

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



QUALITY CERTIFICATE

OLA P-22599

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, S.L. 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	STINNES MISTRAL
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	1700008773	6299	26/05/2009

Material: WF Vigas,

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

ARCELORMITTAL OLABERRIA S.L. 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
+/ROJO							
WF BEAMS 12x16	40'	1	16	16	4645	4.645	119826
WF BEAMS 12x16	40'	10	12	120	3483	34.830	121188,121189
WF BEAMS 12x19	40'	8	14	112	4827	38.616	119810,121186
WF BEAMS 12x26	40'	21	10	210	4717	99.057	121146,121187,121188,121189,121190
WF BEAMS 12x30	40'	13	8	104	4355	56.615	121186,121192
WF BEAMS 12x30	40'	1	4	4	2177	2.177	118100
WF BEAMS 12x40	40'	14	6	84	4355	60.970	121111,121112,121125
WF BEAMS 12x45	40'	12	6	72	4899	58.788	121109,121110,121111
WF BEAMS 18x50	40'	28	4	112	3629	101.612	121214,121233
WF BEAMS 18x60	40'	14	4	56	4354	60.956	121232
WF BEAMS 18x65	40'	21	4	84	4717	99.057	119388,121230,121231
WF BEAMS 18x71	40'	19	4	76	5153	97.907	119386,121229,121230

TOTAL BUNDLES **162** TOTAL WEIGHT **715.230 Kg.**

A02 EN 10204/3.1.B **CSA G40.21 50W/ASTM A36-04/A572 G50-04/A992-04/A6-04** (B01/B02/B03) A03

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																				
	C	Mn	SI	P	S	V	Cr	NI	Mo	Cu	Nb	Sn	CEV								
118100	,099	1,130	,180	,021	,016	,002	,160	,150	,024	,470	,017	,021	,37								
119386	,098	1,150	,160	,027	,012	,003	,230	,160	,038	,330	,017	,021	,38								
119388	,103	1,190	,220	,025	,013	,002	,110	,140	,024	,340	,022	,026	,36								
119810	,116	1,290	,220	,031	,021	,003	,200	,190	,029	,410	,022	,026	,42								
119826	,085	1,260	,160	,017	,035	,001	,120	,160	,036	,420	,019	,046	,37								
121109	,089	1,140	,170	,034	,008	,002	,140	,060	,006	,220	,020	,033	,33								
121110	,097	1,160	,190	,033	,010	,002	,110	,060	,005	,160	,018	,030	,33								
121111	,101	1,190	,190	,031	,012	,002	,140	,070	,004	,180	,018	,034	,35								
121112	,109	1,150	,200	,031	,012	,001	,140	,060	,006	,150	,016	,037	,34								
121125	,086	1,130	,190	,021	,017	,042	,080	,070	,023	,140	,003	,056	,32								
121146	,085	1,220	,170	,017	,016	,040	,070	,070	,012	,190	,003	,059	,33								
121186	,087	1,200	,190	,024	,019	,001	,180	,170	,032	,270	,020	,040	,36								
121187	,121	1,200	,190	,029	,011	,001	,120	,110	,026	,210	,020	,034	,37								
121188	,108	1,200	,180	,024	,016	,002	,120	,120	,028	,200	,025	,034	,36								
121189	,071	1,160	,180	,023	,030	,001	,100	,110	,025	,220	,019	,029	,31								
121190	,095	1,180	,170	,019	,028	,001	,080	,110	,020	,190	,020	,038	,33								
121192	,084	1,230	,180	,020	,022	,041	,100	,070	,020	,150	,003	,047	,34								
121214	,076	1,150	,170	,017	,037	,035	,090	,090	,016	,190	,003	,036	,31								
121229	,091	1,180	,180	,025	,023	,002	,100	,060	,016	,120	,023	,039	,32								
121230	,088	1,240	,180	,028	,026	,003	,090	,080	,016	,140	,020	,038	,33								
121231	,093	1,230	,180	,024	,023	,002	,070	,070	,008	,160	,021	,044	,33								
121232	,087	1,170	,170	,018	,031	,001	,080	,080	,022	,150	,018	,044	,32								
121233	,092	1,250	,180	,017	,030	,001	,080	,090	,028	,210	,018	,041	,34								

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	001	C11		C12		C13	
W-12x16	119826	402	386	540	534	21,4	22,
W-12x16	121188	404	404	534	532	21,1	22,4
W-12x16	121189	421	407	550	545	22,6	20,5
W-12x19	119810	361	359	548	546	22,1	22,
W-12x19	121186	395	393	550	544	21,7	21,2
W-12x26	121146	413	401	525	511	22,5	22,1
W-12x26	121187	405	389	525	525	24,6	24,2
W-12x26	121188	402	401	551	533	23,7	23,5
W-12x26	121189	397	391	524	516	24,5	24,4
W-12x26	121190	423	415	550	549	23,5	22,7
W-12x30	118100	368	362	564	540	22,6	22,
W-12x30	121186	380	368	548	524	22,4	21,6
W-12x30	121192	404	398	542	524	24,7	24,4
W-12x40	121111	399	389	545	523	25,	24,9
W-12x40	121112	403	397	539	535	24,4	23,7
W-12x40	121125	388	380	517	501	24,6	24,4
W-12x45	121109	391	383	537	531	24,2	24,
W-12x45	121110	398	390	543	519	24,8	24,4
W-12x45	121111	399	394	543	543	24,6	25,2
W-18x50	121214	399	398	523	520	24,3	24,
W-18x50	121233	398	386	521	501	24,6	24,2

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		ReH MPa		Rm MPa		A% L0=8"	
D11	B06	C11		C12		C13	
W-18x60	121232	381	371	494	492	23,1	22,4
W-18x65	119388	378	376	547	544	24,7	24,5
W-18x65	121230	396	388	504	490	22,2	21,9
W-18x65	121231	395	385	498	486	22,8	22,4
W-18x71	119386	362	353	522	512	26,6	26,
W-18x71	121229	379	367	517	495	26,1	26,1
W-18x71	121230	376	372	512	496	26,9	25,9

23 análisis

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

B06: Marca APO

Z01

Luis María Lakunza