

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-66904

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. 419 20212 OLABERRIA (Gipuzkoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			PASAJES, SPAIN
		PORT OF DISCHARGE	
		VERACRUZ	NUNALIK
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-70304/1700028875	28960	26/12/2019

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, 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 8x48	40'	1	6	6	5225	5.225	194083
WF BEAMS 10x12	40'	2	22	44	4790	9.580	194067
WF BEAMS 10x12	40'	10	22	220	4790	47.900	194068
WF BEAMS 10x12	40'	1	22	22	4790	4.790	194069
WF BEAMS 10x12	40'	1	22	22	4790	4.790	194070
WF BEAMS 10x15	40'	3	18	54	4898	14.694	194077
WF BEAMS 10x15	40'	2	18	36	4898	9.796	194078
WF BEAMS 10x15	40'	2	18	36	4898	9.796	194079
WF BEAMS 10x15	40'	1	18	18	4898	4.898	194081
WF BEAMS 10x17	40'	2	16	32	4935	9.870	194063
WF BEAMS 10x17	40'	1	16	16	4935	4.935	194064
WF BEAMS 10x17	40'	1	16	16	4935	4.935	194066
WF BEAMS 10x19	40'	1	14	14	4827	4.827	194057
WF BEAMS 10x19	40'	2	14	28	4827	9.654	194058
WF BEAMS 10x19	40'	3	14	42	4827	14.481	194059
WF BEAMS 10x19	40'	3	14	42	4827	14.481	194060
WF BEAMS 10x22	40'	1	12	12	4790	4.790	194069
WF BEAMS 10x22	40'	5	12	60	4790	23.950	194070
WF BEAMS 10x22	40'	9	12	108	4790	43.110	194071
WF BEAMS 10x22	40'	3	12	36	4790	14.370	194072

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 10x26	40'	6	10	60	4717	28.302	194062
WF BEAMS 10x26	40'	1	10	10	4717	4.717	194063
WF BEAMS 10x26	40'	3	10	30	4717	14.151	194064
WF BEAMS 10x26	40'	2	10	20	4717	9.434	194065
WF BEAMS 10x30	40'	6	8	48	4370	26.220	194055
WF BEAMS 10x30	40'	4	8	32	4370	17.480	194056
WF BEAMS 10x30	40'	2	8	16	4370	8.740	194057
WF BEAMS 10x39	40'	3	6	18	4246	12.738	193863
WF BEAMS 10x39	40'	4	6	24	4246	16.984	193864
WF BEAMS 10x39	40'	3	6	18	4246	12.738	193865
WF BEAMS 12x14	40'	2	20	40	5079	10.158	194041
WF BEAMS 12x14	40'	5	20	100	5079	25.395	194042
WF BEAMS 12x14	40'	3	20	60	5079	15.237	194043
WF BEAMS 12x14	40'	1	20	20	5079	5.079	194044
WF BEAMS 12x14	40'	2	20	40	5079	10.158	194048
WF BEAMS 12x16	40'	3	18	54	5225	15.675	193847
WF BEAMS 12x16	40'	2	18	36	5225	10.450	194036
WF BEAMS 12x16	40'	2	18	36	5225	10.450	194038
WF BEAMS 12x19	40'	5	14	70	4827	24.135	193995
WF BEAMS 12x19	40'	1	14	14	4827	4.827	193996
WF BEAMS 12x22	40'	1	12	12	4790	4.790	193988
WF BEAMS 12x22	40'	4	12	48	4790	19.160	193989
WF BEAMS 12x22	40'	3	12	36	4790	14.370	193990
WF BEAMS 12x22	40'	1	12	12	4790	4.790	193991
WF BEAMS 12x22	40'	1	12	12	4790	4.790	193992
WF BEAMS 12x26	40'	3	10	30	4717	14.151	194030
WF BEAMS 12x26	40'	5	10	50	4717	23.585	194031
WF BEAMS 12x26	40'	7	10	70	4717	33.019	194032
WF BEAMS 12x26	40'	2	10	20	4717	9.434	194033
WF BEAMS 12x26	40'	11	10	110	4717	51.887	194034
WF BEAMS 12x26	40'	5	10	50	4717	23.585	194035
WF BEAMS 12x30	40'	1	8	8	4355	4.355	194050
WF BEAMS 12x30	40'	8	8	64	4355	34.840	194051
WF BEAMS 12x30	40'	8	8	64	4355	34.840	194052
WF BEAMS 12x30	40'	2	8	16	4355	8.710	194053
WF BEAMS 12x35	40'	5	8	40	5081	25.405	194046
WF BEAMS 14x22	40'	1	9	9	3592	3.592	193959

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 14x43	40´	12	5	60	3901	46.812	193844
WF BEAMS 14x43	40´	10	5	50	3901	39.010	193845
WF BEAMS 14x48	40´	1	5	5	4354	4.354	193836
WF BEAMS 14x48	40´	3	5	15	4354	13.062	193837
WF BEAMS 14x48	40´	6	5	30	4354	26.124	193838
WF BEAMS 14x53	40´	5	5	25	4808	24.040	193833
WF BEAMS 14x53	40´	7	5	35	4808	33.656	193834
WF BEAMS 16x40	40´	1	6	6	4355	4.355	193399
WF BEAMS 16x40	40´	1	6	6	4355	4.355	193400
WF BEAMS 16x40	40´	1	6	6	4355	4.355	193402
WF BEAMS 16x40	40´	1	2	2	1452	1.452	193395
WF BEAMS 16x57	40´	1	5	5	5171	5.171	193380
WF BEAMS 18x46	40´	2	6	12	5008	10.016	193971
WF BEAMS 18x46	40´	1	6	6	5008	5.008	193973
WF BEAMS 18x65	40´	1	4	4	4717	4.717	193282
WF BEAMS 14x61	40´	3	4	12	4427	13.281	193831
WF BEAMS 14x61	40´	3	4	12	4427	13.281	193832
WF BEAMS 14x61	40´	2	4	8	4427	8.854	193833
WF BEAMS 18x86	40´	1	3	3	4681	4.681	193656
WF BEAMS 18x86	40´	2	3	6	4681	9.362	193662
WF BEAMS 18x86	40´	6	3	18	4681	28.086	193679
WF BEAMS 21x44	40´	1	6	6	4790	4.790	193765
WF BEAMS 21x44	40´	1	6	6	4790	4.790	193825
WF BEAMS 21x44	40´	1	6	6	4790	4.790	193829
WF BEAMS 21x44	40´	3	6	18	4790	14.370	193830
WF BEAMS 21x44	40´	3	6	18	4790	14.370	193832
WF BEAMS 21x57	40´	1	5	5	5171	5.171	193810
WF BEAMS 21x57	40´	1	5	5	5171	5.171	193811
WF BEAMS 21x57	40´	2	5	10	5171	10.342	193812
WF BEAMS 21x62	40´	3	4	12	4500	13.500	193718
WF BEAMS 21x62	40´	2	4	8	4500	9.000	193719
WF BEAMS 21x68	40´	1	2	2	2468	2.468	191893
WF BEAMS 24x55	40´	3	5	15	4990	14.970	193681
WF BEAMS 24x55	40´	1	5	5	4990	4.990	193682
WF BEAMS 24x55	40´	1	5	5	4990	4.990	193716
WF BEAMS 24x55	40´	4	5	20	4990	19.960	193717
WF BEAMS 24x55	40´	1	5	5	4990	4.990	193718

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 24x55	40'	3	5	15	4990	14.970	193721
WF BEAMS 24x103	40'	1	2	2	3738	3.738	193628
WF BEAMS 24x103	40'	2	2	4	3738	7.476	193655

TOTAL BUNDLES **287**TOTAL WEIGHT **1.328.121 Kg.**

A02 EN 10204/3.1

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

(B01/B02/B03) A03

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
B08																			
191893	,080	,920	,190	,030	,016	,016	,240	,210	,049	,460	,035	,024	,003	,34					
193282	,072	1,040	,190	,017	,024	,003	,110	,150	,028	,390	,031	,025	,001	,31					
193380	,116	,900	,240	,018	,018	,004	,090	,150	,025	,490	,030	,026	,003	,33					
193395	,077	,970	,190	,019	,021	,004	,110	,180	,029	,440	,033	,027	,003	,31					
193399	,072	,990	,190	,020	,024	,006	,110	,190	,026	,380	,035	,026	,001	,30					
193400	,088	,930	,190	,018	,020	,004	,090	,200	,026	,350	,030	,027	,003	,30					
193402	,081	,950	,200	,026	,021	,004	,120	,260	,031	,380	,032	,027	,002	,31					
193628	,068	1,040	,190	,019	,021	,005	,140	,240	,028	,510	,034	,029	,002	,33					
193655	,060	,980	,240	,019	,021	,004	,150	,170	,026	,390	,037	,029	,003	,30					
193656	,063	1,030	,220	,018	,022	,004	,150	,170	,025	,410	,033	,026	,002	,31					
193662	,086	1,060	,220	,016	,020	,006	,140	,180	,027	,400	,036	,028	,003	,34					
193679	,078	,900	,220	,018	,024	,005	,140	,180	,028	,370	,037	,035	,003	,30					
193681	,056	1,060	,200	,018	,024	,006	,100	,210	,026	,500	,035	,032	,001	,31					
193682	,053	1,120	,220	,019	,021	,006	,120	,200	,025	,550	,035	,030	,002	,32					
193716	,068	,970	,200	,017	,020	,005	,080	,170	,030	,420	,032	,024	,001	,29					
193717	,068	,960	,200	,018	,024	,004	,070	,170	,028	,410	,035	,026	,002	,29					
193718	,069	,960	,200	,018	,023	,005	,080	,160	,028	,430	,035	,026	,001	,29					
193719	,071	,950	,190	,019	,023	,005	,080	,150	,025	,430	,033	,029	,001	,29					
193721	,072	,920	,220	,020	,027	,005	,080	,200	,030	,400	,037	,030	,001	,29					
193765	,070	,970	,220	,018	,023	,004	,090	,150	,020	,360	,032	,028	,003	,29					
193810	,066	,940	,210	,017	,022	,004	,070	,150	,021	,340	,034	,032	,002	,27					
193811	,065	,930	,190	,019	,026	,004	,080	,190	,034	,350	,035	,033	,001	,28					
193812	,074	,910	,190	,020	,028	,004	,090	,200	,035	,350	,035	,034	,002	,29					
193825	,069	1,040	,220	,018	,022	,007	,110	,150	,021	,380	,040	,031	,001	,31					
193829	,072	,950	,210	,018	,022	,005	,080	,150	,018	,400	,037	,033	,003	,29					
193830	,077	,900	,210	,020	,024	,004	,070	,150	,026	,380	,036	,033	,003	,28					
193831	,067	1,020	,200	,022	,024	,005	,110	,150	,019	,420	,038	,028	,003	,30					
193832	,070	,950	,200	,020	,023	,004	,090	,160	,024	,390	,031	,029	,002	,29					
193833	,073	,940	,200	,019	,020	,005	,100	,150	,019	,430	,036	,026	,001	,29					
193834	,078	,970	,230	,023	,021	,004	,100	,140	,016	,430	,039	,029	,002	,30					
193836	,061	,960	,210	,025	,021	,005	,120	,150	,018	,400	,036	,031	,002	,29					
193837	,063	,940	,200	,025	,022	,005	,120	,160	,018	,430	,035	,034	,002	,29					
193838	,069	,870	,190	,022	,021	,004	,130	,170	,022	,430	,033	,034	,002	,29					
193844	,079	1,030	,230	,018	,022	,003	,090	,170	,023	,450	,033	,038	,003	,32					
193845	,080	,980	,210	,017	,022	,004	,070	,180	,023	,490	,034	,039	,002	,31					
193847	,066	1,160	,200	,018	,023	,007	,140	,180	,034	,400	,037	,026	,001	,33					
193863	,058	1,030	,230	,024	,021	,004	,100	,150	,023	,460	,032	,023	,003	,30					
193864	,071	1,070	,200	,025	,026	,004	,100	,160	,019	,430	,033	,026	,003	,31					
193865	,059	1,040	,230	,019	,024	,004	,090	,150	,021	,440	,031	,023	,003	,29					
193959	,078	,910	,170	,017	,025	,005	,090	,170	,020	,370	,034	,028	,002	,29					
193971	,076	,960	,210	,017	,019	,004	,090	,150	,017	,400	,033	,027	,003	,29					
193973	,064	,930	,190	,018	,023	,004	,080	,150	,014	,400	,033	,023	,002	,28					
193988	,095	,980	,180	,015	,022	,003	,100	,170	,032	,400	,032	,029	,001	,32					
193989	,097	,990	,210	,019	,023	,003	,110	,160	,028	,410	,035	,028	,002	,33					
193990	,083	1,000	,210	,022	,022	,004	,110	,160	,028	,350	,034	,030	,004	,31					
193991	,073	,970	,180	,019	,024	,004	,080	,150	,018	,350	,034	,027	,002	,29					
193992	,060	1,000	,180	,018	,025	,004	,080	,140	,016	,390	,037	,024	,002	,28					
193995	,073	,900	,220	,015	,021	,005	,080	,180	,022	,420	,036	,027	,002	,28					

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
B08																		
193996	,067	,960	,200	,019	,024	,004	,110	,160	,023	,370	,032	,027	,003	,29				
194030	,069	,980	,210	,024	,021	,004	,140	,210	,032	,410	,032	,028	,002	,31				
194031	,085	,990	,240	,019	,022	,004	,100	,190	,028	,390	,035	,029	,002	,32				
194032	,097	1,000	,240	,020	,018	,004	,110	,160	,037	,370	,034	,028	,004	,33				
194033	,084	1,000	,190	,017	,019	,004	,100	,190	,035	,360	,033	,029	,001	,32				
194034	,078	,990	,160	,018	,022	,005	,090	,170	,036	,430	,036	,027	,001	,31				
194035	,096	,970	,230	,015	,023	,005	,070	,130	,034	,310	,038	,031	,003	,31				
194036	,069	,920	,180	,018	,021	,004	,100	,170	,029	,320	,033	,023	,002	,28				
194038	,079	,980	,200	,016	,023	,005	,110	,170	,034	,360	,037	,023	,001	,31				
194041	,069	1,110	,240	,018	,022	,007	,170	,150	,041	,360	,043	,019	,002	,33				
194042	,061	1,050	,210	,021	,026	,006	,150	,170	,029	,360	,041	,022	,001	,31				
194043	,070	1,020	,220	,017	,023	,006	,110	,160	,029	,400	,044	,017	,001	,31				
194044	,087	,990	,190	,017	,021	,005	,120	,170	,031	,360	,040	,018	,001	,32				
194046	,080	,890	,190	,018	,021	,005	,130	,180	,027	,370	,032	,026	,003	,30				
194048	,077	1,000	,200	,020	,023	,004	,110	,170	,032	,330	,033	,026	,003	,31				
194050	,091	,950	,210	,020	,023	,004	,110	,170	,037	,320	,034	,021	,003	,31				
194051	,072	,930	,210	,025	,023	,004	,180	,180	,032	,350	,032	,026	,004	,31				
194052	,120	1,050	,230	,034	,018	,005	,210	,170	,027	,370	,037	,028	,003	,38				
194053	,098	,980	,210	,031	,020	,004	,170	,190	,028	,380	,032	,028	,002	,34				
194055	,091	,940	,210	,021	,019	,005	,120	,200	,032	,360	,032	,028	,003	,32				
194056	,085	,990	,230	,017	,019	,005	,120	,180	,037	,340	,031	,029	,003	,32				
194057	,077	,920	,160	,023	,018	,005	,160	,150	,033	,310	,030	,028	,004	,30				
194058	,083	,980	,200	,019	,022	,006	,110	,150	,029	,340	,036	,029	,004	,31				
194059	,062	,920	,200	,017	,021	,004	,120	,150	,026	,410	,032	,026	,002	,28				
194060	,065	,940	,200	,018	,022	,005	,150	,150	,034	,390	,031	,027	,002	,30				
194062	,080	1,010	,220	,017	,022	,005	,140	,190	,046	,390	,033	,024	,003	,33				
194063	,094	1,090	,200	,016	,021	,005	,130	,180	,039	,370	,037	,021	,004	,35				
194064	,084	,990	,230	,017	,022	,005	,110	,180	,042	,330	,030	,022	,001	,31				
194065	,080	,980	,190	,019	,018	,005	,140	,220	,050	,350	,030	,022	,001	,32				
194066	,083	1,000	,170	,018	,018	,006	,280	,200	,058	,350	,032	,023	,001	,36				
194067	,072	1,000	,210	,018	,021	,005	,180	,180	,039	,400	,029	,023	,001	,32				
194068	,077	1,050	,230	,018	,023	,006	,160	,180	,043	,390	,033	,020	,002	,33				
194069	,084	1,000	,200	,019	,024	,006	,130	,170	,027	,430	,033	,022	,002	,32				
194070	,064	,980	,180	,024	,028	,006	,170	,210	,036	,440	,034	,028	,001	,31				
194071	,095	1,100	,200	,023	,024	,007	,190	,200	,041	,410	,033	,028	,002	,37				
194072	,076	1,060	,200	,026	,024	,007	,160	,190	,039	,460	,033	,027	,003	,34				
194077	,078	,950	,200	,023	,023	,005	,130	,170	,038	,340	,030	,030	,003	,30				
194078	,069	,970	,190	,032	,021	,006	,150	,180	,039	,310	,031	,026	,002	,30				
194079	,115	,960	,240	,030	,019	,005	,170	,210	,037	,300	,032	,028	,004	,35				
194081	,056	,950	,180	,024	,022	,005	,150	,200	,041	,320	,030	,026	,001	,29				
194083	,074	,900	,220	,024	,020	,006	,170	,170	,027	,400	,033	,024	,003	,30				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-10x12	194067	387	381	580	566	22,2	22,2
W-10x12	194068	422	415	561	546	22,7	22,3
W-10x12	194069	431	419	563	545	22,6	22,3

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-10x12	194070	423	421	570	554	22,6	21,8
W-10x15	194077	438	424	549	549	23,3	22,7
W-10x15	194078	430	428	558	554	23,2	22,9
W-10x15	194079	422	412	563	561	23,5	23,2
W-10x15	194081	425	409	534	530	22,7	22,5
W-10x17	194063	444	430	578	566	23,2	22,5
W-10x17	194064	443	432	564	552	22,9	22,7
W-10x17	194066	393	391	567	561	22,9	22,5
W-10x19	194057	447	431	553	531	23,1	22,5
W-10x19	194058	418	407	538	522	22,7	22,3
W-10x19	194059	420	410	524	523	22,6	22,4
W-10x19	194060	420	412	539	519	23,2	22,8
W-10x22	194069	432	422	553	546	23,2	23,
W-10x22	194070	430	420	549	537	23,3	22,8
W-10x22	194071	431	415	555	549	23,	22,5
W-10x22	194072	429	423	569	560	22,8	22,4
W-10x26	194062	427	415	540	534	23,8	22,9
W-10x26	194063	441	433	579	559	23,8	22,9
W-10x26	194064	440	424	558	540	23,1	22,6
W-10x26	194065	432	416	557	543	23,	22,4
W-10x30	194055	408	404	525	507	23,7	23,3
W-10x30	194056	419	411	534	530	23,2	22,5
W-10x30	194057	411	397	514	506	22,7	22,6
W-10x39	193863	406	375	485	495	23,6	24,3
W-10x39	193864	422	404	515	511	25,	24,9
W-10x39	193865	415	403	513	493	25,1	25,
W-12x14	194041	430	412	561	540	23,1	22,3
W-12x14	194042	424	416	542	536	22,8	22,3
W-12x14	194043	435	433	559	541	22,6	22,5
W-12x14	194044	441	427	558	538	22,6	22,5
W-12x14	194048	431	427	539	533	22,6	22,5
W-12x16	193847	437	419	546	546	22,8	22,
W-12x16	194036	438	423	528	521	23,1	22,6
W-12x16	194038	437	431	532	520	22,7	22,7
W-12x19	193995	423	411	532	516	23,5	22,8
W-12x19	193996	422	418	548	530	23,5	22,9
W-12x22	193988	438	430	565	555	23,	22,5
W-12x22	193989	452	436	558	554	23,1	22,6
W-12x22	193990	430	429	539	537	23,6	22,8
W-12x22	193991	404	396	510	488	22,8	22,6
W-12x22	193992	423	411	514	512	22,8	22,6
W-12x26	194030	399	391	513	497	24,	23,3
W-12x26	194031	420	415	541	517	24,	23,3
W-12x26	194032	435	423	546	542	24,	23,6
W-12x26	194033	420	412	529	505	23,3	23,2
W-12x26	194034	404	396	519	499	24,4	24,3
W-12x26	194035	400	396	511	503	24,9	24,5
W-12x30	194050	418	412	555	537	24,7	24,6



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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-12x30	194051	428	411	584	570	24,7	24,4
W-12x30	194052	410	396	533	521	24,1	23,7
W-12x30	194053	397	397	514	503	24,1	23,8
W-12x35	194046	392	380	505	491	25,3	24,3
W-14x22	193959	424	414	530	507	24,5	24,2
W-14x43	193844	408	399	517	513	24,6	24,
W-14x43	193845	410	408	549	533	24,7	24,3
W-14x48	193836	377	373	489	474	22,9	22,8
W-14x48	193837	397	389	508	504	23,3	22,7
W-14x48	193838	387	387	504	504	25,6	25,6
W-14x53	193833	374	358	496	474	25,8	25,1
W-14x53	193834	385	378	506	488	25,4	25,2
W-14x61	193831	407	399	528	508	26,4	25,4
W-14x61	193832	397	387	498	494	26,2	25,6
W-14x61	193833	417	401	511	507	26,	25,9
W-16x40	193395	405	396	502	490	31,	30,4
W-16x40	193399	397	395	522	514	34,1	32,9
W-16x40	193400	409	403	532	516	28,4	27,7
W-16x40	193402	402	386	510	499	27,1	26,7
W-16x57	193380	393	389	542	522	24,9	24,7
W-18x46	193971	388	376	501	481	26,2	25,9
W-18x46	193973	394	394	497	486	26,3	25,9
W-18x65	193282	402	393	524	520	26,8	26,4
W-18x86	193656	411	403	518	502	25,7	25,4
W-18x86	193662	418	402	526	519	24,5	24,2
W-18x86	193679	421	415	522	516	25,8	24,9
W-21x44	193765	435	429	533	521	23,9	23,7
W-21x44	193825	440	435	535	531	23,7	23,5
W-21x44	193829	416	408	530	511	24,3	23,6
W-21x44	193830	436	420	515	510	24,2	23,8
W-21x44	193832	432	414	531	507	23,7	23,3
W-21x57	193810	409	409	505	493	24,2	23,9
W-21x57	193811	417	406	510	496	24,5	24,1
W-21x57	193812	414	410	512	494	24,3	24,3
W-21x62	193718	416	421	508	492	24,9	24,1
W-21x62	193719	414	406	510	496	24,4	24,4
W-21x68	191893	411	435	518	530	26,6	25,5
W-24x103	193628	405	402	511	506	26,8	26,3
W-24x103	193655	382	378	494	492	26,6	25,5
W-24x55	193681	433	417	511	501	24,3	23,6
W-24x55	193682	385	386	514	512	25,4	27,9
W-24x55	193716	418	412	521	510	24,5	23,5
W-24x55	193717	411	419	517	505	23,9	23,6
W-24x55	193718	438	422	516	514	23,9	23,4
W-24x55	193721	401	408	520	554	25,3	27,8
W-8x48	194083	384	370	502	484	22,9	22,2

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Responsable del Departamento de Calidad Z01

89 análisis

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

B06: Marca AMO

ArcelorMittal Olaberria-Bergara

Jose Maria Galindo