

A01

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



MILL TEST CERTIFICATE

OLA P-41355

DISCHARGE ADDRESS		CUSTOMER	
Plesa Anahuac Y Clas, S.A. de C.V. Av. Valle de las Alamedas 66-0 Col. S. Francisco Chilpan, Tul MEXICO		Plesa Anahuac Y Clas, S.A. de C.V. Av. Valle de las Alamedas 66-0 Col. S. Francisco Chilpan, Tul MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Gulpúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	AMURBORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704609	01-E-48477 / 1700018876	18741/86	06/09/2014

wide flange beams

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+/RED							
WF BEAMS 24x68	40'	20	4	80	4935	98.700	153044,153060,153086,153087
WF BEAMS 24x84	40'	22	3	66	4572	100.584	153019,153024,153025,153026,153027,153029,153034
WF BEAMS 8x18	40'	10	16	160	5226	52.260	153020,153023,153061
WF BEAMS 8x21	40'	11	12	132	4572	50.292	153054,153055

TOTAL BUNDLES 63

TOTAL WEIGHT 301.836 Kg.

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV
153019	.122	.750	.180	.023	.022	.046	.120	.140	.021	.400	.003	.024	.001	.32
153020	.107	.710	.230	.024	.020	.052	.120	.160	.021	.390	.003	.028	.003	.30
153023	.101	.740	.170	.034	.020	.045	.160	.160	.025	.460	.003	.036	.002	.31
153024	.090	.750	.160	.025	.020	.047	.130	.170	.030	.450	.003	.030	.001	.30
153025	.106	.740	.180	.031	.019	.046	.140	.180	.028	.490	.003	.032	.002	.32
153026	.090	.770	.210	.026	.020	.044	.140	.170	.026	.460	.003	.034	.001	.30
153027	.108	.730	.200	.028	.020	.044	.120	.170	.025	.460	.003	.033	.003	.31
153034	.120	.730	.220	.028	.023	.054	.140	.150	.046	.400	.003	.032	.003	.33
153044	.092	.700	.200	.025	.019	.045	.110	.150	.026	.430	.003	.027	.003	.28
153054	.119	.730	.190	.034	.020	.047	.140	.160	.029	.490	.003	.027	.002	.33
153055	.103	.710	.200	.030	.021	.044	.120	.140	.020	.430	.003	.028	.002	.30
153060	.102	.700	.180	.020	.022	.044	.080	.160	.027	.380	.003	.035	.003	.28
153061	.112	.700	.200	.017	.020	.043	.090	.190	.031	.360	.003	.031	.003	.30
153086	.104	.750	.220	.014	.016	.047	.180	.200	.046	.290	.003	.030	.002	.32
153087	.086	.720	.200	.023	.019	.044	.180	.210	.046	.420	.003	.028	.003	.31

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO-8*	
B11	B08	D11		D12		D13	
W-24x68	153044	397	384	499	495	23,4	23,2
W-24x68	153060	372	368	491	491	23,2	22,3
W-24x68	153086	397	387	529	509	26,9	26,1
W-24x68	153087	406	393	530	528	22,4	21,9
W-24x84	153019	364	381	520	540	24,9	25,4
W-24x84	153024	384	369	508	493	23,3	22,6
W-24x84	153025	405	391	515	507	27,1	27,
W-24x84	153026	413	374	513	522	24,7	24,6
W-24x84	153027	399	398	526	516	22,4	21,9
W-24x84	153034	385	385	516	509	24,3	23,3
W-8x18	153020	387	393	495	509	22,	22,1
W-8x18	153023	416	408	556	542	23,4	22,7
W-8x18	153061	410	408	531	515	22,3	21,8
W-8x21	153054	380	365	490	508	23,	23,1
W-8x21	153055	397	388	522	510	23,5	23,2

15 análisis

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

Responsable del Departamento de Calidad 201

Lorenzo Zabala