



**QUALITY CERTIFICATE**

**APS P-11062**

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	TOLTECA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
aibanez	E-21625	1700006164	30/05/2007

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>PLESA / VERACRUZ + / AMARILLO</b>							
WF BEAMS 10x12	40'	22	20	440	4355	95.810	110325,110326,110327,110328,110329,110330,110331,110332,110334
WF BEAMS 10x22	40'	21	12	252	4790	100.590	110335,110336,110337,110338,110339
WF BEAMS 10x30	40'	23	8	184	4355	100.165	110343,110344,110345,110346,110347,110348
WF BEAMS 12x45	40'	16	6	96	4899	78.384	110467,110468,110469
WF BEAMS 12x50	40'	18	6	108	5443	97.974	109020,110455,110456
WF BEAMS 14x30	40'	23	8	184	4355	100.165	110338,110339,110340,110341
WF BEAMS 14x34	40'	20	8	160	4935	98.700	110335,110336,110337,110338
WF BEAMS 18x35	40'	26	6	156	3810	99.060	110228,110229
WF BEAMS 18x40	40'	18	6	108	4355	78.390	110227,110228,110233
WF BEAMS 18x55	40'	25	4	100	3992	99.800	110191,110192
WF BEAMS 18x50	40'	28	4	112	3629	101.612	110192,110193
WF BEAMS 10x12	40'	1	18	18	3919	3.919	110325

TOTAL BUNDLES **241** TOTAL WEIGHT **1.054.569**  
Kg.

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV				
109020	,105	1,310	,180	,026	,024	,001	,320	,250	,040	,360	,025	,039	,44				
110191	,083	1,170	,160	,009	,034	,001	,080	,180	,037	,340	,019	,047	,34				
110192	,106	1,170	,180	,010	,027	,001	,090	,210	,036	,360	,019	,035	,36				
110193	,110	1,200	,180	,015	,028	,029	,170	,200	,038	,450	,003	,022	,40				
110227	,102	1,180	,180	,016	,030	,038	,150	,150	,019	,380	,003	,031	,38				
110228	,109	1,240	,200	,019	,024	,042	,170	,150	,020	,450	,003	,035	,40				
110229	,101	1,220	,190	,022	,034	,047	,140	,150	,013	,410	,003	,032	,38				
110233	,091	1,190	,190	,016	,032	,044	,160	,170	,021	,390	,003	,027	,37				
110325	,071	1,120	,180	,013	,030	,040	,100	,180	,039	,420	,003	,049	,33				
110326	,086	1,170	,200	,012	,029	,040	,080	,160	,035	,390	,003	,046	,35				
110327	,081	1,180	,180	,011	,033	,038	,090	,170	,033	,380	,003	,045	,35				
110328	,103	1,250	,190	,011	,029	,037	,100	,150	,030	,330	,003	,045	,38				
110329	,083	1,220	,170	,013	,030	,036	,120	,140	,029	,380	,003	,036	,36				
110330	,116	1,210	,200	,015	,036	,036	,130	,150	,036	,420	,005	,034	,40				
110331	,098	1,270	,170	,019	,035	,041	,150	,150	,030	,360	,009	,045	,39				
110332	,075	1,190	,180	,015	,029	,037	,140	,150	,025	,360	,003	,041	,35				
110334	,092	1,190	,200	,020	,026	,040	,150	,150	,025	,420	,008	,034	,37				
110335	,082	1,220	,220	,025	,029	,040	,160	,150	,024	,430	,005	,039	,37				
110336	,099	1,170	,210	,020	,034	,047	,150	,160	,032	,400	,003	,039	,38				
110337	,081	1,190	,190	,017	,028	,037	,130	,140	,028	,400	,003	,033	,35				
110338	,079	1,100	,150	,012	,027	,032	,140	,110	,029	,450	,003	,025	,34				
110339	,079	1,140	,190	,017	,025	,030	,140	,150	,032	,390	,003	,036	,35				
110340	,085	1,180	,220	,018	,028	,036	,150	,180	,035	,380	,003	,039	,36				
110341	,089	1,200	,180	,021	,035	,037	,140	,160	,031	,440	,003	,035	,37				
110343	,122	1,220	,200	,028	,015	,046	,270	,230	,057	,360	,003	,034	,44				
110344	,111	1,220	,200	,018	,012	,038	,180	,170	,042	,350	,003	,034	,40				
110345	,108	1,190	,200	,021	,018	,038	,180	,160	,034	,410	,003	,049	,39				
110346	,091	1,170	,200	,016	,026	,042	,160	,180	,035	,410	,003	,033	,37				
110347	,112	1,210	,200	,014	,022	,036	,150	,200	,037	,410	,003	,021	,40				
110348	,104	1,220	,180	,011	,028	,050	,110	,190	,037	,360	,003	,023	,38				
110455	,098	1,190	,190	,018	,026	,042	,130	,170	,027	,330	,003	,041	,37				
110456	,097	1,170	,170	,016	,020	,042	,100	,200	,038	,320	,003	,045	,36				
110467	,089	1,180	,200	,020	,030	,037	,120	,180	,025	,410	,003	,053	,36				
110468	,086	1,210	,180	,018	,033	,035	,120	,180	,026	,390	,003	,068	,36				
110469	,084	1,150	,200	,014	,029	,035	,110	,220	,034	,400	,003	,058	,35				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-10x12	110325	434	417	536	526	22,6	22,5
W-10x12	110326	426	412	533	511	22,9	22,6
W-10x12	110327	434	423	539	555	21,7	21,1
W-10x12	110328	430	420	547	543	22,3	21,8
W-10x12	110329	414	397	544	542	21,5	21,1
W-10x12	110330	400	384	539	525	21,4	21,1
W-10x12	110331	407	397	548	539	21,5	21,2
W-10x12	110332	435	425	544	542	21,3	21,1

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B06	C11		C12		C13	
W-10x12	110334	442	424	546	552	21,5	21,3
W-10x22	110335	403	389	537	521	21,5	21,
W-10x22	110336	392	388	525	521	22,	21,6
W-10x22	110337	391	387	511	509	21,4	20,7
W-10x22	110338	390	376	510	502	21,8	21,6
W-10x30	110343	391	377	540	538	22,3	22,2
W-10x30	110344	389	385	547	547	23,3	23,
W-10x30	110345	420	406	543	552	21,3	21,
W-10x30	110346	417	415	546	543	21,5	20,8
W-10x30	110347	426	416	545	547	21,1	21,1
W-10x30	110348	433	416	550	542	21,4	21,
W-12x45	110467	418	402	534	522	21,4	20,9
W-12x45	110468	396	394	538	518	23,	22,4
W-12x45	110469	385	383	508	504	23,4	23,3
W-12x50	109020	396	396	547	551	21,3	21,1
W-12x50	110455	407	391	532	510	23,5	22,8
W-12x50	110456	366	366	488	470	26,4	25,8
W-14x30	110338	404	398	539	537	21,6	21,2
W-14x30	110339	380	373	513	503	23,	22,9
W-14x30	110340	400	398	541	525	21,4	21,3
W-14x30	110341	396	384	531	513	22,2	21,8
W-14x34	110335	407	391	533	525	21,9	21,3
W-14x34	110336	420	410	546	530	21,4	21,1
W-14x34	110337	394	384	519	513	22,8	22,1
W-14x34	110338	395	393	518	516	23,	22,8
W-18x35	110228	442	426	544	533	23,7	23,4
W-18x35	110229	426	418	541	517	23,7	23,1
W-18x40	110227	405	399	525	505	25,1	24,2
W-18x40	110233	414	412	529	523	23,3	23,
W-18x50	110192	401	394	543	535	21,6	21,4
W-18x50	110193	397	391	541	546	23,	22,4
W-18x55	110191	382	380	516	498	23,7	23,3
W-18x55	110192	398	392	546	528	24,8	24,6

**35 análisis**

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

B06: Marca APO

Z01



Luis María Lakunza