

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



MILL TEST CERTIFICATE

OLA P-31594

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-40740 / 1700014099	12164	31/05/2012

WIDE FLANGE BEAMS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+RED							
WF BEAMS 12x26	40'	2	10	20	4717	9.434	138837,138840,138841
WF BEAMS 12x50	40'	3	6	18	5443	16.329	138777,138779
WF BEAMS 18x86	40'	13	2	26	3121	40.573	138427,138428,138429
WF BEAMS 18x50	40'	17	4	68	3629	61.693	137782,137783

TOTAL BUNDLES

35

TOTAL WEIGHT

128.029 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																	
137782	,089	1,170	,180	,039	,023	,042	,190	,260	,033	,480	,010	,029	,39				
137783	,085	1,100	,190	,028	,029	,036	,210	,290	,048	,460	,004	,032	,38				
138427	,087	1,220	,200	,018	,014	,036	,170	,200	,047	,380	,003	,030	,38				
138428	,110	1,200	,190	,018	,012	,042	,170	,190	,037	,370	,003	,030	,40				
138429	,102	1,170	,190	,022	,016	,056	,170	,190	,039	,330	,003	,035	,38				
138777	,106	1,330	,200	,024	,024	,045	,170	,190	,055	,380	,003	,035	,42				
138779	,088	1,190	,180	,026	,026	,039	,130	,150	,048	,340	,003	,020	,36				
138837	,096	1,140	,200	,026	,009	,039	,140	,150	,039	,410	,003	,037	,37				
138840	,102	1,200	,200	,024	,022	,042	,130	,160	,036	,380	,003	,033	,38				
138841	,115	1,180	,170	,026	,022	,039	,130	,160	,039	,380	,003	,033	,39				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-12x26	138837	414	406	569	553	23,	22,8
W-12x26	138840	413	410	576	560	22,8	22,5
W-12x26	138841	417	405	559	543	22,6	21,9
W-12x50	138777	400	392	525	509	22,8	22,2
W-12x50	138779	396	385	541	528	22,6	22,1

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		ReH MPa		Rm MPa		A% L0=8"	
B11	B06	C11		C12		C13	
W-18x50	137782	401	391	529	507	22,7	22,2
W-18x50	137783	421	417	553	533	22,8	22,4
W-18x86	138427	417	415	554	548	24,2	24,
W-18x86	138428	425	409	559	537	23,7	22,9
W-18x86	138429	409	395	552	530	23,8	23,5

10 análisis

Z01

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

B06: Marca AMO

Lorenzo Zabala