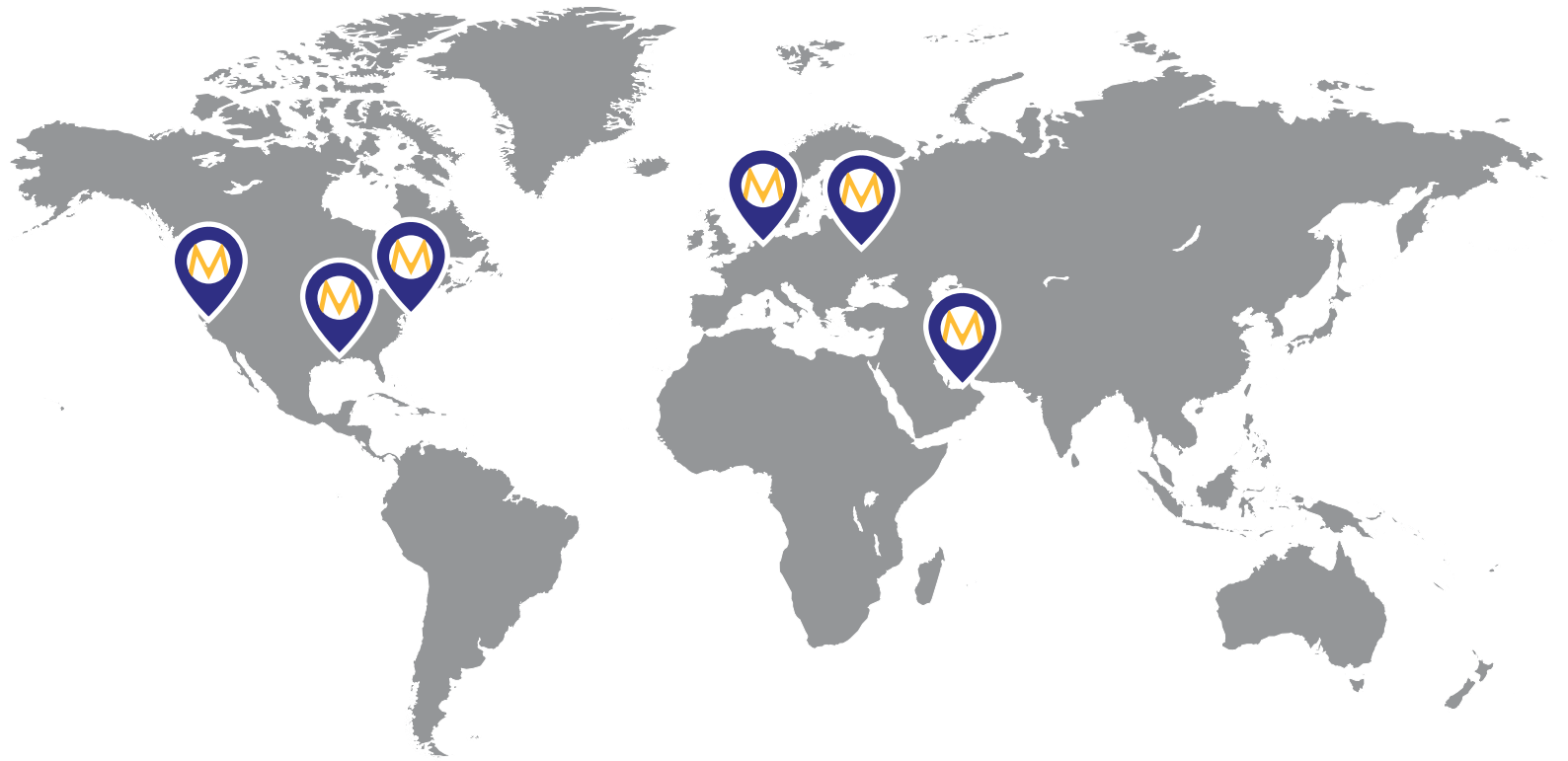


# PILING PRODUCTS



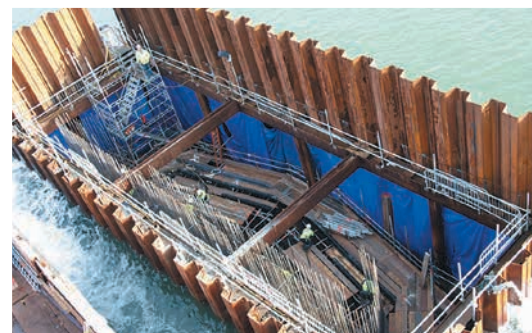
**MEEVER & MEEVER**

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MEEVER & MEEVER



# PILING PRODUCTS

[WWW.MEEVER.NL](http://WWW.MEEVER.NL)

# About Meever & Meever



## **Meever & Meever**

We are a worldwide operating company specialized in producing and delivering steel sheet piles, pipe piles, H-piles and anchorage. We have experience in realizing complete foundation and water projects.

Our head office Meever & Meever is located in Meerkerk, the Netherlands. We have several stock locations and sales offices in; the Netherlands, Poland, Germany, Italy, Spain, UAE and the USA.

## **Our mission**

Our main focus is to offer a total product package in the field of foundation, construction, water and pipe line works. Meever & Meever supplies directly from stock or out of production with short delivery times.

Meever & Meever employs highly qualified people who can provide quick and dependable support for all your questions, quotations and purchase orders.

In conjunction with several welding and constructional engineering specialists we can deliver

- Special structures and constructions
- Coating and other product modifications

We work on long term relationships based on mutual respect and trust with our customers.

## **What we can offer you**

- Steel piling products
- Competitive prices
- Support & Project engineering
- Short delivery times
- Several stock locations
- Flexibility & efficiency



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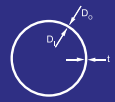
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Download our app:  
**Sheet Pile!**

Technical data about sheet piles, beams and steel pipes.





## Pipes

Pipe piles are applied in various constructions. Some examples: they can be used as foundation piles to support bridges, buildings or other structures onshore and offshore, as a pipeline to transport fluids or as pipe anchors. We can deliver pipes in various thicknesses, diameters and steel grades. On request we apply coating, weld on interlocks (for combined walls) or modify the pipes to your specific requirements.

Outside Diameter	PIPE WEIGHT KG/M - LBS/FT • Wall Thickness						
	6.4	7.9	9.5	12.7	15.9	19.1	25.4
mm	0.250	0.312	0.375	0.500	0.625	0.750	1.00
inch	0.250	0.312	0.375	0.500	0.625	0.750	1.00
508	78.6	97.7	117.1	155.11	192.6	-	-
20	52.8	65.7	78.7	104.2	129.5	-	-
610	94.5	117.6	140.9	186.9	232.4	277.4	-
24	63.5	79.0	94.7	125.6	156.2	186.4	-
762	118.3	147.4	176.7	234.7	292.1	349.0	461.4
30	79.5	99.0	118.8	157.7	196.3	234.5	310.0
914	142.2	177.1	212.5	282.4	351.7	420.6	556.8
36	95.6	119.0	142.8	189.8	236.4	282.6	374.2
1067	116.1	206.9	248.3	330.1	411.4	492.2	652.3
42	111.6	139.0	166.9	221.8	276.4	330.7	438.3
1219	189.9	236.7	284.1	377.8	471.0	563.8	747.7
48	127.6	159.1	190.9	253.9	316.5	378.8	502.4
1524	-	-	355.9	473.3	590.4	706.9	938.6
60	-	-	239.0	318.0	396.7	475.0	630.7

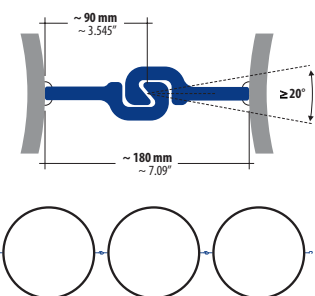
Pipe Weight Calculation	Pipe Weight Calculation
KG / M = (OD-WT) * WT (*0.02466)	LB / FT = (OD-WT) * WT (*10,69)

## Micro piles (threaded casings)

Micro piles are threaded small diameter pipe piles. They are also known as threaded casings or mini piles. Because of the short length and the threading they are suitable for foundation constructions with limited access. Micro piles can also be installed by drilling them into the ground instead of vibrating to protect surrounding structures. With a drill bit connected on the end of a micro pile they also used for anchoring purposes: as a casing to install GTB bar anchors or as a screw injection pile with a drill head at the top that enables adding grout cement.

Outside Diameter	Thickness	Weight	Section modules	Moment of inertia	Inside Diameter	Cross Sectional Area	External Surface Area
mm	mm	kg/m	cm <sup>3</sup>	cm <sup>4</sup> /m	mm	cm <sup>2</sup>	m <sup>2</sup> /m
inch	Inch	lbs/ft	in <sup>3</sup>	in <sup>4</sup> /ft	inch	in <sup>2</sup>	ft <sup>2</sup> /ft
139.7	10.5	33.5	129	898	118.6	42.77	0.44
5.500	0.415	22.6	7.84	21.57	4.670	6.63	1.44
177.8	11.5	47.2	235	2088	154.8	60.11	0.56
7.000	0.453	31.7	14.33	50.16	6.094	9.32	1.83
193.7	10.9	49.2	271	2727	171.8	62.71	0.61
7.625	0.430	33.1	16.56	63.12	6.765	9.72	2.00
219.1	12.7	56.7	307	2971	168.3	72.21	0.63
8.625	0.500	38.1	18.72	71.37	6.625	11.19	2.10
244.5	13.8	78.7	548	6693	216.8	100.3	0.77
9.625	0.545	52.9	33.41	160.80	8.535	15.55	2.52
273.1	12.7	81.5	646	8822	247.7	103.9	0.86
10.750	0.500	54.8	39.43	211.95	9.750	16.10	2.81
339.7	12.2	98.5	992	16846	315.3	125.5	1.07
13.375	0.480	66.2	60.52	404.73	12.415	19.45	3.50

## Pipe pile wall

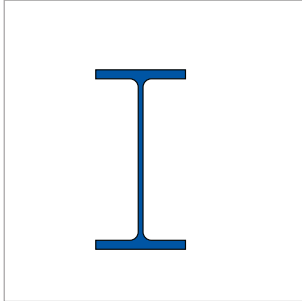


Pipe Pile Diameter x WT	Connector 2 pcs	Section Modules	Moment of Inertia	System Width	Weight Pipe	Weight Wall	Coating both sides
mm inch	per pipe	cm <sup>3</sup> / m in <sup>3</sup> / ft	cm <sup>4</sup> / m in <sup>4</sup> / ft	mm inch	kg/m lbs/ftm	kg / m <sup>2</sup> lbs / ft <sup>2</sup>	m <sup>2</sup> / m ftm <sup>2</sup> / ft
914 x 12.7	LPB 180	7.307	334.059	1.094	282.4	285.7	3.2
36 x 0.500		135.9	2,446	43.10	189.8	58.5	10.61
914 x 19.1	LPB 180	10.735	490.701	1.094	420.6	411.9	3.2
36 x 0.7501		199.6	3,593	43.10	282.6	84.4	10.61
1067 x 19.1	LPB 180	12.939	690.167	1.247	492.2	419.0	3.7
42 x 0.750		240.7	5,054	49.10	330.7	85.8	12.18
1219 x 19.1	LPB 180	15.161	924.237	1.399	563.8	424.5	4.2
48 x 0.750		282.0	6,768	55.10	378.8	86.9	13.75

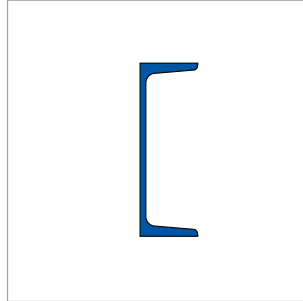


## H-beams & channel sections

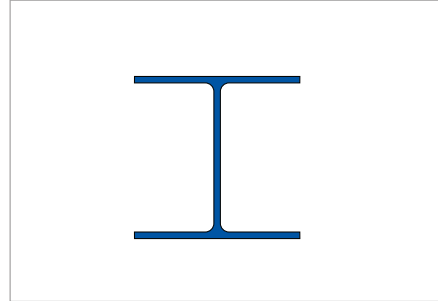
Because of the mechanical properties, H-piles often are driven in the ground for deep foundation applications or for the construction of buildings and bridges. H-piles can also be used in combination with sheet piles to achieve much more stiffness and resistance in retaining walls and structures.



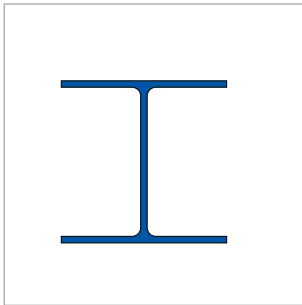
W American Wide Flange Sections



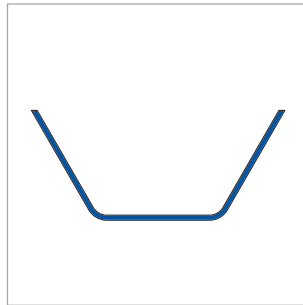
C American Standard Channels



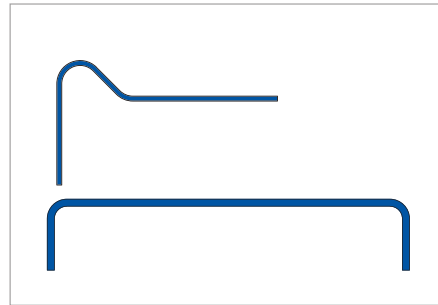
HP American Wide Flange Bearing Piles



HE European Wide Flange Sections

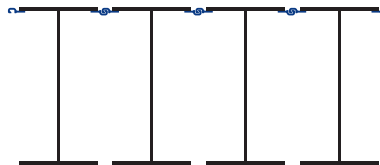
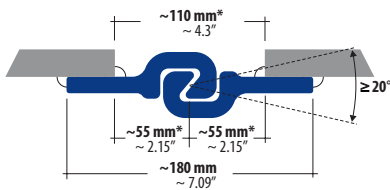


Bridge section

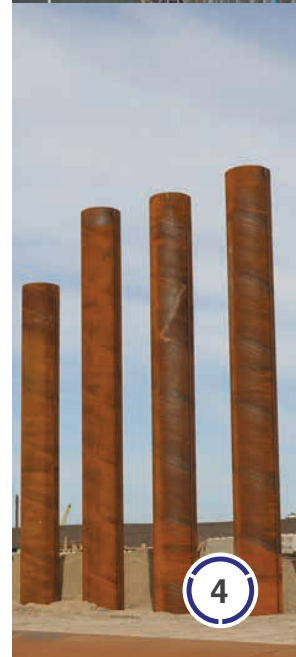
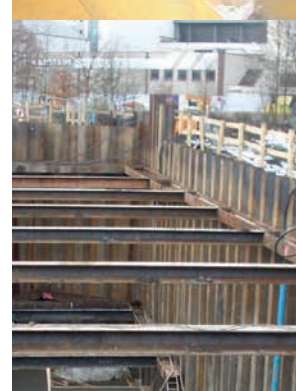


Pile Caps  
Designed to fit the sheet pile wall

## King pile wall



H-Pile	Connector 2 pcs	Section Modules y-y	Moment of Inertia y-y	System Width	System Height	System Weight	Coating water side
	H -pile	cm <sup>3</sup> / m in <sup>3</sup> / ft	cm <sup>4</sup> / m in <sup>4</sup> / ft	mm inch	mm inch	kg/m lbs/ft	m <sup>2</sup> / m ft <sup>2</sup> / ft
MHZ 880M A	LPB 180	9.185	410.770	511,8	831,3	261,8	1,14
		560.5	9,869	20.15	32.73	175.9	3.75
MHZ 1080M A	LPB 180	13.980	799.480	507,8	1075,3	325,6	1,14
		853.1	19,208	19.99	42.33	217.4	3.75
MHZ 1080M C	LPB 180	16.530	943.630	509,8	1075,3	374,6	1,14
		1,008.7	22,914	20.07	42.33	251.7	3.74
MHZ 1180M C	LPB 180	18.785	1.078.560	512,8	1075,4	422,7	1,14
		1,146.3	25,912	20.19	42.34	284.0	3.75





# Hot rolled Z-sections



Section Z-type	Sec.mod. cm <sup>2</sup> /m in <sup>2</sup> /ft	Mom.of In. cm <sup>2</sup> /m in <sup>2</sup> /ft	Width mm inch	Height mm inch	Thickness		Weight kg/m lbs/ft	Weight kg/m <sup>2</sup> lbs/ft <sup>2</sup>	Coating* m <sup>2</sup> /m ft <sup>2</sup> /m
					flange mm flange inch	web mm web inch			
Z 12 -680	1,200	17,990	680	299	8.5	8.5	68.3	100.5	1.63
	22.3	131.3	26.77	11.77	0.335	0.335	45.9	20.6	5.35
Z 13 -680	1,300	19,490	680	300	9.5	9.5	74.4	109.4	1.63
	24.2	142.3	26.77	11.81	0.375	0.375	50.0	22.4	5.35
Z 14 -680	1,395	20,990	680	301	10.5	10.5	80.5	118.3	1.63
	26.0	153.2	26.77	11.85	0.413	0.413	54.1	24.2	5.35
Z 17 -630	1,670	31,300	630	374	8.5	8.5	69.8	110.8	1.66
	31.1	229.2	24.80	14.72	0.335	0.335	46.9	22.7	5.46
Z 18 -630	1,805	33,850	630	375	9.5	9.5	76.0	120.7	1.66
	33.6	247.9	24.80	14.76	0.375	0.375	51.1	24.7	5.46
Z 19 -630	1,940	36,410	630	376	10.5	10.5	82.2	130.5	1.66
	36.1	266.6	24.80	14.80	0.413	0.413	55.2	26.7	5.46
Z 20 -630	2,002	37,690	630	377	11.0	11.0	85.3	135.5	1.66
	37.2	276.0	24.80	14.84	0.433	0.433	57.3	27.8	5.46
Z 17-700	1,735	36,360	700	420	8.5	8.5	74.0	105.7	1.84
	32.3	266.3	27.56	16.54	0.335	0.335	49.73	21.65	6.04
Z 18-700	1,805	37,890	700	420	9.0	9.0	77.4	110.6	1.84
	33.6	277.5	27.56	16.54	0.3354	0.3354	52.02	22.65	6.04
Z 19-700	1,875	39,420	700	421	9.5	9.5	80.8	115.4	1.84
	34.9	288.7	27.56	16.57	0.374	0.374	54.3	23.64	6.04
Z 19-700 10/10	1,945	40,940	700	421	10	10	84.2	120.3	1.84
	36.18	299.8	27.56	16.57	0.394	0.394	56.59	24.64	6.04
Z 20-700	2,015	42,470	700	422	10.5	10.5	87.6	125.2	1.84
	37.4	311.0	27.56	16.61	0.413	0.413	58.87	25.65	6.04
Z 24-700	2,435	55,870	700	459	12.0	9.0	89.5	127.9	1.92
	45.3	409.1	27.56	18.07	0.472	0.354	60.1	26.2	6.30
Z 26-700	2,600	59,810	700	460	13.0	10.0	96.7	138.1	1.92
	48.4	438.0	27.56	18.11	0.512	0.394	65	28.3	6.30
Z 28-700	2,765	63,750	700	461	14.0	11.0	103.9	148.4	1.92
	51.4	466.8	27.56	18.14	0.551	0.433	69.8	30.4	6.30
Z 32 -630	3,215	75,420	630	469	14.5	11.4	104.5	165.9	1.86
	59.8	550.6	24.80	18.46	0.571	0.449	70.2	34.0	6.10
Z 34 -630	3,400	80,000	630	470	15.5	12.4	111.6	177.1	1.86
	63.3	584.0	24.80	18.50	0.610	0.488	75.0	36.3	6.10
Z 36 -630	3,590	84,580	630	471	16.5	13.4	128.6	188.3	1.86
	66.8	617.5	24.80	18.54	0.650	0.528	86.4	38.5	6.10

**Steel grades:** EN10248-1: S270GP, S355GP, S390GP, S430GP  
 ASTM A572: Gr. 42, 50, 55, 60, 65, A690

**Coating area:** m<sup>2</sup> per m single pile, both sides excluding interior of interlocks. Only use for estimating.

**Production:** In accordance with EN10248-2 or ASTM tolerances.



# Hot rolled Z-sections

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness		Weight	Weight	Coating*
Z-type	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	mm inch	mm inch	flange mm in	web mm in	kg/m lbs/ft	kg/m <sup>2</sup> lb/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
MZ 12-700	1.205	18.880	700	314	8.5	8.5	67.7	96.7	1.71
	22.4	138.3	27.56	12.36	0.335	0.335	45.49	19.81	5.61
MZ 13-700	1.305	20.540	700	315	9.5	9.5	74.0	105.7	1.71
	24.3	150.4	27.56	12.40	0.375	0.375	49.72	21.65	5.61
MZ 17-700	1.735	36.435	700	420	8.7	8.5	73.2	104.6	1.92
	32.3	266.8	27.56	16.54	0.343	0.335	49.2	21.4	6.30
MZ 18-700	1.800	37.800	700	420	9.2	9.0	76.5	109.3	1.92
	33.5	276.8	27.56	16.54	0.362	0.354	51.4	22.4	6.30
MZ 19-700	1.865	39.165	700	420	9.7	9.5	79.7	113.9	1.92
	34.7	286.8	27.56	16.54	0.382	0.375	53.6	23.3	6.30
MZ 20-700	1.945	40.790	700	420	10.3	10.1	83.6	119.4	1.92
	36.2	298.7	27.56	16.54	0.406	0.398	56.2	24.5	6.30
MZ 26-700	2.600	57.200	700	440	12.0	12.0	102.3	146.2	2.02
	48.4	418.9	27.56	17.32	0.472	0.472	68.7	29.9	6.62
MZ 27-700	2.705	59.520	700	440	12.7	12.7	107.1	153.0	2.02
	50.3	435.9	27.56	17.32	0.500	0.500	72.0	31.3	6.62
MZ 28-700	2.765	60.830	700	440	13.1	12.1	109.7	156.7	2.02
	51.4	445.4	27.56	17.32	0.516	0.516	73.7	32.1	6.62
MZ 36-700	3.600	90.000	700	500	16.8	10.8	117.2	167.5	2.10
	67.0	659.1	27.56	19.69	0.661	0.425	78.8	34.3	6.89
MZ 37-700	3.695	92.400	700	500	17.4	11.4	121.6	173.7	2.10
	68.7	667.5	27.56	19.69	0.685	0.449	81.7	35.6	6.89
MZ 38-700	3.800	95.000	700	500	18.0	12.0	125.9	179.8	2.10
	70.7	695.7	27.56	19.69	0.709	0.472	84.6	36.8	6.89
MZ 39-700	3.925	98.125	700	500	18.7	12.7	130.7	186.8	2.10
	73.0	718.6	27.56	19.69	0.736	0.500	87.8	38.3	6.89
MZ 42-700N	4.205	104.930	700	499	18.0	14.0	142.1	203.1	2.06
	78.2	766.0	27.56	19.65	0.709	0.551	95.49	41.57	6.76
MZ 46-700N	4.605	115.370	700	501	20.0	16.0	157.7	225.3	2.06
	85.7	842.2	27.56	19.72	0.787	0.630	105.97	46.08	6.76
MZ 48	4.800	115.670	580	482	19.0	15.0	139.6	240.6	1.90
	89.3	847.1	22.83	18.98	0.748	0.591	93.81	49.28	6.23
MZ 50	5.015	121.060	580	483	20.0	16.0	146.7	252.9	1.90
	93.3	886.5	22.83	19.02	0.787	0.630	98.58	51.80	6.23

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness		Weight	Weight	Coating*
Z-type	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	mm inch	mm inch	flange mm in	web mm in	kg/m lbs/ft	kg/m <sup>2</sup> lb/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
PZ 22	973	11.500	559	229	9.5	9.5	60.0	107.4	1.37
	18.1	84.38	22.00	9.0	0.375	0.375	40.3	22.0	4.48
PZ 27	1.620	25.200	457	305	9.5	9.5	60.3	131.8	1.37
	30.2	184.2	18.00	12.0	0.375	0.375	40.5	27.0	4.48
PZ 35	2.608	49.300	575	378	15.21	12.67	98.2	170.9	1.64
	48.5	361.22	22.60	14.9	0.600	0.500	66.0	35.0	5.37
PZ 40	3.263	67.000	500	409	15.21	12.67	97.6	195.3	1.64
	60.7	490.85	19.70	16.1	0.600	0.500	65.6	40.0	5.37

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness		Weight	Weight	Coating*
Z-type	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	mm inch	mm inch	flange mm in	web mm in	kg/m lbs/ft	kg/m <sup>2</sup> lb/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
PZC 13	1.300	20.760	708	319	9.5	9.5	75.1	106.0	1.71
	24.2	152.0	27.88	12.56	0.375	0.375	50.4	21.7	5.60
PZC 14	1.400	22.440	708	320	10.7	10.7	81.8	115.5	1.71
	26.0	164.3	27.88	12.60	0.420	0.420	55.0	23.7	5.60
PZC 18	1.800	34.890	635	387	9.5	9.5	75.1	118.2	1.71
	33.5	255.5	25.00	15.25	0.375	0.375	50.4	24.2	5.60
PZC 19	1.945	37.780	635	388	10.7	10.7	81.8	128.8	1.71
	36.1	276.6	25.00	15.30	0.420	0.420	55.0	26.4	5.60
PZC 25	2.455	55.190	708	449	12.3	14.2	103.3	145.9	1.87
	45.7	404.1	27.88	17.66	0.485	0.560	69.4	29.9	6.15
PZC 26	2.600	58.460	708	450	13.3	15.2	110.0	155.4	1.87
	48.4	428.1	27.88	17.70	0.525	0.600	73.9	31.8	6.15
PZC 28	2.755	62.150	708	451	14.5	16.4	117.7	166.1	1.87
	51.3	455.1	27.88	17.75	0.570	0.645	79.0	34.0	6.15
PZC 37	3.680	98.270	572	534	12.4	14.3	103.6	181.2	1.87
	68.5	719.6	22.50	21.02	0.488	0.563	69.6	37.1	6.15
PZC 39	3.889	104.100	572	535	13.3	15.2	110.2	192.8	1.87
	72.3	762.1	22.50	21.05	0.525	0.600	74.0	39.5	6.15
PZC 41	4.090	109.700	572	536	14.2	16.2	116.6	204.1	1.87
	76.1	803.6	22.50	21.09	0.560	0.636	78.4	41.8	6.15

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness		Weight	Weight	Coating*
Z-type	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	mm inch	mm inch	flange mm in	web mm in	kg/m lbs/ft	kg/m <sup>2</sup> lb/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
H 1707	1.735	36.435	700	420	8.7	8.5	73.2	104.6	1.92
	32.3	266.8	27.56	16.54	0.343	0.335	49.2	21.4	6.30
H 1807	1.800	37.800	700	420	9.2	9.0	76.5	109.3	1.92
	33.5	276.8	27.56	16.54	0.362	0.354	51.4	22.4	6.30
H 1907	1.865	39.165	700	420	9.7	9.5	79.7	113.9	1.92
	34.7	286.8	27.56	16.54	0.382	0.375	53.6	23.3	6.30
H 2007	1.945	40.790	700	420	10.3	10.1	83.6	119.4	1.92
	36.2	298.7	27.56	16.54	0.406	0.398	56.2	24.5	6.30
H 2407	2.450	45.070	700	440	11.0	11.0	95.5	136.4	2.02
	45.8	330.0	27.56	17.32	0.433	0.433	64.2	27.9	6.62
H 2507	2.525	55.550	700	440	11.5	11.5	99.0	141.4	2.02
	47.0	406.8	27.56	17.32	0.453	0.453	66.5	29.0	6.62
H 2607	2.600	57.200	700	440	12.0	12.0	102.3	146.2	2.02
	48.4	418.9	27.56	17.32	0.472	0.472	68.7	29.9	6.62
H 2707	2.705	59.520	700	440	12.7	12.7	107.1	153.0	2.02
	50.3	435.9	27.56	17.32	0.500	0.500	72.0	31.3	6.62
H 2807	2.765	60.830	700	440	13.1	12.1	109.7	156.7	2.02
	51.4	445.4	27.56	17.32	0.516	0.516	73.7	32.1	6.62
H 3607	3.600	90.000	700	500	16.8	10.8	117.2	167.5	2.10
	67.0	659.1	27.56	19.69	0.661	0.425	78.8	34.3	6.89
H 3707	3.695	92.400	700	500	17.4	11.4	121.6	173.7	2.10
	68.7	667.5	27.56	19.69	0.685	0.449	81.7	35.6	6.89
H 3807	3.800	95.000	700	500	18.0	12.0	125.9	179.8	2.10
	70.7	695.7	27.56	19.69	0.709	0.472	84.6	36.8	6.89
H 3907	3.925	98.125	700	500	18.7	12.7	130.7	186.8	2.10
	73.0	718.6	27.56	19.69	0.736	0.500	87.8	38.3	6.89
H 4007	3.980	99.500	700	500	19.0	13.0	132.9	189.8	2.10
	74.0	728.6	27.56	19.69	0.748	0.512	89.3	38.9	6.89

\* Coating area m<sup>2</sup> per m single pile, both sides





# Cold rolled Z-sections



## Our cold rolled Z-sections.

### Our cold rolled Z-sections

We have a wide range of cold rolled Z-sections available. From really light sections up to heavy sections with section modules over 5020 cm<sup>3</sup>/m. We offer thicknesses from 5 - 16 mm and we can roll sheet piles up to 24 meter in length. Production in accordance with EN10249 or ASTM tolerances.

### Looking for a specific section?

If the project asks for specific dimensions and the section you are looking for is not in the list, please contact us and tell us your requirements so that our engineers can work on a solution that suits your needs.

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating Z-side
Z-type	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	mm inch	mm inch	mm inch	kg/m lbs/ft	kg/m <sup>2</sup> lb/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
IBZ 6-800	638	9.505	800	300	6.0	48.5	62.0	1.92
	11.9	69.4	31.50	11.81	0.236	32.6	12.7	6.30
IBZ 6-850	656	11.160	850	340	5.0	42.8	50.4	2.03
	12.2	81.5	33.46	13.39	0.197	28.8	10.3	6.67
IBZ 7-850	714	12.034	850	340	6.0	51.3	60.6	2.03
	13.3	87.8	33.36	13.39	0.236	34.5	12.4	6.66
IBZ 7-725	730	10.727	725	300	6.0	45.0	60.4	1.78
	13.6	78.3	28.54	11.81	0.236	30.2	12.4	5.84
IBZ 8-725	846	11.540	725	271	7.0	52.0	71.7	1.76
	15.7	84.2	28.54	10.67	0.276	34.9	14.7	5.79
IBZ 12-770	1245	21430	770	344	8.5	72.6	94.0	2.03
	23.2	156.4	30.31	13.54	0.335	48.8	19.3	6.66
IBZ 13-770	1300	22360	770	344	9.0	76.1	99.0	2.01
	24.2	163.2	30.31	13.54	0.354	51.1	20.3	6.59
IBZ 14-770	1355	23300	770	345	9.5	79.5	103.0	1.99
	25.2	170.1	30.31	13.58	0.375	53.4	21.1	6.52
IBZ 17-700	1.661	34.706	700	418	8.0	69.1	91.7	2.05
	30.9	253.4	27.56	16.46	0.315	46.4	18.8	6.73
IBZ 18-700	1800	37800	700	420	9.0	76.5	109.0	2.02
	33.5	275.9	27.56	16.54	0.354	51.4	22.3	6.62
IBZ 18-850	1.823	42.885	850	470	9.5	90.6	106.6	2.27
	33.9	313.1	33.46	18.50	0.375	60.9	21.8	7.43
IBZ 19-700	1870	39380	700	421	9.5	80.0	114.0	2.00
	34.8	287.5	27.56	16.57	0.375	53.8	23.3	6.56
IBZ 20-850	2.000	46.862	850	470	10.0	96.0	112.9	2.28
	37.2	342.1	33.46	18.50	0.394	64.5	23.1	7.48
IBZ 26-700	2.600	59.720	700	460	12.2	102.9	147.0	2.00
	48.4	436.0	27.56	18.11	0.480	69.1	30.1	6.57
IBZ 26-700*	2.613	62.732	700	480	11.0	98.8	141.0	2.13
	48.6	457.9	27.56	18.90	0.433	66.4	28.9	7.00
IBZ 28-700	2.760	63.620	700	440	13.2	110.0	157.0	1.98
	51.3	464.4	27.56	17.32	0.520	73.9	32.2	6.49
IBZ 33-700	3.285	82.929	700	500	12.0	76.7	163.0	2.45
	61.0	598.7	27.56	19.74	0.473	91.7	33.4	8.10
IBZ 36-700	3.600	89.668	700	520	12.5	118.6	169.4	2.40
	67.0	656.6	27.56	20.47	0.492	79.7	34.7	7.87
IBZ 37-700	3.710	92.415	700	499	12.5	124.5	177.8	2.37
	69.0	674.6	27.56	19.65	0.492	83.7	36.4	7.76
IBZ 39-700	3.905	97.500	700	560	13.5	133.0	190.0	2.34
	72.6	711.8	27.56	22.05	0.531	89.4	38.9	7.68
IBZ 42-700	4.288	119.802	700	560	14.0	140.0	200.0	2.38
	79.8	874.6	27.56	22.05	0.551	94.1	41.0	7.79
IBZ 46-580	4.600	110.465	580	540	15.0	133.0	229.0	2.11
	85.6	806.4	22.83	21.26	0.591	89.4	46.9	6.91
IBZ 48-580	4.810	115.690	580	570	15.5	139.6	240.7	2.14
	89.5	844.5	22.83	22.44	0.610	93.8	49.3	7.02
IBZ 50-580	5.020	121.070	580	580	16.0	146.8	253.0	2.18
	93.4	883.8	22.83	22.83	0.630	98.6	51.8	7.15





# Cold rolled Z-sections

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating
Z-type	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	mm inch	mm inch	mm inch	kg/m lbs/ft	kg/m <sup>2</sup> lb/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
SCZ 14	772	9.808	723.9	254	6.4	50.3	69.5	1.86
	14.4	71.8	28.50	10.00	0.250	33.8	14.2	6.10
SCZ 16	847	10.751	723.9	254	7.0	55.6	76.8	1.86
	15.8	78.7	28.50	10.00	0.276	37.4	15.7	6.10
SCZ 17	906	11.661	760.8	257.3	8.0	65.3	85.8	1.93
	16.9	85.4	29.95	10.13	0.315	43.9	17.6	6.32
SCZ 18	960	12.356	760.8	257.3	8.5	69.5	91.3	1.93
	17.9	90.5	29.95	10.13	0.335	46.7	18.7	6.32
SCZ 19	1.008	12.962	760.8	257.3	9.0	73.4	96.4	1.93
	18.7	94.9	29.95	10.13	0.354	49.3	19.8	6.32
SCZ 21	1067	13.731	760.8	257.3	9.5	77.7	102.1	1.93
	19.9	100.6	29.95	10.13	0.375	51.2	20.9	6.32
SCZ 22	1600	27.200	610	340	8.0	65.2	106.9	1.80
	29.8	199.2	24.02	13.39	0.315	43.8	21.9	5.91
SCZ 23	1700	28.880	610	340	8.5	69.7	114.0	1.80
	31.6	211.6	24.02	13.39	0.335	46.8	23.4	5.91
SCZ 25	1800	30.600	610	340	9.0	73.8	121.0	1.80
	33.5	224.1	24.02	13.39	0.354	49.6	24.8	5.91
SCZ 26	1900	32.300	610	340	9.5	77.8	128.0	1.80
	35.3	236.5	24.02	13.39	0.375	52.3	26.2	5.91
SCZ 29	2100	35.700	610	340	10.5	86.2	141.0	1.80
	39.1	261.4	24.02	13.39	0.413	57.9	28.9	5.91
SCZ 30	2200	37.400	610	340	11.0	90.3	148.0	1.80
	40.9	273.9	24.02	13.39	0.433	60.7	30.3	5.91

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating
SKZ 20	1.704	34.618	723.9	406.4	8.0	71.8	99.2	2.32
	31.7	253.5	28.50	16.00	0.315	48.2	20.3	7.60
SKZ 22	1.797	36.515	723.9	406.4	8.5	76.3	105.5	2.32
	33.4	267.4	28.50	16.00	0.335	51.3	21.6	7.60
SKZ 23	1.915	38.905	723.9	406.4	9.0	80.7	111.4	2.32
	35.6	284.9	28.50	16.00	0.354	54.2	22.8	7.60
SKZ 24	2.028	41.213	723.9	406.4	9.5	85.5	118.1	2.32
	37.7	301.8	28.50	16.00	0.375	57.4	24.2	7.60
SKZ 25	2.158	43.851	723.9	406.4	10.1	90.9	125.6	2.32
	40.1	321.1	28.50	16.00	0.399	51.1	25.7	7.60
SKZ 31	2.772	63.369	723.9	457.2	11.4	109.9	151.8	2.46
	51.6	464.1	28.50	18.00	0.450	73.8	31.1	8.06
SKZ 33	2.951	67.462	723.9	457.2	12.1	115.5	159.6	2.46
	54.9	494.0	28.50	18.00	0.475	77.6	32.7	8.06
SKZ 34	3.098	70.821	723.9	457.2	12.7	121.2	167.4	2.46
	57.6	518.6	28.50	18.00	0.500	81.4	34.3	8.06
SKZ 36	3.264	74.619	723.9	457.2	13.6	129.2	178.5	2.46
	60.7	546.4	28.50	18.00	0.535	86.8	36.6	8.06
SKZ 38	3.350	76.588	723.9	457.2	14.0	132.4	182.9	2.46
	62.3	560.9	28.50	18.00	0.550	89.0	37.5	8.06

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating
VKZ 1240-8	1.240	20.601	685	330	8.0	64.0	93.4	1.90
	23.1	150.4	26.97	12.99	0.315	43.0	19.1	6.23
VKZ 1720-10	1.720	30.964	637	360	10.0	80.0	125.7	1.90
	32.7	216.7	25.08	14.17	0.394	53.8	25.8	6.23
VKZ 1771-9	1.771	39.856	882	450	9.0	90.0	102.0	2.38
	33.6	279.0	34.72	17.72	0.354	60.5	20.9	7.79
VKZ 1813-9	1.813	36.264	615	400	9.0	72.0	117.4	1.90
	34.4	253.8	24.21	15.75	0.394	48.4	24.1	6.23
VKZ 1832-9	1.832	41.227	871	450	9.0	90.0	103.3	2.38
	34.8	288.6	34.29	17.72	0.354	60.5	21.2	7.79
VKZ 2628-10	2.628	70.289	776	535	10.0	100.0	128.9	2.38
	49.9	492.0	30.55	21.06	0.394	67.2	26.4	7.79
VKZ 3082-10	3.082	88.594	715	575	10.0	100.0	139.8	2.28
	58.6	620.2	28.15	22.64	0.394	67.2	28.7	7.79

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating
Z-type	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	mm inch	mm inch	mm inch	kg/m lbs/ft	kg/m <sup>2</sup> lb/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
Z 60	667	7.400	610	220	6.0	42.0	68.8	1.66
	12.4	54.2	24.0	8.66	0.236	28.2	14.1	5.45
Z 65	720	8.010	610	220	6.5	45.5	74.7	1.66
	13.4	58.7	24.0	8.68	0.256	30.6	15.3	5.44
Z 70	774	8.630	610	221	7.0	49.1	80.6	1.67
	14.4	63.2	24.0	8.70	0.276	33.0	16.5	5.46
Z 75	839	9.250	610	221	7.5	52.4	85.9	1.66
	15.6	67.7	24.0	8.72	0.295	35.2	17.6	5.45
EZ 80	1.100	15.000	635	273	8.0	61.2	96.4	1.82
	20.5	110	25.0	10.75	0.315	41.1	19.8	5.96
EZ 88	1.200	16.500	635	274	8.75	66.8	105.0	1.81
	22.4	121	25.0	10.78	0.344	44.9	21.6	5.95
EZ 95	1.310	17.900	635	275	9.5	72.8	115.0	1.82
	24.4	131	25.0	10.81	0.375	48.9	23.5	5.97
XZ 85	1.630	29.000	635	357	8.5	69.0	109.0	1.93
	30.2	212	25.0	14.06	0.335	46.4	22.2	6.32
XZ 90	1.710	30.800	635	358	9.0	72.7	115.0	1.92
	31.8	225	25.0	14.09	0.354	48.9	23.5	6.29
XZ 95	1.800	32.400	635	359	9.5	76.9	121.0	1.92
	33.5	237	25.0	14.12	0.375	51.7	24.8	6.31
XZ 100	1.900	34.200	635	360	10.0	80.7	127.0	1.92
	35.3	250	25.0	14.15	0.394	54.2	26.0	6.29
XZ 105	2.000	35.900	635	360	10.5	84.7	133.0	1.92
	71.1	263	25.0	14.17	0.413	56.9	27.3	6.28
JZ 112	2.430	51.100	673	418	11.2	101.0	151.0	2.14
	45.3	374	26.0	16.44	0.441	68.2	30.9	7.02
JZ 120	2.610	54.700	673	418	12.0	190.0	161.0	2.16
	48.5	401	26.0	16.47	0.472	73.0	33.0	7.08
JZ 127	2.760	57.900	673	419	12.7	115.0	171.0	2.15
	51.4	424	26.0	16.50	0.500	77.3	35.0	7.05

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating
MSZ 14-340	1.145	17.968	878	310	8.6	80.5	91.7	2.30
	21.3	131.6	34.56	12.20	0.340	54.1	18.8	7.54
MSZ 14-350	1.178	18.504	878	310	8.9	82.9	94.4	2.30
	21.9	135.5	34.56	12.20	0.350	55.7	19.3	7.54
MSZ 14-375	1.257	19.719	878	310	9.5	88.8	101.2	2.30
	23.4	144.9	34.56	12.20	0.375	59.7	20.7	7.54
MSZ 15-340	1.412	25.607	833	358	8.6	80.5	96.7	2.30
	26.3	187.5	32.79	14.11	0.340	54.1	19.8	7.54
MSZ 15-350	1.455	26.391	833	358	8.9	82.9	99.5	2.30
	27.1	193.3	32.79	14.11	0.350	55.7	20.4	7.54
MSZ 15-375	1.554	28.272	833	358	9.5	88.8	106.6	2.30
	28.9	207.0	32.79	14.11	0.375	59.7	21.8	7.54
MSZ 16-350	1.706	34.119	789	395	8.9	82.9	105.1	2.30
	31.7	249.9	31.05	15.54	0.350	55.7	21.5	7.54
MSZ 16-375	1.825	36.580	789	395	9.5	88.8	112.6	2.30
	34.0	267.9	31.05	15.54	0.375	59.7	23.1	7.54
MSZ 16-406	1.976	39.703	789	395	10.3	96.1	121.9	2.30
	36.8	290.7	31.05	15.54	0.406	64.6	25.0	7.54
MSZ 17-350	1.895	40.061	755	417	8.9	82.9	109.8	2.30
	35.3	293.4	29.71	16.43	0.350	55.7	22.5	7.54
MSZ 17-375	2.027	42.957	755	417	9.5	88.8	117.7	2.30
	37.7	314.6	29.71	16.43	0.375	59.7	24.1	7.54
MSZ 17-406	2.194	46.570	755	417	10.3	96.1	127.4	2.30
	40.0	341.0	29.71	16.43	0.406	64.6	26.1	7.54
MSZ 18-350	2.075	45.893	721	437	8.9	82.9	115.0	2.30
	38.6	336.1	28.38	17.20	0.350	55.7	23.6	7.54
MSZ 18-375	2.220	49.162	721	437	9.5	88.8	123.2	2.30
	41.3	360.0	28.38	17.20	0.375	59.7	25.2	7.54
MSZ 18-406	2.403	53.364	72					



COMPARISON BETWEEN OUR IBO SECTIONS AND HOT ROLLED SECTIONS				
Hot Rolled		IBO - Cold Formed		Weight Advantage IBO
PZ 22	>	0.315" - IBO 18.2	>	18.3 %
	>	0.354" - IBO 19.1	>	12.8 %
	>	0.394" - IBO 26.5	>	2.3 %
PZ 27	>	0.354" - IBO 33.6	>	24.0 %
	>	0.394" - IBO 37.8	>	9.4 %
PZ 35	>	0.394" - IBO 52.9	>	10.8 %

In the table below you can find some of the pre-designed IBO sheet pile sections. Always ask one of our sales representatives for the best available option.

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight single	Weight	Coating 2-side
Z-type	cm <sup>2</sup> /m in <sup>2</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	mm inch	mm inch	mm inch	kg/m lbs/ft	kg/m <sup>2</sup> lb/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
IBO - 7.9	425	4.210	1.160	181	6.0	72.0	62.1	2.85
	7.9	30.7	45.67	7.13	0.236	48.4	12.7	9.35
IBO - 8.1	433	3.908	1.520	175	6.0	86.4	56.8	3.42
	8.1	28.5	59.84	6.89	0.236	58.1	11.6	11.22
IBO - 8.6	461	4.806	1.476	205	5.0	72.0	48.8	3.42
	8.6	35.1	58.11	8.07	0.197	48.4	10.0	11.22
IBO - 9.2	496	6.144	1.165	245	5.0	60.0	51.5	2.85
	9.2	44.9	45.87	9.65	0.197	40.3	10.5	9.35
IBO - 10.1	541	6.025	1.510	220	6.0	86.4	57.2	3.42
	10.1	44.0	59.45	8.66	0.236	58.1	11.7	11.22
IBO - 10.8	580	5.473	1.613	175	8.0	128.0	79.4	3.80
	10.8	40.0	63.50	6.89	0.315	86.0	16.3	12.46
IBO - 11.5	620	9.347	1.643	300	5.0	80.0	48.7	3.80
	11.5	68.2	64.68	11.81	0.197	53.8	10.0	12.46
IBO - 12.7	682	8.973	1.448	262	7.0	100.8	69.6	3.42
	12.7	65.5	57.01	10.31	0.276	67.7	14.3	11.22
IBO - 13.6	730	11.895	1.549	300	6.0	96.0	62.0	3.80
	13.6	86.8	60.98	11.81	0.236	64.5	12.7	12.46
IBO - 14.4	772	13.046	1.375	320	6.0	86.4	62.8	3.42
	14.4	95.2	54.13	12.60	0.236	58.1	12.9	11.22
IBO - 15.5	833	11.976	1.600	280	7.0	112.0	70.0	3.80
	15.5	87.4	62.99	11.02	0.276	75.3	14.3	12.46
IBO - 16.2	871	17.940	1.466	410	5.0	80.0	54.6	3.80
	16.2	131.0	57.72	16.14	0.197	53.8	11.2	12.46
IBO - 16.3	878	13.016	1.375	290	8.0	115.2	83.8	3.42
	16.3	95.0	54.13	11.42	0.315	77.4	17.2	11.22
IBO - 17.4	935	14.733	1.500	300	7.0	112.0	74.7	3.80
	17.4	107.6	59.06	11.81	0.276	75.3	15.3	12.46
IBO - 18.1	973	17.715	1.494	360	6.0	96.0	64.3	3.80
	18.1	129.3	58.82	14.17	0.236	64.5	13.2	12.46
IBO - 18.2	978	16.003	1.314	300	8.0	115.2	87.7	3.42
	18.2	116.8	51.73	11.81	0.315	77.4	18.0	11.22
IBO - 22.6	1.217	19.814	1.489	325	8.0	128.0	86.0	3.80
	22.6	144.6	58.62	12.80	0.315	86.0	17.6	12.46
IBO - 23.3	1.250	22.403	1.413	335	8.0	128.0	90.6	3.80
	23.3	163.5	55.63	13.19	0.315	86.0	18.6	12.46
IBO - 23.5	1.261	24.783	1.449	258	9.0	144.0	99.4	3.80
	23.5	180.9	57.05	10.16	0.354	96.8	20.4	12.46
IBO - 26.8	1.443	28.410	1.421	380	9.0	144.0	101.3	3.80
	26.8	207.4	55.94	14.96	0.354	96.8	20.7	12.46
IBO - 29.9	1.607	34.314	1.357	425	8.0	128.0	94.3	3.80
	29.9	250.5	53.43	16.73	0.315	86.0	19.3	12.46
IBO - 31.0	1.669	31.580	886	366	10.0	120.0	135.6	2.85
	31.0	230.5	34.88	14.41	0.394	80.6	27.8	9.35
IBO - 32.1	1.723	36.508	1.345	423	9.0	144.0	107.1	3.80
	32.0	266.5	52.95	16.65	0.354	96.8	21.9	12.46
IBO - 33.6	1.805	40.771	1.278	450	8.0	128.0	100.2	3.80
	33.6	297.6	50.31	17.72	0.315	86.0	20.5	12.46
IBO - 52.9	2.845	82.164	1.050	550	10.0	160.0	152.4	3.80
	52.9	599.8	41.34	21.65	0.394	107.5	31.2	12.46

## Our cold formed sheet piles.

Our cold formed sheet piles are designed and produced according to the customers specific demands.

We design a shape and section dimensions that work best for every specific project.

The IBO sheet piles are an European product available in thicknesses from 5 - 16 mm. Production in accordance with DIN EN102049 or ASTM tolerances in Grade A328 or A572 Grade 50.

### Advantages:

- Less material = lower weight kg/m<sup>2</sup>
- Larger effective width = fewer interlock seals
- Less sheet piles per wall m = Less handling
- Suitable for smaller quantities
- Short delivery times
- Alternative to tropical hardwood or vinyl sheet piles



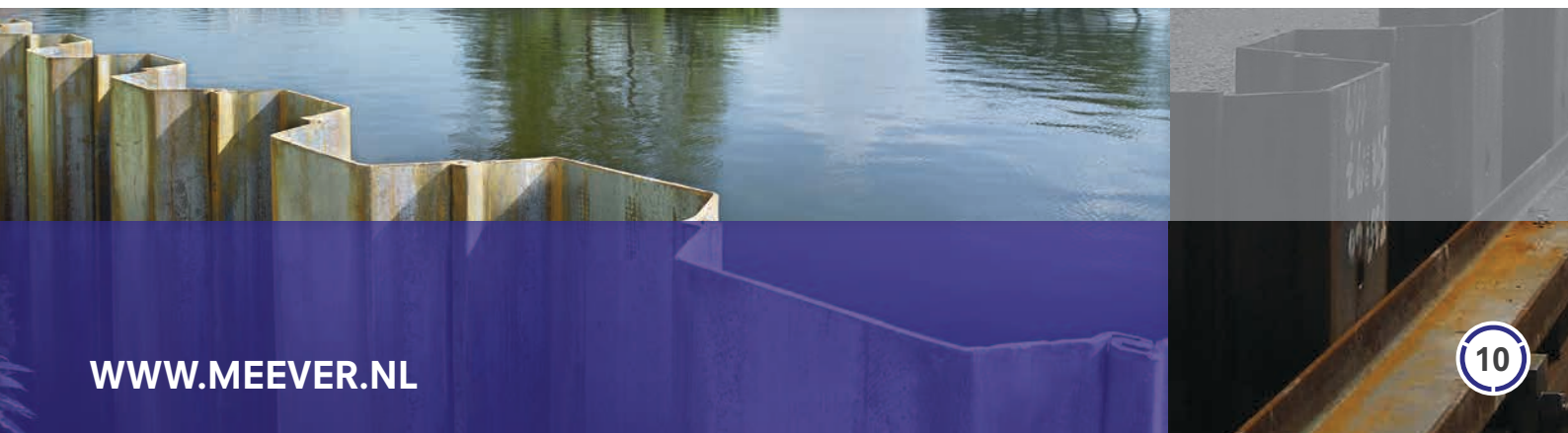


Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating
metrio	cm <sup>3</sup> /m	cm <sup>4</sup> /m	mm	mm	mm	kg/m	kg/m <sup>2</sup>	m <sup>2</sup> /m
imperial	in <sup>3</sup> /ft	in <sup>4</sup> /ft	inch	inch	inch	inch/ft	lb/ft <sup>2</sup>	ft <sup>2</sup> /ft
MO-5,34	287	2.402	905	170	4.0	37.7	41.1	2.21
	5.3	17.5	35.63	6.69	0.157	25.3	8.4	7.26
MO-6,10	328	2.417	700	147	5.0	38.6	55.2	1.81
	6.1	17.6	27.56	5.79	0.197	25.9	11.3	5.95
MO-7,29	392	2.910	700	148	6.0	46.2	66.0	1.81
	7.3	21.2	27.56	5.83	0.236	31.0	13.5	5.94
MO-8,31	447	3.385	700	149	7.0	53.2	76.0	1.79
	8.3	24.7	27.56	5.87	0.276	35.8	15.6	5.86
MO-9,45	508	3.872	700	150	8.0	61.6	88.0	1.81
	9.4	28.3	27.56	5.91	0.315	41.4	18.0	5.94
MO-11,38	612	7.777	921	254	6.0	59.3	64.4	2.32
	11.4	56.8	36.26	10.00	0.236	39.8	13.2	7.62
MO-16,59	892	14.361	700	320	5.5	52.9	75.6	2.26
	16.6	104.8	27.56	12.60	0.217	35.5	15.5	7.41
MO-16,59	1.436	21.587	1.340	303	9.5	141.7	106.5	3.51
	26.7	157.6	52.76	11.93	0.375	95.2	21.8	11.50

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating
metrio	cm <sup>3</sup> /m	cm <sup>4</sup> /m	mm	mm	mm	kg/m	kg/m <sup>2</sup>	m <sup>2</sup> /m
imperial	in <sup>3</sup> /ft	in <sup>4</sup> /ft	inch	inch	inch	inch/ft	lb/ft <sup>2</sup>	ft <sup>2</sup> /ft
SKL 9	137	615	550	90	4.0	21.1	42.0	1.29
	2.6	4.5	21.65	3.54	0.157	15.5	8.6	4.23
SKL 10	155	695	550	90	4.5	25.9	47.0	1.29
	2.9	5.1	21.65	3.54	0.177	17.4	9.6	4.23
SKL 12	190	850	550	90	5.5	31.4	57.0	1.29
	3.5	6.2	21.65	3.54	0.217	21.1	11.7	4.23
SKS 11	341	2.550	700	150	5.0	38.2	55.0	1.79
	6.3	18.7	27.56	5.91	0.197	25.7	11.3	5.87
SKS 13	375	2.810	700	150	5.5	42.0	60.0	1.79
	7.0	20.5	27.56	5.91	0.217	28.2	12.3	5.87
SKS 14	433	3.247	700	150	6.4	48.5	69.27	1.79
	8.1	23.8	27.56	5.91	0.250	32.6	14.2	5.87
SKS 16	478	3.585	700	150	7.0	53.0	76.0	1.79
	8.9	26.3	27.56	5.91	0.276	35.6	15.6	5.87

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness	Weight	Weight	Coating	
metrio	cm <sup>3</sup> /m	cm <sup>4</sup> /m	mm	mm	mm	kg/m	kg/m <sup>2</sup>	m <sup>2</sup> /m	
imperial	in <sup>3</sup> /ft	in <sup>4</sup> /ft	inch	inch	inch	inch/ft	lb/ft <sup>2</sup>	ft <sup>2</sup> /ft	
FSP 10.0	90	350	500	88	10.0	10.0	64.6	129.2	1.19
	1.7	2.6	19.69	3.46	0.394	0.394	43.4	26.5	3.90
FSP 11.0	90	350	500	88	11.0	11.0	67.8	135.6	1.19
	1.7	2.6	19.69	3.46	0.433	0.433	45.6	27.8	3.90
FSP 12.0	90	360	500	88	12.0	12.0	71.1	142.2	1.19
	1.7	2.6	19.69	3.46	0.472	0.472	47.8	29.1	3.90
FSP 12.7	92	360	500	88	12.7	12.7	73.4	146.0	1.19
	1.7	2.6	19.69	3.46	0.500	0.500	49.3	29.9	3.90

Section	Sec.mod.	Mom.of In.	Width	Height	Thickness		Weight	Weight	Coating
					flange	web			
metrio	cm <sup>3</sup> /m	cm <sup>4</sup> /m	mm	mm	mm	mm	kg/m	kg/m <sup>2</sup>	m <sup>2</sup> /m
imperial	in <sup>3</sup> /ft	in <sup>4</sup> /ft	inch	inch	inch	inch	lb/ft	lb/ft <sup>2</sup>	ft <sup>2</sup> /ft
ML IIIIn	1600	23,206	400	290	13.0	9.0	62.2	155.5	1.38
	29.8	169.9	15.75	11.42	0.512	0.354	41.8	31.8	4.53
ML 601	744	11,496	600	310	7.5	6.4	46.3	77.2	1.60
	13.8	84.2	23.62	12.20	0.295	0.252	31.1	15.8	5.25
ML 602A	806	12,499	600	310	8.0	7.3	51.3	85.5	1.60
	15	91.5	23.62	12.20	0.315	0.287	34.5	17.5	5.25
ML 602	842	13,046	600	310	8.4	7.6	54.3	89.0	1.60
	15.7	95.5	23.62	12.20	0.331	0.299	36.5	18.2	5.25
ML 603A	1,138	18,205	600	320	9.0	8.0	61.5	102.5	1.72
	21.2	133.3	23.62	12.60	0.354	0.315	41.3	21	5.64
ML 603	1,200	19,199	600	320	9.6	8.2	64.2	107.0	1.69
	22.3	140.6	23.62	12.60	0.378	0.323	43.1	21.9	5.54
ML 603K	1,241	19,853	600	320	9.8	9.0	67.8	113.0	1.73
	23.1	145.4	23.62	12.60	0.386	0.354	45.6	23.1	5.68
ML 603Z	1,300	20,930	600	322	10.0	10.0	72.1	120.2	1.73
	24.2	153.3	23.62	12.68	0.394	0.394	48.5	24.6	5.68
ML 604A	1,564	30,495	600	390	9.6	8.8	71.0	118.3	1.85
	29.1	225.3	23.62	15.35	0.378	0.346	47.7	24.2	6.07
ML 604	1,618	31,548	600	390	10.0	9.0	73.1	121.8	1.85
	30.1	231	23.62	15.35	0.394	0.354	49.1	24.9	6.07
ML 605A	1,821	38,243	600	420	10.7	9.0	76.5	127.5	1.89
	33.9	280	23.62	16.54	0.421	0.354	51.4	26.1	6.20
ML 605	2,021	42,433	600	420	12.3	9.2	82.1	136.8	1.89
	37.6	310.7	23.62	16.54	0.484	0.362	55.2	28.0	6.20
ML 605K	2,068	43,435	600	420	12.4	10.0	85.7	142.8	1.89
	38.5	318.1	23.62	16.54	0.488	0.394	57.6	29.2	6.20
ML 606A	2,205	47,402	600	430	13.4	9.0	85.4	142.3	1.90
	41	347.1	23.62	16.93	0.528	0.354	57.4	29.1	6.23
ML 606	2,502	53,785	600	430	15.8	9.3	93.9	156.5	1.89
	46.5	393.9	23.62	16.93	0.622	0.366	63.1	32.1	6.20
ML 607	3,200	72,320	600	452	19.0	10.6	114.0	190.0	1.91
	59.5	529.6	23.62	17.80	0.748	0.417	76.6	38.9	6.26
ML 703	1,210	24,200	700	400	9.5	8.0	67.5	96.4	1.90
	22.5	177.5	27.56	15.75	0.375	0.315	45.4	19.7	6.23
ML 716	1,600	35,200	700	440	10.2	9.5	80.5	115.0	1.96
	29.8	257.8	27.56	17.32	0.402	0.375	54.1	23.6	6.43
ML 720	2,000	45,000	750	450	12.0	10.0	96.4	128.5	2.08
	37.2	329.5	29.53	17.72	0.472	0.394	64.8	26.3	6.82
ML 504	1,504	25,575	500	340	12.0	9.0	66.6	133.2	1.56
	28	187.3	19.68	13.39	0.472	0.354	44.8	27.3	5.12
ML 507A	2,800	61,185	500	437	17.5	10.2	92.3	184.6	1.73
	52.1	448	19.68	17.20	0.689	0.402	62.0	37.8	5.68
M 22	2,200	39,500	400	365	14.8	10.0 - 8.0	74.0	185.0	1.26
	40.9	289.3	15.75	14.37	0.583	0.394 - 0.315	49.7	37.9	4.13
M 32	3,200	69,415	500	436	21.0	14.0 - 9.5	104.6	209.2	1.19
	59.5	508.3	19.68	17.17	0.827	0.551 - 0.374	70.3	42.8	3.90

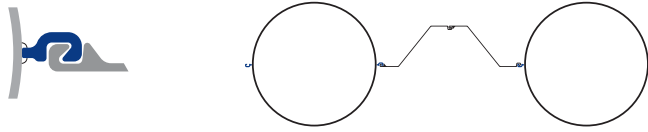




# Combined wall pipes



Combined wall with pipes and Z-Section with Connector LPB 100



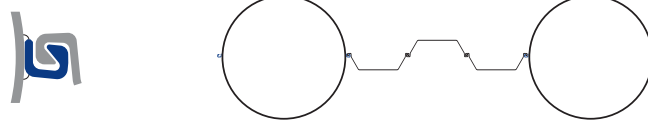
Pipe Pile Diameter x WT	Sheet Pile double	System Width	Section Modules	Moment of Inertia	sheet pile length in % to pipe length			Coating both sides
					100%	80%	60%	
mm inch	Z- section	mm inch	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
914.4 x 11.1 36 x 0.438	MZ 19-700	2378	3360	177403	179.2	164.2	149.2	6.6
		93.62	62.5	1299	36.7	33.6	30.5	21.6
1067 x 12.7 42 x 0.500	MZ 19-700	2530	4593	272215	201.0	186.9	172.8	7.1
		99.62	85.4	1993	41.2	38.3	35.4	23.2
1219 x 12.7 48 x 0.500	MZ 19-700	2683	5516	366235	207.4	194.1	180.8	7.6
		105.62	102.6	2682	42.5	39.8	37.0	24.8
914.4 x 12.7 36 x 0.500	MZ 26-700	2378	4005	216868	213.1	194.2	175.4	6.7
		93.62	74.5	1588	43.7	39.8	35.9	22.1
1067 x 15.9 42 x 0.625	MZ 26-700	2530	5812	348961	251.3	233.5	215.8	7.2
		99.62	108.1	2555	51.5	47.8	44.2	23.7
1219 x 15.9 48 x 0.625	MZ 26-700	2683	6941	465486	259	242.5	225.8	7.7
		105.62	129.1	3409	53.1	49.7	46.2	25.2

## Pipe piles & sheet piles.

For more stiffness and bending resistance pipe piles and sheet piles are used in conjunction with each other. Pipes piles get interlocks welded on 2 sides to connect with the sheet piles which are placed in between the pipe piles. On the right some optional combinations with pipes and sheet piles. Other combinations are also available.



Combined Wall with pipes and Larssen U-section Connector L8

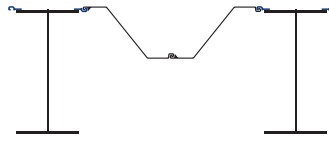


Pipe Pile Diameter x WT	Sheet Pile double	System Width	Section Modules	Moment of Inertia	sheet pile length in % to pipe length			Coating both sides
					100%	80%	60%	
mm inch	Z- section	mm inch	cm <sup>3</sup> /m in <sup>3</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
914.4 x 11.1 36 x 0.438	ML 603	2778	2781	127144	165.7	150.4	135.0	7,68
		109.4	51.7	931.1	34.0	30.8	27.6	25.2
1067 x 12.7 42 x 0.500	ML 603	2931	3942	210331	185.3	170.8	156.3	8,16
		115.4	73.3	1540.2	38.0	35.0	32.0	26.8
1219 x 12.7 48 x 0.500	ML 603	3083	4829	294359	191.7	177.8	164.0	8,64
		121.4	89.8	2155.7	231.6	213.4	195.2	28.4
914.4 x 12.7 36 x 0.500	ML 605	2778	3431	156805	197.6	178.4	159.2	8,23
		10.4	63.8	1148.4	40.5	36.6	32.6	27.0
1067 x 15.9 42 x 0.625	ML 605	2931	5088	271455	231.6	213.4	195.2	8,71
		115.4	94.6	1988.0	47.5	43.7	39.9	28.6
1219 x 15.9 48 x 0.625	ML 605	3083	6162	375573	239.5	222.3	204.9	9,19
		121.4	114.6	2750.5	49.1	45.5	41.9	30.2



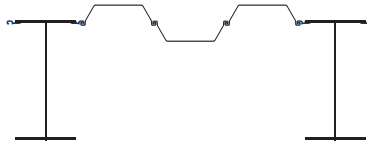


Connector LPB 180



King pile	Sheet Pile double	System Width	Section Modules	Moment of Inertia	sheet pile length in % to pipe length			Coating Waterside
					100%	80%	60%	
	Z- section	mm inch	cm <sup>2</sup> /m in <sup>2</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
MHZ 880M A	MZ 19-700	1.927	5.403	241.653	218,8	198,8	178,9	2,48
		75.87	100.5	1,769	44.81	40.72	36.64	8.12
MHZ 1080M A	MZ 19-700	1.923	7.769	444.183	251,4	231,3	211,4	2,47
		75.71	144.5	3,253	51.48	47.38	43.29	8.11
MHZ 1180M A	MZ 19-700	1.927	10.241	588.033	302,2	282,3	262,3	2,48
		75.87	190.5	4,306	61.90	57.81	53.73	8.12
MHZ 880M A	MZ 26-700	1.927	5.735	256.420	242,5	217,8	193,1	2,55
		75.87	106.7	1,878	49.67	44.61	39.56	8.37
MHZ 1080M A	MZ 26-700	1.923	8.025	458.990	275,1	250,3	225,6	2,55
		75.71	149.3	3,361	56.35	51.28	46.21	8.37
MHZ 1180M A	MZ 26-700	1.927	10.500	602.790	325,9	301,2	276,5	2,55
		75.87	195.3	4,414	66.76	61.70	56.64	8.37

Connector LPB 180



King pile	Sheet Pile double	System Width	Section Modules	Moment of Inertia	sheet pile length in % to pipe length			Coating Waterside
					100%	80%	60%	
	Z- section	mm inch	cm <sup>2</sup> /m in <sup>2</sup> /ft	cm <sup>4</sup> /m in <sup>4</sup> /ft	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	kg/m <sup>2</sup> lbs/ft <sup>2</sup>	m <sup>2</sup> /m ft <sup>2</sup> /ft
MHZ 880M A	ML 603	2.358	4.101	189.687	174,9	158,6	144,3	3,02
		92.83	77.9	1,328	35.85	32.51	29.58	9.90
MHZ 1080M A	ML 603	2.354	6.061	355.539	201,4	186,1	170,7	3,02
		92.68	115.2	2,489	41.28	38.14	35.00	9.88
MHZ 1180M A	ML 603	2.358	8.238	473.730	243,2	227,9	212,6	3,02
		92.83	156.5	3,316	49.85	46.72	43.58	9.89
MHZ 880M A	ML 605	2.358	4.454	206.003	192,8	173,9	155,0	3,30
		92.83	84.6	1,442	39.51	35.65	31.78	10.80
MHZ 1080M A	ML 605	2.354	6.340	371.872	219,3	200,4	181,5	3,29
		92.68	120.5	2,603	44.95	41.08	37.21	10.78
MHZ 1180M A	ML 605	2.358	8.522	490.035	261,1	242,2	223,3	3,30
		92.83	161.9	3,430	53.52	49.65	45.78	10.79



## H-piles & Sheet piles

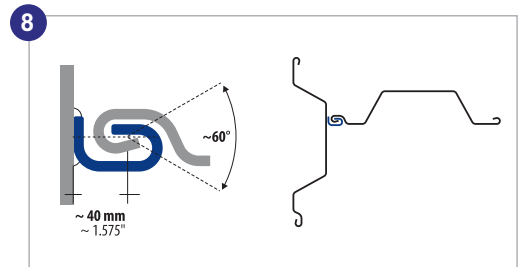
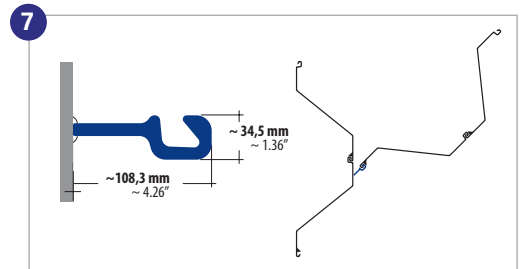
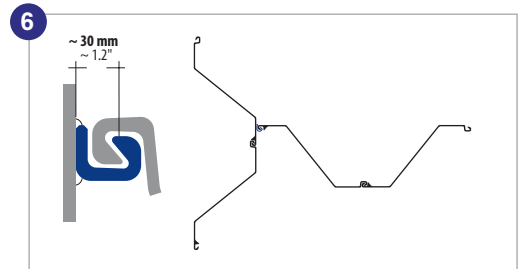
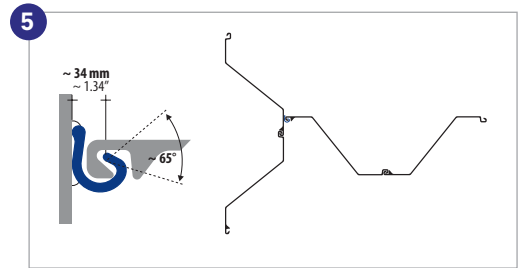
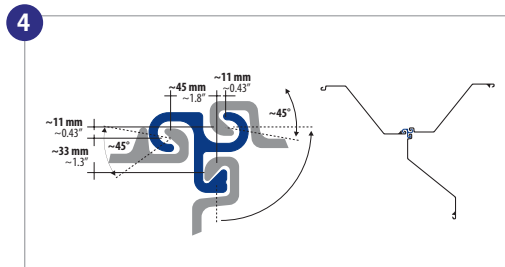
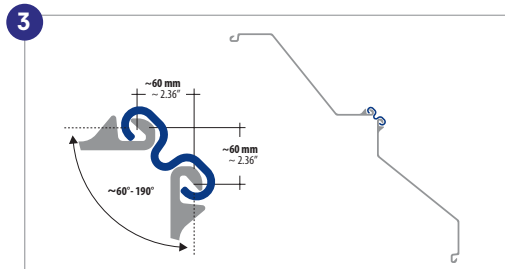
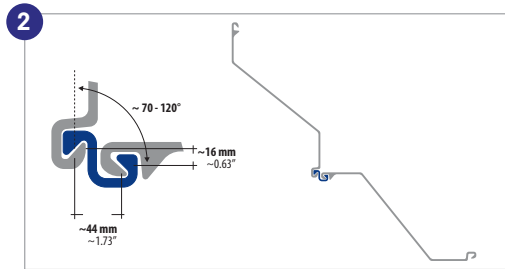
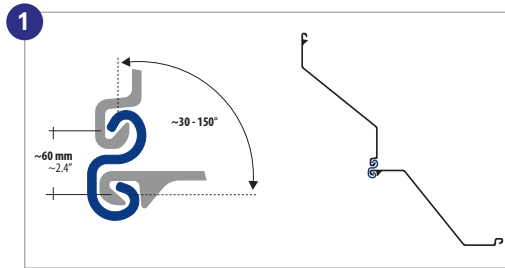
H-piles are also used in conjunction with sheet piles to achieve more stiffness and bending resistance. H-piles get interlocks welded on 2 sides of the flange to connect with the sheet piles. Below some optional combinations with H-piles and sheet piles. Other combinations are also available.



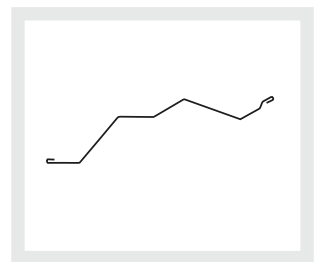
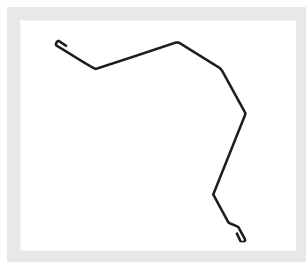
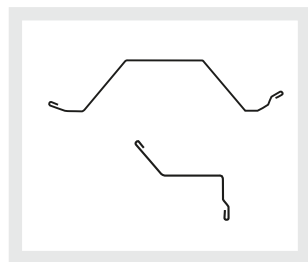


## Corner sections

## Weld-on connectors



We can also supply sheet pile sections with the required angle in them.



Meever & Meever offers several solutions for anchoring retaining walls. The right solution depends on the project. Factors to consider here are the length and depth of the sheet pile wall, the soil situation, and whether the sheet pile is temporary or permanent.

## Self drilling anchors

This is a hollow, thick-walled, central drilling rod with a drill bit at the top. The hollow rod and the drill bit allow flushing or simultaneous drilling and grouting. The system is modular, meaning that the most appropriate configuration can be put together to suit on-site circumstances and the forces that apply. Because of the coarse external trapezium shape tread the rod can be shortened or extended if necessary, to create the desired length. The trapezium shape tread also ensures optimum adhesion between the cement grout and the self drilling anchor. All parts of the system can be supplied with or without surface treatment.



## Threaded bar

These anchors are high-quality massive steel bars, which feature a coarse, rolled thread on the outside to ensure optimum adhesion between the cement grout. Installing the GTB bar anchor is done by first installing a casing (micro pile) in the ground. After the casing is brought in position the massive bar finds its place in the casing. While pulling back the casing grout cement is added to create a strong and solid anchor.



## Screw injection piles

The base of the pipe pile is a drill head which is driven into the soil by the drill motor until the required depth has been reached. Grout mortar is injected at the bottom through the drill head while drilling. This grout mortar mixes with the soil, resulting in a pile base with a minimum diameter equal to the screw blade. A major advantage of this pile system is that there is no soil stress relief and that surrounding structures do not encounter vibrations.



## Folding anchors

Folding anchors are quick and easy to install. The anchor is first driven into the ground, at any angle required, using a vibro hammer. It is then tilted using a removable pull rod. When it is in this position the folding anchor can immediately be subjected to a load. Our folding anchors are CE-certified.

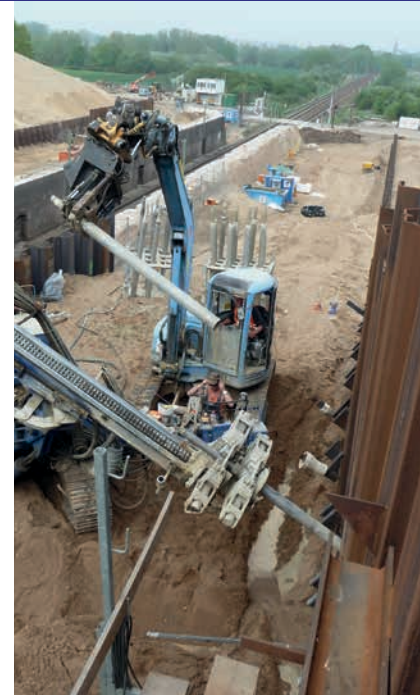


### Steel grades:

EN10210-1: S355GP, S460GP, GM600

**Production:** ISO 9001 certified:

in accordance with DIN488, EN10210 or ASTM A-615.





For temporary constructions that require sheet piles, steel pipes or H-beams, we offer the possibility of rental service. By renting steel piles instead of buying them, you can cut considerably on your construction costs. Our high-quality products have a long lifespan. This makes them an ideal solution for your temporary project.

- Sheet piles
- Tubes & Pipes
- Beams
- (Vibro) Hammers

We have a large amount of hot-rolled sheet piles in stock, distributed throughout the world. If we have the products on stock close to the project site, we can immediately deliver the products you need. When renting for longer periods, we also offer the possibility to buy our products with a guaranteed buy-back option. In that case, we will buy these products back from you when they are no longer needed for a good price, that we agree upon beforehand.

All rented materials will be transported by truck or barge to your project location and we will pick them up afterwards.

Our main goals are to serve our customers and improve our position in the market by increasing our inventory and opening up new stock locations and offices all over the world.

“Rely on us and make  
your **project a success.**”





## Fabrication / Product modification

On request we can modify all products according to your specific requirements.

- Weld on interlocks
- Add slinging / handling holes
- Cut in lengths
- Corner solutions
- Multiple sheet piles
- Loose / welded / punched

## Interlock sealant

For water-bearing formations like cofferdam constructions using sheet piling, it is very important that the sheet piles are waterproof. We have several effective solutions for waterproof interlock sealing.

### Pile Lock

Pile Lock is the best option when the sealing needs to be completely waterproof. This product expands up to 10 times its original volume when it comes into contact with water, enabling a waterproof solution.

### SwellSeal

Where soil is contaminated, an interlock seal based on polyurethane (PU) will often be the best solution. SwellSeal expands up to 200% of its original volume when it comes into contact with water. Intra SwellSeal can be applied to the sheet piling interlock structure on site.

### Pertex bituminous filling

This interlock sealing is easy and cost efficient to apply. In temporary construction or constructions where only ground water needs to be retained this sealing is sufficient most times.

## Surface treatment

### Coating

If required we can supply our products with coatings. Applied on the jobsite or in the factory, they serve as a protection against corrosion or for aesthetic reasons. The coating systems include the necessary certificates and standards.

### Galvanizing

We can also deliver hot dipped galvanized products. This is only possible up to certain lengths.

## Cathodic Protection (anti-corrosion)

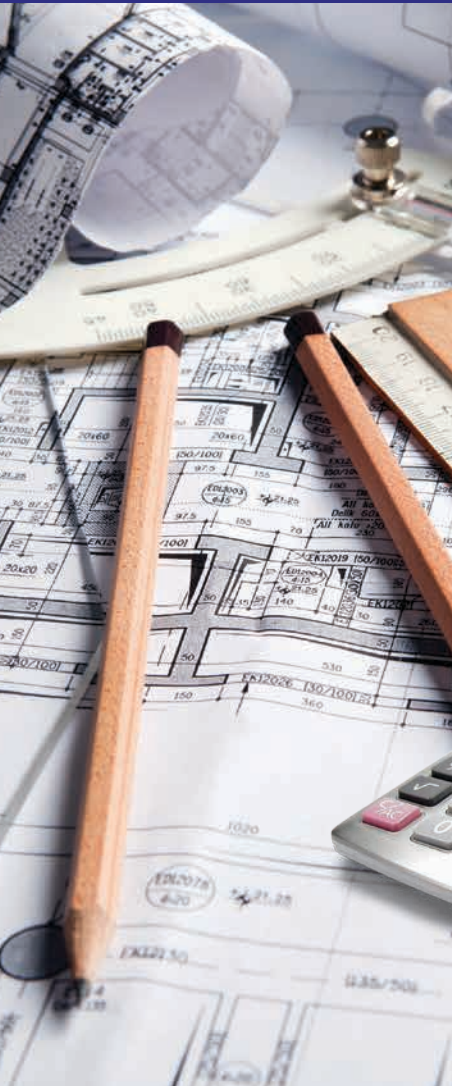
To decrease the effect of corrosion and extend the life span of steel significantly, we offer cathodic protections. The Sacrificial Anode is attached to the steel pile and Anode and will literally scarifies itself. For the calculated time period only the Anode will corrode and the steel remains in original condition.

There are numerous variations in the dimension and characteristics of the Anodes. Our engineering department calculates the most effective and economical anode to reach the requirements to extend the life time of the steel. We work closely together with anode mills to assure quality and fast deliveries.



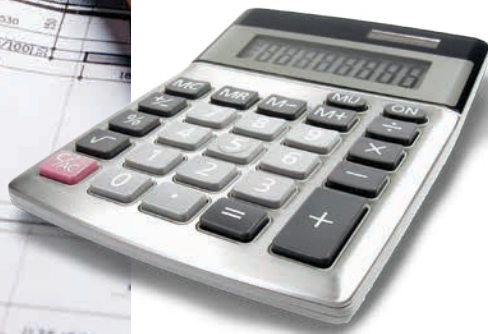
- \* High Purity Zinc Anodes
- \* Aluminum Anodes





Meever & Meever has in-house engineers ready to provide all sorts of technical support. Starting from rather simple calculation to complete project designs and shop drawings. On project where the contractor is expected to calculate the required strength of the construction we are there for you to find the best solution while taking all project aspects into account. For example: drivability, strength, construction life time, aesthetics, application speed, material availability and of course the price. We provide and help with:

- Provide Shop Drawings
- Prepare Take-off
- Design alternative constructions that meet or exceed the original specifications and reduce the price
- Match the right materials with project requirements
- Match the right pile driving equipment with piles and soil conditions
- Anti-corrosion solutions: Coating, Galvanizing or Cathodic protections
- Technical and geotechnical calculations



**“We will find the best solution while taking all project aspects into account.”**





## Steel grades

ASTM	YIELD (ksi)	STRENGTH (Mpa)
A328	39	270
A 572 Grade 42	42	290
A 572 Grade 50	50	345
A 572 Grade 55	55	380
A 572 Grade 60	60	415
A 572 Grade 65	65	450
A 690	50	345
A 690	57	390

EN 10248	YIELD (ksi)	STRENGTH (Mpa)
S 240 GP	35	240
S 270 GP	39	270
S 320 GP	46	315
S 355 GP	51	355
S 390 GP	57	390
S 430 GP	62	430

## Conversion tables

	Imperial to Metric		
	1 in	=	2,54 cm
	1 ft	=	0,305 m
Dimensions	1 in <sup>2</sup>	=	6,452 cm <sup>2</sup>
	1 ft <sup>2</sup>	=	0,093 m <sup>2</sup>
	1 in <sup>3</sup>	=	16,387 cm <sup>3</sup>
	1 ft <sup>3</sup>	=	0,028 m <sup>3</sup>
	1 in <sup>2</sup> /ft	=	21,166 cm <sup>2</sup> /m

	Metric to Imperial		
	1 cm	=	0,394 in
	1 m	=	3,281 ft
	1 cm <sup>2</sup>	=	0,155 in <sup>2</sup>
	1 m <sup>2</sup>	=	10,764 ft <sup>2</sup>
	1 cm <sup>3</sup>	=	0,061 in <sup>3</sup>
	1 m <sup>3</sup>	=	35,315 ft <sup>3</sup>
	1 cm <sup>2</sup> /m	=	0,047 in <sup>2</sup> /ft

	Imperial to Metric		
	1 lb	=	0,454 kg
	1 lb/ft	=	1,488 kg/m
	1 lb/ft <sup>2</sup>	=	4,882 kg/m <sup>2</sup>
	1 US Ton	=	0,907 Metric Tons
Mass, Force, Pressure	1 lb	=	4,450 N
	1 lb/in	=	0,175 N/mm
	1 lb/ft	=	14,599 N/m
	1 lb/in <sup>2</sup>	=	0,690 N/cm <sup>2</sup>
	1 lb/ft <sup>2</sup>	=	47,897 N/m <sup>2</sup>
	1 lb/in <sup>3</sup>	=	0,272 N/cm <sup>3</sup>
	1 lb/ft <sup>3</sup>	=	157,142 N/m <sup>3</sup>

	Metric to Imperial		
	1 kg	=	2,205 lb
	1 kg/m	=	0,672 lb/ft
	1 kg/m <sup>2</sup>	=	0,205 lb/ft <sup>2</sup>
	1 Metric Ton	=	1,102 US Ton
	1 N	=	0,225 lb
	1 N/mm	=	5,708 lb/in
	1 N/m	=	0,069 lb/ft
	1 N/cm <sup>2</sup>	=	1,450 lb/in <sup>2</sup>
	1 N/m <sup>2</sup>	=	0,021 lb/ft <sup>2</sup>
	1 N/cm <sup>3</sup>	=	3,683 lb/in <sup>3</sup>
	1 N/m <sup>3</sup>	=	0,006 lb/ft <sup>3</sup>

	Imperial to Metric		
Moment of Inertia	1 in <sup>4</sup>	=	41,623 cm <sup>4</sup>
	1 in <sup>4</sup> /ft	=	136,558 cm <sup>4</sup> /m
Section Modules	1 in <sup>3</sup>	=	16,387 cm <sup>3</sup>
	1 in <sup>3</sup> /ft	=	53,763 cm <sup>3</sup> /m
Moment	1 lb.ft	=	1,356 Nm
	1 lb.in/ft	=	0,371 Nm/m
	1 lb.ft/ft	=	4,450 Nm/m

	Metric to Imperial		
	1 cm <sup>4</sup>	=	0,024 in <sup>4</sup>
	cm <sup>4</sup> /m	=	0,007 in <sup>4</sup> /ft
	1 cm <sup>3</sup>	=	0,061 in <sup>3</sup>
	1 cm <sup>3</sup> /m	=	0,019 in <sup>3</sup> /ft
	1 Nm	=	0,737 lb.ft
	1 Nm/m	=	2,697 lb.in/ft
	1 Nm/m	=	0,225 lb.ft/ft

\*\* on our website you can find imperial and metric data sheets

