

ArcelorMittal Olaberria-Bergara

**ArcelorMittal Europe – Long Products**

CARRETERA MADRID - IRUN, KM. 417

20212 OLABERRIA (Gipuzkoa)

TELEF. (943) 80.50.00 - FAX (943) 88.04.04

**MILL TEST CERTIFICATE****OLA P-68064**

DISCHARGE ADDRESS		CUSTOMER	
Plesa Anahuac Y Cias, S.A. de C.V. Av. Valle de las Alamedas 66-O Col. S. Francisco Chilpan, Tul MEXICO		PLESA ANAHUAC Y CIAS S.A. DE C.V. AV. VALLE DE LAS ALAMEDAS 66-O COL. SAN FRANCISCO CHILPAN - T MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 417 20212 OLABERRIA (Gipuzkoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			<b>PASAJES, SPAIN</b>
		PORT OF DISCHARGE	VESSEL
		<b>VERACRUZ</b>	<b>ATLANTIC ACTION II</b>
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
<b>P1704510</b>	<b>E-72104/1700029477</b>	<b>29523</b>	<b>29/04/2020</b>

Material: "WF-PERFILES DE ACERO AL CARBONO LAMINADO EN CALIENTE"

El exportador de los productos incluidos en el presente documento, Autorización aduanera no.:

ARCELORMITTAL OLABERRIA-BERGARA, S. L. U. 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
<b>+/RED</b>							
<b>WF BEAMS 8x35</b>	<b>40´</b>	<b>4</b>	<b>8</b>	<b>32</b>	<b>5081</b>	<b>20.324</b>	<b>196188</b>
<b>WF BEAMS 8x24</b>	<b>40´</b>	<b>2</b>	<b>10</b>	<b>20</b>	<b>4355</b>	<b>8.710</b>	<b>195513</b>
<b>WF BEAMS 8x24</b>	<b>40´</b>	<b>1</b>	<b>10</b>	<b>10</b>	<b>4355</b>	<b>4.355</b>	<b>195514</b>
<b>WF BEAMS 8x24</b>	<b>40´</b>	<b>2</b>	<b>10</b>	<b>20</b>	<b>4355</b>	<b>8.710</b>	<b>195515</b>
<b>WF BEAMS 8x24</b>	<b>40´</b>	<b>1</b>	<b>10</b>	<b>10</b>	<b>4355</b>	<b>4.355</b>	<b>195518</b>
<b>WF BEAMS 10x22</b>	<b>40´</b>	<b>6</b>	<b>12</b>	<b>72</b>	<b>4790</b>	<b>28.740</b>	<b>196269</b>
<b>WF BEAMS 10x22</b>	<b>40´</b>	<b>5</b>	<b>12</b>	<b>60</b>	<b>4790</b>	<b>23.950</b>	<b>196270</b>
<b>WF BEAMS 10x22</b>	<b>40´</b>	<b>7</b>	<b>12</b>	<b>84</b>	<b>4790</b>	<b>33.530</b>	<b>196271</b>
<b>WF BEAMS 12x14</b>	<b>40´</b>	<b>10</b>	<b>20</b>	<b>200</b>	<b>5079</b>	<b>50.790</b>	<b>196179</b>
<b>WF BEAMS 12x14</b>	<b>40´</b>	<b>6</b>	<b>20</b>	<b>120</b>	<b>5079</b>	<b>30.474</b>	<b>196180</b>
<b>WF BEAMS 12x16</b>	<b>40´</b>	<b>2</b>	<b>18</b>	<b>36</b>	<b>5225</b>	<b>10.450</b>	<b>196199</b>
<b>WF BEAMS 12x16</b>	<b>40´</b>	<b>3</b>	<b>18</b>	<b>54</b>	<b>5225</b>	<b>15.675</b>	<b>196200</b>
<b>WF BEAMS 12x16</b>	<b>40´</b>	<b>2</b>	<b>18</b>	<b>36</b>	<b>5225</b>	<b>10.450</b>	<b>196201</b>
<b>WF BEAMS 12x16</b>	<b>40´</b>	<b>1</b>	<b>18</b>	<b>18</b>	<b>5225</b>	<b>5.225</b>	<b>196202</b>
<b>WF BEAMS 12x16</b>	<b>40´</b>	<b>1</b>	<b>18</b>	<b>18</b>	<b>5225</b>	<b>5.225</b>	<b>196203</b>
<b>WF BEAMS 12x19</b>	<b>40´</b>	<b>2</b>	<b>14</b>	<b>28</b>	<b>4827</b>	<b>9.654</b>	<b>196170</b>
<b>WF BEAMS 12x19</b>	<b>40´</b>	<b>1</b>	<b>14</b>	<b>14</b>	<b>4827</b>	<b>4.827</b>	<b>196171</b>
<b>WF BEAMS 12x19</b>	<b>40´</b>	<b>5</b>	<b>14</b>	<b>70</b>	<b>4827</b>	<b>24.135</b>	<b>196172</b>
<b>WF BEAMS 12x19</b>	<b>40´</b>	<b>3</b>	<b>14</b>	<b>42</b>	<b>4827</b>	<b>14.481</b>	<b>196176</b>
<b>WF BEAMS 12x19</b>	<b>40´</b>	<b>4</b>	<b>14</b>	<b>56</b>	<b>4827</b>	<b>19.308</b>	<b>196177</b>

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**MILL TEST CERTIFICATE****OLA P-68064**

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 12x19	40´	3	14	42	4827	14.481	196178
WF BEAMS 12x22	40´	4	12	48	4790	19.160	196157
WF BEAMS 12x22	40´	3	12	36	4790	14.370	196158
WF BEAMS 12x22	40´	1	12	12	4790	4.790	196159
WF BEAMS 12x22	40´	2	12	24	4790	9.580	196160
WF BEAMS 12x22	40´	4	12	48	4790	19.160	196162
WF BEAMS 12x22	40´	2	12	24	4790	9.580	196163
WF BEAMS 12x22	40´	1	12	12	4790	4.790	196164
WF BEAMS 12x26	40´	7	10	70	4717	33.019	196072
WF BEAMS 12x26	40´	1	10	10	4717	4.717	196249
WF BEAMS 12x26	40´	1	10	10	4717	4.717	196252
WF BEAMS 12x26	40´	1	10	10	4717	4.717	196256
WF BEAMS 12x26	40´	4	10	40	4717	18.868	196282
WF BEAMS 12x26	40´	1	10	10	4717	4.717	196286
WF BEAMS 12x26	40´	1	10	10	4717	4.717	196287
WF BEAMS 12x26	40´	1	10	10	4717	4.717	196288
WF BEAMS 12x30	40´	4	8	32	4355	17.420	196208
WF BEAMS 12x30	40´	2	8	16	4355	8.710	196209
WF BEAMS 12x30	40´	3	8	24	4355	13.065	196210
WF BEAMS 12x30	40´	6	8	48	4355	26.130	196211
WF BEAMS 12x30	40´	2	8	16	4355	8.710	196214
WF BEAMS 12x35	40´	7	8	56	5081	35.567	196189
WF BEAMS 12x35	40´	2	8	16	5081	10.162	196191
WF BEAMS 12x35	40´	3	8	24	5081	15.243	196194
WF BEAMS 12x35	40´	1	8	8	5081	5.081	196195
WF BEAMS 12x35	40´	1	8	8	5081	5.081	196196
WF BEAMS 12x35	40´	1	8	8	5081	5.081	196204
WF BEAMS 12x35	40´	1	8	8	5081	5.081	196205
WF BEAMS 14x26	40´	2	9	18	4245	8.490	195437
WF BEAMS 14x38	40´	1	6	6	4137	4.137	195485
WF BEAMS 14x38	40´	2	6	12	4137	8.274	195486
WF BEAMS 16x45	40´	1	5	5	4082	4.082	195967

TOTAL BUNDLES **144**TOTAL WEIGHT **689.782 Kg.**

A02 EN 10204/3.1

**CSA G40.21 50W/ASTM A572 G50/A992/A6-16a**(B01/B02/B03) A03  
OLAP68064



## MILL TEST CERTIFICATE

OLA P-68064

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														CEV				
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al						
195437	,076	1,020	,180	,016	,020	,005	,120	,230	,050	,380	,034	,016	,001	,32					
195485	,083	,940	,230	,021	,024	,005	,110	,160	,038	,380	,037	,017	,004	,31					
195486	,084	,880	,200	,023	,023	,004	,100	,200	,036	,380	,033	,018	,003	,30					
195513	,088	1,000	,200	,021	,023	,006	,100	,200	,024	,380	,040	,023	,001	,32					
195514	,089	,960	,210	,022	,023	,005	,110	,220	,031	,370	,037	,023	,004	,32					
195515	,102	1,000	,210	,021	,021	,005	,100	,220	,041	,360	,037	,023	,003	,34					
195518	,077	1,010	,180	,025	,022	,005	,140	,220	,040	,420	,036	,022	,004	,33					
195967	,107	,960	,220	,022	,022	,004	,090	,180	,040	,410	,031	,022	,003	,33					
196072	,096	,880	,210	,021	,022	,005	,120	,300	,071	,400	,034	,027	,004	,33					
196157	,079	,930	,210	,021	,026	,004	,090	,200	,033	,420	,034	,027	,003	,30					
196158	,078	,920	,200	,020	,024	,004	,080	,200	,034	,440	,034	,027	,004	,30					
196159	,076	,940	,200	,020	,022	,005	,090	,200	,035	,440	,035	,025	,004	,30					
196160	,077	,900	,210	,021	,025	,004	,080	,230	,039	,410	,033	,023	,004	,29					
196162	,068	,910	,210	,020	,024	,004	,080	,200	,036	,410	,032	,021	,006	,28					
196163	,070	,890	,190	,020	,022	,004	,070	,200	,031	,380	,030	,024	,003	,28					
196164	,067	,950	,190	,019	,021	,005	,080	,190	,034	,410	,037	,023	,003	,29					
196170	,084	,970	,220	,015	,023	,005	,090	,200	,041	,400	,036	,020	,003	,31					
196171	,085	,950	,230	,016	,026	,005	,100	,250	,055	,430	,034	,023	,003	,32					
196172	,078	,890	,240	,015	,023	,005	,110	,210	,047	,400	,036	,023	,003	,30					
196176	,080	,930	,230	,014	,024	,004	,090	,200	,051	,420	,033	,026	,003	,31					
196177	,077	1,020	,190	,016	,024	,004	,100	,240	,059	,390	,031	,025	,001	,32					
196178	,085	1,020	,190	,017	,023	,005	,110	,220	,046	,390	,035	,026	,001	,33					
196179	,077	1,040	,200	,022	,021	,004	,110	,200	,048	,390	,033	,025	,002	,32					
196180	,086	1,130	,210	,023	,027	,006	,140	,220	,039	,410	,038	,026	,003	,35					
196188	,086	,900	,190	,019	,019	,003	,070	,220	,036	,460	,030	,024	,004	,30					
196189	,096	,910	,180	,017	,019	,003	,090	,230	,039	,450	,031	,024	,005	,32					
196191	,097	,930	,180	,020	,019	,006	,120	,190	,042	,390	,036	,027	,001	,32					
196194	,102	,910	,220	,022	,020	,005	,100	,210	,043	,420	,034	,024	,003	,33					
196195	,068	,900	,200	,021	,022	,004	,090	,250	,048	,430	,033	,023	,004	,29					
196196	,074	,920	,200	,019	,023	,003	,080	,210	,040	,400	,031	,021	,002	,29					
196199	,077	,910	,210	,021	,023	,004	,130	,190	,039	,400	,032	,026	,003	,30					
196200	,087	,960	,210	,020	,020	,005	,140	,190	,035	,410	,035	,025	,003	,32					
196201	,078	,920	,210	,019	,020	,004	,120	,180	,032	,400	,033	,023	,003	,30					
196202	,068	,920	,220	,020	,021	,004	,080	,230	,036	,410	,032	,024	,004	,29					
196203	,078	,920	,200	,022	,024	,005	,100	,220	,037	,390	,033	,026	,003	,30					
196204	,067	,910	,200	,020	,022	,004	,130	,190	,033	,420	,033	,024	,003	,29					
196205	,060	,890	,210	,018	,023	,004	,110	,180	,035	,400	,032	,024	,004	,28					
196208	,081	,890	,200	,020	,020	,004	,140	,200	,040	,390	,030	,022	,003	,31					
196209	,077	,910	,230	,019	,021	,004	,130	,190	,042	,370	,033	,022	,004	,30					
196210	,074	,980	,260	,018	,019	,004	,120	,180	,035	,370	,039	,020	,002	,31					
196211	,086	,970	,250	,020	,020	,006	,120	,180	,035	,420	,040	,020	,001	,32					
196214	,089	,900	,200	,023	,023	,004	,120	,190	,030	,420	,034	,019	,003	,31					
196249	,064	,900	,190	,022	,028	,004	,110	,190	,032	,430	,031	,023	,004	,28					
196252	,081	1,020	,180	,020	,023	,004	,150	,180	,035	,400	,032	,023	,004	,33					
196256	,071	,930	,200	,022	,025	,004	,120	,170	,031	,410	,031	,025	,004	,30					
196269	,080	,980	,230	,023	,022	,006	,170	,180	,044	,400	,035	,025	,004	,33					
196270	,071	1,010	,210	,021	,020	,005	,150	,190	,045	,380	,034	,023	,004	,32					
196271	,073	1,010	,200	,023	,018	,006	,150	,180	,037	,410	,035	,022	,002	,32					



## MILL TEST CERTIFICATE

OLA P-68064

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
<i>B08</i>																			
196282	,080	,920	,160	,018	,020	,006	,100	,200	,035	,350	,036	,021	,001	,30					
196286	,071	,970	,210	,022	,020	,005	,140	,190	,037	,350	,034	,023	,003	,31					
196287	,078	,940	,200	,019	,019	,004	,140	,180	,031	,350	,037	,024	,004	,31					
196288	,075	,950	,210	,020	,022	,004	,130	,190	,042	,380	,035	,022	,004	,31					

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
<i>B11</i>	<i>B08</i>	<i>C11</i>		<i>C12</i>		<i>C13</i>	
W-10x22	196269	424	422	568	551	22,9	22,3
W-10x22	196270	405	402	539	517	23,1	22,6
W-10x22	196271	416	400	538	528	22,9	22,7
W-12x14	196179	427	427	568	552	22,8	22,5
W-12x14	196180	445	437	590	566	22,6	22,5
W-12x16	196199	444	426	545	539	22,7	22,1
W-12x16	196200	443	425	561	537	22,6	22,5
W-12x16	196201	434	420	541	521	22,5	22,4
W-12x16	196202	434	418	530	524	22,6	22,3
W-12x16	196203	431	415	538	534	22,6	22,4
W-12x19	196170	450	425	544	543	22,7	23,2
W-12x19	196171	442	442	547	541	23,5	22,8
W-12x19	196172	429	413	537	517	23,4	22,8
W-12x19	196176	413	409	531	517	23,	22,7
W-12x19	196177	432	430	568	544	23,	22,9
W-12x19	196178	432	430	545	541	23,	22,9
W-12x22	196157	418	404	530	514	22,8	22,6
W-12x22	196158	410	404	533	511	22,8	22,6
W-12x22	196159	428	422	535	535	22,7	22,5
W-12x22	196160	428	422	540	516	22,4	21,9
W-12x22	196162	425	417	519	509	23,5	22,8
W-12x22	196163	421	411	523	513	23,3	22,9
W-12x22	196164	424	421	524	512	23,1	23,1
W-12x26	196072	424	418	554	534	24,9	24,4
W-12x26	196249	428	428	538	520	24,5	24,2
W-12x26	196252	440	422	530	530	24,4	23,6
W-12x26	196256	422	422	556	536	25,2	25,
W-12x26	196282	444	432	551	537	24,4	23,6
W-12x26	196286	439	425	542	530	25,9	25,4
W-12x26	196287	427	423	533	518	25,	24,3
W-12x26	196288	413	418	543	541	23,2	22,9
W-12x30	196208	425	425	547	527	24,8	24,2
W-12x30	196209	442	434	564	548	24,3	24,1
W-12x30	196210	436	428	556	536	24,1	23,8
W-12x30	196211	420	406	535	519	26,2	25,2
W-12x30	196214	428	424	552	536	25,	24,8
W-12x35	196189	406	402	543	523	24,4	24,3
W-12x35	196191	401	399	538	522	24,7	24,7
W-12x35	196194	409	399	544	522	24,7	24,
W-12x35	196195	404	390	513	505	24,8	24,2

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-12x35	196196	404	392	520	511	25,6	24,8
W-12x35	196204	404	388	502	492	25,2	25,1
W-12x35	196205	400	394	521	503	25,4	25,
W-14x26	195437	435	430	526	508	24,5	23,7
W-14x38	195485	397	391	494	482	24,8	24,8
W-14x38	195486	398	388	487	512	25,2	24,5
W-16x45	195967	399	391	509	507	24,7	24,3
W-8x24	195513	402	400	519	503	25,5	24,5
W-8x24	195514	404	390	520	504	24,6	23,8
W-8x24	195515	416	404	549	533	24,3	23,7
W-8x24	195518	415	409	543	529	24,8	23,9
W-8x35	196188	438	430	542	530	25,5	24,8

**52 análisis**

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

B06: Marca AMO

Responsable del Departamento de Calidad Z01

Jose Maria Galindo