

QUALITY CERTIFICATE

APS P-10071

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	OLMECA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mgonzalez	E-20006	1700005884	29/03/2007

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
/ AMARILLO							
WF BEAMS 10x22	40'	6	12	72	4790	28.740	109023,109025,109027,109028
WF BEAMS 10x26	40'	11	10	110	4717	51.887	109028,109029,109030,109031
WF BEAMS 10x30	40'	2	8	16	4355	8.710	109022
WF BEAMS 14x30	40'	18	8	144	4355	78.390	108966,108967,108968
WF BEAMS 14x34	40'	7	8	56	4935	34.545	108965,108966
WF BEAMS 14x38	40'	8	6	48	4137	33.096	108962
WF BEAMS 16x36	40'	54	5	270	3266	176.364	108915,108916,108917,108918
WF BEAMS 16x40	40'	48	5	240	3629	174.192	108911,108912,108913
WF BEAMS 18x60	40'	7	4	28	4354	30.478	108884,108885
WF BEAMS 18x71	40'	21	4	84	5153	108.213	108876,108877

TOTAL BUNDLES 182 TOTAL WEIGHT 724.615 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 (%)												
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV
108876	,111	1,170	,180	,015	,023	,040	,140	,200	,050	,390	,003	,028	,39
108884	,100	1,180	,210	,024	,024	,039	,160	,210	,052	,410	,003	,026	,39

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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APS P-100

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
		C11		C12		C13	
W-18x60	108885	406	390	532	520	24,	23,2
W-18x71	108876	411	397	548	542	23,	22,9

23 análisis

Z01

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

B06: Marca APO

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV				
108885	,095	1,180	,190	,025	,025	,035	,130	,180	,042	,410	,003	,041	,37				
108911	,116	1,120	,210	,021	,024	,039	,180	,190	,049	,390	,003	,043	,39				
108912	,117	1,170	,190	,021	,026	,039	,180	,190	,050	,450	,003	,043	,41				
108913	,102	1,170	,190	,019	,027	,041	,150	,180	,040	,460	,003	,044	,39				
108915	,092	1,200	,200	,016	,017	,043	,130	,180	,044	,370	,004	,049	,37				
108916	,090	1,180	,180	,018	,027	,040	,110	,160	,035	,360	,003	,042	,36				
108917	,086	1,190	,180	,021	,026	,039	,100	,160	,043	,320	,003	,030	,35				
108918	,077	1,220	,190	,017	,023	,037	,110	,150	,042	,300	,003	,038	,35				
108962	,106	1,110	,190	,019	,032	,045	,120	,170	,035	,410	,003	,040	,37				
108965	,091	1,190	,170	,021	,036	,044	,130	,180	,038	,400	,003	,037	,37				
108966	,092	1,120	,200	,017	,035	,045	,110	,210	,046	,420	,003	,041	,36				
108967	,084	1,120	,190	,022	,036	,040	,150	,220	,043	,440	,003	,044	,36				
108968	,090	1,200	,180	,023	,037	,045	,140	,190	,036	,460	,003	,043	,38				
109022	,110	1,180	,200	,023	,023	,002	,220	,240	,038	,360	,021	,055	,40				
109023	,082	1,190	,180	,021	,026	,002	,130	,230	,030	,430	,027	,080	,36				
109025	,100	1,170	,180	,020	,020	,002	,120	,180	,023	,430	,023	,050	,36				
109027	,078	1,180	,190	,019	,020	,001	,110	,170	,017	,430	,018	,074	,34				
109028	,098	1,190	,180	,021	,020	,002	,110	,180	,019	,420	,023	,052	,36				
109029	,095	1,170	,170	,027	,025	,001	,130	,180	,028	,450	,021	,049	,36				
109030	,089	1,210	,180	,024	,025	,002	,130	,190	,036	,460	,021	,046	,37				
109031	,077	1,230	,180	,019	,029	,002	,110	,160	,027	,480	,023	,046	,35				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
		C11		C12		C13	
W-10x22	109023	362	357	534	524	22,3	22,3
W-10x22	109025	376	372	526	523	25,1	25
W-10x22	109027	365	363	549	544	21,9	21,5
W-10x22	109028	380	366	549	537	23,5	22,9
W-10x26	109028	361	360	538	554	22,9	22,5
W-10x26	109029	378	370	546	527	24,6	24,1
W-10x26	109030	362	352	526	522	23,1	22,7
W-10x26	109031	368	358	548	534	21,9	21,7
W-10x30	109022	367	357	542	555	21,5	21,4
W-14x30	108966	392	391	515	513	21,4	21,3
W-14x30	108967	362	349	546	535	21,3	20,9
W-14x30	108968	399	387	522	518	21,2	20,8
W-14x34	108965	400	398	523	517	21,3	21,1
W-14x34	108966	394	384	522	522	21,4	22,6
W-14x38	108962	407	391	529	521	22,2	21,8
W-16x36	108915	396	384	545	532	21,4	21,3
W-16x36	108916	394	388	525	509	22,7	22,3
W-16x36	108917	394	380	549	540	21,2	20,9
W-16x36	108918	381	369	518	514	21,3	21,2
W-16x40	108911	403	390	546	540	21,3	20,9
W-16x40	108912	397	393	545	541	21,5	20,8
W-16x40	108913	400	388	542	524	22,9	22,2
W-18x60	108884	405	395	548	538	23,8	23,4