

ArcelorMittal Gipuzkoa, S.L.U.  
 Long Carbon Europe  
 CARRETERA MADRID - IRUN, KM. 419  
 20212 OLABERRIA (Guipúzcoa)  
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04



## MILL TEST CERTIFICATE

OLA P-39755

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 (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	Amazoneborg
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704509	01-E-46827 / 1700017917	17670	05/05/2014

Material: WF Vigas, calidad DUAL ASTM A-36/A 572 Gr. 50

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

ACERALIA GIPUZKOA 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
+ / RED							
WF BEAMS 12x50	40'	11	6	66	5443	59.873	150191,150192,150221,150223
WF BEAMS 14x22	40'	16	12	192	4790	76.640	149727,149728,149731,149732
WF BEAMS 14x30	40'	30	8	240	4355	130.650	149725,149726
WF BEAMS 14x38	40'	19	6	114	4137	78.603	149731
WF BEAMS 16x26	40'	21	6	126	2830	59.430	149595,149597,149603,149604,149607,149612,149613,149615
WF BEAMS 16x31	40'	24	6	144	3375	81.000	149554,149555,149556
WF BEAMS 18x50	40'	41	4	164	3629	148.789	150022,150023,150024,150025
WF BEAMS 18x65	40'	8	4	32	4717	37.736	150058
WF BEAMS 21x62	40'	11	4	44	4500	49.500	149593,149594,149596
WF BEAMS 21x93	40'	11	3	33	5062	55.682	148925,150233,150234,150235
WF BEAMS 21x93	40'	1	2	2	3375	3.375	148926
WF BEAMS 24x55	40'	16	5	80	4990	79.840	148379,148810,148811,150151,150162,150163,150164,150186,150187,150188
WF BEAMS 24x68	40'	1	2	2	2468	2.468	148807
WF BEAMS 24x68	40'	21	3	63	3701	77.721	148802,148805,149552,150131,150132

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 24x76	40'	7	3	21	4137	28.959	148765,149555,150678
WF BEAMS 24x84	40'	7	3	21	4572	32.004	149522,149523,150681
WF BEAMS 24x94	40'	6	3	18	5117	30.702	149537,150689

TOTAL BUNDLES

251

TOTAL WEIGHT

1.032.972 Kg.

A02 EN 10204/3.1

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

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														CEV				
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al						
B08																			
148379	,106	1,030	,180	,028	,019	,035	,220	,170	,037	,410	,003	,031	,004	,37					
148765	,099	1,060	,200	,023	,018	,041	,200	,170	,024	,470	,003	,032	,004	,37					
148802	,087	1,060	,180	,024	,020	,047	,160	,160	,024	,380	,003	,024	,001	,35					
148805	,093	1,050	,190	,017	,018	,039	,160	,210	,042	,440	,003	,026	,001	,36					
148807	,071	1,080	,180	,019	,024	,035	,170	,220	,032	,430	,003	,034	,001	,34					
148810	,091	,920	,180	,023	,018	,044	,210	,220	,040	,420	,003	,030	,003	,35					
148811	,078	,930	,170	,023	,022	,041	,130	,220	,042	,450	,003	,022	,001	,32					
148925	,073	1,010	,180	,013	,017	,042	,100	,200	,043	,340	,003	,029	,002	,31					
148926	,083	,950	,180	,012	,015	,041	,110	,180	,042	,390	,003	,025	,002	,32					
149522	,078	,640	,180	,020	,018	,044	,210	,220	,052	,390	,003	,029	,001	,29					
149523	,098	,670	,190	,022	,017	,053	,230	,190	,051	,410	,003	,040	,002	,32					
149537	,087	,650	,200	,030	,019	,049	,190	,160	,039	,340	,003	,037	,004	,28					
149552	,079	,640	,170	,029	,018	,047	,190	,170	,038	,460	,003	,028	,003	,28					
149554	,070	,640	,160	,020	,025	,045	,140	,170	,034	,360	,003	,028	,002	,26					
149555	,089	,640	,170	,020	,020	,047	,130	,160	,031	,340	,003	,022	,003	,27					
149556	,095	,650	,160	,023	,016	,051	,140	,180	,032	,380	,003	,022	,001	,29					
149593	,118	,670	,180	,021	,014	,047	,170	,210	,038	,360	,003	,031	,002	,32					
149594	,085	,830	,160	,026	,017	,057	,250	,200	,050	,310	,003	,021	,003	,33					
149595	,087	,710	,180	,022	,018	,044	,170	,200	,038	,350	,003	,024	,003	,29					
149596	,082	,750	,170	,014	,023	,047	,140	,180	,036	,310	,003	,020	,002	,28					
149597	,101	,660	,180	,016	,019	,044	,160	,230	,045	,410	,003	,034	,003	,30					
149603	,100	,690	,150	,025	,022	,051	,150	,150	,033	,450	,003	,029	,001	,30					
149604	,098	,680	,190	,024	,022	,052	,170	,150	,034	,450	,003	,029	,002	,30					
149607	,093	,650	,170	,021	,024	,063	,160	,140	,027	,430	,003	,029	,001	,29					
149612	,103	,650	,170	,015	,019	,044	,130	,200	,035	,430	,003	,030	,004	,30					
149613	,084	,700	,200	,026	,018	,049	,150	,180	,036	,440	,003	,026	,002	,29					
149615	,093	,680	,160	,018	,023	,046	,140	,180	,033	,410	,003	,026	,002	,29					
149725	,112	,690	,190	,023	,010	,046	,110	,150	,027	,390	,003	,038	,003	,30					
149726	,115	,690	,190	,022	,015	,049	,170	,150	,029	,350	,003	,036	,005	,31					
149727	,111	,640	,160	,028	,011	,046	,170	,120	,044	,290	,003	,031	,003	,30					
149728	,094	,700	,170	,029	,019	,047	,150	,160	,042	,320	,003	,033	,004	,29					
149731	,082	,690	,160	,016	,018	,044	,140	,200	,055	,350	,003	,063	,003	,28					
149732	,097	,700	,170	,021	,019	,045	,130	,180	,039	,360	,003	,039	,004	,29					
150022	,092	,680	,190	,025	,026	,045	,130	,160	,033	,400	,003	,027	,002	,28					
150023	,100	,670	,190	,027	,017	,046	,130	,170	,030	,400	,003	,035	,004	,29					
150024	,086	,680	,190	,024	,025	,046	,120	,170	,035	,430	,003	,033	,004	,28					
150025	,089	,670	,190	,023	,019	,044	,110	,180	,036	,390	,003	,039	,004	,28					
150058	,103	,720	,180	,021	,018	,047	,140	,160	,027	,380	,003	,023	,002	,30					

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
150131	,111	,730	,160	,015	,014	,047	,140	,190	,033	,360	,003	,029	,001	,31				
150132	,110	,740	,220	,017	,021	,047	,120	,200	,032	,350	,003	,026	,005	,31				
150151	,117	,680	,200	,016	,020	,045	,130	,220	,039	,360	,003	,026	,005	,31				
150162	,111	,740	,190	,022	,026	,045	,150	,210	,037	,400	,003	,031	,003	,32				
150163	,092	,720	,180	,020	,025	,048	,120	,190	,032	,380	,003	,026	,002	,29				
150164	,088	,710	,170	,020	,024	,046	,100	,190	,030	,370	,003	,025	,001	,28				
150186	,134	,740	,220	,028	,011	,048	,190	,150	,035	,370	,003	,028	,003	,35				
150187	,100	,720	,200	,020	,020	,048	,130	,230	,039	,390	,003	,026	,004	,30				
150188	,103	,720	,210	,016	,018	,048	,130	,250	,039	,420	,003	,032	,003	,31				
150191	,082	,720	,190	,020	,022	,048	,140	,190	,032	,410	,003	,027	,003	,29				
150192	,112	,740	,190	,017	,010	,046	,130	,180	,035	,340	,003	,028	,003	,31				
150221	,100	,760	,200	,018	,023	,048	,180	,230	,041	,390	,003	,020	,003	,32				
150223	,085	,740	,180	,013	,024	,048	,120	,230	,035	,390	,003	,023	,001	,29				
150233	,089	,700	,180	,014	,019	,044	,130	,200	,033	,390	,003	,025	,003	,29				
150234	,112	,720	,180	,018	,020	,045	,140	,220	,036	,420	,003	,029	,003	,32				
150235	,107	,720	,190	,027	,019	,045	,160	,220	,037	,470	,003	,028	,004	,32				
150678	,103	,720	,210	,015	,018	,044	,150	,190	,044	,320	,003	,028	,004	,30				
150681	,105	,680	,190	,023	,020	,041	,140	,170	,038	,440	,003	,035	,003	,30				
150689	,109	,740	,200	,028	,016	,045	,130	,140	,023	,390	,003	,029	,004	,31				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8°	
<small>B11</small>	<small>B08</small>	<small>C11</small>		<small>C12</small>		<small>C13</small>	
W-12x50	150191	403	403	519	501	22,9	22,4
W-12x50	150192	389	383	517	505	22,3	22,2
W-12x50	150221	393	382	524	514	23,3	22,6
W-12x50	150223	381	377	500	493	22,7	22,2
W-14x22	149727	407	401	521	504	22,7	22,4
W-14x22	149728	404	390	509	499	22,3	22,
W-14x22	149731	423	413	525	515	22,6	21,8
W-14x22	149732	408	398	533	531	23,	22,3
W-14x30	149725	384	380	518	507	22,6	22,2
W-14x30	149726	393	392	520	498	22,6	22,1
W-14x38	149731	395	383	509	496	24,6	24,
W-16x26	149595	420	402	522	506	24,	23,3
W-16x26	149597	434	420	534	523	23,3	22,6
W-16x26	149603	396	394	524	510	23,2	23,
W-16x26	149604	450	438	567	551	22,8	22,7
W-16x26	149607	446	434	527	521	22,2	22,
W-16x26	149612	434	416	550	534	22,3	21,9
W-16x26	149613	439	435	538	536	22,4	22,
W-16x26	149615	432	416	527	523	23,1	22,9
W-16x31	149554	390	386	488	480	27,5	26,8
W-16x31	149555	405	393	523	521	22,7	22,7
W-16x31	149556	420	414	534	522	24,3	23,9
W-18x50	150022	369	359	495	488	22,9	22,5
W-18x50	150023	376	374	507	493	22,7	22,5
W-18x50	150024	377	371	496	477	23,1	23,1

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		ReH MPa		Rm MPa		A% LO=8°	
B11	B08	C11		C12		C13	
W-18x50	150025	381	375	501	487	22,5	21,9
W-18x65	150058	403	392	529	528	22,8	22,1
W-21x62	149593	403	387	527	511	22,8	22,6
W-21x62	149594	372	366	496	492	23,2	22,3
W-21x62	149596	409	396	513	495	22,1	22,1
W-21x93	148925	397	372	516	501	24,8	25,
W-21x93	148926	378	378	509	493	25,5	25,4
W-21x93	150233	378	377	506	498	23,5	22,6
W-21x93	150234	387	373	515	497	22,6	22,5
W-21x93	150235	395	371	498	511	22,8	23,8
W-24x55	148379	394	394	524	518	23,6	23,2
W-24x55	148810	424	418	540	532	22,4	22,3
W-24x55	148811	387	373	517	498	23,9	23,4
W-24x55	150151	404	388	522	508	22,8	22,
W-24x55	150162	402	381	508	533	24,	23,4
W-24x55	150163	417	373	522	509	24,1	23,4
W-24x55	150164	388	372	504	497	22,7	22,2
W-24x55	150186	396	380	515	503	23,5	23,1
W-24x55	150187	398	388	527	505	22,9	22,5
W-24x55	150188	378	372	514	495	24,3	24,
W-24x68	148802	407	420	526	540	22,3	22,4
W-24x68	148805	412	420	537	541	22,6	22,7
W-24x68	148807	403	391	526	502	25,6	25,
W-24x68	149552	394	379	508	497	23,1	22,7
W-24x68	150131	391	375	508	496	22,9	22,1
W-24x68	150132	399	391	521	517	25,3	24,6
W-24x76	148765	403	401	527	515	23,2	22,5
W-24x76	149555	378	370	481	476	22,3	21,8
W-24x76	150678	399	387	509	509	24,3	24,
W-24x84	149522	376	372	499	479	22,5	21,9
W-24x84	149523	399	384	526	528	22,	22,6
W-24x84	150681	391	386	492	494	22,8	22,1
W-24x94	149537	387	373	505	499	24,5	24,5
W-24x94	150689	370	362	501	498	25,5	24,7

## 57 análisis

Z01

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

B06: Marca AMO

  
Lorenzo Zabala