



ArcelorMittal



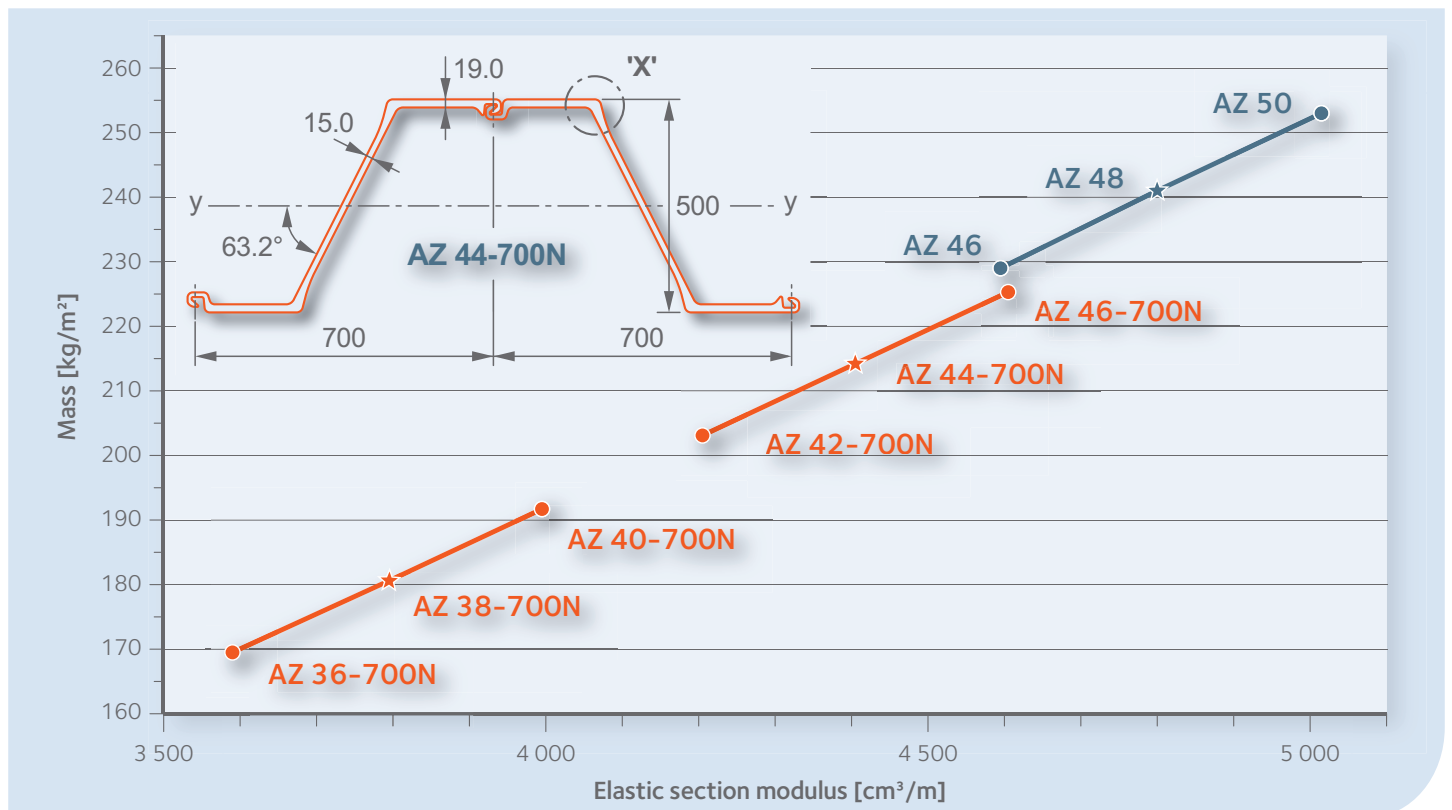
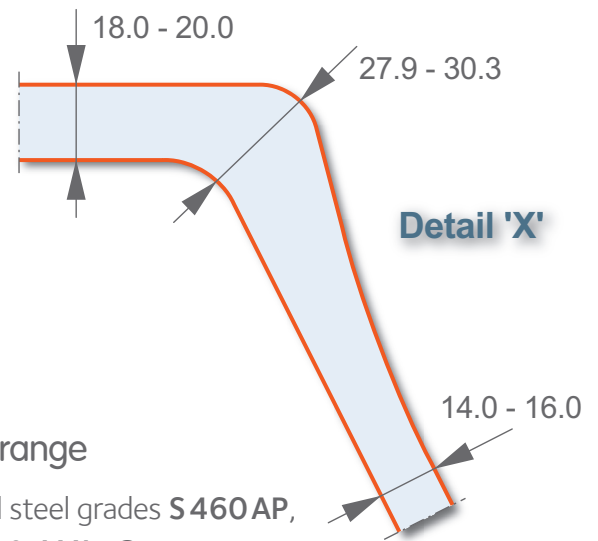
AZ 44-700N

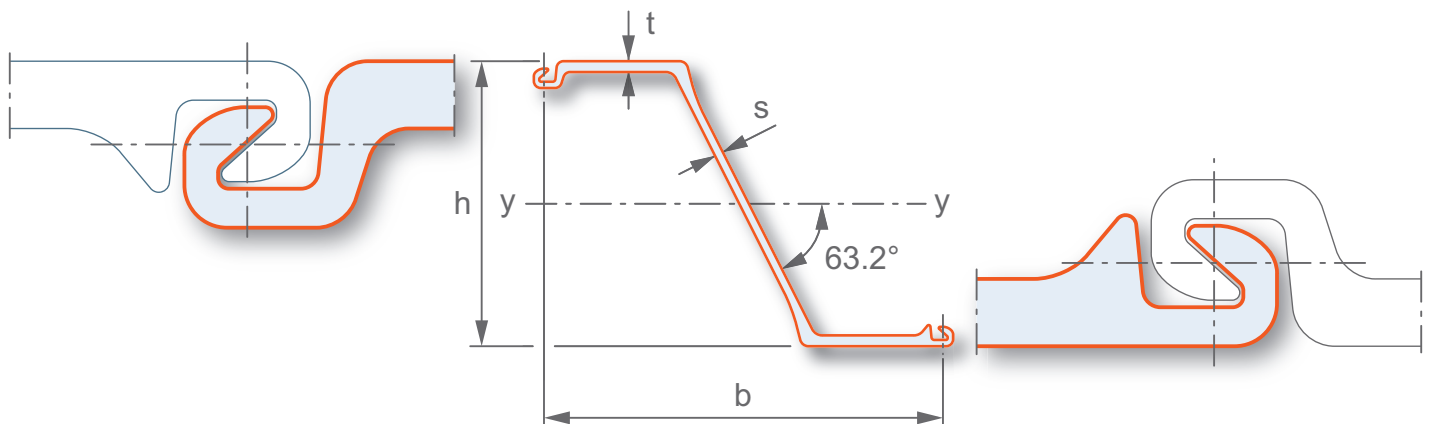
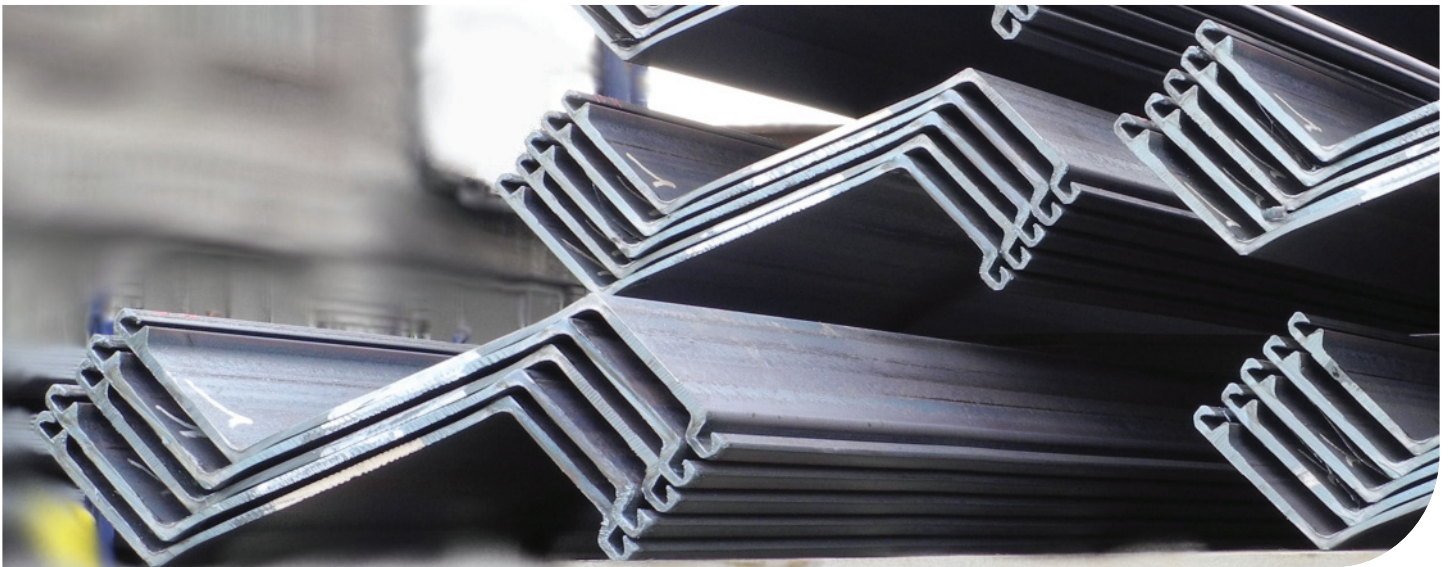
5 Key Arguments for this New Development ...

- first worldwide Z-type section with **4 400 cm³/m section modulus**
- more cost-effective solutions for deep quay walls and deep excavations
- completes AZ-700 range in the higher section modulus range
- 'reinforced shoulders' for tough driving conditions
- thickness up to **20.0 mm** (durability)

... built on the implicit benefits of our best-selling AZ-700 range

- top-notch 'Larsen interlocks'
- wide Z-type with **700 mm driving step**
- faster installation, less anchors / tie-rods
- usual steel grades acc. to EN 10248, up to **430 MPa**
- special steel grades **S 460 AP, A 690 & AMLoCor**
- rolling lengths up to **31.0 m**
- excellent ratio section modulus / mass





Section	Width b	Height h	Thickness		Sectional area	Mass		Moment of inertia	Elastic section modulus	Static moment	Plastic section modulus	Class *						
			t	s		single pile	wall					S 240 GP	S 270 GP	S 320 GP	S 355 GP	S 390 GP	S 430 GP	S 460 AP
AZ 42-700N	700	499	18.0	14.0	259	142.1	203	104 930	4 205	2 425	4 855	2	2	2	2	2	2	2
AZ 44-700N	700	500	19.0	15.0	273	149.9	214	110 150	4 405	2 550	5 105	2	2	2	2	2	2	2
AZ 46-700N	700	501	20.0	16.0	287	157.7	225	115 370	4 605	2 675	5 350	2	2	2	2	2	2	2

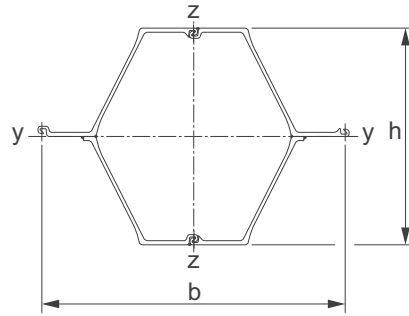
* Classification according to EN 1993-5. Class 1 is obtained by verification of the rotation capacity for a class-2 cross-section. Steel grades S 460 AP and AMLoCor based on mill specifications, as well as ASTM A 690 are available on request.

Section properties

Section	S = Single pile D = Double pile	Sectional area	Mass	Moment of inertia	Elastic section modulus	Radius of gyration	Coating area *
AZ 42-700N	Per S	181.1	142.1	73 450	2 945	20.14	1.03
	Per D	362.1	284.3	146 900	5 890	20.14	2.06
	Per m of wall	258.7	203.1	104 930	4 205	20.14	1.47
AZ 44-700N	Per S	191.0	149.9	77 100	3 085	20.09	1.03
	Per D	382.0	299.8	154 210	6 170	20.09	2.06
	Per m of wall	272.8	214.2	110 150	4 405	20.09	1.47
AZ 46-700N	Per S	200.9	157.7	80 760	3 220	20.05	1.03
	Per D	401.8	315.4	161 520	6 450	20.05	2.06
	Per m of wall	287.0	225.3	115 370	4 605	20.05	1.47

* One side, excluding inside of interlocks

CAZ Box pile

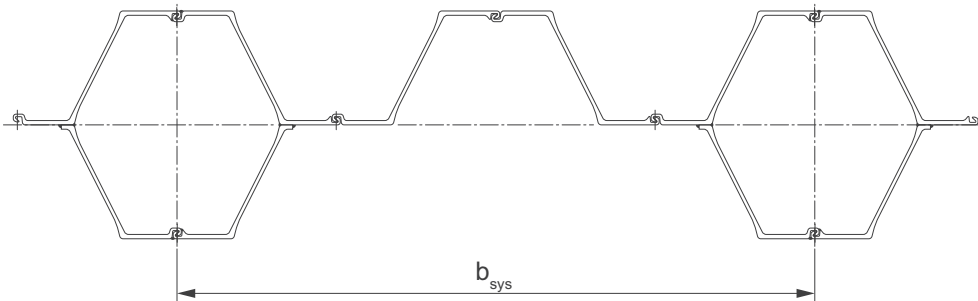


Section	Width b	Height h	Perimeter	Sectional area	Total section	Mass *	Moment of inertia		Elastic section modulus		Min. radius of gyration	Coating area **
							y - y	z - z	y - y	z - z		
	mm	mm	cm	cm ²	cm ²	kg/m	cm ⁴	cm ⁴	cm ³	cm ³	cm	m ² /m
CAZ 42-700N	1 400	998	433	646	7 267	507	744 440	855 860	14 870	11 915	34.0	4.11
CAZ 44-700N	1 400	1 000	434	682	7 298	535	785 620	902 800	15 660	12 570	33.9	4.11
CAZ 46-700N	1 400	1 002	434	718	7 328	564	827 030	949 760	16 455	13 225	33.9	4.11

* The mass of the welds is not taken into account

** Outside surface, excluding inside of interlocks

Combined wall : CAZ box piles / AZ sheet piles



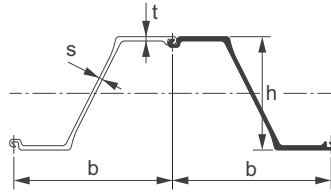
Combination	System width	Mass ₁₀₀ *	Mass ₆₀ *	Moment of inertia	Elastic section modulus
	b _{sys} mm	kg/m ²	kg/m ²	I _{sys} cm ⁴ /m	W _{sys} cm ³ /m
CAZ 42-700N / AZ 13-770	2 940	224	204	264 930	5 295
CAZ 42-700N / AZ 18-700	2 800	236	214	284 770	5 690
CAZ 44-700N / AZ 13-770	2 940	234	213	278 930	5 560
CAZ 44-700N / AZ 18-700	2 800	246	224	299 480	5 970
CAZ 46-700N / AZ 13-770	2 940	244	223	293 020	5 830
CAZ 46-700N / AZ 18-700	2 800	256	234	314 270	6 250

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

The data and commentary contained within this steel sheet piling document is for general information purposes only. It is provided without warranty of any kind. ArcelorMittal Commercial RPS S.à r.l. shall not be held responsible for any errors, omissions or misuse of any of the enclosed information and hereby disclaims any and all liability resulting from the ability or inability to use the information contained within.

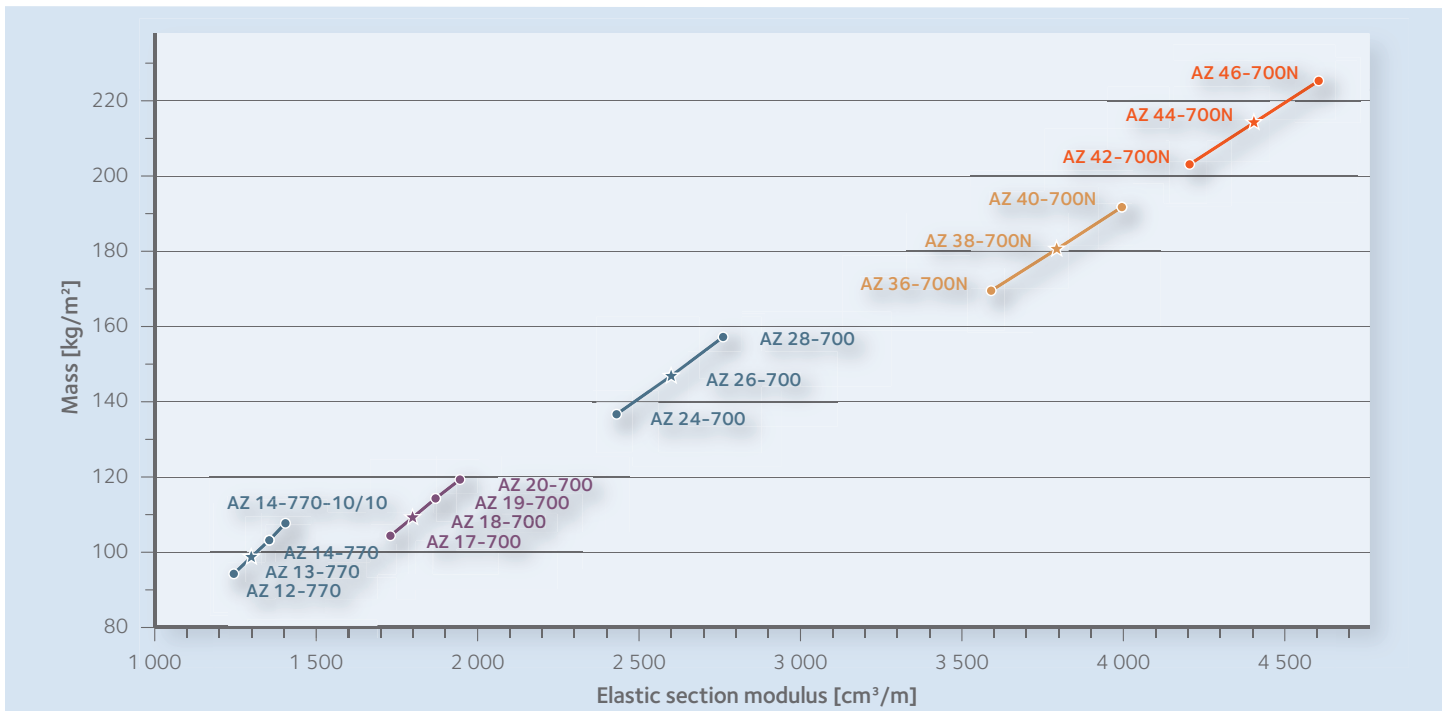
Anyone making use of this material does so at his/her own risk. In no event will ArcelorMittal Commercial RPS S.à r.l. be held liable for any damages including lost profits, lost savings or other incidental or consequential damages arising from use of or inability to use the information contained within.

Our sheet pile range is liable to change without notice.



Section	Width b	Height h	Thickness		Sectional area cm ² /m	Mass		Moment of inertia cm ⁴ /m	Elastic section modulus cm ³ /m	Static moment cm ³ /m	Plastic section modulus cm ³ /m	Class *						
			t	s		single pile	wall					S 240 GP	S 270 GP	S 320 GP	S 355 GP	S 390 GP	S 430 GP	S 460 AP
			mm	mm		kg/m	kg/m ²											
AZ 12-770	770	344	8.5	8.5	120	72.6	94	21 430	1 245	740	1 480	2	2	3	3	3	3	
AZ 13-770	770	344	9.0	9.0	126	76.1	99	22 360	1 300	775	1 546	2	2	3	3	3	3	
AZ 14-770	770	345	9.5	9.5	132	79.5	103	23 300	1 355	805	1 611	2	2	2	2	3	3	
AZ 14-770-10/10	770	345	10.0	10.0	137	82.9	108	24 240	1 405	840	1 677	2	2	2	2	2	3	
AZ 17-700	700	420	8.5	8.5	133	73.1	104	36 230	1 730	1 015	2 027	2	2	3	3	3	3	
AZ 18-700	700	420	9.0	9.0	139	76.5	109	37 800	1 800	1 060	2 116	2	2	3	3	3	3	
AZ 19-700	700	421	9.5	9.5	146	80.0	114	39 380	1 870	1 105	2 206	2	2	2	3	3	3	
AZ 20-700	700	421	10.0	10.0	152	83.5	119	40 960	1 945	1 150	2 296	2	2	2	2	2	3	
AZ 24-700	700	459	11.2	11.2	174	95.7	137	55 820	2 430	1 435	2 867	2	2	2	2	2	2	
AZ 26-700	700	460	12.2	12.2	187	102.9	147	59 720	2 600	1 535	3 070	2	2	2	2	2	2	
AZ 28-700	700	461	13.2	13.2	200	110.0	157	63 620	2 760	1 635	3 273	2	2	2	2	2	2	
AZ 36-700N	700	499	15.0	11.2	216	118.6	169	89 610	3 590	2 055	4 110	2	2	2	2	2	2	
AZ 38-700N	700	500	16.0	12.2	230	126.4	181	94 840	3 795	2 180	4 360	2	2	2	2	2	2	
AZ 40-700N	700	501	17.0	13.2	244	134.2	192	100 080	3 995	2 305	4 605	2	2	2	2	2	2	
AZ 42-700N	700	499	18.0	14.0	259	142.1	203	104 930	4 205	2 425	4 855	2	2	2	2	2	2	
AZ 44-700N	700	500	19.0	15.0	273	149.9	214	110 150	4 405	2 550	5 105	2	2	2	2	2	2	
AZ 46-700N	700	501	20.0	16.0	287	157.7	225	115 370	4 605	2 675	5 350	2	2	2	2	2	2	

* Classification according to EN 1993-5. Class 1 is obtained by verification of the rotation capacity for a class-2 cross-section. Steel grades S 460 AP and AMLoCor based on mill specifications, as well as ASTM A 690 are available on request.



ArcelorMittal Commercial RPS S.à r.l.
Sheet Piling
66, rue de Luxembourg
L-4221 Esch sur Alzette | Luxembourg

T +352 5313 3105
F +352 5313 3290
sheetpiling@arcelormittal.com
www.arcelormittal.com/sheetpiling