

QUALITY CERTIFICATE

APS P-6366

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 PERFILES MADRID CARRETERA TOLEDO, N-401 - KM. 9,200 28021 VILLAVERDE (Madrid) TELEF. (91) 797.23.00 - TELEX 22120 - 49632			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		TAMPICO	TULA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
aibanez	E-15317 Lot: 2	4º trim.05	10/03/2006

Material: WF Vigas, calidad DUAL ASTM A-36/A 572 Gr. 50

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
/ BLANCO							
WF BEAMS 18x76 <i>1P181113 I</i>	40'	91	4	364	5516	501.956	63605,65396,65757,65815,65817,65849,65850,65851,65852,65853,65854,65855
WF BEAMS 18x86 <i>1P181128 I</i>	40'	21	3	63	4681	98.301	65365,65815,65816
WF BEAMS 18x106 <i>1P181158 I</i>	40'	17	3	51	5770	98.090	65393,65757,65809,65848,65849
WF BEAMS 18x119 <i>1P181177 I</i>	40'	23	2	46	4318	99.314	65364,65757,65808,65809

1P181177 I TOTAL BUNDLES 152 TOTAL WEIGHT 797.661 Kg.

A02 EN 10204/3.1.b		ASTM A36 - A572 G50/A6														(B01/B02/B03) A03	
MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)															
		C	Mn	Si	P	S	N	V	Cr	Ni	Mo	Cu	Nb	Al	Ti	Cev	
W-18x106	65393	.09	.85	.21	.013	.016	.011	.002	.094	.112	.022	.416	.018	.003	.002	.29	
W-18x106	65757	.09	.82	.21	.025	.014	.011	.003	.121	.108	.016	.515	.018	.002	.002	.30	
W-18x106	65809	.09	.82	.20	.022	.017	.011	.003	.095	.115	.017	.530	.018	.002	.002	.29	
W-18x106	65848	.08	.89	.23	.014	.020	.010	.002	.092	.103	.017	.479	.019	.002	.002	.29	
W-18x106	65849	.09	.79	.18	.014	.017	.010	.002	.096	.119	.018	.471	.017	.002	.002	.28	
W-18x119	65364	.09	.81	.21	.023	.023	.010	.003	.082	.140	.024	.497	.017	.002	.002	.29	
W-18x119	65757	.09	.82	.21	.025	.014	.011	.003	.121	.108	.016	.515	.018	.002	.002	.30	
W-18x119	65808	.08	.82	.22	.020	.025	.011	.003	.086	.116	.018	.552	.017	.002	.002	.29	
W-18x119	65809	.09	.82	.20	.022	.017	.011	.003	.095	.115	.017	.530	.018	.002	.002	.29	
W-18x76	63605	.08	.90	.22	.010	.015	.011	.003	.074	.118	.021	.328	.018	.002	.002	.28	

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C70:E MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)															
		C	Mn	Si	P	S	N	V	Cr	Ni	Mo	Cu	Nb	Al	Ti		Cev
B11	B00	C11	C12	C13	C14	C15	C16	C17	C18								
W-18x76	65396	,08	,80	,20	,014	,018	,010	,003	,123	,127	,025	,401	,017	,002	,002		,28
W-18x76	65757	,09	,82	,21	,025	,014	,011	,003	,121	,108	,016	,515	,018	,002	,002		,30
W-18x76	65815	,08	,84	,21	,015	,021	,011	,004	,084	,120	,018	,524	,016	,003	,003		,29
W-18x76	65817	,09	,87	,22	,015	,018	,010	,003	,079	,116	,018	,501	,018	,004	,003		,29
W-18x76	65849	,09	,79	,18	,014	,017	,010	,002	,096	,119	,018	,471	,017	,002	,002		,28
W-18x76	65850	,08	,85	,21	,018	,027	,010	,003	,096	,120	,020	,471	,019	,002	,002		,29
W-18x76	65851	,09	,79	,20	,019	,025	,011	,002	,102	,124	,020	,585	,017	,002	,002		,29
W-18x76	65852	,08	,75	,20	,025	,018	,011	,003	,120	,119	,018	,602	,017	,002	,002		,28
W-18x76	65853	,09	,76	,19	,023	,017	,011	,002	,149	,115	,018	,576	,018	,002	,002		,29
W-18x76	65854	,09	,80	,21	,021	,019	,011	,002	,111	,112	,018	,596	,018	,002	,002		,29
W-18x76	65855	,09	,76	,20	,026	,026	,011	,002	,107	,124	,016	,649	,016	,002	,002		,29
W-18x86	65365	,08	,91	,20	,024	,029	,011	,006	,159	,139	,027	,580	,020	,002	,002		,32
W-18x86	65815	,08	,84	,21	,015	,021	,011	,004	,084	,120	,018	,524	,016	,003	,003		,29
W-18x86	65816	,08	,85	,20	,015	,012	,010	,004	,080	,116	,018	,505	,018	,003	,003		,29
MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST											
		ReH MPa	Rm MPa	A% L0=5,65/S0	Dobrado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.						
B11	B00	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23			
W-18x106	65393	358	480	22,1													
W-18x106	65757	355	477	24,2													
W-18x106	65809	360	480	24,3													
W-18x106	65848	352	488	25,1													
W-18x106	65849	357	484	25,3													
W-18x119	65364	372	483	22,3													
W-18x119	65757	363	485	23,1													
W-18x119	65808	353	479	23,													
W-18x119	65809	364	480	23,4													
W-18x76	63605	393	502	25,5													
W-18x76	65396	373	477	23,7													
W-18x76	65757	374	475	23,4													
W-18x76	65815	375	483	23,6													
W-18x76	65817	369	475	23,2													
W-18x76	65849	361	481	23,9													
W-18x76	65850	360	479	23,6													
W-18x76	65851	371	484	24,8													
W-18x76	65852	384	491	23,7													
W-18x76	65853	383	491	24,1													
W-18x76	65854	375	491	23,7													
W-18x76	65855	382	488	24,8													
W-18x86	65365	373	488	22,3													
W-18x86	65815	350	480	23,8													
W-18x86	65816	374	477	24,5													

Z01

24 análisis
 D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.
 B00: Marca APM

Javier Aseguiolaza