

CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE
MAD 5631

DISCHARGE ADDRESS		CUSTOMER	
ARCELOR INTERNACIONAL MEXICO CERRO DE LAS CAMPANAS,3 T.2 DESP.403-404 DES.403-404COL.S.ANDRES ATENCO 54040 TLALNEPANTLA - MEXICO		ARCELOR INTERNACIONAL MEXICO CERRO DE LAS CAMPANAS,3 T.2 DESP.403-404 DES.403-404COL.S.ANDRES ATENCO 54040 TLALNEPANTLA - MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ACERALIA PERFILES MADRID CARRETERA TOLEDO, KM. 9 28021 MADRID TELEF. (91) 797.23.00 - FAX (91) 795.31.81			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ (MEXICO)	TULA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
MERCHE	E-14347	3° TRIM. 05	28/10/2005

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.

ACERALIA 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
WF BEAMS 14x68	40'	10	4	40	4935	49.350	64275,64276,64279,64283
WF BEAMS 14x74	40'	9	4	36	5371	48.339	64311,64313,64314,64316
WF BEAMS 18x106	40'	2	3	6	5770	11.540	64386
WF BEAMS 18x119	40'	4	2	8	4318	17.272	64324,64326,64327
WF BEAMS 18x76	40'	9	4	36	5516	49.644	64380,64381
WF BEAMS 18x86	40'	10	3	30	4681	46.810	64357,64812
WF BEAMS 18x97	40'	6	3	18	5280	31.680	64361,64368

TOTAL BUNDLES

50

TOTAL WEIGHT

254.635 Kg.

A02 EN 10204/3.1.b

ASTM A36 - A572 G50/A6

(B01/B02/B03) A03

MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														Cev			
		C	Mn	Si	P	S	N	V	Cr	Ni	Mo	Cu	Nb	Al	Ti				
W-14x68	64275	,09	,79	,20	,031	,031	,010	,004	,135	,121	,018	,516	,019	,002	,003				,30
W-14x68	64276	,08	,76	,20	,029	,030	,009	,004	,128	,127	,018	,514	,019	,003	,003				,28
W-14x68	64279	,08	,76	,17	,029	,027	,010	,003	,146	,157	,023	,581	,018	,002	,002				,29
W-14x68	64283	,09	,81	,22	,021	,035	,010	,003	,099	,119	,017	,528	,017	,002	,002				,29
W-14x74	64311	,08	,74	,17	,023	,030	,010	,003	,112	,113	,020	,523	,015	,002	,002				,28
W-14x74	64313	,08	,81	,20	,019	,012	,010	,003	,147	,111	,019	,407	,018	,002	,003				,29
W-14x74	64314	,09	,85	,21	,017	,022	,009	,003	,098	,108	,020	,425	,017	,002	,002				,29

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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	B06		C71	C72	C73	C74	C75	C76	C77	C78											
W-14x74	64316		,08	,76	,21	,025	,017	,009	,003	,186	,127	,025	,491	,017	,002	,003					,29
W-18x106	64386		,09	,86	,21	,019	,017	,010	,003	,109	,109	,022	,442	,020	,002	,002					,30
W-18x119	64324		,09	,77	,21	,023	,009	,011	,003	,124	,103	,018	,424	,019	,002	,002					,28
W-18x119	64326		,08	,83	,22	,021	,020	,012	,003	,107	,103	,021	,435	,017	,002	,002					,28
W-18x119	64327		,08	,81	,20	,018	,017	,010	,003	,114	,112	,021	,459	,017	,002	,002					,28
W-18x76	64380		,09	,81	,20	,018	,014	,009	,003	,096	,109	,020	,468	,016	,002	,003					,29
W-18x76	64381		,09	,77	,20	,024	,014	,009	,003	,138	,131	,023	,485	,018	,002	,002					,29
W-18x86	64357		,09	,82	,20	,015	,020	,011	,003	,076	,101	,018	,432	,018	,002	,003					,28
W-18x86	64812		,16	,73	,21	,022	,021	,009	,003	,131	,132	,020	,511	,017	,002	,002					,35
W-18x97	64361		,09	,73	,19	,022	,014	,010	,003	,119	,135	,022	,527	,017	,003	,002					,28
W-18x97	64368		,09	,76	,21	,027	,019	,010	,004	,152	,179	,028	,575	,018	,003	,003					,30

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST						
		ReH MPa	Rm MPa	A% L0=5.65VS0	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.	
B11	B06	C11	C12	C13	C50	C03	C20/41	C42			C43	
W-14x68	64275	370	483	22,								
W-14x68	64276	367	479	20,8								
W-14x68	64279	374	486	21,2								
W-14x68	64283	365	477	21,1								
W-14x74	64311	367	486	22,								
W-14x74	64313	361	482	21,								
W-14x74	64314	358	485	21,2								
W-14x74	64316	375	485	22,3								
W-18x106	64386	363	488	20,2								
W-18x119	64324	365	475	24,3								
W-18x119	64326	362	473	22,4								
W-18x119	64327	362	477	23,1								
W-18x76	64380	379	478	22,2								
W-18x76	64381	379	481	21,								
W-18x86	64357	370	469	23,3								
W-18x86	64812	388	526	22,5								
W-18x97	64361	360	481	21,4								
W-18x97	64368	361	480	22,3								

18 análisis

Z01

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

B06: Marca APM

Miguel Tusquellas