



## 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-67416

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>BILBAO, SPAIN</b>
		PORT OF DISCHARGE	VESSEL
		<b>VERACRUZ</b>	<b>UBC SANTA MARTA</b>
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
<b>P1704510</b>	<b>E-71307/1700029169</b>	<b>29255</b>	<b>05/02/2020</b>

Materi al : "WF-PERFI LES 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 6x15</b>	<b>40´</b>	<b>1</b>	<b>12</b>	<b>12</b>	<b>3266</b>	<b>3.266</b>	<b>194733</b>
<b>WF BEAMS 8x18</b>	<b>40´</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>653</b>	<b>653</b>	<b>194030</b>
<b>WF BEAMS 8x18</b>	<b>40´</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>1633</b>	<b>1.633</b>	<b>193216</b>
<b>WF BEAMS 10x22</b>	<b>40´</b>	<b>1</b>	<b>7</b>	<b>7</b>	<b>2794</b>	<b>2.794</b>	<b>194070</b>
<b>WF BEAMS 12x14</b>	<b>40´</b>	<b>2</b>	<b>20</b>	<b>40</b>	<b>5079</b>	<b>10.158</b>	<b>194919</b>
<b>WF BEAMS 12x14</b>	<b>40´</b>	<b>9</b>	<b>20</b>	<b>180</b>	<b>5079</b>	<b>45.711</b>	<b>194920</b>
<b>WF BEAMS 12x14</b>	<b>40´</b>	<b>3</b>	<b>20</b>	<b>60</b>	<b>5079</b>	<b>15.237</b>	<b>194921</b>
<b>WF BEAMS 12x14</b>	<b>40´</b>	<b>1</b>	<b>20</b>	<b>20</b>	<b>5079</b>	<b>5.079</b>	<b>194922</b>
<b>WF BEAMS 12x14</b>	<b>40´</b>	<b>1</b>	<b>19</b>	<b>19</b>	<b>4825</b>	<b>4.825</b>	<b>194041</b>
<b>WF BEAMS 12x16</b>	<b>40´</b>	<b>5</b>	<b>18</b>	<b>90</b>	<b>5225</b>	<b>26.125</b>	<b>194927</b>
<b>WF BEAMS 12x16</b>	<b>40´</b>	<b>6</b>	<b>18</b>	<b>108</b>	<b>5225</b>	<b>31.350</b>	<b>194928</b>
<b>WF BEAMS 12x19</b>	<b>40´</b>	<b>9</b>	<b>14</b>	<b>126</b>	<b>4827</b>	<b>43.443</b>	<b>194916</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>194917</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>194918</b>
<b>WF BEAMS 12x26</b>	<b>40´</b>	<b>9</b>	<b>10</b>	<b>90</b>	<b>4717</b>	<b>42.453</b>	<b>194826</b>
<b>WF BEAMS 12x26</b>	<b>40´</b>	<b>11</b>	<b>10</b>	<b>110</b>	<b>4717</b>	<b>51.887</b>	<b>194827</b>
<b>WF BEAMS 12x26</b>	<b>40´</b>	<b>5</b>	<b>10</b>	<b>50</b>	<b>4717</b>	<b>23.585</b>	<b>194828</b>
<b>WF BEAMS 12x26</b>	<b>40´</b>	<b>9</b>	<b>10</b>	<b>90</b>	<b>4717</b>	<b>42.453</b>	<b>194829</b>
<b>WF BEAMS 12x26</b>	<b>40´</b>	<b>5</b>	<b>10</b>	<b>50</b>	<b>4717</b>	<b>23.585</b>	<b>194831</b>



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## MILL TEST CERTIFICATE

## OLA P-67416

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 12x30	40´	1	8	8	4355	4.355	194811
WF BEAMS 12x30	40´	3	8	24	4355	13.065	194812
WF BEAMS 12x30	40´	7	8	56	4355	30.485	194813
WF BEAMS 12x30	40´	7	8	56	4355	30.485	194814
WF BEAMS 12x30	40´	6	8	48	4355	26.130	194815
WF BEAMS 12x30	40´	11	8	88	4355	47.905	194816
WF BEAMS 12x35	40´	7	8	56	5081	35.567	194807
WF BEAMS 12x35	40´	12	8	96	5081	60.972	194808
WF BEAMS 21x68	40´	1	4	4	4935	4.935	191891

TOTAL BUNDLES

139

TOTAL WEIGHT

652.271 Kg.

A02 EN 10204/3.1

CSA G40.21 50W/ASTM A572 G50/A992/A6-16a

(B01/B02/B03) A03  
OLAP67416

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														CEV				
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al						
B08																			
191891	,119	1,070	,170	,033	,016	,017	,230	,150	,032	,440	,039	,028	,003	,39					
193216	,076	,990	,230	,020	,023	,005	,120	,160	,035	,380	,035	,023	,004	,31					
194030	,069	,980	,210	,024	,021	,004	,140	,210	,032	,410	,032	,028	,002	,31					
194041	,069	1,110	,240	,018	,022	,007	,170	,150	,041	,360	,043	,019	,002	,33					
194070	,064	,980	,180	,024	,028	,006	,170	,210	,036	,440	,034	,028	,001	,31					
194733	,092	,980	,190	,014	,020	,005	,070	,130	,031	,340	,035	,023	,001	,31					
194807	,083	1,000	,200	,018	,022	,006	,120	,150	,030	,330	,034	,030	,002	,31					
194808	,074	1,000	,230	,017	,023	,005	,190	,160	,033	,330	,033	,028	,003	,32					
194811	,078	,990	,210	,019	,019	,006	,160	,180	,034	,330	,034	,024	,003	,32					
194812	,076	,970	,210	,021	,020	,005	,140	,170	,029	,340	,034	,026	,003	,31					
194813	,078	,980	,210	,021	,018	,005	,130	,170	,030	,390	,038	,029	,002	,31					
194814	,082	,990	,210	,021	,018	,005	,130	,170	,030	,390	,038	,029	,003	,32					
194815	,103	,910	,190	,023	,019	,006	,140	,170	,033	,390	,035	,027	,003	,33					
194816	,101	,940	,220	,021	,019	,005	,150	,150	,030	,360	,033	,026	,004	,33					
194826	,074	,930	,200	,018	,022	,005	,110	,170	,030	,360	,032	,025	,004	,29					
194827	,079	,950	,180	,017	,021	,005	,110	,150	,026	,340	,033	,024	,002	,30					
194828	,079	,960	,180	,020	,021	,005	,120	,150	,025	,340	,035	,025	,002	,30					
194829	,079	,960	,170	,018	,022	,006	,160	,160	,029	,310	,036	,025	,002	,31					
194831	,063	,960	,170	,019	,024	,006	,190	,200	,032	,380	,036	,023	,002	,31					
194916	,056	1,000	,190	,015	,023	,005	,090	,140	,034	,320	,032	,023	,003	,28					
194917	,075	1,010	,200	,016	,023	,005	,110	,160	,040	,320	,032	,032	,002	,31					
194918	,088	,890	,180	,017	,020	,005	,110	,170	,038	,340	,032	,028	,003	,30					
194919	,088	,980	,190	,018	,018	,005	,080	,160	,042	,400	,030	,029	,003	,31					
194920	,079	,940	,180	,017	,023	,005	,080	,150	,031	,300	,031	,030	,002	,29					
194921	,082	,970	,180	,015	,022	,006	,060	,140	,027	,290	,035	,056	,001	,29					
194922	,074	,920	,210	,015	,022	,005	,080	,130	,035	,280	,032	,041	,002	,28					
194927	,076	1,000	,210	,016	,023	,006	,160	,170	,045	,330	,034	,039	,003	,32					
194928	,071	,990	,200	,017	,024	,006	,140	,180	,039	,290	,033	,038	,003	,30					



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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B06	C11		C12		C13	
W-10x22	194070	430	420	549	537	23,3	22,8
W-12x14	194041	430	412	561	540	23,1	22,3
W-12x14	194919	450	444	548	536	22,2	22,
W-12x14	194920	448	447	563	549	22,6	22,
W-12x14	194921	450	449	551	531	22,2	22,1
W-12x14	194922	449	449	552	534	22,2	22,
W-12x16	194927	452	443	567	563	22,4	21,8
W-12x16	194928	443	435	543	529	22,4	21,9
W-12x19	194916	441	457	549	543	23,1	22,9
W-12x19	194917	450	447	576	550	22,2	22,1
W-12x19	194918	443	429	559	537	22,4	22,
W-12x26	194826	407	393	509	493	22,7	22,6
W-12x26	194827	397	392	502	498	25,	24,1
W-12x26	194828	393	388	499	495	22,7	22,5
W-12x26	194829	403	389	497	489	23,	22,4
W-12x26	194831	411	407	512	499	22,7	22,6
W-12x30	194811	400	400	507	501	23,2	22,9
W-12x30	194812	397	385	505	505	22,9	22,5
W-12x30	194813	423	417	532	524	23,	22,5
W-12x30	194814	429	411	538	514	23,	22,8
W-12x30	194815	417	401	534	528	22,8	22,6
W-12x30	194816	399	398	521	503	23,	22,3
W-12x35	194807	390	388	506	494	23,4	22,7
W-12x35	194808	401	391	521	507	23,2	23,
W-21x68	191891	427	423	539	523	27,2	27,
W-6x15	194733	452	422	554	491	22,6	22,1
W-8x18	193216	427	421	539	537	22,5	22,1
W-8x18	194030	418	414	537	517	25,3	24,4

#### 28 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