

A01

Arcelor Olaberria, S.L.
Long Carbon Steel Europe

Sections

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Guipúzcoa)

TELEF. (943) 80.50.00 - FAX (943) 88.04.04



Arcelor
8181
POST-7107

QUALITY CERTIFICATE

DISCHARGE ADDRESS		CUSTOMER	
FERRE BARNIEDO, S.A. DE C.V. AV REVOLUCION,81 CP 55000 ECATEPEC EDO DE MEXICO		FERRE BARNIEDO, S.A. DE C.V. AV REVOLUCION,81 CP 55000 ECATEPEC EDO DE MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELOR 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
		TAMPICO	TULA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
aibanez	E-16730 Lot: 1		30/04/2006

Material: WF Vigas, calidad ASTM A-992.

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

ARCELOR 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
/ BLANCO							
WF BEAMS 8x31 P02020161	10,65	130	8	1040	3930	510.900	102212,102213,102355,102356,102357,102358
WF BEAMS 8x31	40	36	8	288	4499	161.964	101323,101324,102211,102351,102352,102355
WF BEAMS 8x35 P02020162	40	30	8	240	5081	152.430	101317,101318,101319,102210,102211
WF BEAMS 8x40 P02020163	40	34	6	204	4355	148.070	56210,101345,102362,102363
WF BEAMS 8x48 P02020171	40	15	6	90	5225	78.375	101341,101342,102360,102361,102362

TOTAL BUNDLES 246 TOTAL WEIGHT 1.051.739

Kg.

ESTE CERTIFICADO ES COPIA FIEL
DE LOS ARCHIVOS

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)												
	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Nb	Sn	CEV	
56210	.100	1,210	.200	.027	.032	.004	.160	.200	.036	.450	.024	.036	.39
101317	.080	1,190	.170	.033	.022	.003	.130	.210	.042	.500	.019	.030	.36
101318	.070	1,240	.190	.019	.028	.003	.120	.200	.038	.450	.023	.031	.35
101319	.090	1,200	.200	.018	.023	.003	.120	.190	.038	.450	.024	.027	.36
101323	.090	1,190	.210	.028	.025	.003	.210	.230	.047	.440	.021	.018	.39
101324	.090	1,210	.180	.029	.022	.003	.190	.220	.041	.440	.021	.018	.38
101341	.090	1,200	.190	.023	.025	.003	.120	.170	.029	.490	.023	.018	.36



QUALITY CERTIFICATE

APS P-7107

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)												
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV
101342	,080	1,180	,180	,021	,027	,003	,130	,170	,028	,500	,021	,027	,35
101345	,100	1,190	,170	,024	,021	,003	,120	,170	,030	,510	,023	,019	,37
102210	,100	1,190	,220	,046	,023	,036	,110	,140	,031	,340	,002	,017	,37
102211	,120	1,200	,210	,015	,016	,036	,110	,140	,030	,420	,002	,020	,39
102212	,100	1,180	,210	,018	,022	,035	,160	,190	,036	,430	,002	,027	,38
102213	,110	1,310	,200	,020	,021	,035	,170	,180	,034	,460	,001	,031	,42
102351	,098	1,240	,200	,019	,019	,046	,210	,190	,048	,400	,004	,023	,40
102352	,110	1,170	,210	,014	,018	,042	,190	,190	,050	,370	,004	,022	,40
102355	,087	1,190	,190	,018	,027	,035	,180	,150	,046	,360	,004	,038	,37
102356	,086	1,160	,190	,017	,027	,037	,180	,190	,052	,390	,005	,028	,37
102357	,086	1,210	,210	,021	,028	,039	,160	,190	,047	,340	,005	,032	,37
102358	,093	1,230	,180	,018	,028	,036	,150	,170	,045	,340	,005	,025	,38
102360	,102	1,240	,240	,027	,022	,043	,210	,160	,050	,400	,005	,038	,41
102361	,097	1,200	,210	,031	,021	,037	,230	,160	,047	,420	,004	,036	,40
102362	,106	1,290	,230	,027	,016	,043	,220	,140	,039	,370	,003	,031	,42
102363	,113	1,280	,230	,029	,013	,045	,210	,130	,039	,410	,003	,027	,42

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=2"	
W-8x31	101323	358	358	549	548	29,5	28,3
W-8x31	101324	360	352	546	546	30,6	30,4
W-8x31	102211	415	407	541	538	29,2	28,1
W-8x31	102212	386	380	514	498	31,8	31,1
W-8x31	102213	397	386	538	516	30,7	30,7
W-8x31	102351	386	380	514	498	31,8	31,1
W-8x31	102352	444	439	549	533	27,3	26,9
W-8x31	102355	374	371	513	513	34,2	34,2
W-8x31	102356	374	372	513	503	34,2	33,5
W-8x31	102357	418	410	549	529	31,4	31,2
W-8x31	102358	415	407	541	538	29,2	28,1
W-8x35	101317	360	356	545	541	31,5	30,7
W-8x35	101318	380	380	542	528	32,1	31,5
W-8x35	101319	391	389	550	537	30,8	30,3
W-8x35	102210	401	393	543	521	33,1	33,
W-8x35	102211	395	389	532	522	29,4	28,5
W-8x40	56210	392	385	550	542	29,8	28,7
W-8x40	101345	394	379	548	534	31,	30,6
W-8x40	102362	449	440	550	533	28,	26,5
W-8x40	102363	448	440	549	533	27,2	26,4
W-8x48	101341	390	378	541	524	29,7	29,
W-8x48	101342	382	376	532	510	30,7	29,9
W-8x48	102360	440	434	544	544	26,5	25,
W-8x48	102361	440	435	545	543	26,	24,7
W-8x48	102362	435	436	544	546	25,7	25,9