Mittal Europe – Long Products
ETERA MADRID - IRUN, KM. 417
212 OLABERRIA (Gipuzkoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04

ArcelorMittal

MILL TEST CERTIFICATE

OLA P-82954

DISCHARGE ADDRESS	CUSTOMER
LAMINADOS DEL CARIBE S.A.S **CARRETERA A SABANAGRANDE KM 2-1** **SABANAGRANDE - ATLANTICO** **COLOMBIA**	**LAMINADOS DEL CARIBE S.A.S** CARRETERA A SABANAGRANDE KM 2-1 SABANAGRANDE - ATLANTICO COLOMBIA

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		**BILBAO, SPAIN**
	PORT OF DISCHARGE	VESSEL
	BARRANQUILLA	**CONDOR BILBAO**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	**E-86841/1700034741**	**EMAIL DATED 17/10/2023**	**17/11/2023**

The exporter of the products covered by this document (customs authorization no. ES/20/0040/03), declares that, except where otherwise clearly indicated, these products are of Spain - European Community preferential origin".

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+//WHITE							
HEA 180	**6**	**1**	**18**	**18**	**3834**	**3.834**	**224712**
HEA 180	**6**	**1**	**18**	**18**	**3834**	**3.834**	**224713**
HEA 180	**6**	**1**	**18**	**18**	**3834**	**3.834**	**224714**
HEA 220	**6**	**1**	**8**	**8**	**2424**	**2.424**	**224722**
HEA 220	**6**	**4**	**8**	**32**	**2424**	**9.696**	**224723**
HEA 240	**6**	**3**	**8**	**24**	**2894**	**8.682**	**224650**
HEA 280	**12**	**2**	**4**	**8**	**3667**	**7.334**	**225003**
HEA 280	**12**	**1**	**4**	**4**	**3667**	**3.667**	**225005**
HEA 280	**12**	**1**	**4**	**4**	**3667**	**3.667**	**225012**
HEA 280	**12**	**1**	**4**	**4**	**3667**	**3.667**	**225014**
IPE 240	**12**	**1**	**14**	**14**	**5158**	**5.158**	**225039**
IPE 240	**12**	**3**	**14**	**42**	**5158**	**15.474**	**225040**
IPE 240	**6**	**2**	**16**	**32**	**2947**	**5.894**	**225040**
IPE 240	**6**	**2**	**16**	**32**	**2947**	**5.894**	**225097**
IPE 240	**6**	**3**	**16**	**48**	**2947**	**8.841**	**225098**
IPE 450	**12**	**6**	**5**	**30**	**4656**	**27.936**	**224797**

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MILL TEST CERTIFICATE

OLA P-82954

TOTAL BUNDLES **33** TOTAL WEIGHT **119.836 Kg.**

A02 **ASTM A572 G50/ A6-16a** (B01/B02/B03) A03 OLAP82954

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Mo	Nb	Sn	Al	CEV						
B08																		
224650	,061	1,020	,190	,009	,023	,002	,090	,025	,029	,024	,003	,29						
224712	,074	,930	,190	,021	,019	,003	,150	,030	,033	,024	,003	,31						
224713	,086	,940	,190	,023	,011	,003	,160	,032	,026	,024	,003	,32						
224714	,091	,930	,210	,025	,011	,003	,170	,038	,026	,030	,003	,33						
224722	,091	,980	,220	,018	,020	,002	,160	,043	,028	,025	,003	,34						
224723	,089	,990	,190	,020	,026	,002	,120	,032	,030	,026	,002	,32						
224797	,072	,900	,200	,016	,023	,002	,090	,043	,026	,029	,001	,29						
225003	,080	,920	,190	,027	,015	,003	,130	,025	,026	,023	,002	,31						
225005	,075	,900	,180	,019	,014	,003	,120	,020	,026	,023	,002	,29						
225012	,076	,880	,180	,020	,016	,003	,130	,036	,023	,021	,001	,30						
225014	,086	,920	,220	,024	,015	,003	,130	,035	,030	,025	,003	,32						
225039	,075	,920	,180	,030	,021	,004	,150	,039	,027	,021	,001	,31						
225040	,072	,950	,190	,029	,018	,004	,130	,037	,029	,021	,003	,31						
225097	,105	,970	,170	,014	,017	,005	,200	,066	,029	,024	,001	,36						
225098	,095	,960	,180	,016	,015	,005	,140	,039	,032	,027	,001	,33						

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
HEA-180	224712	387	379	498	478	30,3	29,6
HEA-180	224713	400	388	489	473	31,9	31,7
HEA-180	224714	393	393	490	486	34,9	34,7
HEA-220	224722	395	385	497	494	31,5	30,6
HEA-220	224723	388	386	495	482	30,8	29,7
HEA-240	224650	389	379	480	475	33,2	32,5
HEA-280	225003	383	377	482	480	31,3	31,
HEA-280	225005	384	368	488	472	31,6	31,1
HEA-280	225012	401	399	508	492	31,1	30,7
HEA-280	225014	409	403	510	500	31,3	30,7
IPE-240	225039	395	393	504	496	31,6	30,8
IPE-240	225040	383	375	496	494	29,4	28,5
IPE-240	225097	389	377	531	513	26,8	26,3
IPE-240	225098	375	368	500	492	30,3	29,5
IPE-450	224797	389	381	492	484	33,8	32,8

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12 OLABERRIA (Gipuzkoa)
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ArcelorMittal

MILL TEST CERTIFICATE

OLA P-79190

DISCHARGE ADDRESS	CUSTOMER
LAMINADOS DEL CARIBE S.A.S **CARRETERA A SABANAGRANDE KM 2-1** **SABANAGRANDE - ATLANTICO** **COLOMBIA**	**LAMINADOS DEL CARIBE S.A.S** CARRETERA A SABANAGRANDE KM 2-1 SABANAGRANDE - ATLANTICO COLOMBIA

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		**BILBAO, SPAIN**
	PORT OF DISCHARGE	VESSEL
	BARRANQUILLA	**CONDOR PATAGONIA**

OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	**E-82778/1700033247**	**EMAIL DATED 05.12.2022**	**19/01/2023**

"The exporter of the products covered by this document ARCELORMITTAL OLABERRIA-BERGARA, S.L. (customs authorization no. ES/20/0040/03), declares that, except where otherwise clearly indicated, these products are of Spain - European Community preferential origin".

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+/RED							
HEA 200	**6**	**3**	**15**	**45**	**3807**	**11.421**	**218291**
HEA 300	**12**	**1**	**4**	**4**	**4238**	**4.238**	**216917**
IPE 240	**12**	**2**	**14**	**28**	**5158**	**10.316**	**218144**
IPE 240	**12**	**1**	**14**	**14**	**5158**	**5.158**	**218187**
IPE 240	**12**	**3**	**14**	**42**	**5158**	**15.474**	**218189**
IPE 300	**12**	**4**	**10**	**40**	**5064**	**20.256**	**218188**
IPE 330	**6**	**3**	**12**	**36**	**3535**	**10.605**	**218137**
IPE 330	**12**	**1**	**8**	**8**	**4714**	**4.714**	**218138**
IPE 330	**12**	**3**	**8**	**24**	**4714**	**14.142**	**218139**
IPE 400	**6**	**3**	**5**	**15**	**1989**	**5.967**	**218339**
IPE 400	**6**	**2**	**5**	**10**	**1989**	**3.978**	**218340**
IPE 550	**12**	**2**	**4**	**8**	**5088**	**10.176**	**217967**

TOTAL BUNDLES **28** TOTAL WEIGHT **116.445 Kg.**

A02

ASTM A572 G50/ A6-16a

OLAP79190 (B01/B02/B03) A03

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MILL TEST CERTIFICATE

OLA P-79190

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Mo	Nb	Sn	Al	CEV						
B08																		
216917	,071	,910	,190	,031	,022	,004	,160	,039	,028	,027	,002	,30						
217967	,112	1,030	,220	,028	,021	,007	,140	,035	,033	,022	,001	,36						
218137	,061	,920	,180	,020	,022	,004	,140	,034	,025	,022	,001	,29						
218138	,056	,900	,190	,019	,022	,005	,180	,041	,029	,022	,003	,29						
218139	,065	,930	,200	,027	,026	,004	,160	,031	,027	,022	,003	,30						
218144	,083	1,010	,200	,021	,020	,004	,210	,030	,025	,021	,002	,34						
218187	,068	,980	,180	,027	,024	,003	,170	,032	,028	,026	,002	,31						
218188	,059	1,010	,210	,027	,027	,004	,150	,032	,029	,026	,003	,30						
218189	,065	1,000	,220	,021	,025	,003	,120	,023	,027	,027	,003	,30						
218291	,071	,930	,190	,025	,026	,003	,110	,033	,025	,027	,001	,30						
218339	,076	,870	,220	,026	,020	,003	,130	,027	,026	,023	,003	,29						
218340	,088	,920	,210	,027	,021	,003	,140	,030	,025	,025	,002	,32						

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
HEA-200	218291	413	411	526	510	28,4	27,6
HEA-300	216917	388	402	486	498	36,	36,6
IPE-240	218144	384	378	490	484	31,9	31,5
IPE-240	218187	397	385	492	482	31,4	30,9
IPE-240	218189	395	395	513	491	28,9	28,8
IPE-300	218188	391	383	494	492	33,5	32,4
IPE-330	218137	385	377	490	490	33,4	33,
IPE-330	218138	384	380	503	481	33,6	33,1
IPE-330	218139	385	397	490	491	33,2	33,5
IPE-400	218339	426	414	518	516	32,4	31,5
IPE-400	218340	398	396	500	485	37,2	37,2
IPE-550	217967	405	403	510	508	35,7	35,6

12 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