

Sales Agent:

Arcelor Sections Commercial S.A.
66, rue de Luxembourg
L-4221 ESCH-SUR-ALZETTE



ARCELOR SECTIONS COMMERCIAL S.A.
Arcelor Group

66, rue de Luxembourg, L-4221 Esch-sur-Alzette
R.C. Luxembourg Section B 36.177

Mill:

ProfilArbed Differdange

Certificate Nr X 867632

Delivery note number 867632 from 10 March 2006

Our reference : 1700004512
Your reference : CP27105
27.01.2006
Consignee : Ferre Barniedo, S.A. de C.V.

Arcelor International America, LLC
Mill business, Long Products
350 Hudson Street
NEW YORK NY 10014
USA

ASTM A 572/01 GRADE 50

Manufacturer's test certificate acc. to ASTM A 6

31126

Ord.item	Product	Length	Weight	Heat nr	Weight	Bund.	Bars
000006	W 14 X 14,5 X 90 W 360 X 370 X 134	40' 12.192 mm	450,708 mt	20605	6,532 mt		4
				20723	13,064 mt		8
				21037	11,431 mt		7
				21397	11,431 mt		7
				21469	11,431 mt		7
				21502	58,788 mt		36
				21536	75,118 mt		46
				21537	111,044 mt		68
				21538	11,431 mt		7
				21625	83,283 mt		51
				21646	26,128 mt		16
				21647	14,697 mt		9
				21650	9,798 mt		6
21662	6,532 mt		4				
000008	W 14 X 14,5 X 109 W 360 X 370 X 162	40' 12.192 mm	29,670 mt	21544	15,824 mt		8
				21545	13,846 mt		7
000010	W 14 X 14,5 X 132 W 360 X 370 X 196	40' 12.192 mm	11,975 mt	21547	9,580 mt		4
				21548	2,395 mt		1

1P141S134 I

Heat nr

Heat analysis (%)

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	C	Mn	P	S	Nb	Mo	Si
Max	0,23	1,50	0,040	0,050	0,40	0,050	
20605	0,15	1,04	0,019	0,029	0,19	0,005	6,75
20723	0,16	1,2	0,017	0,015	0,18	0,007	7,74


Bettendorff Julien

Porteur de signature spéciale

ORIGINAL DE NUESTROS ARCHIVOS,
PARA LA REMISION No. _____

TEL. 58-36-10-00

ventas@ferrebarniedo.com.mx

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Heat nr	Heat analysis (%)						
	C	Mn	P	S	Si	Nb	Mn/C
Min					0,10		
Max	0,23	1,50	0,040	0,050	0,40	0,050	
21037	0,16	1,08	0,032	0,027	0,19	0,008	6,62
21397	0,15	1,02	0,023	0,023	0,17	0,006	6,79
21469	0,15	1,05	0,023	0,028	0,17	0,005	6,84
21502	0,16	1,08	0,033	0,037	0,18	0,006	6,72
21536	0,15	1,06	0,023	0,029	0,16	0,006	7,02
21537	0,16	1,06	0,017	0,010	0,16	0,005	6,48
21538	0,16	1,07	0,020	0,026	0,18	0,005	6,76
21544	0,16	1,06	0,030	0,030	0,19	0,005	6,79
21545	0,15	1,04	0,034	0,025	0,20	0,006	6,77
21547	0,17	1,03	0,027	0,014	0,18	0,006	6,07
21548	0,17	1,08	0,035	0,011	0,18	0,006	6,50
21625	0,16	1,05	0,023	0,021	0,18	0,007	6,72
21646	0,16	1,04	0,017	0,022	0,18	0,008	6,46
21647	0,17	1,02	0,019	0,027	0,17	0,005	6,11
21650	0,16	1,05	0,025	0,023	0,18	0,005	6,58
21662	0,17	1,09	0,020	0,025	0,17	0,005	6,43

Heat nr	Tensile test		
	PSI	PSI 200 mm	Ys UTS El. (%)
Min	50.000	65.000	18,00
Max			
20605	57.420	76.270	23,45
20605	58.180	77.720	23,97
20723	58.145	77.575	25,01
20723	59.305	79.025	25,51
21037	59.015	78.135	24,71
21037	60.175	79.665	25,11
21397	57.565	76.560	25,35

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Heat nr	Tensile test		
	PSI Ys	PSI 200 mm UTS	200 mm EL. (%)

Heat nr	PSI Ys	PSI 200 mm UTS	200 mm EL. (%)
Min	50.000	65.000	18,00
Max			
21397	58.145	77.285	25,61
21469	57.275	75.980	25,55
21469	57.855	76.705	25,81
21502	58.870	78.735	24,61
21502	60.030	80.185	25,11
21536	58.435	77.430	25,06
21536	59.595	78.880	25,56
21537	57.420	76.415	24,85
21537	58.000	77.285	25,11
21538	58.000	76.995	25,21
21538	59.160	78.445	25,71
21544	56.840	76.850	24,71
21544	56.260	77.285	25,11
21545	56.405	76.270	25,45
21545	57.565	77.720	25,97
21547	57.710	79.460	25,36
21547	57.130	77.575	24,46
21548	56.115	77.575	24,46
21548	57.855	79.895	25,21
21625	59.595	78.735	25,61
21625	57.855	76.415	24,85
21646	57.290	76.705	25,36
21646	57.450	78.155	25,11
21647	57.130	76.125	25,50
21647	58.290	77.575	26,02
21650	56.695	77.285	25,11
21650	57.855	78.735	25,61
21662	59.595	79.315	24,36

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Heat nr	Tensile test		
	PSI	PSI 200 mm	
	Ys	UTS	El. (%)
Min	50.000	65.000	18,00
Max			
21662	60.175	80.765	24,96

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