

# Z-Sections

Less weight – more economy.



thyssenkrupp

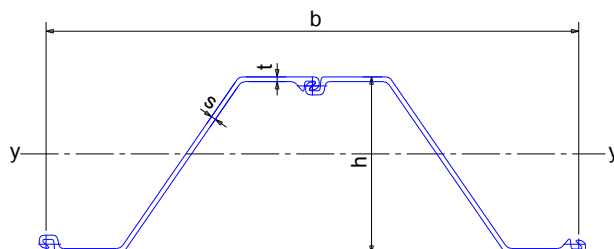
Date: September 2017, Version 1

## Important advantages

- Increased moment of inertia to limit deflection by the use of higher-quality steels for economic solutions
- Better protection against corrosion by using greater material thicknesses at endangered points

As a high-quality steel product steel sheet piling can handle a wide range of functions and applications. Among other things, it is used in hydraulic engineering, traffic route and port construction, or for retaining walls and noise barriers.

In addition to steel sheet piling, the portfolio of thyssenkrupp Infrastructure also encompasses machinery for the installation of sheet piling as well as services such as processing, cutting, etc., plus a full range of anchor technology.



## Technical specifications

tkZ-Sections	Single pile					per m of wall						
	Width in mm	Height in mm	Wall thickness in mm	Wall thickness in mm	Weight in kg/m	Weight in kg/m	Area in cm <sup>2</sup> /m	Moment of inertia in cm <sup>4</sup> /m	Elastic section modulus in cm <sup>3</sup> /m	Classification under DIN EN 1993-5		
	<b>b</b>	<b>h</b>	<b>t</b>	<b>s</b>				<b>I<sub>y</sub></b>	<b>W<sub>y</sub></b>	<b>S 270 GP</b>	<b>S 355 GP</b>	<b>S 430</b>
tkZ 12-700	700	314,2	8,6	8,5	67,9	97,0	123,5	18.971	1.208	2	3	3
tkZ 13-700	700	315,2	9,6	9,5	74,2	105,9	135,0	20.611	1.308	2	3	3
tkZ 14-700	700	316,2	10,6	10,5	80,5	114,9	146,4	22.262	1.408	2	2	3
tkZ 12-770	770	343,5	8,6	8,5	72,8	94,5	120,8	21.496	1.252	2	3	3
tkZ 13-770	770	344,0	9,1	9,0	76,2	99,0	126,5	22.433	1.304	2	3	3
tkZ 14-770	770	344,5	9,6	9,5	79,6	103,4	132,2	23.370	1.357	2	2	3
tkZ 17-700	700	420,0	8,5	8,4	73,3	104,7	132,8	36.425	1.735	2	3	3
tkZ 18-700	700	420,5	9,1	9,0	76,7	109,6	139,1	38.001	1.807	2	3	3
tkZ 19-700	700	421,0	9,6	9,5	80,2	114,6	145,4	39.578	1.880	2	3	3
tkZ 20-700	700	421,5	10,1	10,0	83,7	119,5	151,7	41.155	1.953	2	2	3
tkZ 24-700	700	459,2	11,3	11,2	95,8	136,9	174,4	55.949	2.437	2	2	2
tkZ 26-700	700	460,2	12,3	12,2	103,0	147,1	187,4	59.843	2.601	2	2	2
tkZ 27-700	700	460,7	12,8	12,7	106,4	152,0	193,6	61.641	2.676	2	2	2
tkZ 28-700	700	461,2	13,3	13,2	110,1	157,3	200,4	63.740	2.764	2	2	2
tkZ 36-700	700	499,2	15,1	11,2	118,7	169,6	216,1	89.753	3.596	2	2	2
tkZ 38-700	700	500,2	16,1	12,2	126,5	180,7	230,2	94.984	3.798	2	2	2
tkZ 40-700	700	501,2	17,1	13,2	134,3	191,8	244,4	100.219	3.999	2	2	2
tkZ 42-700	700	499,2	18,1	14,0	143,0	204,2	260,2	105.543	4.228	2	2	2
tkZ 44-700	700	500,2	19,1	15,0	150,7	215,3	274,3	110.942	4.436	2	2	2
tkZ 46-700	700	501,2	20,1	16,0	158,5	226,5	288,5	116.159	4.635	2	2	2
tkZ 48-700	700	503,2	22,1	15,0	159,3	227,6	290,0	120.467	4.788	2	2	2

### “ÜHP” certificate of conformity for steel sheet piles in accordance with Building Regulations List A, Part 1

Following inspection by the Material Testing Office of the German state of North Rhine-Westphalia (Certificate no. NRW02–11 0005538), thyssenkrupp Infrastructure GmbH in Essen is entitled to supply steel sheet piles of type 17-700, 18-700, 19-700, 20-700, 24-700, 26-700, 28-700 and in the future 13-770 in accordance with DIN EN 10248 marked with the “Ü-Zeichen” (mark of conformity).



## Materials Services Infrastructure

### thyssenkrupp Infrastructure GmbH

Hollestraße 7a  
45127 Essen, Germany  
P: +49 201 844 - 562313  
F: +49 201 844 - 562333  
info.tkinfrastructure@thyssenkrupp.com  
www.thyssenkrupp-infrastructure.com

### Sales Branches

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#### Australia, Indonesia, Japan, New Zealand

thyssenkrupp Infrastructure Ltd.  
Suite 502, 11 Help Street  
Chatswood NSW 2067, Australia  
P: +61 2 8448-3555  
F: +61 2 9411-4311  
enquiries.tkinfrastructure.au@thyssenkrupp.com  
www.thyssenkrupp-infrastructure.com.au

#### Baltic States

UAB thyssenkrupp Baltija  
Minijos g. 180  
93269 Klaipeda, Lithuania  
P: +370 46 355-401  
F: +370 46 355-032  
www.thyssenkrupp-baltija.lt

#### Brazil

thyssenkrupp Infrastructure do Brazil  
Av. das Américas 3500  
bloco 06, salas 407/408  
CEP 22631-003 Barra da Tijuca  
Rio de Janeiro, Brazil  
P: +55 21 32825-245  
www.thyssenkrupp-infrastructure.com

#### Kazakhstan

TOO thyssenkrupp Infrastructure Kazakhstan  
Republic of Kazakhstan  
050008 Almaty, Prospect Abaja  
109 W, BC Globus, office 1  
P: +7 727 356 15 50  
F: +7 727 356 15 50  
www.tkif-kz.com

#### Romania

thyssenkrupp Infrastructure Romania  
50 Av. Petre Cretu Street  
012052 Bucharest, Romania  
P: +4 021 319-2417  
F: +4 021 319-2425  
office@thyssenkrupp.ro

#### Russian Federation

OOO thyssenkrupp Infrastructure  
Prospekt Bolshevikov 54 B, office 211  
193315 St.-Petersburg  
Russian Federation  
P: +7 812 337-6510  
F: +7 812 337-6511  
info@tkif.ru  
www.tkif.ru

#### United Arab Emirates, Iraq, Oman, Saudi Arabia, Qatar, Bahrain, Kuwait, Jordan

thyssenkrupp Infrastructure GmbH Abu Dhabi  
c/o Royal Business Center  
Al Whada City Tower, 11th St,  
Hazaa Bin Zayed the First Street  
Abu Dhabi, United Arab Emirates  
P.O. Box 127432  
P: +971 2 8157-860  
F: +971 2 8157-888  
www.thyssenkrupp-infrastructure.com

#### Stocks

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#### United Kingdom

Evans Piling Limited  
Templeborough Works  
Sheffield Road  
Sheffield  
S9 1RT  
United Kingdom

#### United Arab Emirates

thyssenkrupp Infrastructure Dubai  
Jebel Ali Office  
P.O. Box 262994  
Dubai, United Arab Emirates  
P: +971 4 8871-618  
F: +971 4 8871-619