

ArcelorMittal Madrid, S.L.
 Long Carbon Europe
 CARBONERA TOLEDO N-401 KM 9.200
 45010 VILLAVIEJA (Madrid)
 TEL: (91) 797 25 00 FAX: (91) 795 31 81



ArcelorMittal

MILL TEST CERTIFICATE

MAD P-13374

DISCHARGE ADDRESS		CUSTOMER	
Fortacero S.A. De C.V. Blvd Carlos Salinas de Gortari KM8.8 Apodaca MEXICO		FORTACERO S.A. DE C.V. BLVD CARLOS SALINAS DEGORTARI KM8.8 APODACA MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL MADRID, S.L. CARBONERA TOLEDO N-401 KM 9.200 45010 VILLAVIEJA (Madrid) TEL: (91) 797 25 00 - TELEFAX: (91) 795 31 81			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		ALTAMIRA	CAPRI
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
bmaldonadog	05-E-18650 / 1700013157	4500080768	29/09/2011

Material: WF Vigas.

El exportador de los productos incluidos en el presente documento,
 Autorización aduanera no.
 ARCELORMITTAL 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
+YELLOW							
WF BEAMS 12x96	40'	9	3	27	5226	47.034	84349,85515
WF BEAMS 14x68	40'	6	4	24	4935	29.610	84708,85653
WF BEAMS 14x68	40'	1	2	2	2468	2.468	84712
WF BEAMS 14x61	40'	26	4	104	4427	115.102	85465,85466,85651, 85652,85653
WF BEAMS 24x68	40'	38	4	152	4935	187.530	85684,85685,85692, 85693,85694
WF BEAMS 24x94	40'	18	3	54	5117	92.106	85655,85694,85695, 85696

TOTAL BUNDLES 98

TOTAL WEIGHT 473.850 Kg.

EN 10204/3.1

CSA G40.21 50W/ASTM A572 G50/A992/A6

EN 10204/3.1

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV		
84712	.111	.775	.171	.019	.021	.003	.093	.094	.014	.347	.018	.040	.29		
85651	.093	.824	.163	.016	.016	.002	.130	.095	.014	.423	.015	.040	.29		
85652	.085	.805	.168	.021	.014	.003	.147	.099	.015	.439	.018	.042	.29		
85653	.087	.815	.187	.020	.015	.003	.123	.099	.016	.434	.020	.041	.29		
85655	.076	.910	.206	.017	.026	.003	.107	.104	.018	.462	.020	.041	.29		
85692	.083	.904	.180	.017	.018	.003	.098	.088	.013	.441	.019	.043	.29		
85693	.076	.840	.148	.019	.023	.002	.088	.089	.013	.403	.017	.046	.27		
85694	.083	.942	.140	.020	.030	.003	.097	.091	.014	.441	.021	.049	.30		

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CARRETERA TOLEDO S/N 401 KM 9,200

28011 ALAVECHE (Madrid)

TEL: (91) 707 20 00 FAX: (91) 705 10 81



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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV	
85695	106	.847	.197	.025	.022	.003	.180	.114	.019	.435	.017	.042	.32	

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
W-14x61	85651	389	394	491	492	24,5	24,6
W-14x61	85652	384	388	481	483	25,5	25,9
W-14x68	84712	366	370	481	485	23,6	24,9
W-14x68	85653	370	372	470	474	23,	23,3
W-24x68	85692	405	405	495	496	24,	24,2
W-24x68	85693	392	397	480	485	23,2	23,3
W-24x68	85694	397	402	482	483	22,6	22,8
W-24x94	85655	368	373	482	483	24,8	26,1
W-24x94	85694	369	371	482	485	24,5	26,
W-24x94	85695	385	387	486	487	25,	25,4

9 análisis

Se certifica que los aceros antes indicados han sido satisfactoriamente probados de acuerdo con la especificación.
 HVE: M. J. APM

Juan Pablo Canullo