



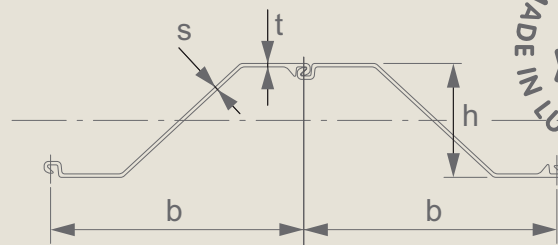
ArcelorMittal

AZ 13-700R

The new AZ 13-700R will complete the AZ-700 range of 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 cm³/m. Similarly to other sections, it can be rolled in various thicknesses.

Manufactured in Mill A in Rodange, Luxembourg, it will be available in a first phase in steel grades S 240 GP up to S 430 GP according to EN 10248, as well as the mill specification S 460 AP. Please enquire for other steel grades like ASTM A 690. Maximum rolling length is 24.0 m.

Shipments of this new section will start before the end of 2010. For further information, feel free to contact our sales or our technical department 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 ² wall					S 240 GP	S 270 GP	S 320 GP	S 355 GP	S 390 GP	S 430 GP	S 460 AP
AZ 12-700R	700	314	8.5	8.5	123	67.7	96.7	18 880	1 205	710	1 415	2	2	3	3	3	3	3
AZ 13-700R	700	315	9.5	9.5	135	74.0	105.7	20 540	1 305	770	1 540	2	2	2	3	3	3	3
AZ 13-700R-10/10	700	316	10.0	10.0	140	77.2	110.2	21 370	1 355	800	1 600	2	2	2	2	3	3	3
AZ 14-700R	700	316	10.5	10.5	146	80.3	114.7	22 190	1 405	835	1 665	2	2	2	2	2	3	3

* 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

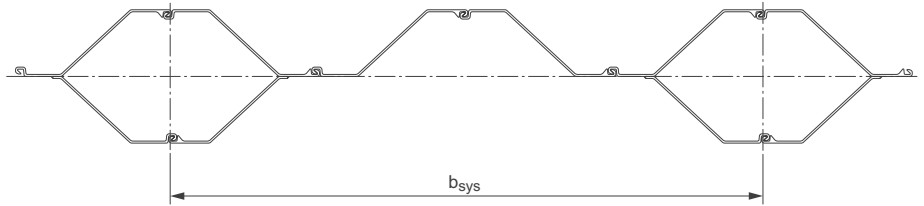
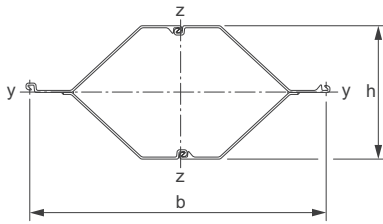
Section	S = Single pile D = Double pile	Sectional area	Mass	Moment of inertia	Elastic section modulus	Radius of gyration	Coating area*
AZ 12-700R	Per S	86.2	67.7	13 220	840	12.38	0.86
	Per D	172.5	135.4	26 440	1 685	12.38	1.71
	Per m of wall	123.2	96.7	18 880	1 205	12.38	1.22
AZ 13-700R	Per S	94.3	74.0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

* One side, excluding inside of interlocks

AZ 13-700R

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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		
	mm	mm	cm	cm ²	cm ²	kg/m	cm ⁴	cm ⁴	cm ³	cm ³	cm	m ² /m
CAZ 12-700R	1 400	628	360	303	4 524	238	137 770	421 600	4 365	5 785	21.3	3.39
CAZ 13-700R	1 400	630	361	332	4 552	261	150 890	461 210	4 765	6 335	21.3	3.39
CAZ 13-700R-10/10	1 400	631	361	347	4 565	272	157 530	481 090	4 965	6 610	21.3	3.39
CAZ 14-700R	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 ₁₀₀ *	Mass ₆₀ *	Moment of inertia	Elastic section modulus
	b _{sys} mm	kg/m ²	kg/m ²	I _{sys} cm ⁴ /m	W _{sys} cm ³ /m
CAZ 13-700R / AZ 13-700R	2 800	146	125	64 160	2 025
CAZ 13-700R-10/10 / AZ 13-700R	2 800	150	129	66 530	2 100
CAZ 14-700R / AZ 13-700R	2 800	154	133	68 890	2 170

* Mass₁₀₀: L_{AZ} = 100% L_{box pile}; Mass₆₀: L_{AZ} = 60% L_{box pile}

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