A01

ACERALIA PERFILES C ERRIA
Grupo Arcelor

CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

AENOR ER Empresa Registrada ER-0036/1992

QUALITY CERTIFICATE

APS P-6162

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
ARCELOR PERFILES OLABERRIA, S.L. CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04		PASAJES, SPAIN
	PORT OF DISCHARGE	VESSEL
	VERACRUZ (MEXICO)	GREAT RIVER

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
igomez	E-15343 Lot: 1	STOCK	05/01/2006

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.

ACERALIA PERFILES OLABERRIA S.L. ES/20/0040/03

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 8x21	40´	11	12	132	4572	50.292	56624,56625,56626,56627
WF BEAMS 10x15	40´	10	18	180	4898	48.980	56346,56347,56349,56350,56405,56406,56407,56408,56409,56410
WF BEAMS 18x65	40´	11	4	44	4717	51.887	56267,56268,56269

TOTAL BUNDLES 32 TOTAL WEIGHT 151.159 Kg.

A02 EN 10204/3.1.b — ASTM A36 - A572 G50/A6 — (B01/B02/B03) A03

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	B08	C71	C72	C73	C74	C75	C76	C77	C78										
W-10x15	56346	,11	1,23	,22	,019	,025	,010	,005	,170	,183	,040	,409	,025	,002	,003				,39
W-10x15	56347	,10	1,25	,20	,017	,024	,011	,002	,136	,203	,045	,390	,025	,002	,003				,38
W-10x15	56349	,08	1,19	,19	,015	,018	,009	,004	,113	,190	,043	,390	,020	,002	,003				,35
W-10x15	56350	,09	1,20	,19	,018	,021	,011	,002	,137	,199	,046	,354	,026	,002	,003				,37
W-10x15	56405	,08	1,16	,19	,021	,031	,012	,002	,163	,202	,045	,385	,023	,002	,003				,36
W-10x15	56406	,08	1,16	,19	,021	,029	,011	,002	,161	,200	,044	,381	,023	,002	,003				,35
W-10x15	56407	,10	1,14	,20	,019	,027	,010	,002	,141	,180	,039	,382	,025	,002	,003				,36
W-10x15	56408	,09	1,14	,20	,020	,024	,010	,002	,133	,173	,038	,395	,025	,002	,003				,36
W-10x15	56409	,10	1,12	,20	,019	,025	,010	,003	,135	,179	,039	,391	,025	,002	,003				,36
W-10x15	56410	,09	1,12	,18	,020	,024	,010	,002	,133	,173	,038	,385	,025	,002	,003				,35
W-18x65	56267	,08	1,14	,21	,019	,023	,011	,002	,094	,120	,018	,332	,020	,002	,003				,32

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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	B08	C71	C72	C73	C74	C75	C76	C77	C78										
W-18x65	56268	,08	1,18	,21	,022	,027	,010	,002	,102	,104	,021	,344	,022	,002	,003				,33
W-18x65	56269	,10	1,10	,22	,021	,026	,010	,002	,162	,157	,031	,365	,020	,002	,003				,36
W-8x21	56624	,11	1,13	,21	,019	,022	,010	,002	,125	,175	,040	,453	,023	,001	,003				,37
W-8x21	56625	,09	1,12	,19	,021	,019	,011	,002	,151	,161	,037	,476	,022	,001	,003				,36
W-8x21	56626	,10	1,16	,22	,018	,023	,010	,002	,125	,167	,036	,464	,022	,001	,003				,36
W-8x21	56627	,09	1,13	,22	,017	,019	,009	,002	,122	,162	,035	,451	,020	,001	,003				,35

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES				FLEXIÓN POR CHOQUE IMPACT TEST					
		ReH MPa	Rm MPa	A% L0=5.65VSo	Doblado 180°	°C	KV300	V1 j.	V2 j.	V3 j.	Media j.
B11	B08	C11	C12	C13	C50	C03	C40/41		C42		C43
W-10x15	56346	397	542	31,1		+20°	4	76	60	81	72
W-10x15	56347	381	542	29,2		+20°	4	125	97	102	108
W-10x15	56349	382	548	30,2		+20°	4	148	121	122	130
W-10x15	56350	379	542	29,7		+20°	4	91	70	80	80
W-10x15	56405	401	543	34,8		+20°	4	115	93	104	104
W-10x15	56406	391	544	30,8		+20°	4	119	109	108	112
W-10x15	56407	401	544	30,6		+20°	4	134	106	120	120
W-10x15	56408	407	542	30,5		+20°	4	131	123	118	124
W-10x15	56409	430	546	29,1		+20°	4	132	113	97	114
W-10x15	56410	401	538	31,5		+20°	4	112	109	108	110
W-18x65	56267	406	519	29,9		+20°	10	91	72	71	78
W-18x65	56268	395	525	29,		+20°	10	130	121	112	121
W-18x65	56269	396	526	28,9		+20°	10	111	81	100	97
W-8x21	56624	383	541	28,3		+20°	5	152	141	142	145
W-8x21	56625	379	544	29,3		+20°	5	47	38	37	41
W-8x21	56626	375	543	29,9		+20°	5	81	61	71	71
W-8x21	56627	376	550	30,8		+20°	5	41	41	36	39

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' análisis

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

B06: Marca APO

Luis María Lakunza