

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-67962**

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>JOO HYE</b>
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
<b>P1704510</b>	<b>E-72104/1700029477</b>	<b>29523</b>	<b>28/03/2020</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>							
WF BEAMS 12x50	40´	5	5	25	4536	22.680	195561
WF BEAMS 12x50	40´	1	5	5	4536	4.536	195562
WF BEAMS 12x50	40´	2	5	10	4536	9.072	195564
WF BEAMS 12x50	40´	2	5	10	4536	9.072	195565
WF BEAMS 14x22	40´	6	9	54	3592	21.552	195473
WF BEAMS 14x22	40´	7	9	63	3592	25.144	195474
WF BEAMS 14x22	40´	2	9	18	3592	7.184	195475
WF BEAMS 14x22	40´	1	9	9	3592	3.592	195483
WF BEAMS 14x30	40´	5	6	30	3266	16.330	195475
WF BEAMS 14x30	40´	3	6	18	3266	9.798	195476
WF BEAMS 14x30	40´	6	6	36	3266	19.596	195477
WF BEAMS 16x26	40´	2	7	14	3302	6.604	194654
WF BEAMS 16x26	40´	1	7	7	3302	3.302	194655
WF BEAMS 16x26	40´	13	7	91	3302	42.926	195882
WF BEAMS 16x26	40´	1	7	7	3302	3.302	195884
WF BEAMS 24x62	40´	5	4	20	4500	22.500	195837
WF BEAMS 24x62	40´	10	4	40	4500	45.000	195838

TOTAL BUNDLES

**72**

TOTAL WEIGHT

**272.190 Kg.**

A02 EN 10204/3.1

**CSA G40.21 50W/ASTM A572 G50/A992/A6-16a**(B01/B02/B03) A03  
OLAP67962



## MILL TEST CERTIFICATE

OLA P-67962

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
<i>B06</i>																			
194654	,061	,950	,200	,016	,024	,004	,080	,150	,039	,370	,032	,024	,002	,28					
194655	,062	,930	,190	,016	,021	,004	,100	,150	,036	,370	,030	,024	,002	,28					
195473	,082	,950	,190	,021	,020	,004	,150	,190	,034	,350	,033	,020	,005	,31					
195474	,099	,970	,220	,018	,020	,004	,170	,160	,042	,330	,033	,019	,004	,34					
195475	,081	,960	,190	,017	,022	,005	,160	,170	,042	,340	,033	,018	,003	,32					
195476	,071	1,050	,170	,020	,020	,005	,160	,180	,051	,390	,038	,017	,002	,33					
195477	,078	1,000	,200	,019	,024	,005	,160	,200	,052	,330	,040	,017	,003	,32					
195483	,082	,970	,210	,020	,024	,004	,110	,190	,047	,340	,036	,018	,004	,31					
195561	,079	1,030	,200	,024	,024	,006	,130	,190	,041	,380	,035	,026	,004	,32					
195562	,068	1,020	,200	,020	,023	,005	,110	,180	,038	,380	,034	,023	,004	,31					
195564	,085	,970	,210	,023	,021	,004	,130	,200	,039	,370	,035	,023	,003	,32					
195565	,090	1,180	,200	,021	,019	,006	,140	,180	,037	,400	,039	,023	,002	,36					
195837	,071	,970	,180	,021	,021	,004	,120	,190	,031	,450	,031	,025	,004	,31					
195838	,068	,880	,170	,019	,019	,004	,130	,230	,037	,440	,031	,025	,003	,29					
195882	,107	,920	,170	,022	,021	,003	,120	,190	,045	,420	,030	,023	,003	,33					
195884	,073	,950	,210	,027	,022	,004	,110	,190	,041	,430	,032	,026	,004	,30					

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
<i>B11</i>	<i>B08</i>	<i>C11</i>		<i>C12</i>		<i>C13</i>	
W-12x50	195561	384	382	496	492	30,2	29,1
W-12x50	195562	397	387	506	502	30,1	29,8
W-12x50	195564	396	390	512	494	27,5	26,7
W-12x50	195565	409	395	528	526	28,	27,
W-14x22	195473	403	453	573	523	25,9	25,
W-14x22	195474	447	443	558	548	24,7	24,4
W-14x22	195475	446	444	575	549	25,1	24,6
W-14x22	195483	444	435	547	529	24,6	24,4
W-14x30	195475	409	407	530	513	23,9	23,4
W-14x30	195476	448	450	552	536	23,	22,1
W-14x30	195477	421	409	552	537	24,2	23,5
W-16x26	194654	432	422	516	505	23,	22,4
W-16x26	194655	444	439	527	506	24,	23,3
W-16x26	195882	445	443	581	571	26,1	25,7
W-16x26	195884	449	450	574	580	25,3	26,1
W-24x62	195837	415	399	497	495	24,4	24,
W-24x62	195838	419	415	536	522	24,2	24,

## 16 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

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-67963**

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
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		PORT OF DISCHARGE	VESSEL
		<b>VERACRUZ</b>	<b>JOO HYE</b>
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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 8x18</b>	<b>40´</b>	<b>4</b>	<b>16</b>	<b>64</b>	<b>5226</b>	<b>20.904</b>	<b>195497</b>
<b>WF BEAMS 8x18</b>	<b>40´</b>	<b>3</b>	<b>16</b>	<b>48</b>	<b>5226</b>	<b>15.678</b>	<b>195498</b>
<b>WF BEAMS 8x21</b>	<b>40´</b>	<b>1</b>	<b>12</b>	<b>12</b>	<b>4572</b>	<b>4.572</b>	<b>194688</b>
<b>WF BEAMS 8x21</b>	<b>40´</b>	<b>6</b>	<b>12</b>	<b>72</b>	<b>4572</b>	<b>27.432</b>	<b>195493</b>
<b>WF BEAMS 14x26</b>	<b>40´</b>	<b>2</b>	<b>9</b>	<b>18</b>	<b>4245</b>	<b>8.490</b>	<b>195476</b>
<b>WF BEAMS 14x26</b>	<b>40´</b>	<b>1</b>	<b>9</b>	<b>9</b>	<b>4245</b>	<b>4.245</b>	<b>195477</b>
<b>WF BEAMS 14x26</b>	<b>40´</b>	<b>1</b>	<b>9</b>	<b>9</b>	<b>4245</b>	<b>4.245</b>	<b>195478</b>
<b>WF BEAMS 16x31</b>	<b>40´</b>	<b>1</b>	<b>7</b>	<b>7</b>	<b>3937</b>	<b>3.937</b>	<b>195857</b>
<b>WF BEAMS 16x31</b>	<b>40´</b>	<b>1</b>	<b>7</b>	<b>7</b>	<b>3937</b>	<b>3.937</b>	<b>195859</b>
<b>WF BEAMS 16x31</b>	<b>40´</b>	<b>4</b>	<b>7</b>	<b>28</b>	<b>3937</b>	<b>15.748</b>	<b>195860</b>
<b>WF BEAMS 24x84</b>	<b>40´</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>4572</b>	<b>9.144</b>	<b>195853</b>
<b>WF BEAMS 24x84</b>	<b>40´</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>4572</b>	<b>4.572</b>	<b>195854</b>
<b>WF BEAMS 24x84</b>	<b>40´</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>4572</b>	<b>9.144</b>	<b>195856</b>

TOTAL BUNDLES

**29**

TOTAL WEIGHT

**132.048 Kg.**

A02 EN 10204/3.1

**CSA G40.21 50W/ASTM A572 G50/A992/A6-16a**(B01/B02/B03) A03  
OLAP67963



## MILL TEST CERTIFICATE

OLA P-67963

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
<i>B06</i>																			
194688	,073	1,000	,200	,019	,023	,005	,120	,170	,029	,370	,035	,027	,002	,31					
195476	,071	1,050	,170	,020	,020	,005	,160	,180	,051	,390	,038	,017	,002	,33					
195477	,078	1,000	,200	,019	,024	,005	,160	,200	,052	,330	,040	,017	,003	,32					
195478	,066	,950	,210	,018	,020	,004	,120	,180	,048	,340	,036	,016	,003	,29					
195493	,076	,980	,200	,022	,022	,004	,120	,180	,047	,380	,035	,021	,004	,31					
195497	,112	,940	,210	,029	,020	,005	,130	,240	,048	,490	,035	,022	,004	,35					
195498	,087	,950	,200	,019	,022	,005	,110	,200	,033	,350	,034	,019	,005	,31					
195853	,073	1,040	,200	,021	,021	,005	,160	,150	,026	,340	,035	,025	,002	,32					
195854	,079	,900	,240	,020	,023	,003	,110	,170	,052	,420	,030	,021	,004	,30					
195856	,080	,950	,180	,018	,025	,005	,090	,160	,042	,390	,038	,020	,002	,30					
195857	,074	,920	,180	,020	,024	,004	,080	,170	,045	,390	,032	,023	,004	,29					
195859	,153	,930	,190	,023	,017	,004	,110	,170	,046	,410	,036	,023	,003	,38					
195860	,099	,940	,220	,024	,030	,004	,100	,190	,047	,380	,034	,026	,004	,32					

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
<i>B11</i>	<i>B06</i>	<i>C11</i>		<i>C12</i>		<i>C13</i>	
W-14x26	195476	446	429	541	539	24,8	24,2
W-14x26	195477	431	431	535	519	24,7	23,9
W-14x26	195478	434	416	532	513	25,2	25,2
W-16x31	195857	450	448	628	612	22,7	22,2
W-16x31	195859	448	450	609	609	22,3	22,1
W-16x31	195860	444	444	537	523	22,6	22,1
W-24x84	195853	387	373	493	479	25,8	25,1
W-24x84	195854	389	399	497	511	24,9	25,2
W-24x84	195856	399	389	511	497	25,2	24,9
W-8x18	195497	409	403	550	528	22,6	22,1
W-8x18	195498	428	424	538	532	22,6	22,3
W-8x21	194688	432	418	543	532	25,7	25,4
W-8x21	195493	435	417	538	526	22,6	21,9

## 13 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