

ArcelorMittal Madrid, S.L.
 Long Carbon Steel Europe
 CARRETERA TOLEDO, N-401 - KM. 9,200
 28021 VILLAVERDE (Madrid)
 TELEF. (91) 797.23.00 - FAX (91) 795.31.81



QUALITY CERTIFICATE

MAD P-8849

DISCHARGE ADDRESS		CUSTOMER	
GRUPO COLLADO, S.A. DE C.V. GAVILAN # 200, COL. EL MORAL IZTAPALAPA MEXICO		GRUPO COLLADO, S.A. DE C.V. GAVILAN # 200, COL. EL MORAL IZTAPALAPA MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL MADRID, S.L. CARRETERA TOLEDO, N-401 - KM. 9,200 28021 VILLAVERDE (Madrid) TELEF. (91) 797.23.00 - TELEX 22120 - 49632 ARIS			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	OLMECA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	E-12425	1700007172	14/03/2008

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
+NEGRO							
WF BEAMS 24x76	40'	2	4	8	5516	11.032	74338,74588
WF BEAMS 24x84	40'	12	3	36	4572	54.864	74326,74342,74596, 74597,74601,74605, 74617
WF BEAMS 24x94	40'	2	3	6	5117	10.234	74358,74614
WF BEAMS 18x76	40'	27	4	108	5516	148.932	74269,74956,74957, 74958,74961,74962, 74963,74964,74965, 74966,74967,74968, 75014,75015

TOTAL BUNDLES

43

TOTAL WEIGHT

225.062 Kg.

A02 EN 10204/3.1.B

CSA G40.21 50W/ASTM A36-04/A572 G50-04/A992-04/A6-04

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)												
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV
74269	.081	.822	.213	.018	.025	.002	.100	.097	.022	.449	.017	.023	.28
74326	.095	1.278	.214	.012	.024	.003	.082	.115	.032	.438	.017	.024	.37
74338	.079	.832	.210	.011	.026	.002	.079	.104	.023	.360	.017	.016	.27
74342	.088	.849	.191	.015	.018	.002	.095	.121	.025	.400	.017	.019	.29
74358	.082	.860	.278	.016	.021	.003	.092	.132	.026	.393	.020	.016	.28
74588	.096	.927	.200	.013	.019	.002	.072	.094	.021	.440	.020	.017	.31
74596	.092	.795	.218	.020	.026	.002	.101	.113	.021	.437	.017	.020	.29

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV				
74597	.111	.801	.204	.018	.022	.002	.085	.120	.021	.459	.020	.021	.30				
74601	.093	.867	.207	.017	.014	.002	.093	.095	.019	.433	.019	.017	.30				
74605	.086	.849	.206	.014	.026	.002	.056	.096	.020	.300	.018	.023	.29				
74614	.087	.832	.197	.015	.019	.002	.073	.096	.018	.362	.016	.020	.27				
74617	.087	.778	.219	.015	.020	.002	.117	.187	.044	.410	.017	.019	.29				
74956	.095	.832	.197	.013	.024	.002	.064	.105	.021	.474	.021	.018	.29				
74957	.104	.918	.210	.018	.025	.003	.103	.116	.025	.436	.018	.021	.32				
74958	.094	.789	.209	.025	.021	.002	.121	.118	.021	.398	.017	.020	.29				
74961	.087	.793	.207	.027	.023	.002	.110	.118	.022	.477	.017	.022	.29				
74962	.085	.795	.200	.020	.022	.002	.105	.122	.022	.462	.016	.020	.28				
74963	.103	.826	.209	.029	.026	.002	.122	.115	.022	.490	.016	.022	.31				
74964	.093	.814	.205	.024	.028	.002	.111	.125	.022	.454	.017	.020	.29				
74965	.092	.847	.173	.019	.030	.003	.088	.111	.023	.447	.016	.020	.29				
74966	.083	.777	.193	.029	.018	.002	.116	.124	.023	.397	.018	.019	.28				
74967	.098	.790	.205	.022	.014	.002	.118	.121	.021	.383	.016	.017	.29				
74968	.089	.828	.212	.020	.025	.002	.093	.105	.022	.423	.017	.019	.29				
75014	.105	1.361	.213	.016	.017	.004	.094	.095	.029	.393	.020	.020	.39				
75015	.088	1.321	.228	.014	.025	.004	.083	.107	.030	.387	.016	.017	.36				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa G17	Rm MPa G12	A% L0=8" G13			
W-18x76	74269	364	366	476	480	22,3	22,1
W-18x76	74956	368	371	465	489	20,4	20,3
W-18x76	74957	380	384	495	499	22,4	22,1
W-18x76	74958	365	371	484	487	24,	23,8
W-18x76	74961	365	368	484	488	21,	20,7
W-18x76	74962	372	378	474	476	20,1	20,2
W-18x76	74963	379	384	490	495	20,7	20,5
W-18x76	74964	367	373	476	480	22,5	22,2
W-18x76	74965	352	357	471	476	20,5	20,3
W-18x76	74966	363	368	476	479	20,8	20,6
W-18x76	74967	353	359	473	477	25,3	25,
W-18x76	74968	362	367	470	475	22,5	22,3
W-18x76	75014	399	405	532	536	22,5	22,3
W-18x76	75015	409	413	521	525	22,6	22,4
W-24x76	74338	366	368	467	469	23,3	23,1
W-24x76	74588	377	382	484	488	22,2	22,1
W-24x84	74326	400	404	511	516	22,2	22,1
W-24x84	74342	380	383	492	496	21,2	21,
W-24x84	74596	370	373	488	493	23,1	22,8
W-24x84	74597	387	393	497	499	21,1	20,9
W-24x84	74801	385	389	495	500	20,5	20,3
W-24x84	74605	356	361	456	460	24,1	23,7
W-24x84	74617	372	375	476	479	23,8	23,4
W-24x94	74358	370	376	483	488	23,7	23,5
W-24x94	74614	365	370	471	476	21,8	21,7

A01

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25 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.
B08: Marca APM

Z01


Carlos Alvarez