

A01

ArcelorMittal Gipuzkoa, S.L.U.
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-41240**

DISCHARGE ADDRESS		CUSTOMER	
Plesa Anahuac Y Cías, S.A. de C.V. Av. Valle de las Alamedas 66-O Col. S. Francisco Chilpan, Tul MEXICO		Plesa Anahuac Y Cías, 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 (Gipuzkoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			PASAJES, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	AMURBORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704509	01-E-48477 / 1700018876	18741/86	31/08/2014

WIDE FLANGE BEAMS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+ / RED							
WF BEAMS 18x76	40'	24	3	72	4137	99.288	152824,152830,152831, 152832,152833,152835, 152837,152838,152860, 152861,152864,152867, 152868
WF BEAMS 24x55	40'	8	5	40	4990	39.920	152979,152980
WF BEAMS 6x25	40'	2	10	20	4535	9.070	151720,151725
WF BEAMS 8x18	40'	1	16	16	5226	5.226	151612
WF BEAMS 8x21	40'	2	12	24	4572	9.144	151582,151585
WF BEAMS 18x35	40'	21	7	147	4446	93.366	152858,152859,152860, 152861,152862,152863, 152864
WF BEAMS 18x40	40'	12	7	84	5081	60.972	152850,152851,152852, 152853
WF BEAMS 18x71	40'	19	4	76	5153	97.907	152837,152838,152839

TOTAL BUNDLES **89** TOTAL WEIGHT **414.893 Kg.**

A02 EN 10204/3.1

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

(601/802/803) A03

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COLADA HEAT	COMPOSICIÓN QUÍMICA (%) CHEMICAL COMPOSITION (%)													
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV
151582	.117	.750	.210	.021	.017	.046	.170	.210	.039	.400	.003	.032	.004	.33
151585	.110	.750	.170	.018	.018	.043	.150	.160	.038	.340	.003	.053	.004	.31
151612	.107	.720	.190	.023	.023	.050	.140	.180	.039	.410	.003	.028	.001	.31
151720	.117	.760	.200	.018	.020	.043	.130	.210	.043	.320	.003	.031	.003	.32
151725	.101	.700	.190	.021	.019	.040	.110	.160	.038	.340	.003	.032	.004	.29
152824	.141	.740	.170	.023	.020	.043	.160	.150	.020	.440	.003	.028	.001	.35
152830	.101	.730	.220	.025	.020	.043	.200	.160	.026	.420	.003	.032	.005	.32
152831	.084	.740	.190	.026	.023	.046	.160	.160	.022	.420	.003	.028	.003	.29
152832	.084	.760	.180	.026	.019	.055	.150	.170	.023	.430	.003	.031	.003	.30
152833	.122	.750	.190	.024	.019	.046	.150	.140	.022	.420	.003	.026	.001	.33
152835	.093	.750	.170	.021	.019	.047	.160	.150	.022	.400	.003	.028	.003	.30
152837	.109	.720	.190	.017	.021	.040	.110	.140	.020	.340	.003	.038	.001	.30
152838	.093	.730	.200	.017	.020	.044	.110	.160	.037	.340	.003	.030	.001	.29
152839	.113	.790	.180	.017	.021	.047	.120	.170	.045	.320	.003	.019	.001	.32
152850	.095	.720	.170	.017	.022	.045	.110	.140	.024	.510	.003	.034	.004	.29
152851	.104	.790	.190	.026	.020	.043	.170	.130	.021	.460	.003	.032	.003	.32
152852	.106	.730	.190	.025	.020	.051	.160	.150	.022	.410	.003	.035	.002	.31
152853	.128	.720	.200	.024	.020	.048	.160	.140	.023	.380	.003	.034	.002	.33
152858	.100	.720	.190	.033	.020	.043	.160	.160	.026	.390	.003	.033	.003	.31
152859	.140	.740	.170	.016	.021	.052	.150	.130	.019	.270	.003	.023	.001	.33
152860	.091	.750	.180	.020	.021	.051	.130	.150	.021	.300	.003	.035	.004	.29
152861	.093	.730	.150	.020	.024	.043	.120	.140	.021	.340	.003	.030	.002	.28
152862	.099	.740	.180	.022	.023	.047	.170	.140	.024	.350	.003	.025	.002	.30
152863	.099	.780	.190	.023	.021	.043	.160	.140	.023	.330	.003	.028	.003	.31
152864	.123	.790	.150	.025	.026	.045	.170	.150	.028	.330	.003	.033	.002	.34
152867	.097	.760	.190	.025	.022	.050	.160	.160	.025	.390	.003	.030	.004	.31
152868	.092	.750	.170	.022	.021	.050	.170	.160	.026	.390	.003	.030	.004	.30
152979	.080	.690	.170	.019	.023	.038	.110	.150	.023	.330	.003	.028	.001	.26
152980	.078	.680	.190	.020	.019	.043	.100	.160	.024	.350	.003	.031	.002	.26

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECÁNICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=B ^a	
611	608	611	612	612	612	612	
W-18x35	152858	410	394	528	521	23,4	23,
W-18x35	152859	414	412	558	540	23,	22,2
W-18x35	152860	412	412	523	505	23,4	22,8
W-18x35	152860	412	412	523	505	23,4	22,8
W-18x35	152861	393	381	514	503	24,8	24,6
W-18x35	152862	398	389	549	527	23,	22,3
W-18x35	152863	427	446	526	517	22,5	22,
W-18x35	152864	436	419	554	543	22,6	22,4
W-18x40	152850	396	387	515	502	24,4	23,9
W-18x40	152851	396	393	530	515	23,1	22,8
W-18x40	152852	410	398	543	526	23,5	22,7
W-18x40	152853	391	387	510	500	24,4	23,9
W-18x71	152837	378	364	503	493	23,8	23,3
W-18x71	152838	381	371	506	496	22,4	22,2
W-18x71	152839	392	382	517	509	22,4	21,7

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
<small>011</small>	<small>012</small>	<small>017</small>		<small>018</small>		<small>019</small>	
W-18x76	152824	404	390	511	495	23,3	23,
W-18x76	152830	378	356	497	523	23,3	21,8
W-18x76	152831	388	372	524	499	25,2	24,1
W-18x76	152832	387	426	495	487	22,5	25,1
W-18x76	152833	380	370	509	516	24,7	25,
W-18x76	152835	390	406	504	527	27,	26,2
W-18x76	152837	384	354	487	530	24,1	23,4
W-18x76	152838	390	380	497	485	27,	26,4
W-18x76	152860	440	428	566	544	22,1	22,
W-18x76	152860	440	428	566	544	22,1	22,
W-18x76	152861	435	421	553	535	22,8	22,3
W-18x76	152864	443	368	520	526	25,5	21,7
W-18x76	152867	405	397	523	515	26,6	27,7
W-18x76	152868	409	397	516	514	23,3	22,6
W-24x55	152879	381	351	497	491	23,4	23,1
W-24x55	152980	427	418	538	526	23,2	22,5
W-6x25	151720	409	401	522	516	22,5	21,9
W-6x25	151725	379	373	496	495	24,3	24,1
W-8x18	151812	404	400	532	510	22,2	21,9
W-8x21	151582	380	360	521	501	22,9	22,7
W-8x21	151585	397	381	508	488	23,1	22,3

29 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 201

Lorenzo Zabala