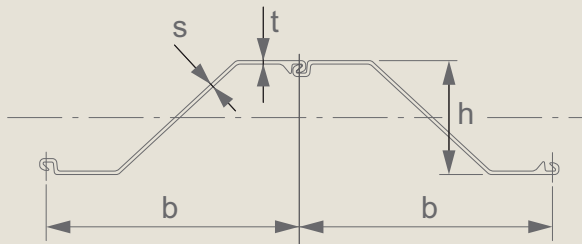




STEEL SHEET PILING  
MADE IN LUXEMBOURG  
**100 YEARS**  
AZ 13-700



The new AZ 13-700 will complete the AZ-700 range with 700 mm wide steel sheet piles manufactured by ArcelorMittal.

It represents the excellent compromise of steel thickness (9.5 mm) and profile width (700 mm) for a sheet pile with an elastic section modulus of 1 300 cm<sup>3</sup>/m. Similarly to other profiles, it can be rolled in various thicknesses and is available in steel grades S 240 GP up to S 430 GP according to EN 10248, as well as the mill specification S 460 AP and ASTM steel grades. Maximum rolling length is 31.0 m.

Shipments of this new section will start before the end of 2012. For further information, feel free to contact our sales and technical department in our local sales agencies or in our headquarters in Luxembourg.

Section	Width b	Height h	Thickness		Sectional area	Mass		Moment of inertia	Elastic section modulus	Static moment	Plastic section modulus	Class*						
			t	s		kg/m single pile	kg/m <sup>2</sup> wall					S 240 GP	S 270 GP	S 320 GP	S 355 GP	S 390 GP	S 430 GP	S 460 AP
AZ 12-700	700	314	8.5	8.5	123	67.7	<b>96.7</b>	18 880	<b>1 205</b>	710	1 415	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
AZ 13-700	700	315	9.5	9.5	135	74.0	<b>105.7</b>	20 540	<b>1 305</b>	770	1 540	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
AZ 13-700-10/10	700	316	10.0	10.0	140	77.2	<b>110.2</b>	21 370	<b>1 355</b>	800	1 600	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
AZ 14-700	700	316	10.5	10.5	146	80.3	<b>114.7</b>	22 190	<b>1 405</b>	835	1 665	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>

\* Classification according to EN 1993-5. Class 1 is obtained by verification of the rotation capacity for a class-2 cross-section. Steel grade S 460 AP following specification of the mill and ASTM A 690 are available on request.

## Section properties

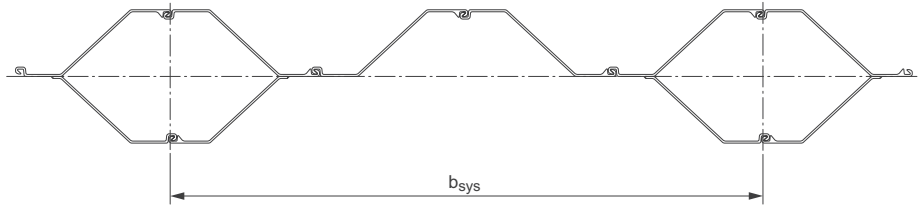
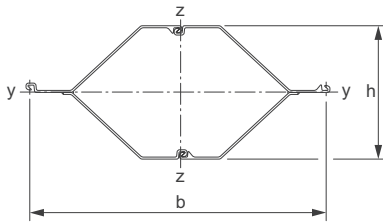
Section	S = Single pile D = Double pile	Sectional area	Mass	Moment of inertia	Elastic section modulus	Radius of gyration	Coating area*
AZ 12-700	Per S	86.2	<b>67.7</b>	13 220	<b>840</b>	12.38	0.86
	Per D	172.5	<b>135.4</b>	26 440	<b>1 685</b>	12.38	1.71
	Per m of wall	123.2	<b>96.7</b>	18 880	<b>1 205</b>	12.38	1.22
AZ 13-700	Per S	94.3	<b>74.0</b>	14 370	<b>910</b>	12.35	0.86
	Per D	188.5	<b>148.0</b>	28 750	<b>1 825</b>	12.35	1.71
	Per m of wall	134.7	<b>105.7</b>	20 540	<b>1 305</b>	12.35	1.22
AZ 13-700-10/10	Per S	98.3	<b>77.2</b>	14 960	<b>945</b>	12.33	0.86
	Per D	196.6	<b>154.3</b>	29 910	<b>1 895</b>	12.33	1.71
	Per m of wall	140.4	<b>110.2</b>	21 370	<b>1 355</b>	12.33	1.22
AZ 14-700	Per S	102.3	<b>80.3</b>	15 530	<b>980</b>	12.32	0.86
	Per D	204.6	<b>160.6</b>	31 060	<b>1 965</b>	12.32	1.71
	Per m of wall	146.1	<b>114.7</b>	22 190	<b>1 405</b>	12.32	1.22

\* One side, excluding inside of interlocks

# AZ 13-700

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## CAZ Box pile

Section	Width b	Height h	Perimeter	Sectional area	Total section	Mass*	Moment of inertia		Elastic section modulus		Min. radius of gyration	Coating area**
							y - y	z - z	y - y	z - z		
							cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm <sup>3</sup>		
CAZ 12-700	1 400	628	360	303	4 524	238	137 770	421 600	4 365	5 785	21.3	3.39
CAZ 13-700	1 400	630	361	332	4 552	261	150 890	461 210	4 765	6 335	21.3	3.39
CAZ 13-700-10/10	1 400	631	361	347	4 565	272	157 530	481 090	4 965	6 610	21.3	3.39
CAZ 14-700	1 400	632	361	362	4 579	284	164 130	500 820	5 165	6 885	21.3	3.39

\* The mass of the welds is not taken into account

\*\* Outside surface, excluding inside of interlocks

## Combined wall: CAZ box piles / AZ sheet piles

Section	System width	Mass <sub>100</sub> *	Mass <sub>60</sub> *	Moment of inertia	Elastic section modulus
	b <sub>sys</sub>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	I <sub>sys</sub>	W <sub>sys</sub>
	mm			cm <sup>4</sup> /m	cm <sup>3</sup> /m
CAZ 13-700 / AZ 13-700	2 800	146	125	64 160	2 025
CAZ 13-700-10/10 / AZ 13-700	2 800	150	129	66 530	2 100
CAZ 14-700 / AZ 13-700	2 800	154	133	68 890	2 170

\* Mass<sub>100</sub>: L<sub>AZ</sub> = 100% L<sub>box pile</sub>; Mass<sub>60</sub>: L<sub>AZ</sub> = 60% L<sub>box pile</sub>

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