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ARCELOR
Empresa Registrada
ER-0030/1992

3 Arcelor
8117
APS P-7107

401 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

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
sibanez	E-16730 Lot: 1		30/04/2008

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 POB08046 I	10,65	130	8	1040	3930	510.900	102212,102213,102355,1023 55,102357,102358
WF BEAMS 8x31 POB08046 I	40'	36	8	288	4488	161.984	101323,101324,102211,1023 51,102352,102355
WF BEAMS 8x35 POB08052 I	40'	30	8	240	5081	152.430	101317,101318,101319,1022 10,102211
WF BEAMS 8x40 POB08060 I	40'	34	8	272	6355	174.070	56210,101345,102362,10236 3
WF BEAMS 8x48 POB08071 I	40'	15	8	120	5275	73.275	101317,101342,102360,1023 51,102362
TOTAL BUNDLES		245	TOTAL PIECES		TOTAL WEIGHT		
					1.051.738		
					Kg		

ESTE CERTIFICADO ES COPIA
DEL ORIGINAL DE NUESTROS ARCHIVOS
A LA REMISION NO

EN 10204/3.1.B
G40.10
ASTM A36-04/A572 G50-04/A992-04/A5-04
(001/002/003) A03

HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)												
	C	Mn	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV	
56210	100	1.210	200	027	032	004	160	200	036	450	024	035	39
101317	080	1.190	170	033	022	003	130	210	042	390	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	35
101323	090	1.190	210	028	025	003	210	230	047	340	021	018	39
101324	090	1.210	180	028	022	003	190	220	041	440	021	018	38
101341	090	1.200	190	023	025	003	120	170	029	390	023	018	36

Arceol Olaberria, S.L.
Long Carbon Steel Europe
Sections

CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
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QUALITY CERTIFICATE

APS P-7107

COLADA HEAT	COMPOSICIÓN QUÍMICA (%) CHEMICAL COMPOSITION (%)													
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV	
101342	.080	1.190	.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	.016	.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	.480	.001	.031	.42	
102351	.088	1.240	.200	.019	.019	.046	.210	.190	.048	.400	.004	.023	.40	
102352	.110	1.170	.210	.014	.018	.042	.180	.190	.050	.370	.004	.022	.40	
102355	.087	1.190	.190	.018	.027	.035	.180	.150	.046	.380	.004	.038	.37	
102356	.086	1.180	.190	.017	.027	.037	.160	.190	.052	.390	.005	.028	.37	
102357	.086	1.210	.210	.021	.026	.039	.160	.190	.047	.340	.005	.032	.37	
102358	.083	1.230	.180	.018	.026	.036	.150	.170	.045	.340	.005	.025	.38	
102360	.102	1.240	.210	.027	.022	.043	.210	.160	.050	.400	.005	.038	.41	
102361	.097	1.200	.210	.031	.021	.037	.220	.160	.047	.420	.004	.036	.40	
102362	.108	1.290	.230	.027	.016	.043	.220	.140	.039	.370	.003	.031	.42	
102363	.113	1.290	.230	.029	.013	.045	.210	.130	.039	.410	.003	.027	.42	

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECÁNICAS MECHANICAL PROPERTIES					
		ReH MPa	ReL MPa	Rm MPa	AK J	CVN J	AV %
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	28,2	28,1
W-8x31	102212	386	380	514	498	31,8	31,1
W-8x31	102213	397	366	538	516	30,7	30,7
W-8x31	102351	386	380	514	488	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	509	34,2	33,5
W-8x31	102357	418	410	549	529	31,4	31,2
W-8x31	102358	415	407	541	536	29,2	29,1
W-8x35	101317	360	356	541	541	31,5	30,7
W-8x35	101318	380	380	528	528	32,1	30,6
W-8x35	101319	398	389	550	537	30,0	30,0
W-8x35	102210	361	363	543	521	33,7	33,3
W-8x35	102211	365	366	532	522	29,4	28,5
W-8x40	101310	398	398	580	548	29,8	28,7
W-8x40	101345	391	379	548	524	31,1	30,6
W-8x40	102362	448	440	550	532	28,8	26,6
W-8x48	102363	448	440	549	533	27,2	26,4
W-8x48	101341	372	372	541	524	29,7	29,0
W-8x48	101342	372	376	532	510	30,7	29,9
W-8x48	102360	440	434	544	544	26,5	25,0
W-8x48	102361	440	435	545	543	26,0	24,7
W-8x48	102362	435	436	544	546	25,7	25,9

ESTE CERTIFICADO ES COPIA DE UN ORIGINAL DE NUESTROS ARCHIVOS
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