

**ARCELOR PERFILES OLABERRIA, S.L.**

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



**QUALITY CERTIFICATE**

**APS P-6369**

DISCHARGE ADDRESS		CUSTOMER	
ARCELOR INTERNACIONAL MEXICO, S.A. DE C.V. CERRO DE LAS CAMPANAS,3 T.2 DESP.403-404 DES.403-404COL.S.ANDRES ATENCO 54040 TLALNEPANTLA - MEXICO		ARCELOR INTERNACIONAL MEXICO, S.A. DE C.V. 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			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ (MEXICO)	AZTECA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
igomez	E-15343 Lot: 2	STOCK	14/02/2006

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 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 12x16	40'	10	18	180	5225	52.250	100269,100270,100271,100272
WF BEAMS 12x26	40'	21	10	210	4717	99.057	100235,100237,100238,100239
WF BEAMS 12x30	40'	11	8	88	4355	47.905	100234,100267,100269
WF BEAMS 12x35	40'	10	8	80	5081	50.810	100231,100232
WF BEAMS 12x40	40'	23	6	138	4355	100.165	100159,100239,100240
WF BEAMS 12x50	40'	14	6	84	5443	76.202	100241,100242
WF BEAMS 14x43	40'	11	6	66	4681	51.491	100169,100170
WF BEAMS 16x36	40'	31	5	155	3266	101.246	100162,100163
WF BEAMS 16x50	40'	17	5	85	4536	77.112	100163,100164,100165

TOTAL BUNDLES 148

TOTAL WEIGHT 656.238 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-12x16	100269	,08	1,14	,21	,024	,025	,012	,002	,191	,174	,035	,432	,019	,002	,003		,36
W-12x16	100270	,09	1,21	,21	,026	,019	,012	,002	,216	,215	,040	,450	,022	,002	,003		,38
W-12x16	100271	,08	1,21	,21	,023	,022	,011	,002	,160	,179	,034	,451	,019	,002	,003		,36
W-12x16	100272	,08	1,18	,20	,019	,016	,010	,002	,132	,192	,035	,450	,018	,002	,003		,36

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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-12x26	100235	,07	1,16	,21	,019	,016	,009	,002	,100	,155	,035	,360	,019	,002	,003		,33
W-12x26	100237	,09	1,18	,21	,019	,020	,010	,002	,111	,159	,030	,465	,021	,002	,003		,36
W-12x26	100238	,08	1,19	,20	,019	,020	,010	,002	,107	,159	,031	,431	,022	,002	,003		,35
W-12x26	100239	,09	1,24	,20	,018	,023	,009	,002	,107	,163	,035	,431	,021	,002	,003		,36
W-12x30	100234	,08	1,21	,19	,018	,025	,011	,002	,088	,215	,041	,377	,022	,001	,003		,35
W-12x30	100267	,08	1,17	,17	,018	,024	,010	,002	,088	,176	,041	,364	,019	,002	,003		,34
W-12x30	100269	,08	1,17	,19	,020	,019	,010	,002	,102	,161	,037	,364	,020	,002	,003		,34
W-12x35	100231	,08	1,23	,22	,023	,029	,011	,002	,090	,191	,043	,402	,020	,002	,003		,35
W-12x35	100232	,07	1,17	,20	,019	,025	,011	,002	,089	,179	,042	,379	,021	,002	,003		,33
W-12x40	100159	,05	1,10	,21	,022	,019	,009	,002	,128	,145	,036	,349	,018	,002	,003		,30
W-12x40	100239	,05	1,12	,21	,023	,021	,010	,002	,129	,150	,036	,357	,019	,002	,003		,31
W-12x40	100240	,07	1,12	,21	,020	,022	,009	,002	,118	,150	,030	,385	,016	,002	,003		,33
W-12x50	100241	,09	1,13	,21	,020	,027	,009	,002	,129	,185	,039	,411	,016	,002	,003		,35
W-12x50	100242	,09	1,13	,20	,021	,028	,009	,002	,129	,183	,038	,414	,017	,002	,003		,35
W-14x43	100169	,09	1,15	,19	,019	,033	,011	,002	,129	,192	,047	,420	,020	,001	,003		,36
W-14x43	100170	,09	1,10	,18	,018	,027	,011	,002	,127	,186	,046	,411	,017	,001	,003		,35
W-16x36	100162	,09	1,17	,21	,021	,019	,011	,002	,170	,191	,057	,492	,021	,002	,003		,38
W-16x36	100163	,09	1,16	,20	,024	,021	,011	,002	,134	,172	,041	,451	,020	,001	,003		,36
W-16x50	100163	,08	1,13	,20	,022	,021	,011	,002	,132	,168	,041	,439	,018	,001	,003		,34
W-16x50	100164	,09	1,13	,20	,017	,018	,011	,002	,125	,173	,045	,498	,020	,002	,004		,35
W-16x50	100165	,08	1,14	,21	,017	,015	,012	,002	,122	,174	,047	,520	,021	,002	,003		,35

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	B08	C11	C12	C13	C50	C03	C40/41	C42		C43	
W-12x16	100269	365	546	29,8		+20°	4	73	55	59	62
W-12x16	100270	377	537	29,3		+20°	4	67	54	53	58
W-12x16	100271	362	541	31,3		+20°	4	69	59	58	62
W-12x16	100272	365	539	31,8		+20°	4	97	71	83	84
W-12x26	100235	361	506	27,7		+20°	5	89	67	81	79
W-12x26	100237	379	542	29,7		+20°	5	52	41	42	45
W-12x26	100238	373	549	31,3		+20°	5	68	56	77	67
W-12x26	100239	373	547	28,7		+20°	5	72	65	66	68
W-12x30	100234	378	548	26,5		+20°	5	86	71	72	76
W-12x30	100267	363	531	31,		+20°	5	58	44	57	53
W-12x30	100269	359	528	30,6		+20°	5	64	55	49	56
W-12x35	100231	371	542	29,2		+20°	5	42	36	36	38
W-12x35	100232	362	531	30,6		+20°	5	64	57	65	62
W-12x40	100159	359	521	28,9		+20°	5	66	54	62	61
W-12x40	100239	364	516	29,1		+20°	5	41	37	37	38
W-12x40	100240	384	516	29,8		+20°	5	110	98	98	102
W-12x50	100241	411	533	27,1		+20°	7,5	43	38	36	39
W-12x50	100242	410	526	26,7		+20°	7,5	39	37	37	38
W-14x43	100169	386	539	31,		+20°	5	135	102	111	116
W-14x43	100170	389	537	32,1		+20°	5	118	104	120	114
W-16x36	100162	367	540	27,9		+20°	5	150	112	137	133
W-16x36	100163	370	542	28,2		+20°	5	175	141	154	157
W-16x50	100163	368	534	29,5		+20°	7,5	106	93	106	102

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		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	C40/C1	C42		C43	
W-16x50	100164	380	546	28,7		+20°	7,5	64	59	58	60
W-16x50	100165	385	548	33,9		+20°	7,5	142	135	146	141

## 25 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.  
 B06: Marca APO

Z01

Luis Maria Lakunza