

ArcelorMittal Olaberria-Bergara  
**ArcelorMittal Europe – Long Products**  
 CARRETERA MADRID - IRUN, KM. 419  
 20212 OLABERRIA (Gipuzkoa)  
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04

**MILL TEST CERTIFICATE****OLA P-62660**

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. S. Francisco Chilpan, Tul MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Gipuzkoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	STINNES ZEPHIR
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-67066/1700027809	27923	28/02/2019

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. 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 24x55	40'	5	5	25	4990	24.950	187379
WF BEAMS 24x55	40'	1	5	5	4990	4.990	187383
WF BEAMS 24x55	40'	7	5	35	4990	34.930	187384
WF BEAMS 24x55	40'	5	5	25	4990	24.950	187385
WF BEAMS 24x55	40'	4	5	20	4990	19.960	187387
WF BEAMS 24x55	40'	6	5	30	4990	29.940	187388
WF BEAMS 24x55	40'	8	5	40	4990	39.920	187389
WF BEAMS 24x55	40'	4	5	20	4990	19.960	187390
WF BEAMS 24x62	40'	1	4	4	4500	4.500	187405
WF BEAMS 24x62	40'	9	4	36	4500	40.500	187406
WF BEAMS 24x62	40'	8	4	32	4500	36.000	187407
WF BEAMS 24x62	40'	5	4	20	4500	22.500	187408
WF BEAMS 24x62	40'	1	4	4	4500	4.500	187434
WF BEAMS 24x62	40'	3	4	12	4500	13.500	187494
WF BEAMS 24x68	40'	2	4	8	4935	9.870	187386
WF BEAMS 24x68	40'	2	4	8	4935	9.870	187388
WF BEAMS 24x68	40'	1	4	4	4935	4.935	187444
WF BEAMS 24x68	40'	3	4	12	4935	14.805	187447

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 24x68	40'	6	4	24	4935	29.610	187448
WF BEAMS 24x68	40'	8	4	32	4935	39.480	187449
WF BEAMS 24x76	40'	2	3	6	4137	8.274	187399
WF BEAMS 24x76	40'	3	3	9	4137	12.411	187400
WF BEAMS 24x76	40'	1	3	3	4137	4.137	187401
WF BEAMS 24x94	40'	2	3	6	5117	10.234	187428
WF BEAMS 24x94	40'	3	3	9	5117	15.351	187430

TOTAL BUNDLES **100**TOTAL WEIGHT **480.077 Kg.**

A02 EN 10204/3.1

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

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
B08																		
187379	,073	,890	,170	,017	,023	,014	,160	,220	,057	,360	,012	,027	,001	,31				
187383	,077	1,010	,210	,018	,022	,014	,140	,140	,026	,420	,022	,020	,002	,32				
187384	,068	,970	,190	,020	,022	,019	,140	,120	,028	,370	,020	,020	,001	,30				
187385	,070	,970	,180	,025	,023	,015	,130	,120	,025	,390	,023	,020	,001	,30				
187386	,077	,950	,170	,016	,019	,014	,100	,120	,023	,330	,018	,027	,001	,29				
187387	,087	,950	,170	,025	,021	,016	,120	,130	,027	,310	,027	,022	,001	,31				
187388	,079	,960	,170	,022	,021	,015	,120	,140	,028	,350	,023	,028	,001	,30				
187389	,088	,970	,180	,020	,022	,014	,120	,140	,023	,360	,023	,030	,001	,31				
187390	,073	,890	,190	,021	,021	,013	,120	,150	,022	,350	,024	,022	,002	,29				
187399	,061	,890	,190	,021	,023	,012	,150	,140	,022	,320	,017	,027	,003	,28				
187400	,063	,950	,190	,022	,024	,013	,140	,130	,022	,310	,018	,029	,001	,29				
187401	,100	,900	,190	,025	,020	,013	,150	,130	,019	,320	,016	,029	,002	,32				
187405	,066	,900	,170	,024	,020	,014	,150	,180	,029	,400	,020	,024	,001	,29				
187406	,089	,890	,210	,022	,023	,015	,130	,190	,038	,460	,023	,035	,002	,32				
187407	,100	,920	,190	,034	,021	,015	,220	,140	,027	,360	,022	,030	,001	,34				
187408	,101	,900	,180	,027	,019	,015	,200	,140	,025	,330	,016	,025	,002	,33				
187428	,088	,930	,190	,027	,022	,013	,140	,130	,021	,360	,019	,024	,001	,31				
187430	,059	,860	,180	,026	,027	,014	,110	,140	,024	,450	,019	,020	,001	,27				
187444	,082	,930	,210	,023	,024	,014	,140	,160	,022	,370	,021	,028	,002	,31				
187447	,083	,920	,180	,022	,019	,012	,160	,150	,027	,340	,017	,027	,001	,31				
187448	,079	,960	,200	,021	,022	,013	,150	,170	,034	,340	,019	,026	,001	,31				
187449	,071	,930	,180	,022	,020	,012	,180	,170	,036	,390	,016	,020	,002	,31				
187494	,091	,940	,190	,027	,021	,017	,240	,180	,034	,390	,024	,025	,003	,34				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES						A% LO=8"
		ReH MPa		Rm MPa		C13		
B11	B08	C11		C12				
W-24x55	187379	414	404	522	509	23,3	22,9	
W-24x55	187383	412	400	524	514	23,9	23,5	
W-24x55	187384	417	403	522	500	23,6	23,3	
W-24x55	187385	422	406	524	502	23,7	23,6	
W-24x55	187387	412	399	515	509	23,6	23,2	
W-24x55	187388	427	423	532	518	23,6	23,5	



## MILL TEST CERTIFICATE

OLA P-62660

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B06	C11		C12		C13	
W-24x55	187389	420	418	527	521	23,6	23,4
W-24x55	187390	406	402	515	510	23,8	24,2
W-24x62	187405	418	408	542	524	22,9	22,3
W-24x62	187406	413	413	543	531	23,3	22,6
W-24x62	187407	433	421	555	533	23,2	22,8
W-24x62	187408	393	381	498	494	23,3	22,4
W-24x62	187494	411	409	525	514	22,9	22,4
W-24x68	187386	414	398	520	506	24,	24,
W-24x68	187388	406	394	519	502	24,2	23,6
W-24x68	187444	415	401	512	497	24,7	24,1
W-24x68	187447	405	399	516	508	24,5	23,7
W-24x68	187448	388	386	504	490	24,2	23,8
W-24x68	187449	414	405	509	507	24,	23,9
W-24x76	187399	390	381	487	479	24,4	24,4
W-24x76	187400	422	406	512	506	24,1	23,8
W-24x76	187401	393	393	506	496	24,2	23,7
W-24x94	187428	404	388	518	506	24,8	24,3
W-24x94	187430	402	398	524	509	24,8	24,3

### 23 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