

## QUALITY CERTIFICATE

APS P-6868

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		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	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELOR MADRID, S.L. CARRETERA TOLEDO, N-401 - KM. 9,200 28021 VILLAVERDE (Madrid) TELEF. (91) 797.23.00 - TELEX 22120 - 49632			PASAJES, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ (MEXICO)	KEN RYU
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mgonzalez	E-16277 Lot: 1	OC.456	31/03/2006

Material: WF Vigas, calidad ASTM A-992

El exportador de los productos incluidos en el presente documento,  
Autorización aduanera no.

ARCELOR PERFILES MADRID, S.L. ES/28/0047/03

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 18x60 116-18	40'	12	5	60	5443	65.316	66425,66426,66427,66428,66430
WF BEAMS 18x71	40'	12	4	48	5153	61.836	66440,66441,66442
WF BEAMS 18x86	40'	15	3	45	4681	70.215	66351,66353,66354,66355
WF BEAMS 18x97	40'	13	3	39	5280	68.640	65810,66357,66359,66360
WF BEAMS 18x119	40'	16	2	32	4318	69.088	66342,66343,66344,66383,66384
WF BEAMS 18x35	40'	2	7	14	4446	8.892	65449,65450
WF BEAMS 18x76	40'	15	4	60	5516	82.740	65811,65812,65814,65851,65853,65854,66345,66346
WF BEAMS 18x55	40'	11	5	55	4990	54.890	66191,66193,66416,66417,66418,66443

TOTAL BUNDLES 96 TOTAL WEIGHT 481.617 Kg.

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV				
B03																	
65449	,095	,814	,193	,017	,016	,002	,128	,114	,021	,389	,017	,022	,29				
65450	,088	,817	,215	,018	,020	,003	,146	,103	,022	,368	,018	,021	,29				
65810	,086	,892	,240	,020	,019	,003	,075	,115	,020	,565	,020	,034	,30				
65811	,086	,817	,205	,019	,025	,003	,073	,112	,018	,566	,016	,036	,29				

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													CEV							
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn									
65812	,098	,839	,204	,020	,014	,003	,098	,107	,017	,495	,018	,038	,30								
65814	,086	,848	,198	,016	,023	,003	,084	,119	,018	,530	,019	,027	,29								
66191	,093	1,030	,226	,019	,016	,026	,155	,139	,025	,516	,010	,017	,35								
66193	,090	,990	,213	,019	,012	,021	,143	,114	,019	,615	,010	,019	,34								
66342	,087	,791	,208	,019	,015	,002	,150	,110	,016	,421	,017	,030	,29								
66343	,089	,808	,210	,015	,016	,002	,140	,105	,016	,350	,017	,027	,29								
66344	,087	,830	,208	,017	,022	,002	,139	,100	,015	,380	,016	,021	,29								
66345	,084	,760	,204	,022	,021	,002	,168	,116	,017	,426	,017	,020	,28								
66346	,093	,835	,214	,016	,024	,002	,086	,119	,018	,472	,016	,019	,29								
66351	,086	,828	,189	,018	,030	,004	,097	,119	,015	,408	,015	,017	,28								
66353	,111	,820	,197	,018	,025	,003	,105	,117	,018	,408	,018	,017	,31								
66354	,086	,882	,223	,016	,020	,003	,090	,120	,018	,301	,018	,014	,28								
66355	,074	,852	,209	,020	,018	,003	,124	,112	,015	,419	,017	,022	,28								
66357	,098	,781	,199	,020	,010	,003	,137	,112	,020	,415	,017	,036	,30								
66359	,089	,838	,198	,013	,015	,002	,082	,103	,016	,388	,017	,041	,28								
66360	,086	,846	,194	,014	,017	,002	,081	,107	,015	,451	,017	,036	,28								
66383	,090	,817	,209	,018	,030	,003	,108	,116	,020	,448	,017	,019	,29								
66384	,088	,920	,245	,014	,020	,003	,084	,093	,015	,339	,019	,015	,29								
66416	,092	,810	,207	,020	,022	,003	,122	,114	,019	,497	,017	,021	,30								
66417	,096	,797	,199	,030	,028	,003	,129	,110	,017	,573	,018	,027	,30								
66418	,083	,784	,210	,022	,029	,002	,109	,125	,016	,532	,017	,024	,28								
66425	,086	,776	,212	,020	,012	,003	,161	,117	,016	,446	,017	,023	,29								
66426	,087	,712	,196	,016	,008	,002	,151	,115	,014	,432	,015	,020	,28								
66427	,081	,792	,197	,024	,021	,003	,185	,122	,017	,460	,016	,025	,29								
66428	,085	,815	,215	,026	,017	,003	,159	,106	,018	,517	,017	,025	,30								
66430	,083	,749	,217	,020	,013	,002	,139	,105	,018	,480	,017	,028	,28								
66440	,087	,824	,207	,021	,013	,002	,093	,107	,017	,541	,017	,020	,29								
66441	,083	,813	,208	,022	,024	,002	,101	,115	,019	,510	,017	,021	,28								
66442	,087	,806	,185	,017	,024	,003	,085	,142	,017	,504	,017	,023	,29								
66443	,084	,817	,208	,014	,024	,002	,074	,103	,014	,583	,016	,022	,28								

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=2"	
B11	B08	C11		C12		C13	
W-18x119	66342	360	364	480	484	22,5	22,3
W-18x119	66343	348	352	480	484	21,4	21,2
W-18x119	66344	367	370	482	487	21,8	21,4
W-18x119	66383	360	364	481	486	23,1	22,8
W-18x119	66384	362	367	478	484	21,8	21,5
W-18x35	65449	388	393	494	499	20,8	20,4
W-18x35	65450	377	380	484	488	23,7	23,4
W-18x55	66191	402	407	512	518	22,2	22,1
W-18x55	66193	393	399	504	508	22,8	22,7
W-18x55	66416	383	389	484	488	22,7	22,4
W-18x55	66417	381	386	496	500	21,	20,7
W-18x55	66418	367	371	479	483	24,2	23,9
W-18x55	66443	367	372	483	488	23,2	22,7
W-18x60	66425	357	360	480	486	21,7	21,3

A01

Arcelor Madrid, S.L.  
Long Carbon Steel Europe

Sections

CARRETERA TOLEDO, N-401 - KM. 9,200  
28021 VILLAVERDE (Madrid)  
TELEF. (91) 797.23.00 - FAX (91) 795.31.81



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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=2"	
B11	B08	C11		C12		C13	
W-18x60	66426	354	357	477	481	21,2	20,9
W-18x60	66427	358	362	481	489	20,9	20,6
W-18x60	66428	361	366	477	482	21,2	20,9
W-18x60	66430	364	369	480	485	21,3	21,1
W-18x71	66440	359	363	482	487	22,6	22,3
W-18x71	66441	361	366	475	479	22,5	22,1
W-18x71	66442	362	368	475	479	21,7	21,6
W-18x76	65811	362	367	475	479	21,7	21,6
W-18x76	65812	372	373	490	493	22,7	22,8
W-18x76	65814	374	376	480	483	25,8	25,4
W-18x76	66345	380	383	487	492	22,7	22,3
W-18x76	66346	379	382	488	491	21,1	20,9
W-18x86	66351	361	365	477	480	21,6	21,4
W-18x86	66353	375	379	465	468	22,5	22,3
W-18x86	66354	365	369	474	478	21,8	21,6
W-18x86	66355	353	359	459	460	22,7	22,4
W-18x97	65810	369	374	479	480	23,6	23,3
W-18x97	66357	365	367	476	482	24,2	23,9
W-18x97	66359	365	368	472	476	23,7	23,4
W-18x97	66360	368	374	473	478	23,7	23,5

### 34 análisis

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

B06: Marca APM

Z01

Javier Aseguinolaza