

## QUALITY CERTIFICATE

APS P-10167

DISCHARGE ADDRESS		CUSTOMER	
PLESA ANAHUAC Y CIAS, S.A.DE C.V. AV VALLE DE LAS ALAMEDAS 66-O COL.SAN FRANCISCO CHILPAN 54940,TULTITLAN EDO.DE MEXICO		ARCELOR COMMERCIAL SECTIONS,S.A. 66, RUE DE LUXEMBOURG L-4221 ESCH-SUR-ALZETTE LUXEMBURGO	
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
		VERACRUZ	CANADIAN EXPRESS
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mgonzalez	E-20006	1700005884	30/03/2007

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
<b>AMARILLO</b>							
WF BEAMS 12x30	40'	19	8	152	4355	82.745	109059,109060,109061
WF BEAMS 12x35	40'	22	8	176	5081	111.782	109056,109057,109058
WF BEAMS 12x40	40'	18	6	108	4355	78.390	109048,109052,109056
WF BEAMS 12x45	40'	6	6	36	4899	29.394	109042,109048,109066

TOTAL BUNDLES

65

TOTAL WEIGHT

302.311 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

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													CEV							
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn									
109042	,098	1,110	,180	,022	,022	,035	,080	,150	,018	,340	,003	,055	,34								
109048	,081	1,120	,170	,017	,029	,001	,070	,150	,025	,440	,016	,056	,33								
109052	,110	1,230	,180	,021	,027	,042	,120	,230	,037	,520	,003	,040	,40								
109056	,093	1,190	,170	,020	,032	,002	,100	,210	,040	,480	,024	,037	,37								
109057	,076	1,340	,210	,019	,025	,002	,120	,180	,032	,470	,024	,039	,37								
109058	,108	1,300	,240	,024	,027	,002	,120	,200	,032	,490	,019	,040	,40								
109059	,076	1,190	,180	,022	,028	,001	,120	,170	,028	,420	,018	,041	,34								
109060	,070	1,200	,170	,017	,031	,001	,090	,200	,025	,430	,016	,049	,34								
109061	,079	1,250	,170	,018	,030	,002	,100	,170	,026	,380	,021	,046	,35								
109066	,124	1,110	,210	,024	,030	,002	,110	,170	,015	,420	,021	,041	,37								

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



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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-12x30	109059	360	358	525	511	23,5	22,9
W-12x30	109060	364	350	522	500	23,9	23,8
W-12x30	109061	381	372	495	495	24,	23,1
W-12x35	109056	379	365	549	549	22,8	22,
W-12x35	109057	361	352	550	526	21,7	20,9
W-12x35	109058	358	358	547	535	22,2	21,6
W-12x40	109048	359	356	482	464	21,2	21,1
W-12x40	109052	406	402	537	517	21,1	20,9
W-12x40	109056	392	384	548	532	21,5	21,1
W-12x45	109042	384	380	507	503	26,2	32,5
W-12x45	109048	383	369	549	532	22,1	21,7
W-12x45	109066	388	375	543	535	21,2	20,8

### 10 análisis

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

B06: Marca APO

Z01