	23,2							
W-21x50	136784	409	536	26,5							

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**MILL TEST CERTIFICATE**

**OLA P-31595**

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECÁNICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST				
		ReH MPa	Rm MPa	A% L0=8"	Doblado 180°	°C	KV300	V1 J.	V2 J.	V3 J.
B11	B08	C11	C12	C13	C50	C03	C1041	C42		C43
W-21x50	136785	401	541	23,						
W-21x50	136786	405	542	22,3						
W-21x50	136787	411	545	22,2						
W-24x55	134798	421	542	23,						
W-24x55	136858	414	542	22,9						
W-24x55	138338	407	519	24,2						
W-24x55	138339	423	533	23,5						
W-24x55	138340	408	516	24,8						
W-24x68	137635	368	511	23,						
W-24x68	137649	368	507	25,1						
W-24x68	137720	443	559	23,2						
W-24x68	137722	393	506	24,8						
W-24x68	138907	415	574	22,1						
W-24x68	138908	442	579	22,5						
W-24x68	138926	422	530	23,9						
W-24x68	138927	422	564	22,4						
W-6x15	138722	406	525	22,4						
W-6x15	138723	410	537	22,1						
W-6x15	138724	410	542	22,2						
W-6x15	138726	405	542	22,2						
W-6x15	138727	402	516	22,1						
W-6x25	138643	414	530	23,5						
W-6x25	138644	428	558	22,1						
W-6x25	138645	419	550	22,3						
W-8x18	138679	423	548	22,5						
W-8x18	138680	421	546	22,6						
W-8x21	138686	423	568	22,						
W-8x21	138687	414	540	23,						
W-8x31	138384	408	526	23,4						
W-8x31	138385	409	592	22,3						
W-8x31	138386	403	536	22,5						
W-8x31	138387	406	525	24,						
W-8x35	135232	405	555	22,3						
W-8x35	138433	408	548	23,5						
W-8x40	138433	402	525	25,						

**98 análisis**

Z01

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.  
 B08: Marca AMO

*(Signature)*  
 Lorenzo Zabala