

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

34054



QUALITY CERTIFICATE

APS P-9011

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			PASAJES, SPAIN
		PORT OF DISCHARGE	VESSEL
		TAMPICO	PERELIK
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
Igomez	E-19161 Lot: 1		31/12/2006

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
FERREBARNIEDO / TAMPICO + / BLANCO							
WF BEAMS 8x31 1P080803140 I	40'	111	8	888	4499	499.389	105044,105134,106894,106895,106896,106897,106898,106899,106900
WF BEAMS 8x35 1P080803540 I	40'	20	8	160	5081	101.620	103425,103426,106888,106893,106894
WF BEAMS 8x40 1P080804040 I	40'	23	6	138	4355	100.165	103424,106906,106907
WF BEAMS 11x50 1P210705040 I	40'	16	5	80	4536	798.336	105400,105401,106864,106865,106878,106879,106880,106881,106882,106883,106884,106885,106886,106887

ESTE CERTIFICADO ES COPIA FIEL DEL ORIGINAL DE NUESTRAS ARCHIVOS.

A02 EN 10204/3 1.B	50W/ASTM A36-04/A572 G50-04/A992-04/A6-04												(B01/B02/B03) A03
COLADA HEAT PARA	COMPOSICION QUIMICA (%)												REVISION
	CHEMICAL COMPOSITION (%)												
	C	Mn	Si	P	S	Mo	Nb	Sn	CEV				
103424	1,04	1,50	1,70	0,020	0,01	0,001	0,130	0,120	0,019	0,320	0,020	0,023	0,36
103425	1,02	1,40	1,20	0,021	0,019	0,001	0,110	0,134	0,022	0,320	0,020	0,023	0,36
103426	1,08	1,190	1,70	0,034	0,018	0,001	0,160	0,130	0,021	0,390	0,021	0,020	0,38
105044	0,81	1,200	2,00	0,028	0,022	0,042	0,130	0,160	0,029	0,500	0,003	0,027	0,37
105134	1,11	1,180	1,80	0,018	0,016	0,002	0,130	0,180	0,024	0,390	0,021	0,019	0,38
105400	0,85	1,170	1,90	0,017	0,033	0,003	0,090	0,120	0,017	0,480	0,023	0,047	0,34
105401	1,20	1,110	1,70	0,011	0,009	0,001	0,100	0,130	0,026	0,410	0,021	0,042	0,37



QUALITY CERTIFICATE

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV				
106864	,083	1,170	,180	,018	,034	,001	,090	,160	,035	,350	,022	,027	,34				
106866	,079	1,190	,160	,014	,035	,002	,100	,160	,035	,340	,024	,031	,34				
106878	,085	1,200	,180	,018	,030	,002	,110	,180	,035	,430	,020	,027	,36				
106879	,078	1,160	,160	,018	,031	,002	,110	,180	,037	,390	,021	,022	,34				
106880	,090	1,130	,170	,014	,030	,001	,100	,180	,040	,360	,017	,025	,34				
106881	,092	1,160	,190	,016	,027	,001	,110	,200	,043	,400	,020	,026	,36				
106882	,072	1,170	,170	,017	,034	,002	,120	,190	,038	,350	,017	,023	,34				
106883	,080	1,190	,200	,017	,029	,002	,120	,210	,042	,330	,016	,026	,35				
106884	,080	1,170	,210	,015	,028	,001	,110	,180	,038	,330	,016	,026	,34				
106885	,077	1,270	,170	,017	,032	,001	,120	,170	,040	,360	,021	,027	,36				
106886	,086	1,210	,190	,018	,028	,002	,110	,160	,032	,340	,026	,027	,35				
106887	,078	1,120	,160	,017	,031	,001	,100	,170	,035	,340	,022	,024	,33				
106888	,095	1,210	,170	,016	,029	,002	,100	,160	,034	,370	,027	,024	,36				
106893	,090	1,180	,170	,023	,015	,002	,120	,170	,030	,380	,027	,025	,35				
106894	,076	1,230	,220	,021	,021	,002	,110	,160	,027	,350	,025	,021	,34				
106895	,080	1,250	,190	,024	,027	,002	,100	,170	,030	,360	,023	,027	,35				
106896	,092	1,190	,190	,020	,018	,003	,100	,170	,030	,380	,025	,021	,35				
106897	,085	1,190	,190	,018	,025	,002	,120	,160	,028	,400	,025	,022	,35				
106898	,096	1,150	,170	,026	,032	,002	,120	,180	,029	,420	,023	,021	,36				
106899	,080	1,230	,190	,022	,028	,002	,130	,210	,030	,420	,023	,021	,36				
106900	,096	1,190	,190	,025	,029	,002	,120	,160	,026	,420	,024	,023	,37				
106906	,093	1,190	,200	,021	,030	,002	,140	,190	,038	,430	,019	,024	,37				
106907	,080	1,210	,170	,019	,030	,002	,130	,220	,045	,410	,020	,032	,36				

FERREBARNIEDO S.A. DE C.V.
 ORIGINAL DE NUESTROS ARCHIVOS
 PARA LA REMISION NO. 58-36-1000
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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa	Rm MPa	A% L0=80			
W-21x50	105400	399	385	508	502	26,7	26,6
W-21x50	105401	419	407	548	530	26,2	25,5
W-21x50	106866	427	427	535	523	25,5	25,2
W-21x50	106866	422	407	543	519	25,5	24,3
W-21x50	106878	410	407	537	533	25,7	25,1
W-21x50	106879	417	401	544	520	25,7	25,6
W-21x50	106880	414	404	525	517	24,3	24,2
W-21x50	106881	412	408	517	505	27,7	26,8
W-21x50	106882	401	401	516	508	26,6	25,8
W-21x50	106883	392	392	516	508	26,6	26,5
W-21x50	106884	402	396	516	508	26,6	26,5
W-21x50	106885	414	408	526	518	26,9	26,2
W-21x50	106886	398	384	507	493	27,6	27,5
W-21x50	106887	419	408	534	529	25,8	25,3
W-8x31	105044	396	394	514	506	23,6	22,8
W-8x31	105134	405	391	540	532	24,1	23,5
W-8x31	106894	367	357	518	510	24,2	23,5
W-8x31	106895	368	366	516	502	21,3	21,1
W-8x31	106896	362	361	512	508	22,3	22,
W-8x31	106897	356	356	534	510	23,	22,3
W-8x31	106898	362	360	523	521	23,3	22,9