

**CERTIFICADO DE CALIDAD - QUALITY CERTIFICATE**

OLA 4637

DISCHARGE ADDRESS		CUSTOMER	
<b>FERRE BARNIEDO, S.A. DE C.V.</b> AV REVOLUCION,81 CP 55000 ECATEPEC EDO DE MEXICO		<b>FERRE BARNIEDO, S.A. DE C.V.</b> AV REVOLUCION,81 CP 55000 ECATEPEC EDO DE MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
<b>ACERALIA PERFILES OLABERRIA, S.L.</b> CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			<b>PASAJES, SPAIN</b>
		PORT OF DISCHARGE	VESSEL
		<b>TAMPICO</b>	<b>CIDO PACIFIC</b>
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
<b>MERCHE</b>	<b>E-12407</b>	<b>ABRIL 2005</b>	<b>27/04/2005</b>

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
Orden cliente: 1204/005 (ESPAÑA) + / BLANCO							
WF BEAMS 16x26 1606039	40'	35	6	210	2830	99.050	44855,51126,51236,52019,52020,52026,52040,52041,52042
WF BEAMS 16x31 046	40'	30	6	180	3375	101.250	51248,51249,51250,51251,52032,52033,52034,52044
WF BEAMS 18x35 1806052	40'	39	6	234	3810	148.590	51174,51175,51178,52015,52016,52017,52023,52024,52028,52029,52030
WF BEAMS 18x40 060	40'	23	6	138	4355	100.165	51201,51202,52009,52013,52014,52015
WF BEAMS 21x44 2107065	40'	50	5	250	3992	199.600	51273,52069,52070,52071,52072,52084,52085,52088,52089
WF BEAMS 21x50 074	40'	13	5	65	4536	58.968	51267,52067,52068,52090
WF BEAMS 24x55 2407082	40'	20	5	100	4990	99.800	52061,52062,52064,52094,52095
TOTAL BUNDLES		210		TOTAL WEIGHT		807.423 Kg.	

A02 EN 10204/3.1.B		ASTM A36 - A572 G50/A6													(B01/B02/B03) A03			
MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													PROPIEDADES MECANICAS MECHANICAL PROPERTIES			
		C	Mn	Si	P	S	N	V	Cr	Ni	Mo	Cu	Nb	Sn	ReH MPa	Rm MPa	A% L0=2"	Doblad. 180°
W-16x26	44855	.082	1,100	.191	.022	.026	.010	.002	.154	.130	.024	.580	.015	.027	361	550	31,5	
W-16x26	51126	.097	1,180	.153	.021	.033	.009	.002	.093	.149	.028	.573	.023	.047	430	545	28,5	

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MATERIAL SIZE	COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													PROPIEDADES MECANICAS MECHANICAL PROPERTIES			
		C	Mn	Si	P	S	N	V	Cr	Ni	Mo	Cu	Nb	Sn	ReH MPa	Rm MPa	A% L0=2"	Doblado 180°
<i>R11</i>	<i>R08</i>	<i>C71</i>	<i>C72</i>	<i>C73</i>	<i>C74</i>	<i>C75</i>	<i>C76</i>							<i>C11</i>	<i>C12</i>	<i>C13</i>	<i>C10</i>	
W-16x26	51236	,091	1,150	,159	,022	,033	,011	,002	,111	,140	,026	,529	,020	,025	413	548	29,3	
W-16x26	52019	,087	1,160	,171	,023	,029	,010	,002	,141	,178	,038	,562	,022	,024	359	545	28,	
W-16x26	52020	,100	1,180	,204	,028	,027	,010	,002	,162	,193	,035	,558	,024	,025	357	540	29,4	
W-16x26	52026	,082	1,170	,177	,028	,027	,011	,002	,160	,192	,045	,578	,020	,027	362	548	28,6	
W-16x26	52040	,093	1,180	,199	,020	,021	,009	,003	,132	,165	,034	,555	,023	,020	360	543	28,3	
W-16x26	52041	,100	1,230	,201	,025	,040	,011	,002	,131	,198	,034	,577	,028	,029	355	546	27,2	
W-16x26	52042	,085	1,165	,175	,022	,028	,000	,003	,130	,210	,036	,540	,023	,030	362	518	34,1	
W-16x31	51248	,134	1,160	,184	,019	,022	,010	,002	,079	,188	,039	,496	,021	,041	421	548	28,9	
W-16x31	51249	,129	1,200	,192	,021	,028	,010	,002	,088	,188	,039	,509	,022	,049	398	539	26,	
W-16x31	51250	,092	1,170	,188	,020	,026	,010	,002	,086	,174	,037	,482	,018	,047	380	547	30,7	
W-16x31	51251	,100	1,180	,180	,024	,014	,009	,002	,117	,173	,034	,495	,025	,028	362	545	25,2	
W-16x31	52032	,100	1,160	,182	,019	,015	,010	,002	,169	,191	,043	,564	,020	,033	360	542	28,1	
W-16x31	52033	,068	1,130	,164	,023	,035	,010	,002	,152	,202	,038	,503	,020	,025	358	548	33,6	
W-16x31	52034	,112	1,160	,208	,020	,023	,010	,002	,161	,188	,040	,489	,020	,043	361	539	29,7	
W-16x31	52044	,077	1,170	,167	,025	,039	,009	,002	,154	,205	,039	,529	,023	,027	361	538	32,2	
W-18x35	51174	,082	1,170	,174	,015	,022	,010	,002	,070	,150	,029	,496	,020	,030	380	537	28,2	
W-18x35	51175	,088	1,250	,162	,018	,033	,010	,002	,089	,144	,028	,501	,019	,030	359	547	29,5	
W-18x35	51178	,091	1,190	,167	,019	,021	,010	,002	,074	,144	,027	,472	,027	,027	385	541	30,	
W-18x35	52015	,089	1,180	,182	,026	,026	,011	,002	,166	,156	,033	,452	,021	,027	363	542	30,4	
W-18x35	52016	,095	1,230	,168	,023	,030	,011	,002	,164	,165	,035	,510	,024	,023	360	546	27,9	
W-18x35	52017	,101	1,220	,202	,024	,025	,011	,002	,198	,200	,048	,571	,020	,043	359	545	27,3	
W-18x35	52023	,108	1,170	,199	,024	,018	,011	,002	,162	,187	,045	,580	,018	,030	360	544	27,1	
W-18x35	52024	,089	1,200	,176	,031	,028	,012	,002	,157	,194	,045	,568	,021	,025	362	545	29,8	
W-18x35	52028	,067	1,200	,210	,028	,037	,012	,002	,206	,216	,051	,573	,020	,044	361	543	28,4	
W-18x35	52029	,107	1,170	,188	,028	,028	,011	,002	,184	,179	,038	,551	,023	,028	357	547	26,7	
W-18x35	52030	,093	1,220	,188	,027	,032	,011	,002	,168	,157	,033	,463	,022	,028	355	544	29,9	
W-18x40	51201	,089	1,240	,171	,024	,024	,010	,002	,093	,141	,030	,415	,021	,021	360	548	27,3	
W-18x40	51202	,088	1,190	,174	,025	,028	,010	,002	,113	,141	,027	,440	,025	,024	392	548	28,4	
W-18x40	52009	,102	1,180	,178	,023	,023	,010	,002	,137	,220	,049	,468	,018	,041	361	547	30,2	
W-18x40	52013	,097	1,200	,183	,018	,022	,012	,002	,120	,186	,042	,494	,023	,032	369	541	26,1	
W-18x40	52014	,084	1,210	,184	,018	,028	,011	,002	,119	,163	,039	,480	,024	,028	360	543	32,5	
W-18x40	52015	,108	1,160	,173	,023	,029	,011	,002	,144	,172	,038	,460	,024	,028	398	541	27,5	
W-21x44	51273	,094	1,240	,161	,018	,025	,012	,002	,071	,154	,027	,406	,019	,042	428	530	33,1	
W-21x44	52069	,083	1,210	,152	,022	,043	,012	,002	,117	,143	,030	,577	,021	,027	381	534	31,1	
W-21x44	52070	,129	1,160	,192	,022	,029	,012	,002	,162	,146	,031	,551	,026	,018	424	542	28,4	
W-21x44	52071	,083	1,090	,185	,021	,030	,011	,002	,127	,163	,038	,575	,021	,023	418	536	31,6	
W-21x44	52072	,088	1,171	,165	,021	,042	,011	,002	,147	,163	,037	,572	,018	,033	402	523	32,3	
W-21x44	52084	,102	1,250	,188	,021	,034	,012	,002	,137	,170	,039	,579	,022	,033	396	549	29,5	
W-21x44	52085	,087	1,160	,185	,021	,028	,012	,002	,124	,146	,032	,560	,021	,032	395	545	30,8	
W-21x44	52088	,074	1,240	,159	,027	,036	,010	,002	,127	,155	,033	,577	,018	,024	361	549	29,7	
W-21x44	52089	,083	1,210	,153	,021	,042	,011	,002	,105	,139	,030	,539	,023	,028	386	533	30,6	
W-21x50	51267	,093	1,260	,214	,023	,027	,012	,002	,089	,150	,025	,441	,019	,027	406	540	28,4	
W-21x50	52067	,092	1,180	,177	,021	,031	,011	,003	,133	,142	,030	,555	,019	,038	378	545	29,9	
W-21x50	52068	,081	1,240	,193	,021	,032	,012	,002	,135	,174	,042	,577	,023	,031	355	542	28,4	
W-21x50	52090	,094	1,090	,160	,023	,042	,011	,003	,155	,145	,032	,578	,017	,044	388	535	30,1	
W-24x55	52061	,081	1,150	,192	,019	,025	,011	,002	,113	,152	,032	,527	,024	,022	401	539	28,3	