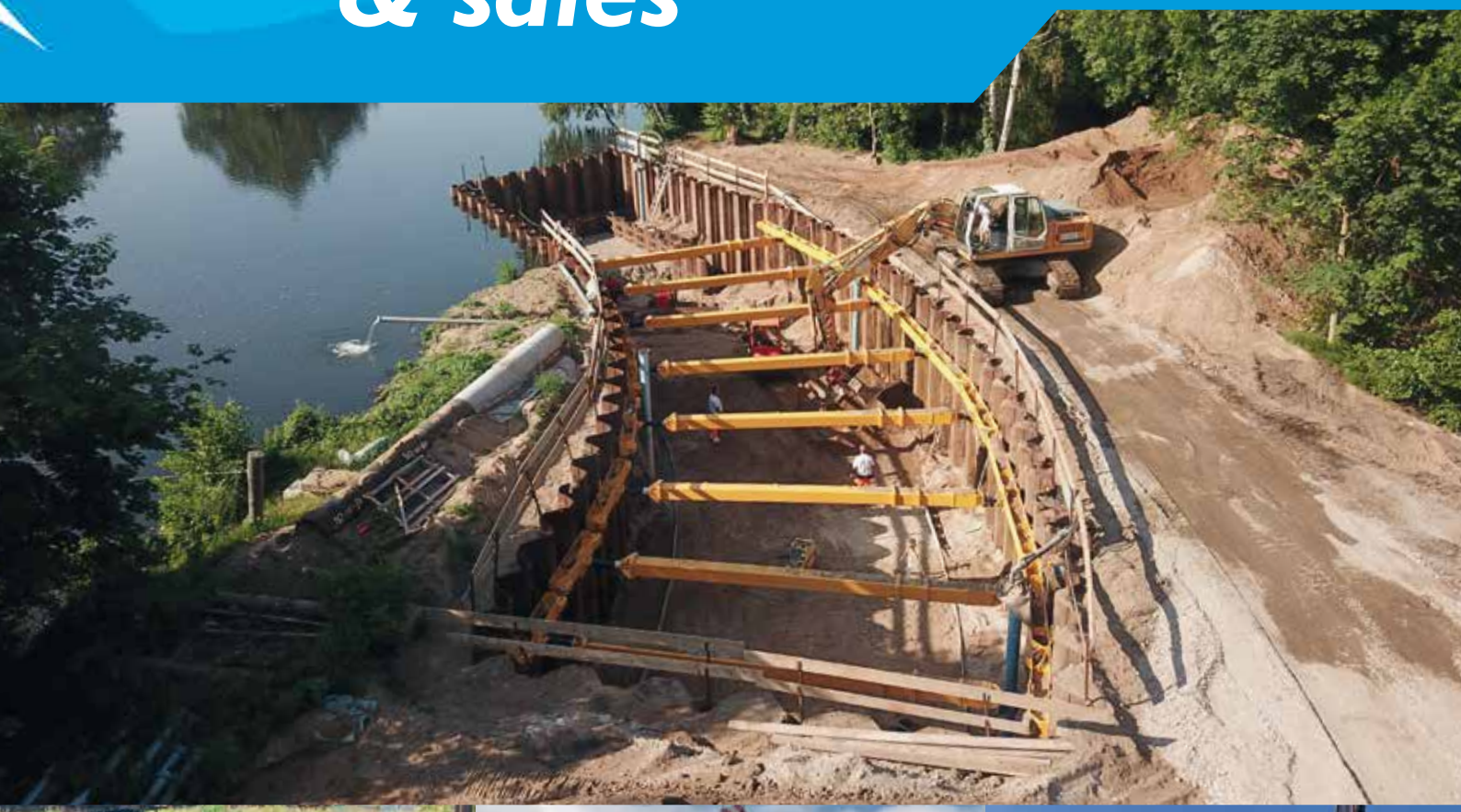
InfraRentals & sales

Sharing flexibility



Rental, sale and re-purchase:

- *Sheet Piles*
- *ABI Mobilram-system*
- *RH Rotary drilling rigs*
- *Still Worker*
- *Vibratory hammers and Power packs*
- *Steel beams*
- *Bracing systems*
- *Steel tubes*
- *Steel posts*
- *Add-on Vibrators HVR*
- *Auger Drives*

InfraRentals
Sharing flexibility

TÜVNORD
TÜV NORD Nederland B.V.
ISO 9001
tuv.nl

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About us

"Together with you we will make your project a success."

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Director

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Sales Support

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Sales Manager

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Sales

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West Germany

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East Germany

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Sales Manager

Jelle Veldhuizen
Sales

Sunday Özmen
Sales Manager
South - West Germany

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Expert adviser

Astrid Breede
Sales Manager

Sheet piling

Steel sheet piling is commonly used in civil and hydraulic engineering projects. Construction projects rely heavily on sheet piling, especially in the Netherlands, with its low ground level, its abundant water and poor soil conditions. Many structures in numerous countries in Europe are made possible by using steel sheet piling. Our products are used in many projects in Europe, due to their high quality.

Hot-rolled and cold-rolled sheet piling

The difference between hot-rolled and cold-rolled sheet piling is in the production method and the material thickness.

Cold-rolled sheet piling is profiled from wide-plate steel and manufactured using a cold-deformation process. Cold-rolled sheet piling is available in steel thicknesses of 3 to 16 mm and is used in light to medium-heavy earth and water-retaining structures.

Hot-rolled sheet piling is profiled in a rolling process at high temperatures. Hot-rolled sheet piling is available in steel thicknesses up to over 20 mm, which means that they are also used in heavy-duty and long sheet-piling structures.

Custom-made sheet piling solutions

We can supply sheet piling of any length and thickness for any project. Because we specifically tailor our sheet piling to each situation we have a strong position and are competitive when it comes to the most cost-effective sheet-piling profiles.

Purchase and repurchase

Apart from renting out sheet piling, we also offer the option of purchase-repurchase. This is often opted for in long-term projects. Sheet piling is then sold back to InfraRentals after the end of the project.

Corner sections

InfraRentals can also supply corner sections to insert between different sheet-pilling profiles. Corner sections can be used for all kinds of corner or angle solution.

Interlock sealing

We use Pile Lock for contaminated soil to seal sheet piling with interlock sealing. When this product comes into contact with water, it expands to 20 times its original volume. This makes the sheet piling interlocks water-tight. Bitumen is used as interlock sealing for regular sealing.

Vitkovice

U-Profile

Type	Moment of resistance (elastic)	Moment of inertia	Width	Height	Thickness		Weight		Widening torque (plastic)	Static moment	Cross-sectional area	Coating area
	cm^3/m	cm^4/m	mm	mm	t (mm)	s (mm)	kg/m^1	kg/m^2	cm^3/m	cm^3/m	cm^2/m	m^2/m
VL 601	744	11.530	600	310,0	7,5	6,4	46,3	77,2	895	448	98,3	2,47
VL 601FP	745	11.547	600	310,0	7,2	7,0	47,4	79,0	906	453	100,7	2,47
VL 601K	775	12.019	600	310,0	7,8	6,8	48,5	80,8	936	468	102,9	2,47
VL 602A	806	12.499	600	310,0	8,0	7,3	51,3	85,5	979	490	109,0	2,47
VL 602	842	13.046	600	310,0	8,4	7,6	53,4	89,0	1.022	511	113,3	2,47
VL 602K	877	13.590	600	310,0	8,8	7,9	55,4	92,3	1.065	533	117,7	2,47
VL 603A	1.138	18.205	600	320,0	9,0	8,0	61,5	102,5	1.316	658	130,6	2,47
VL 603	1.200	19.199	600	320,0	9,6	8,2	64,2	107,0	1.386	693	136,3	2,65
VL 603KN	1.230	19.682	600	320,0	9,8	8,6	66,9	111,5	1.427	713	142,0	2,65
VL 603K	1.241	19.853	600	320,0	9,8	9,0	67,8	113,0	1.444	722	143,9	2,65
VL603K10	1.261	20.196	600	320,0	10,0	9,0	68,4	114,1	1.465	733	145,3	2,65
VL 603N	1.273	24.269	600	381,2	9,8	7,9	63,4	105,7	1.519	760	143,6	2,65
VL 603Z	1.300	20.930	600	322,0	10,0	10,0	72,1	120,2	1.525	763	153,1	2,65
VL 604A	1.564	30.495	600	390,0	9,6	8,8	71,0	118,3	1.823	912	150,8	2,88
VL 604	1.618	31.548	600	390,0	10,0	9,0	73,1	121,8	1.885	943	155,2	2,85
VL 604K	1.672	32.600	600	390,0	10,4	9,2	75,2	125,3	1.947	974	159,7	2,85
VL 605A	1.821	38.243	600	420,0	10,7	9,0	76,5	127,5	2.125	1.063	162,5	2,91
VL 605N	2.019	42.664	600	422,6	12,0	9,5	82,1	136,9	2.348	1.174	174,4	2,90
VL 605KN	2.117	44.886	600	424,0	12,6	10,0	85,6	142,7	2.466	1.233	181,8	2,90
VL 606A	2.205	47.402	600	430,0	13,4	9,0	85,4	142,3	2.541	1.271	181,3	2,93
VL 606AN	2.355	50.878	600	432,0	14,4	9,4	89,8	149,6	2.714	1.357	190,6	2,92
VL 606N	2.506	54.389	600	434,0	15,4	9,8	94,1	156,8	2.887	1.443	199,8	2,92
VL 628 -1,5	2.607	58.938	600	452,1	14,8	9,5	95,2	158,6	3.006	1.503	202,0	2,94
VL 628AN	2.701	61.219	600	453,3	15,4	9,8	97,9	163,1	3.114	1.557	207,8	2,94
VL 628A	2.809	63.856	600	454,7	16,1	10,0	100,8	168,0	3.238	1.619	214,0	2,94
VL 628	2.841	64.640	600	455,1	16,3	10,1	101,8	169,6	3.275	1.638	216,1	2,94
VL 628K	2.903	66.165	600	455,9	16,7	10,3	103,5	172,5	3.347	1.674	219,8	2,94
VL 607A	3.006	68.232	600	453,9	17,7	10,0	106,2	177,1	3.460	1.730	225,6	2,98
VL 607	3.211	73.300	600	456,5	19,0	10,6	112,4	187,3	3.701	1.851	238,6	2,98
VL 607K	3.365	77.153	600	458,5	20,0	11,0	116,8	194,7	3.882	1.941	248,0	2,98

Hoesch

Type	Moment of resistance (elastic)	Moment of inertia	Width	Height	Thickness		Weight		Coating area
	cm^3/m	cm^4/m	mm	mm	t (mm)	s (mm)	kg/m^1	kg/m^2	m^2/m
Larssen 703	1.210	24.200	700	400	9,5	8,0	67,5	96,4	2,51
Larssen 703 K	1.300	25.950	700	400	10,0	9,0	72,1	103,0	2,51
Larssen 703 10/10	1.340	26.800	700	400	10,0	10,0	75,6	108,0	2,51
Larssen 716	1.600	35.200	700	440	10,2	9,5	79,9	114,2	2,68
Larssen 720	2.000	45.000	750	450	12,0	10,0	96,4	128,5	2,66
Larssen 600	510	3.825	600	150	9,5	9,5	56,4	94,0	2,25
Larssen 600 K	540	4.050	600	150	10,0	10,0	59,4	99,0	2,25
Larssen 601	745	11.520	600	310	7,5	6,4	46,8	78,0	2,45
Larssen 602	830	12.870	600	310	8,2	8,0	53,4	89,0	2,45
Larssen 603	1.200	18.600	600	310	9,7	8,2	64,8	108,0	2,60
Larssen 603 K	1.240	19.220	600	310	10,0	9,0	68,1	113,5	2,60
Larssen 603 10/10	1.260	19.530	600	310	10,0	10,0	69,6	116,0	2,60
Larssen 604 n	1.600	30.400	600	380	10,0	9,0	73,8	123,0	2,82
Larssen 605	2.020	42.420	600	420	12,5	9,0	83,5	139,2	2,90
Larssen 605 K	2.030	42.630	600	420	12,2	10,0	86,7	144,5	2,90
Larssen 606 n	2.500	54.375	600	435	14,4	9,2	94,2	157,0	2,92
Larssen 606 n K	2.530	55.030	600	435	14,4	10,0	97,3	162,1	2,92
Larssen 628	2.775	63.270	600	456	16,3	9,8	99,3	165,5	3,03
Larssen 607 n	3.200	72.320	600	452	19,0	10,6	114,0	190,0	2,93
Larssen 22	1.260	21.420	500	340	10,0	9,0	61,8	123,6	2,84
Larssen 22 10/10	1.300	22.100	500	340	10,0	10,0	64,9	129,8	2,84
Larssen 23	2.000	42.000	500	420	11,5	10,0	77,5	155,0	3,15
Larssen 24	2.500	52.500	500	420	15,6	10,0	87,5	175,0	3,15
Larssen 24/12	2.550	53.610	500	420	15,6	12,0	92,7	185,4	3,15
Larssen 25	3.040	63.840	500	420	20,0	11,5	103,0	206,0	3,11
Larssen 43	1.660	34.900	500	420	12,0	12,0	83,0	166,0	2,80
Larssen 430	6.450	241.800	708	750	12,0	12,0	166,0	234,5	3,96
SP II-W	1.000	13.000	600	260	10,3	8,0 - 6,5	61,8	103,0	-
SP III-W	1.800	32.400	600	360	13,4	10,0 - 8,0	81,6	136,0	-
SP IV-W	2.700	56.700	600	420	18,0	14,0 - 9,5	106,0	177,0	-

Cover profiles in any desired shape from our own production.

Do you want to save up to 40% on the profiles below?

Then look at the tailor-made suit in the sheet pile world on page 14.

ArcelorMittal

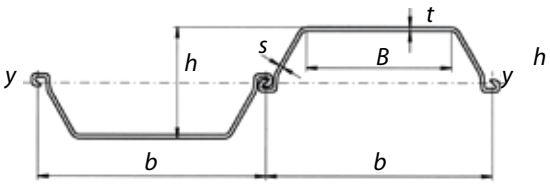
U-Profile

We are not able to offer products from ArcelorMittal from new production.

Type	*Moment of resistance (elastic)*	Moment of inertia	*Width*	*Height*	*Thickness*		*Weight*		*Coating area*
	cm^3/m	cm^4/m	mm	mm	t (mm)	s (mm)	kg/m^1	kg/m^2	m^2/m
AU 14	*1.405*	*28.680*	*750*	*408*	*10,0*	*8,3*	*77,9*	*104,0*	*2,54*
AU 16	*1.600*	*32.850*	*750*	*411*	*11,5*	*9,3*	*86,3*	*115,0*	*2,54*
AU 18	*1.780*	*39.300*	*750*	*441*	*10,5*	*9,1*	*88,5*	*118,0*	*2,66*
AU 20	*2.000*	*44.440*	*750*	*444*	*12,0*	*10,0*	*96,9*	*129,0*	*2,66*
AU 23	*2.270*	*50.700*	*750*	*447*	*13,0*	*9,5*	*102,1*	*136,0*	*2,72*
AU 25	*2.500*	*56.240*	*750*	*450*	*14,5*	*10,2*	*110,4*	*147,0*	*2,72*
PU 12	*1.200*	*21.600*	*600*	*360*	*9,8*	*9,0*	*66,1*	*110,0*	*2,64*
PU 12S	*1.260*	*22.660*	*600*	*360*	*10,0*	*10,0*	*71,0*	*118,0*	*2,64*
PU 18-1	*1.670*	*35.950*	*600*	*430*	*10,2*	*8,4*	*72,6*	*121,0*	*2,86*
PU 18	*1.800*	*38.650*	*600*	*430*	*11,2*	*9,0*	*76,9*	*128,0*	*2,86*
PU 18+1	*1.920*	*41.320*	*600*	*430*	*12,2*	*9,5*	*81,1*	*135,0*	*2,86*
PU 22-1	*2.060*	*46.380*	*600*	*450*	*11,1*	*9,0*	*81,9*	*137,0*	*2,98*
PU 22	*2.200*	*49.460*	*600*	*450*	*12,1*	*9,5*	*86,1*	*144,0*	*2,98*
PU 22+1	*2.335*	*52.510*	*600*	*450*	*13,1*	*10,0*	*90,4*	*151,0*	*2,98*
PU 28-1	*2.680*	*60.580*	*600*	*452*	*14,2*	*9,7*	*97,4*	*162,0*	*3,08*
PU 28	*2.840*	*64.460*	*600*	*454*	*15,2*	*10,1*	*101,8*	*170,0*	*3,08*
PU 28 +1	*3.000*	*68.380*	*600*	*456*	*16,2*	*10,5*	*106,2*	*177,0*	*3,08*
PU 32-1	*3.065*	*69.210*	*600*	*452*	*18,5*	*10,6*	*109,9*	*183,0*	*3,04*
PU 32	*3.200*	*72.320*	*600*	*452*	*19,5*	*11,0*	*114,1*	*190,0*	*3,04*
PU 32+1	*3.340*	*75.410*	*600*	*452*	*20,5*	*11,04*	*118,4*	*197,0*	*3,04*
GU 6N	*625*	*9.670*	*600*	*309*	*6,0*	*6,0*	*41,9*	*70,0*	*2,52*
GU 7N	*675*	*10.450*	*600*	*310*	*6,5*	*6,4*	*44,1*	*74,0*	*2,52*
GU 7S	*740*	*11.540*	*600*	*311*	*7,2*	*6,9*	*46,3*	*77,0*	*2,52*
GU 7HWS	*745*	*11.620*	*600*	*312*	*7,3*	*6,9*	*47,4*	*79,0*	*2,52*
GU 8N	*770*	*12.010*	*600*	*312*	*7,5*	*7,1*	*48,5*	*81,0*	*2,52*
GU 8S	*820*	*12.800*	*600*	*313*	*8,0*	*7,5*	*50,8*	*85,0*	*2,52*
GU 10N	*995*	*15.700*	*600*	*316*	*9,0*	*6,8*	*55,8*	*93,0*	*2,58*
GU 11N	*1.095*	*17.450*	*600*	*318*	*10,0*	*7,4*	*60,2*	*100,0*	*2,58*
GU 12N	*1.200*	*19.220*	*600*	*320*	*11,0*	*8,0*	*64,6*	*108,0*	*2,58*
GU 13N	*1.270*	*26.590*	*600*	*418*	*9,0*	*7,4*	*59,9*	*100,0*	*2,82*
GU 14N	*1.400*	*29.410*	*600*	*420*	*10,0*	*8,0*	*64,3*	*107,0*	*2,82*
GU 15N	*1.530*	*32.260*	*600*	*422*	*11,0*	*8,6*	*68,7*	*115,0*	*2,82*
GU 16N	*1.670*	*35.950*	*600*	*430*	*10,2*	*8,4*	*72,6*	*121,0*	*2,86*
GU 18N	*1.800*	*38.650*	*600*	*430*	*11,2*	*9,0*	*76,9*	*128,0*	*2,86*
GU 20N	*1.920*	*41.320*	*600*	*430*	*12,2*	*9,5*	*81,1*	*135,0*	*2,86*
GU 21N	*2.060*	*46.380*	*600*	*450*	*11,1*	*9,0*	*81,9*	*137,0*	*2,98*
GU 22N	*2.200*	*49.460*	*600*	*450*	*12,1*	*9,5*	*86,1*	*144,0*	*2,98*
GU 23N	*2.335*	*52.510*	*600*	*450*	*13,1*	*10,0*	*90,4*	*151,0*	*2,98*
GU 27N	*2.680*	*60.580*	*600*	*452*	*14,2*	*9,7*	*97,4*	*162,0*	*3,08*
GU 28N	*2.840*	*64.460*	*600*	*454*	*15,2*	*10,1*	*101,8*	*170,0*	*3,08*
GU 30N	*3.000*	*68.380*	*600*	*456*	*16,2*	*10,5*	*106,2*	*177,0*	*3,08*
GU 31N	*3.065*	*69.210*	*600*	*452*	*18,5*	*10,6*	*109,9*	*183,0*	*3,04*
GU 32N	*3.200*	*72.320*	*600*	*452*	*19,5*	*11,0*	*114,1*	*190,0*	*3,04*
GU 33N	*3.340*	*75.410*	*600*	*452*	*20,5*	*11,4*	*118,4*	*197,0*	*3,04*
GU 16-400	*1.560*	*22.580*	*400*	*290*	*12,7*	*9,4*	*62,0*	*155,0*	*3,20*
GU 18-400	*1.785*	*26.090*	*400*	*292*	*15,0*	*9,7*	*69,3*	*173,0*	*3,20*

U-Profile

Tolerances according: *EN 10 248-1 and EN 10 248-2*
Steel grades: *S240GP, S270GP, S355GP, S390/S430*/***
Versions: *Single piles, Double piles, crimped or welded, Triple piles**
The resistance moments of the U-profiles may only be applied in the static calculation if at least every second pile lock in the wall is locked to absorb the shear forces.
Holes: *Standard punching, diameter 40mm and standard distance between the holes axis and the sheet piles end is 300 mm or, alternatively 75 or 150 mm. Two-sided punching can be ordered, too.*



** delivered upon agreement.*
***Higher quality upon request.*

ESI Z-Profile

Type	Wy	Iy	Width	Height	Thickness		Weight		Coating area
	cm^3/m	cm^4/m	mm	mm	t (mm)	s (mm)	kg/m^1	kg/m^2	m^2/m
ESZ 17-700	1.735	36.360	700	420	8,5	8,5	74,0	105,7	2,63
ESZ 18-700	1.805	37.890	700	420	9,0	9,0	77,4	110,6	2,63
ESZ 19-700	1.875	39.420	700	421	9,5	9,5	80,8	115,5	2,63
ESZ 19-700 10/10	1.945	40.940	700	421	10,0	10,0	84,2	120,3	2,63
ESZ 20-700	2.015	42.470	700	422	10,5	10,5	87,6	125,2	2,63
ESZ 24-700	2.435	55.870	700	459	12,0	9,0	89,5	127,9	2,76
ESZ 25-700	2.520	57.840	700	460	12,5	9,5	93,1	133,0	2,76
ESZ 26-700	2.600	59.810	700	460	13,0	10,0	96,7	138,1	2,76
ESZ 27-700	2.685	61.780	700	461	13,5	10,5	100,3	143,3	2,76
ESZ 28-700	2.765	63.750	700	461	14,0	11,0	103,9	148,4	2,76
ESZ 29-700	2.930	67.740	700	462	15,0	12,0	111,1	158,8	2,76
ESZ 36-700	3.580	91.130	700	509	14,0	11,5	116,2	166,1	3,02
ESZ 37-700	3.690	94.000	700	510	14,5	12,0	120,2	171,8	3,02
ESZ 38-700	3.800	96.860	700	510	15,0	12,5	124,2	177,4	3,02
ESZ 39-700	3.905	99.720	700	511	15,5	13,0	128,2	183,1	3,02
ESZ 40-700	4.015	102.590	700	511	16,0	13,5	132,2	188,8	3,02

IRZ

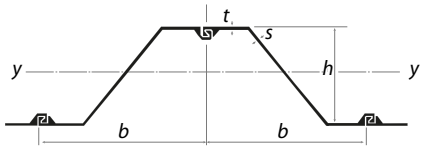
Type	Wy	Iy	Width	Height	Thickness		Weight		Coating area
	cm^3/m	cm^4/m	mm	mm	t (mm)	s (mm)	kg/m^1	kg/m^2	m^2/m
IRZ 12-700	1.208	18.971	700	314,2	8,6	8,5	67,9	97,0	2,60
IRZ 12-770	1.252	21.496	770	343,5	8,6	8,5	72,8	94,5	2,55
IRZ 13-700	1.308	20.611	700	315,2	9,6	9,5	74,2	105,9	2,60
IRZ 13-770	1.304	22.433	770	344,0	9,1	9,0	76,2	99,0	2,55
IRZ 14-700	1.408	22.262	700	316,2	10,6	10,5	80,5	114,9	2,60
IRZ 14-770	1.357	23.370	770	344,5	9,6	9,5	79,6	103,4	2,55
IRZ 17-700	1.735	36.425	700	420,0	8,5	8,4	73,3	104,7	2,81
IRZ 18-700	1.807	38.001	700	420,5	9,1	9,0	76,7	109,6	2,81
IRZ 19-700	1.880	39.578	700	421,0	9,6	9,5	80,2	114,6	2,81
IRZ 20-700	1.953	41.155	700	421,5	10,1	10,0	83,7	119,5	2,81
IRZ 24-700	2.437	55.949	700	459,2	11,3	11,2	95,8	136,9	2,93
IRZ 26-700	2.601	59.843	700	460,2	12,3	12,2	103,0	147,1	2,93
IRZ 27-700	2.676	61.641	700	460,7	12,8	12,7	106,4	152,0	2,93
IRZ 28-700	2.764	63.740	700	461,2	13,3	13,2	110,1	157,3	2,93
IRZ 36-700	3.596	89.753	700	499,2	15,1	11,2	118,7	169,6	3,11
IRZ 38-700	3.798	94.984	700	500,2	16,1	12,2	126,5	180,7	3,11
IRZ 40-700	3.999	100.219	700	501,2	17,1	13,2	134,3	191,8	3,11
IRZ 42-700	4.228	105.543	700	499,2	18,1	14,0	143,0	204,2	3,10
IRZ 44-700	4.436	110.942	700	500,2	19,1	15,0	150,7	215,3	3,10
IRZ 46-700	4.635	116.159	700	501,2	20,1	16,0	158,5	226,5	3,10
IRZ 48-700	4.788	120.467	700	503,2	22,1	15,0	159,3	227,6	3,10
IRZ 48-580	4.801	115.712	580	482,0	19,2	15,1	139,9	241,1	3,47
IRZ 50-700	4.973	125.358	700	504,2	23,1	16,0	166,7	238,2	3,10
IRZ 52-700	5.162	130.403	700	505,2	24,1	17,0	174,3	249,0	3,10

Z-Profile

Manufactured in accordance with: *EN10248-1 tolerances in accordance with EN10248-2.*

Steel qualities: *S 270GP, S 355GP, S 4330GP in accordance with EN 10 248-1.*

Standard availability: *Lengths up to 24.000 mm, longer lengths on request.*



Cover profiles in any desired shape from our own production.

Do you want to save up to 40% on the profiles below?

Then look at the tailor-made suit in the sheet pile world on page 14.

ArcelorMittal

Z-Profile

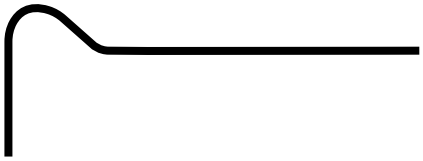
We are not able to offer products from ArcelorMittal from new production.

Type	*Wy*	Iy	*Width*	*Height*	*Thickness*		*Weight*		*Coating area*
	cm^3/m	cm^4/m	mm	mm	t (mm)	s (mm)	kg/m^1	kg/m^2	m^2/m
AZ 12-700	*1.205*	*18.880*	*700*	*314*	*8,5*	*8,5*	*67,7*	*97,0*	*2,44*
AZ 12-770	*1.245*	*21.430*	*770*	*344*	*8,5*	*8,5*	*72,6*	*94,0*	*2,40*
AZ 13-700	*1.305*	*20.540*	*700*	*315*	*9,5*	*9,5*	*74,0*	*106,0*	*2,44*
AZ 13-700 10/10	*1.355*	*21.370*	*700*	*316*	*10,0*	*10,0*	*77,2*	*110,0*	*2,44*
AZ 13-770	*1.300*	*22.360*	*770*	*344*	*9,0*	*9,0*	*76,1*	*99,0*	*2,40*
AZ 14-770	*1.355*	*23.300*	*770*	*345*	*9,5*	*9,5*	*79,5*	*103,0*	*2,40*
AZ 14-700	*1.405*	*22.190*	*700*	*316*	*10,5*	*10,5*	*80,3*	*115,0*	*2,44*
AZ 14-770 10/10	*1.405*	*24.240*	*770*	*345*	*10,0*	*10,0*	*82,9*	*108,0*	*2,40*
AZ 17-700	*1.730*	*36.230*	*700*	*420*	*8,5*	*8,5*	*73,1*	*104,0*	*2,66*
AZ 18	*1.800*	*34.200*	*630*	*380*	*9,5*	*9,5*	*74,4*	*118,0*	*2,70*
AZ 18-700	*1.800*	*37.800*	*700*	*420*	*9,0*	*9,0*	*76,5*	*109,0*	*2,66*
AZ 18-800	*1.840*	*41.320*	*800*	*449*	*8,5*	*8,5*	*80,7*	*101,0*	*2,60*
AZ 18 10/10	*1.870*	*35.540*	*630*	*381*	*10,0*	*10,0*	*77,8*	*123,0*	*2,70*
AZ 19-700	*1.870*	*39.380*	*700*	*421*	*9,5*	*9,5*	*80,0*	*114,0*	*2,66*
AZ 20-700	*1.945*	*40.960*	*700*	*421*	*10,0*	*10,0*	*83,5*	*119,0*	*2,66*
AZ 20-800	*2.000*	*45.050*	*800*	*450*	*9,5*	*9,5*	*88,6*	*111,0*	*2,60*
AZ 22-800	*2.165*	*48.790*	*800*	*451*	*10,5*	*10,5*	*96,4*	*120,0*	*2,60*
AZ 23-800	*2.330*	*55.260*	*800*	*474*	*11,5*	*9,0*	*94,6*	*118,0*	*2,64*
AZ 24-700	*2.430*	*55.820*	*700*	*459*	*11,2*	*11,2*	*95,7*	*137,0*	*2,76*
AZ 25-800	*2.500*	*59.410*	*800*	*475*	*12,5*	*10,0*	*102,6*	*128,0*	*2,64*
AZ 26	*2.600*	*55.510*	*630*	*427*	*13,0*	*12,2*	*97,8*	*155,0*	*2,82*
AZ 26-700	*2.600*	*59.720*	*700*	*460*	*12,2*	*12,2*	*102,9*	*147,0*	*2,76*
AZ 27-800	*2.670*	*63.570*	*800*	*476*	*13,5*	*11,0*	*110,5*	*138,0*	*2,64*
AZ 28-700	*2.760*	*63.620*	*700*	*461*	*13,2*	*13,2*	*110,0*	*157,0*	*2,76*
AZ 28-750	*2.810*	*71.540*	*750*	*509*	*12,0*	*10,0*	*100,8*	*134,0*	*2,82*
AZ 30-750	*3.005*	*76.670*	*750*	*510*	*13,0*	*11,0*	*108,8*	*145,0*	*2,82*
AZ 32-750	*3.200*	*81.800*	*750*	*511*	*14,0*	*12,0*	*116,7*	*156,0*	*2,82*
AZ 36-700N	*3.590*	*89.610*	*700*	*499*	*15,0*	*11,2*	*118,6*	*169,0*	*2,94*
AZ 38-700N	*3.795*	*94.840*	*700*	*500*	*16,0*	*12,2*	*126,4*	*181,0*	*2,94*
AZ 40-700N	*3.995*	*100.080*	*700*	*501*	*17,0*	*13,2*	*134,2*	*192,0*	*2,94*
AZ 42-700N	*4.205*	*104.930*	*700*	*499*	*18,0*	*14,0*	*142,1*	*203,0*	*2,94*
AZ 44-700N	*4.405*	*110.150*	*700*	*500*	*19,0*	*15,0*	*149,9*	*214,0*	*2,94*
AZ 46-700N	*4.605*	*115.370*	*700*	*501*	*20,0*	*16,0*	*157,7*	*225,0*	*2,94*
AZ 48-700	*4.755*	*119.650*	*700*	*503*	*22,0*	*15,0*	*158,5*	*226,0*	*2,92*
AZ 50-700	*4.955*	*124.890*	*700*	*504*	*23,0*	*16,0*	*166,3*	*238,5*	*2,92*
AZ 52-700	*5.155*	*130.140*	*700*	*505*	*24,0*	*17,0*	*174,1*	*249,0*	*2,92*

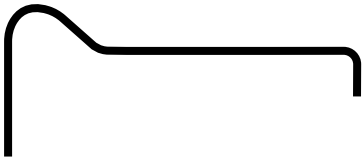
From our own production

Sheet piling covers manufactured according to plan to suit every profile
Example: U-300-68-10

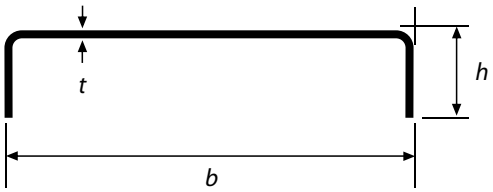
L-Holm



U-Holm



U-profile



U-bend profile

Type	Moment of resistance (elastic)	Moment of inertia	Profile width	Profile height	Profile thickness	Weight single pile
For example	cm^3/m	cm^4/m	b (mm)	h (mm)	t (mm)	kg/m
U-300-68-10	*81*	*432*	*300*	*68*	*10*	*31,8*

New from our own production: MXXL anchoring plank

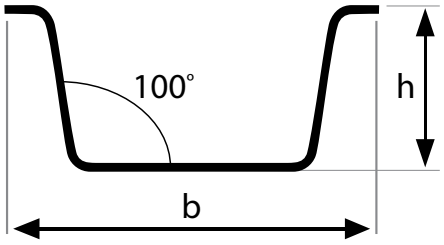
MXXL anchoring plank

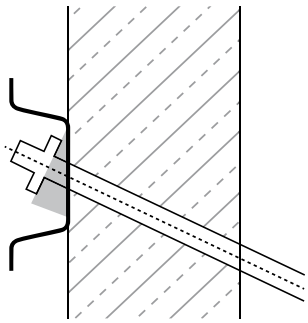
MXXL anchoring plank new from our own production

Can be used for:

- *Sheet piles*
- *Steel beams*
- *Drilled pile wall*

Type	Wy cm^3	Iy cm^4	Width mm	Height mm	Thickness mm	Weight kg/m
MXXL-12	728	11.468	631	260	12	96
MXXL-18	1.161	17.579	641	263	18	144
MXXL-20	1.339	20.690	636	272	20	160





Cold formed Profiles

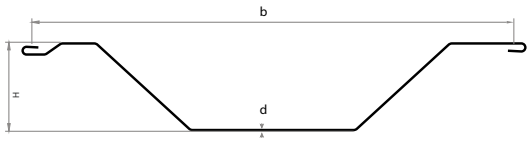
Cold rolled or cold formed sheet piling is produced to order for our customers. The dimensions, weight and technical specifications of this sheet piling exactly match the values laid down in the building specifications.

Advantages:

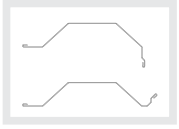
- *Larger effective width = fewer interlock seals*
- *Less material = lower weight per m²*
- *Suitable for smaller series*
- *Short delivery times*
- *Alternative to tropical hardwood*
- *High watertightness*

Available in thicknesses up to 10 mm and lengths up to 18.000 mm. Below shows you the comparison between hot rolled sheet piles and our IBO® cold formed sheet piles in different thicknesses.

Our Omega Profiles are developed by certified engineers whereby your requirements are the basis. We will develop the most advantageously Profile with the required Modulus of Section. Your requirements regarding steelgrade, thickness, width, height will be considered. On the next page you will find some possible Omega Profiles. On demand you will receive a special profile which is specially developed for your Project.



Example sheet pile	Thickness	Profile	Technical details	Hot rolled sheet piles	Weight advantage relative to hot rolled profile
GU 6N Wy 625 cm³/m Iy 9.670 cm⁴/m 69,9 m²	**5 mm**	IBO® - 708-5	Wy 708 cm³/m Iy 11.413 cm⁴/m 51,3 kg/m²	GU 6N	**- 27%**
	6 mm	IBO® - 736-6	Wy 736 cm³/m Iy 11.238 cm⁴/m 59,0 kg/m²	GU 6N	**- 16%**
	7 mm	IBO® - 741-7	Wy 741 cm³/m Iy 9.692 cm⁴/m 67,9 kg/m²	GU 6N	**- 3%**
Larssen 601 Wy 745 cm³/m Iy 11.520 cm⁴/m 78,0 kg/m² GU 7S Wy 740 cm³/m Iy 11.540 cm⁴/m 77,1 kg/m²	**5 mm**	IBO® - 781-5	Wy 781 cm³/m Iy 14.118 cm⁴/m 54,1 kg/m²	Larssen 601 GU 7S	**- 30%** **- 30%**
	6 mm	IBO® - 788-6	Wy 788 cm³/m Iy 13.009 cm⁴/m 62,6 kg/m²	Larssen 601 GU 7S	**- 19%** **- 19%**
	7 mm	IBO® - 797-7	Wy 797 cm³/m Iy 11.192 cm⁴/m 70,7 kg/m²	Larssen 601 GU 7S	**- 8%** **- 8%**
Larssen 602 Wy 830 cm³/m Iy 12.870 cm⁴/m 89,0 kg/m² GU 8S Wy 820 cm³/m Iy 12.800 cm⁴/m 84,6 kg/m²	**5 mm**	IBO® - 867-5	Wy 867 cm³/m Iy 17.804 cm⁴/m 53,6 kg/m²	Larssen 602 GU 8S	**- 40%** **- 37%**
	6 mm	IBO® - 835-6	Wy 835 cm³/m Iy 13.721 cm⁴/m 63,4 kg/m²	Larssen 602 GU 8S	**- 29%** **- 25%**
	7 mm	IBO® - 846-7	Wy 846 cm³/m Iy 12.240 cm⁴/m 71,8 kg/m²	Larssen 602 GU 8S	**- 19%** **- 15%**
Larssen 603 Wy 1.200 cm³/m Iy 18.600 cm⁴/m 108,0 kg/m² AZ 12-770 Wy 1.245 cm³/m Iy 21.430 cm⁴/m 94,3 kg/m²	**6 mm**	IBO® - 1245-6	Wy 1.245 cm³/m Iy 26.474 cm⁴/m 70,9 kg/m²	Larssen 603 AZ 12-770	**- 34%** **- 25%**
	7 mm	IBO® - 1245-7	Wy 1.245 cm³/m Iy 24.688 cm⁴/m 78,0 kg/m²	Larssen 603 AZ 12-770	**- 27,8%** **- 17,3%**
	8 mm	IBO® - 1310-8	Wy 1.310 cm³/m Iy 23.620 cm⁴/m 87,1 kg/m²	Larssen 603 AZ 12-770	**- 19%** **- 8%**
Larssen 604 Wy 1.616 cm³/m Iy 30.400 cm⁴/m 123,0 kg/m²	**8 mm**	IBO® - 1616-8	Wy 1.616 cm³/m Iy 34.434 cm⁴/m 94,8 kg/m²	Larssen 604	**- 23%**
	9 mm	IBO® - 1757-9	Wy 1.757 cm³/m Iy 37.667 cm⁴/m 106,5 kg/m²	Larssen 604	**- 13%**
AZ 18-700 Wy 1.800 cm³/m Iy 37.800 cm⁴/m 109,3 kg/m²	**8 mm**	IBO® - 1805-8	Wy 1.805 cm³/m Iy 40.772 cm⁴/m 100,2 kg/m²	AZ 18-700	**- 8,3%**
	8 mm	VKZ® - 1850-8	Wy 1.850 cm³/m Iy 44.850 cm⁴/m 95,6 kg/m²	AZ 18-700	**- 21,5%**



On request we can make the required cover profile.

InfraRentals

Type	Wy	Iy	Width	Height	Thickness	Weight		Coating area
	cm³/m	cm⁴/m	mm	mm	t (mm)	kg/m¹	kg/m²	m²/m
IBO® 243-4	*243*	*1.852*	*1.293*	*150*	*4,0*	*48,0*	*37,1*	*2,32*
IBO® 415-4	*415*	*5.215*	*1.178*	*250*	*4,0*	*48,0*	*40,7*	*2,55*
IBO® 420-4	*420*	*5.465*	*1.499*	*260*	*4,0*	*57,6*	*38,4*	*2,40*
IBO® 619-4	*619*	*10.926*	*1.540*	*350*	*4,0*	*64,0*	*41,6*	*2,60*
IBO® 179-5	*179*	*838*	*803*	*90*	*5,0*	*40,0*	*50,0*	*2,49*
IBO® 238-5	*238*	*1.378*	*1.297*	*115*	*5,0*	*60,0*	*46,3*	*2,31*
IBO® 392-5	*392*	*3.698*	*1.544*	*186*	*5,0*	*72,0*	*46,6*	*2,33*
IBO® 400-5	*400*	*4.095*	*1.236*	*200*	*5,0*	*60,0*	*48,5*	*2,43*
IBO® 450-5	*450*	*5.182*	*1.504*	*230*	*5,0*	*72,0*	*47,2*	*2,39*

InfraRentals

Type	Wy	Iy	Width	Height	Thickness	Weight		Coating area
	cm^3/m	cm^4/m	mm	mm	t (mm)	kg/m^1	kg/m^2	m^2/m
IBO® 497-5	497	5.581	1.479	222	5,0	72,0	48,7	2,43
IBO® 530-5	530	7.060	1.660	255	5,0	80,0	48,2	2,41
IBO® 577-5	577	8.708	1.462	300	5,0	72,0	49,2	2,46
IBO® 619-5	619	9.747	1.643	300	5,0	80,0	48,7	2,43
IBO® 708-5	708	11.413	1.558	315	5,0	80,0	51,3	2,57
IBO® 772-5	772	12.829	1.513	330	5,0	80,0	52,9	2,64
IBO® 782-5	782	12.702	1.301	325	5,0	72,0	55,3	2,77
IBO® 867-5	867	17.804	1.492	410	5,0	80,0	53,6	2,68
IBO® 949-5	949	21.511	1.430	450	5,0	80,0	55,9	2,80
IBO® 361-6	361	2.724	1.267	150	6,0	72,0	56,8	2,37
IBO® 415-6	415	3.438	1.240	165	6,0	72,0	58,1	2,42
IBO® 480-6	480	4.657	1.535	196	6,0	86,4	56,3	2,35
IBO® 537-6	537	6.142	1.719	226	6,0	96,0	55,8	2,33
IBO® 616-6	616	7.897	1.477	255	6,0	86,4	58,5	2,44
IBO® 621-6	621	7.796	1.157	250	6,0	72,0	62,2	2,59
IBO® 728-6	728	10.068	1.406	272	6,0	86,4	61,5	2,56
IBO® 744-6	744	11.138	1.629	300	6,0	96,0	58,9	2,46
IBO® 815-6	815	13.548	1.591	330	6,0	96,0	60,3	2,51
IBO® 895-6	895	14.586	1.529	325	6,0	96,0	62,8	2,62
IBO® 973-6	973	17.715	1.494	360	6,0	96,0	64,3	2,68
IBO® 1149-6	1.149	25.564	1.380	425	6,0	96,0	69,6	2,90
IBO® 1245-6	1.245	26.474	1.354	425	6,0	96,0	70,9	2,95
IBO® 1552-6	1.552	38.867	1.205	500	6,0	96,0	79,7	3,32
IBO® 1245-7	1.245	24.688	1.436	395	7,0	112,0	78,0	2,79
IBO® 1267-7	1.267	26.224	1.426	408	7,0	112,0	78,6	2,81
IBO® 1292-7	1.292	25.404	1.200	390	7,0	100,8	84,0	3,00
IBO® 1319-7	1.319	26.413	1.400	400	7,0	112,0	80,0	2,86
IBO® 1349-7	1.349	32.009	1.308	436	7,0	112,0	85,7	3,06
IBO® 1350-7	1.350	27.360	1.385	405	7,0	112,0	80,9	2,89
IBO® 1438-7	1.438	30.932	1.351	430	7,0	112,0	82,9	2,96
IBO® 1535-7	1.535	34.645	1.305	450	7,0	112,0	85,8	3,07
IBO® 1770-7	1.775	46.721	1.214	525	7,0	112,0	92,3	3,29
IBO® 1207-8	1.207	19.666	1.471	320	8,0	128,0	87,0	2,72
IBO® 1208-8	1.208	19.696	1.271	320	8,0	115.2	90,6	2,83
IBO® 1214-8	1.214	21.248	1.515	350	8,0	128,0	84,5	2,64
IBO® 1217-8	1.217	19.814	1.489	325	8,0	128,0	86,0	2,69
IBO® 1245-8	1.245	19.167	712	305	8,0	80,0	112,4	3,51
IBO® 1310-8	1.310	23.620	1.470	360	8,0	128,0	87,1	2,72
IBO® 1451-8	1.451	28.495	1.410	391	8,0	128,0	90,8	2,84
IBO® 1455-8	1.455	27.662	1.202	380	8,0	115,2	95,8	3,00
IBO® 1743-8	1.743	40.134	1.309	460	8,0	128,0	97,8	3,06
IBO® 1805-8	1.805	40.772	1.278	450	8,0	128,0	100,2	3,13
IBO® 2023-8	2.023	50.619	1.206	500	8,0	128,0	106,1	3,32
IBO® 1060-8,5	1.060	16.066	1.584	300	8,5	136,0	85,9	2,53
IBO® 1255-8,5	1.255	21.525	1.514	342	8,5	136,0	89,8	2,64
IBO® 1759-8,5	1.759	39.015	1.334	440	8,5	136,0	102,0	3,00
IBO® 1866-8,5	1.866	42.034	1.294	450	8,5	136,0	105,4	3,09
IBO® 1225-9	1.225	19.303	1.338	315	9,0	129,6	96,9	2,69
IBO® 1265-9	1.265	21.870	1.540	345	9,0	144,0	93,5	2,60
IBO® 1307-9	1.307	23.582	1.528	360	9,0	144,0	94,2	2,62
IBO® 1757-9	1.757	37.667	1.352	420	9,0	144,0	106,5	2,96
IBO® 1814-9	1.814	38.577	1.346	425	9,0	144,0	107,0	2,97
IBO® 1295-10	1.295	19.777	1.537	300	10,0	160,0	104,1	2,60
IBO® 2032-10	2.032	44.717	1.340	440	10,0	160,0	119,4	2,99
IBO® 2158-10	2.158	50.269	1.298	465	10,0	160,0	123,3	3,08
IBO® 2825-10	2.825	79.494	1.113	560	10,0	160,0	143,8	3,59
IBO® 2448-10	2.448	70.625	1.008	577	10,0	160,0	158,7	3,97

Cold formed Profiles

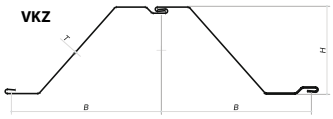
Type	Wy	Iy	Width	Height	Thickness	Weight		Coating area
		cm³/m	cm⁴/m	mm	mm	kg/m¹	kg/m²	m²/m
VKZ 471-5	471	5.421	809	230	5,0	40,0	49,4	2,22
VKZ 617-5	617	8.338	766	270	5,0	40,0	52,2	2,35
VKZ 644-5	644	9.785	766	304	5,0	40,0	52,2	2,35
VKZ 784-5	784	13.136	722	355	5,0	40,0	55,4	2,49
VKZ 965-5	965	20.516	676	425	5,0	40,0	59,2	2,66
VKZ 699-6	699	9.611	792	275	6,0	48,0	62,7	2,27
VKZ 783-6	783	11.939	748	305	6,0	48,0	64,1	2,41
VKZ 878-6	878	14.265	725	325	6,0	48,0	66,2	2,48
VKZ 1153-6	1.153	21.741	655	377	6,0	48,0	73,2	2,75
VKZ 1167-6	1.167	23.626	659	405	6,0	48,0	72,8	2,73
VKZ 1246-6	1.246	29.280	903	470	6,0	60,0	66,4	2,55
VKZ 491-7	491	4.293	794	175	7,0	56,0	70,5	2,27
VKZ 532-7	532	4.923	787	185	7,0	56,0	71,1	2,29
VKZ 846-7	846	11.628	737	275	7,0	56,0	75,9	2,44
VKZ 921-7	921	14.095	727	306	7,0	56,0	77,0	2,48
VKZ 1078-7	1.078	17.790	694	330	7,0	56,0	80,6	2,59
VKZ 1257-7	1.257	24.517	665	390	7,0	56,0	84,3	2,71
VKZ 1330-7	1.330	25.130	644	378	7,0	56,0	86,9	2,80
VKZ 1201-8	1.201	19.820	685	330	8,0	64,0	93,4	2,63
VKZ 1227-8	1.227	20.865	683	335	8,0	64,0	93,6	2,64
VKZ 1257-8	1.257	22.000	679	350	8,0	64,0	94,3	2,65
VKZ 1481-8	1.481	28.008	639	378	8,0	64,0	100,1	2,82
VKZ 1244-9	1.244	19.527	700	314	9,0	72,0	102,9	2,57
VKZ 1307-9	1.307	20.908	686	320	9,0	72,0	105,0	2,62
VKZ 1684-9	1.684	31.568	630	375	9,0	72,0	114,3	2,86
VKZ 1735-9	1.735	34.270	627	395	9,0	72,0	114,7	2,87
VKZ 1771-9	1.771	39.857	882	450	9,0	90,0	102,0	2,61
VKZ 1832-9	1.832	41.228	871	450	9,0	90,0	103,3	2,64
VKZ 1349-10	1.349	20.567	682	305	10,0	80,0	117,2	2,64
VKZ 1404-10	1.404	22.468	677	320	10,0	80,0	118,1	2,66
VKZ 1720-10	1.720	30.964	636	360	10,0	80,0	125,7	2,83
VKZ 1929-10	1.929	36.648	607	380	10,0	80,0	131,7	2,97
VKZ 2354-10	2.354	55.898	808	475	10,0	100,0	123,8	2,85
VKZ 2468-10	2.468	61.702	795	500	10,0	100,0	125,8	2,89
VKZ 2628-10	2.628	70.289	776	535	10,0	100,0	128,9	2,96
VKZ 3082-10	3.082	88.594	715	575	10,0	100,0	139,8	3,22

Manufactured in accordance with:
Technical delivery conditions in accordance with EN 10249-1. Tolerances in accordance with EN 10249-2.

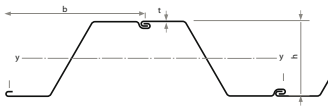
Steel qualities:
S 235, S 275, S 355 or Equivalent with 3.1 Certificate in accordance with EN 10204.

Standard availability:
Lengths up to 24.000 mm, longer lengths on request.

VKZ



IBZ



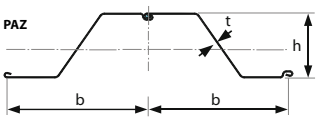
Alternatives for AZ-Profiles:

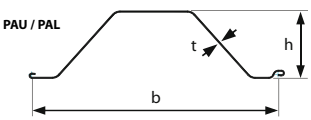
IBZ 5-850	656	11.160	850	340	5,0	42,8	50,4
IBZ 6-800	638	9.505	800	300	6,0	48,5	62,0
IBZ 7-725	730	10.727	725	300	6,0	45,0	60,4
IBZ 7-850	714	12.034	850	340	6,0	51,3	60,6
IBZ 8-725	846	11.540	725	271	7,0	52,0	71,7
IBZ 12-770	1.245	21.430	770	344	8,5	72,6	94,0
IBZ 12-850	1.205	24.651	850	420	7,0	44,3	75,3
IBZ 13-770	1.300	22.360	770	344	9,0	76,1	99,0
IBZ 13-850	1.318	26.360	850	400	8,0	73,1	86,0
IBZ 14-770	1.355	23.300	770	345	9,5	79,5	103,0
IBZ 17-700	1.730	36.330	700	420	8,5	73,1	104,4
IBZ 18-700	1.800	37.800	700	420	9,0	76,5	109,0
IBZ 18-850	1.805	43.335	850	480	9,0	85,9	101,1
IBZ 19-750	1.944	44.718	750	460	9,0	80,9	107,8
IBZ 20-700	1.945	40.950	700	421	10,0	83,3	119,0
IBZ 20-850	2.000	46.862	850	470	10,0	96,0	112,9
IBZ 24-700	2.430	55.768	700	459	11,2	95,7	136,7
IBZ 26-700	2.600	59.800	700	460	12,2	102,9	147,0
IBZ 28-700	2.760	63.620	700	440	13,2	110,0	157,0
IBZ 28-725	2.800	75.965	725	550	10,0	94,9	130,9
IBZ 33-700	3.285	82.929	700	500	12,0	76,7	163,0
IBZ 36-700	3.600	89.668	700	520	12,5	118,6	169,4
IBZ 37-700	3.710	92.415	700	499	12,5	124,5	177,8
IBZ 39-700	3.905	97.500	700	560	13,5	133,0	190,0
IBZ 42-750	4.231	116.350	750	550	13,0	141,6	188,8
IBZ 46-580	4.600	110.465	580	540	15,0	133,0	229,0
IBZ 48-750	4.805	124.921	750	520	15,0	172,4	229,8
IBZ 50-580	5.020	121.070	580	580	16,0	146,8	253,0

ArcelorMittal

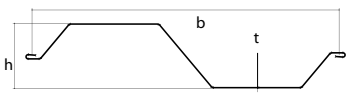
We are not able to offer products from ArcelorMittal from new production.

Type	Wy	Iy	Width	Height	Thickness	Weight		Coating area
	cm^3/m	cm^4/m	mm	mm	mm	kg/m^1	kg/m^2	m^2/m
PAZ 4350	448	4.770	770	213	5,0	38,2	49,6	2,30
PAZ 4360	534	5.720	770	214	6,0	45,8	59,4	2,30
PAZ 4370	619	6.660	770	215	7,0	53,3	69,2	2,30
PAZ 4450	612	8.240	725	269	5,0	37,7	52,0	2,36
PAZ 4460	730	9.890	725	270	6,0	45,1	62,2	2,36
PAZ 4470	846	11.535	725	271	7,0	52,4	72,3	2,36
PAZ 4550	772	12.065	676	312	5,0	37,7	55,8	2,62
PAZ 4560	922	14.444	676	313	6,0	45,1	66,7	2,62
PAZ 4570	1.069	16.815	676	314	7,0	52,4	77,5	2,62
PAZ 4650	940	16.318	621	347	5,0	37,7	60,7	2,86
PAZ 4660	1.122	19.544	621	348	6,0	45,1	72,6	2,86
PAZ 4670	1.302	22.756	621	349	7,0	52,4	84,4	2,86
PAZ 5360	766	11.502	857	300	6,0	54,3	63,3	2,54
PAZ 5370	888	13.376	857	301	7,0	63,2	73,7	2,54
PAZ 5380	1.009	15.249	857	302	8,0	72,1	84,0	2,54
PAZ 5390	1.131	17.123	857	303	9,0	81,0	94,4	2,54
PAZ 5460	968	16.989	807	351	6,0	53,9	66,8	2,54
PAZ 5470	1.123	19.774	807	352	7,0	62,6	77,6	2,54
PAZ 5480	1.277	22.546	807	353	8,0	71,4	88,4	2,54
PAZ 5490	1.431	25.318	807	354	9,0	80,2	99,3	2,54
PAZ 54100	1.570	27.850	808	355	10,0	89,2	110,3	2,54
PAZ 5560	1.233	25.074	743	407	6,0	53,9	72,5	2,76
PAZ 5570	1.432	29.179	743	408	7,0	62,6	84,3	2,76
PAZ 5580	1.628	33.263	744	409	8,0	71,4	96,0	2,76
PAZ 5590	1.825	37.387	744	410	9,0	80,2	107,8	2,76
PAZ 55100	2.000	41.060	745	411	10,0	89,2	119,8	2,76
PAZ 5660	1.525	34.340	671	451	6,0	53,9	80,3	2,76
PAZ 5670	1.770	39.954	671	452	7,0	62,6	93,3	3,06
PAZ 5680	2.013	45.537	672	453	8,0	71,4	106,3	3,06
PAZ 5690	2.259	51.180	672	454	9,0	80,2	119,3	3,06
PAZ 56100	2.470	56.200	673	455	10,0	89,2	132,2	3,06
PAL 3030	112	500	660	89	3,0	19,4	29,4	2,42
PAL 3040	147	666	660	90	4,0	25,8	39,2	2,42
PAL 3050	181	831	660	91	5,0	32,2	48,8	2,42
PAL 3130	199	1.244	711	125	3,0	23,5	33,1	2,72
PAL 3140	261	1.655	711	126	4,0	31,3	44,0	2,72
PAL 3150	322	2.063	711	127	5,0	39,0	54,9	2,72
PAL 3260	413	3.096	700	149	6,0	46,2	66,0	2,62
PAL 3270	479	3.604	700	150	7,0	53,2	76,0	2,62
PAL 3280	545	4.109	700	151	8,0	61,6	88,0	2,62
PAL 3290	605	4.611	700	152	9,0	70,0	100,0	2,62
PAU 2240	404	5.101	922	252	4,0	39,0	42,3	2,64
PAU 2250	504	6.363	921	253	5,0	48,7	52,8	2,64
PAU 2260	600	7.620	921	254	6,0	58,3	63,3	2,64
PAU 2440	537	7.897	813	293	4,0	39,0	48,0	3,00
PAU 2450	669	9.858	813	294	5,0	48,7	59,9	3,00
PAU 2460	801	11.813	813	295	6,0	58,3	71,8	3,00
PAU 2760	803	12.059	804	295	6,0	60,4	75,1	2,88
PAU 2770	934	14.030	804	296	7,0	70,4	87,5	2,88
PAU 2780	1.063	15.995	804	297	8,0	80,3	99,8	2,88





Type	Wy	Iy	Width	Height	Thickness	Weight		Coating area
	cm^3/m	cm^4/m	mm	mm	mm	kg/m^1	kg/m^2	m^2/m
MKU 130-3	130	778	795	120	3,0	24,0	30,2	2,31
MKU 520-8	520	4.811	1.170	185	8,0	96,0	82,1	2,39
MKU 940-8	940	15.291	1.531	325	8,0	128,0	83,6	2,48
MKU 1202-8	1.202	26.457	1.401	440	8,0	128,0	91,4	2,71



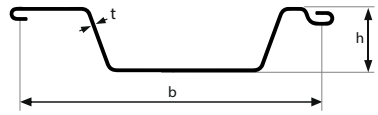
Cold formed Profiles

Omega-Hut-Profiles / Cold formed sheet piles from own production

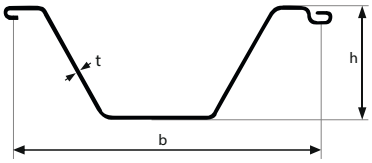
Type	Wy cm³/m	Iy cm⁴/m	Width mm	Height mm	Thickness mm	Weight kg/m	Weight kg/m²
MKL 3-4	307	2.209	700	150	4	32,4	46,3
MKL 3-5	381	2.753	700	152	5	40,4	57,7
MKL 3-6	451	3.369	700	154	6	48,5	69,3
MKL 3-7,2	541	4.004	700	156	7	56,3	80,4
MKL 3-8	594	4.460	700	158	8	64,2	91,7
MKL 3-9	664	5.120	700	160	9	72	102,9

Type	Wy cm³/m	Iy cm⁴/m	Width mm	Height mm	Thickness mm	Weight kg/m	Weight kg/m²
MKL 4-5	774	10.920	710	294	5	49,5	69,7
MKL 4-6	933	13.530	710	296	6	57,9	81,6
MKL 4-7	1.080	15.701	710	298	7	67,3	94,8
MKL 4-8	1.230	17.896	710	300	8	76,7	108,1
MKL 4-9	1.380	20.896	710	302	9	85,6	120,6

MKL 3



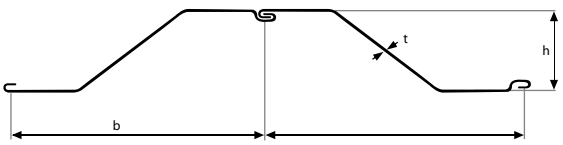
MKL 4



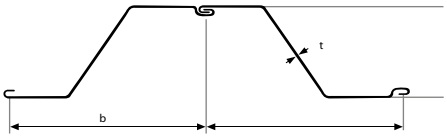
Type	Wy cm³/m	Iy cm⁴/m	Width mm	Height mm	Thickness mm	Weight kg/m	Weight kg/m²	*Coating area* m²/m
MKZ 785-5	605	8.395	785	276	5	41,9	53,4	2,52
MKZ 785-6	724	10.053	785	277	6	50,4	64,2	2,52
MKZ 785-7	836	11.657	785	278	7	58,4	74,4	2,52
MKZ 785-8	951	13.302	785	279	8	66,6	84,8	2,52
MKZ 785-9	1.067	14.944	785	280	9	74,8	95,3	2,52

Type	Wy cm³/m	Iy cm⁴/m	Width mm	Height mm	Thickness mm	Weight kg/m	Weight kg/m²	*Coating area* m²/m
MKZ 675-5	972	18.500	675	376	5	41,9	62,1	2,89
MKZ 675-6	1.164	22.131	675	377	6	50,4	74,7	2,89
MKZ 675-7	1.350	25.698	675	378	7	58,4	86,5	2,89
MKZ 675-8	1.540	29.332	675	379	8	66,6	98,7	2,89
MKZ 675-9	1.728	32.914	675	380	9	74,8	110,8	2,89

MKZ 785



MKZ 675



Cold formed Profiles

Trench Sheeting

Type	Wy cm³/m	Iy cm⁴/m	Breite mm	Höhe mm	Dicke mm	Gewicht kg/m	Gewicht kg/m²
MKD VI/6	182	726	600	78	6	37,5	62,5
MKD VI/8	242	968	600	80	8	50	83,3

MKD

Cold formed Profiles

Soldier pile wall with only one intermediate panel

New: Soldier pile wall with only one intermediate panel

Cold formed Profiles

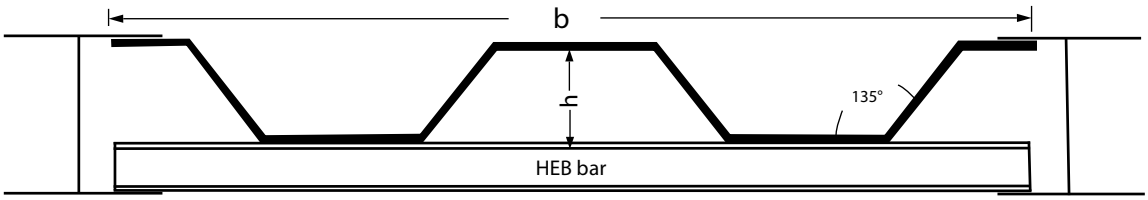
New: cold formed MKD intermediate panel for the modern, economical soldier pile wall

Advantages:

- *Approx. 60% weight saving compared to a smooth steel panel*
- *Great ramming progress due to only one large intermediate pile per girder panel*
- *High dimensional stability due to consolidation in 8 bending points*
- *Low deflection*
- *Same wall thickness of 10mm over the entire cross-section*
- *Easy insertion due to guidance on the beams*
- *High frequency of use as a holding screed due to low wear and tear*

Environmentally friendly:
CO_2 balance is significantly better with cold formed profiles

Type	Moment of resistance (elastic)	Moment of inertia	Profile width	Profile height	Profile thickness	Weight single plank	Weight wall
	cm^3/m	cm^4/m	mm	mm	mm	kg/m^1	kg/m^2
MKD 1500	381,7	2.107,5	1.350	110	10	120	88,9
MKD 1800	489,7	3.492,3	1.600	140	10	144	90,0
MKD 2000	540,0	4.081,1	1.784	150	10	160	89,7



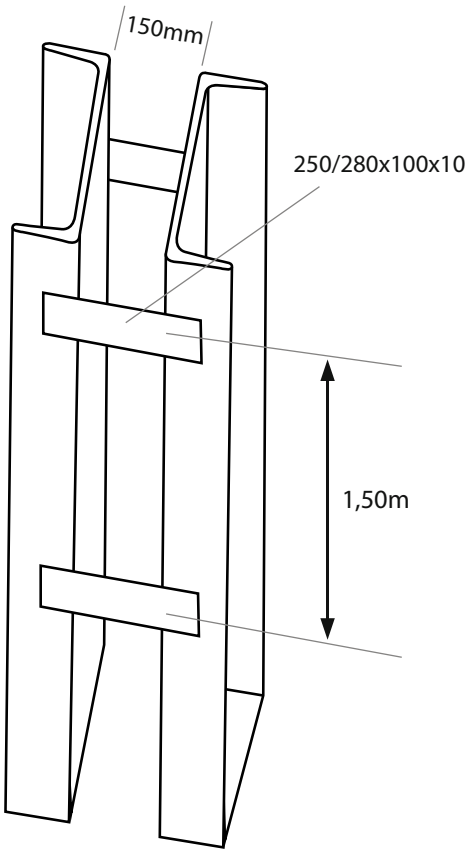
Double-U Profiles

Double-U profiles for soldier pile shoring

DU profiles are made of UPN shaped steel and welded according to EN1090, EXC 2.

- *Weld seam a = 4 mm*
- *Clear inside width: 150 mm*
- *Bracket size: 250/280x100x10*
- *Bracket spacing: 1.50 m*

Stapled foot plates, anchor support plates, sand plates and special profiles are also included in our scope of delivery, which is characterised by quality, speed and flexibility.

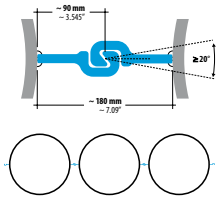


Profile	Height	Width	Wx*	Weight	Weight
U-Profile	mm	mm	cm³	kg/m U-Profile	kg/m DU-Profile
240	240	85	300	34	71,4
260	260	90	371	39	83,0
280	280	95	448	43	90,3
300	300	100	535	48	100,8
320	320	100	679	61	128,1
350	350	100	734	62	130,2
380	380	102	829	65	136,5
400	400	110	1.020	74	155,4

*single U-profile

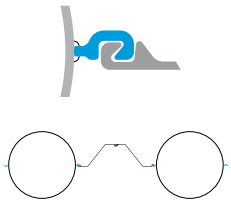
Combined walls

A combined wall is a compound wall that can consist of tubes and sheet piling, or beams and sheet piling. The sheet piling can be a Z-section or a U-section. Weld-on locks can be used to connect the tubes/beams to the sheet piling. Various combinations of tubes/beams and sheet piling are possible.

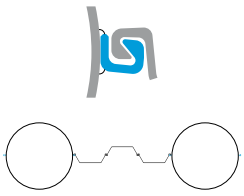


Pipe Pile Wall

Pipe Pile diameter x WT	Lock 2x	Moment of resistance	Moment of inertia	System width	Tube weight	Wall weight	Coating on both sides
mm	per pipe	cm^3/m	cm^4/m	mm	kg/m	kg/m^2	m^2/m
914 x 12.7	LPB 180	7.307	334.059	1.094	282,4	285,7	3,2
914 x 19.1	LPB 180	10.733	490.701	1.094	420,6	411,9	3,2
1067 x 19.1	LPB 180	12.939	690.167	1.247	492,2	419,0	3,7
1219 x 19.1	LPB 180	15.161	924.237	1.399	563,8	424,5	4,2

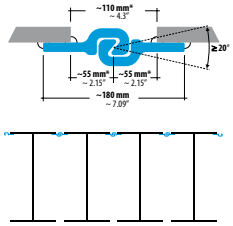


Pipe Pile diameter x WT	Double sheet piling	System width	Moment of resistance	Moment of inertia	Sheet pile length as a % to pipe length 100 %	80 %	60 %	Coating on both sides
mm	Z-profil	mm	cm^3/m	cm^4/m	kg/m^2	kg/m^2	kg/m^2	m^2/m
914.4 x 11.1	H1907	2.378	3.360	177.403	179.2	164,2	149,2	6,6
1067 x 12.7	H1907	2.530	4.593	272.215	201,0	186,9	172,8	7,1
1219 x 12.7	H1907	2.683	5.516	366.235	207,4	194,1	180,8	7,6
914.4 x 12.7	H2607	2.378	4.005	216.868	213,1	194,2	175,4	6,7
1067 x 15.9	H2607	2.530	5.812	348.961	251,3	233,5	215,8	7,2
1219 x 15.9	H2607	2.683	6.941	465.486	259,0	242,5	225,8	7,7



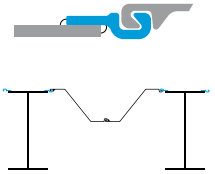
Pipe Pile diameter x WT	Sheet piling, 3-fold	System width	Moment of resistance	Moment of inertia	Sheet pile length as a % to pipe length 100 %	80 %	60 %	Coating on both sides
mm	U-profil	mm	cm^3/m	cm^4/m	kg/m^2	kg/m^2	kg/m^2	m^2/m
914.4 x 11.1	VL 603	2.778	2.781	127.144	165,7	150,4	135,0	7,68
1067 x 12.7	VL 603	2.931	3.942	210.331	185,3	170,8	156,3	8,16
1219 x 12.7	VL 603	3.083	4.829	294.359	191,7	177,8	164,0	8,64
914.4 x 12.7	VL 605	2.778	3.431	156.805	197,6	178,4	159,2	8,23
1067 x 15.9	VL 605	2.931	5.088	271.455	231,6	213,4	195,2	8,71
1219 x 15.9	VL 605	3.083	6.162	375.573	239,5	222,3	204,9	9,19

Combined walls

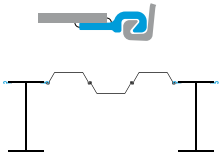


King Pile Wall

King Pile	Lock 2x	Moment of resistance	Moment of inertia	System width	Pipe weight	Wall weight	Coating on both sides
	per beam	cm^3/m	cm^4/m	mm	mm	kg/m	m^2/m
IHZ 880M A	LPB 180	9.185	410.770	511,8	831,3	261,8	1,14
IHZ 1080M A	LPB 180	13.980	799.480	507,8	1075,3	323,6	1,14
IHZ 1080M C	LPB 180	16.530	943.630	509,8	1075,3	374,6	1,14
IHZ 1180M C	LPB 180	18.785	1.078.560	512,8	1075,4	422,7	1,14



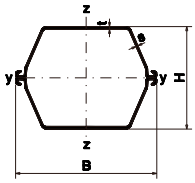
King Pile	Double sheet piling	System width	Moment of resistance	Moment of inertia	Sheet pile length as a % to pipe length			Coating on both sides
					100 %	80 %	60 %	
	Z-profil	mm	cm^3/m	cm^4/m	kg/m^2	kg/m^2	kg/m^2	m^2/m
IHZ 880M A	H1907	1.927	5.403	241.653	218,8	198,8	178,9	2,48
IHZ 1080M A	H1907	1.923	7.769	444.183	251,4	231,3	211,4	2,47
IHZ 1180M A	H1907	1.927	10.241	588.033	302,2	282,3	262,3	2,48
IHZ 880M A	H2607	1.927	5.735	256.420	242,5	217,8	193,1	2,55
IHZ 1080M A	H2607	1.923	8.025	458.990	275,1	250,3	225,6	2,55
IHZ 1180M A	H2607	1.927	10.500	602.790	325,9	301,2	276,5	2,55



King Pile	Sheet piling, 3-fold	System width	Moment of resistance	Moment of inertia	Sheet pile length as a % to pipe length			Coating on both sides
					100 %	80 %	60 %	
	U-profil	mm	cm^3/m	cm^4/m	kg/m^2	kg/m^2	kg/m^2	m^2/m
IHZ 880M A	VL 603	2.358	4.101	189.687	174,9	158,6	144,3	3,02
IHZ 1080M A	VL 603	2.354	6.061	355.539	201,4	186,1	170,7	3,02
IHZ 1180M A	VL 603	2.358	8.238	473.730	243,2	227,9	212,6	3,02
IHZ 880M A	VL 605	2.358	4.454	206.003	192,8	173,9	155,0	3,30
IHZ 1080M A	VL 605	2.354	6.340	371.872	219,3	200,4	181,5	3,29
IHZ 1180M A	VL 605	2.358	8.522	490.035	261,1	242,2	223,3	3,30

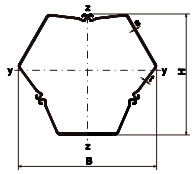
Different projects have different requirements. Our structural engineers will calculate the most cost-efficient combined wall solution for you, duly considering all the aspects that apply to you and your project.

Steel posts



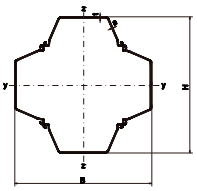
LP

Type	Wy	Wz	Self-load	Dimensions b	h	t	s	Size completion	Area Steel section	Iy	Lz	Iy
	cm³	cm³	kg/m	mm	mm	mm	mm	cm	cm²	cm⁴	cm⁴	cm
LP 601	1.030	1.530	92,6	634	351	7,5	6,4	188	118,0	18.200	48.500	12,4
LP 602	1.190	1.760	106,8	634	351	8,4	7,6	188	136,0	20.800	55.800	12,4
LP 603	1.700	2.210	128,4	638	364	9,6	8,2	202	163,6	30.900	70.500	13,7
LP 603C	1.850	2.580	144,2	638	368	10,0	10,0	202	183,8	34.000	82.300	13,4
LP 604	2.210	2.590	146,2	638	434	10,0	9,0	214	186,2	48.000	82.600	16,0
LP 604C	2.280	2.610	150,4	638	434	10,4	9,2	214	191,6	49.200	83.200	16,0
LP 605	2.730	2.730	164,2	638	466	12,3	9,2	218	209,0	63.300	87.100	17,4
LP 605C	2.830	2.870	171,4	638	466	12,4	10,0	218	218,4	66.000	91.500	17,4
LP 606	3.400	2.860	187,8	635	475	15,8	9,3	218	239,2	80.500	90.800	18,3
LP 606C	3.726	3.077	204,6	636	479	17,5	10,3	218	260,6	89.200	97.800	18,5
LP 606L	2.970	2.740	170,8	635	475	13,4	9,0	218	217,6	70.400	87.000	18,0
LP 607	4.190	3.427	224,8	638	502	19,0	10,6	199	286,3	105.163	109.326	19,2
LP 504K	1.870	1.870	140,6	536	384	13,0	9,3	184	179,2	35.700	50.100	14,1
LP 504L	1.640	1.780	127,0	536	384	11,2	8,7	184	161,8	31.400	47.700	13,9
LP 507A	3.190	2.371	184,7	536	385	17,5	10,2	203	235,2	76.940	63.540	18,1



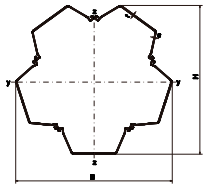
LD

Type	Wy	Wz	Self-load	Dimensions b	h	t	s	Size completion	Area Steel section	Iy	Lz	Iy
	cm³	cm³	kg/m	mm	mm	mm	mm	cm	cm²	cm⁴	cm⁴	cm
LD 601	3.170	3.010	138,9	747	728	7,5	6,4	284	177,0	112.400	112.600	25,2
LD 602	3.640	3.470	204,0	747	728	8,4	7,6	284	204,0	128.900	129.500	25,1
LD 603	4.660	4.110	192,6	821	739	9,6	8,2	300	245,4	168.800	168.500	26,2
LD 603C	5.220	4.600	216,3	821	739	10,0	10,0	300	275,7	188.900	189.000	26,2
LD 604	5.360	4.840	219,3	880	774	10,0	9,0	317	279,3	212.700	212.700	27,6
LD 604C	5.510	4.970	225,6	880	774	10,4	9,2	317	287,4	218.700	218.600	27,6
LD 605	6.180	5.570	246,3	902	790	12,3	9,2	324	313,5	262.100	248.200	28,9
LD 605C	6.440	5.810	257,1	902	790	12,4	10,0	324	327,6	273.400	259.000	28,9
LD 606	6.990	6.280	281,7	905	792	15,8	9,3	324	358,8	290.600	286.100	28,5
LD 606C	7.620	7.070	306,9	907	792	17,5	10,3	324	390,9	320.800	320.570	28,7
LD 606L	6.320	5.660	256,2	905	792	13,4	9,0	324	326,4	263.000	257.800	28,4
LD 607	8.478	7.898	429,5	923	807	19,0	10,6	331	429,5	364.602	364.602	29,1
LD 504K	4.160	4.030	210,9	737	659	13,0	9,3	272	268,8	138.700	149.000	22,7
LD 504L	3.760	3.650	190,5	737	659	11,2	8,7	272	242,7	125.200	135.100	22,7
LD 507A	5.847	5.553	277,0	822	718	17,5	10,2	300	352,8	228.300	228.300	25,5



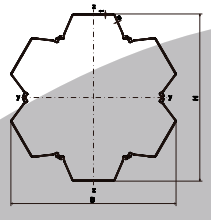
LV

Type	Wy	Wz	Self-load	Dimensions b	h	t	s	Size completion	Area Steel section	Iy	Lz	Iy
	cm³		kg/m	mm	mm	mm	mm	cm	cm²	cm⁴		cm
LV 601	5.330		185,2	970	970	7,5	6,4	368	236,0	258.500		33,1
LV 602	6.110		213,6	970	970	8,4	7,6	368	272,0	296.600		33,0
LV 603	7.770		256,8	990	990	9,6	8,2	395	327,2	384.600		34,3
LV 603C	8.670		288,4	990	990	10,0	10,0	395	367,6	429.000		34,2
LV 604	8.960		292,4	1.060	1.060	10,0	9,0	418	372,4	474.900		35,7
LV 604C	9.220		300,8	1.060	1.060	10,4	9,2	418	383,2	488.600		35,7
LV 605	10.170		328,4	1.090	1.090	12,3	9,2	428	418,0	554.100		36,4
LV 605C	10.590		342,8	1.090	1.090	12,4	10,0	428	436,8	577.300		36,4
LV 606	11.810		375,6	1.100	1.100	15,8	9,3	428	478,4	649.700		36,9
LV 606C	12.860		409,2	1.100	1.100	17,5	10,3	428	521,2	708.690		36,9
LV 606L	10.650		341,6	1.100	1.100	13,4	9,0	428	435,2	585.800		36,7
LV 607	14.329		449,6	1.126	1.126	19,0	10,6	439	572,6	806.845		37,5
LV 504K	7.150		281,2	905	905	13,0	9,3	360	358,4	323.700		30,1
LV 504L	6.440		254,0	905	905	11,2	8,7	360	323,6	291.300		30,0
LV 507A	9.863		369,0	1.004	1.004	17,5	10,2	398	470,5	494.880		32,5



LF

Type	Wy	Wz	Self-load	Dimensions b	h	t	s	Size completion	Area Steel section	Iy	Lz	Iy
	cm³	cm³	kg/m	mm	mm	mm	mm	cm	cm²	cm⁴	cm⁴	cm
LF 604	13.520	12.970	365,5	1.352	1.290	10,0	9,0	524	465,5	879.600	876.800	43,5
LF 604C	13.920	13.680	376	1.352	1.290	10,4	9,2	524	479,0	905.600	906.600	43,4
LF 605	15.380	14.820	410,5	1.379	1.315	12,3	9,2	535	522,5	1.024.600	1.022.300	44,3
LF 605C	16.040	15.460	428,5	1.379	1.315	12,4	10,0	535	546,0	1.067.700	1.066.200	44,2
LF 606	17.810	17.220	469,5	1.382	1.318	15,8	9,3	535	598,0	1.191.600	1.189.600	44,6
LF 606C	19.470	18.850	511,5	1.380	1.320	17,5	10,3	535	651,5	1.309.350	1.300.600	44,8
LF 606L	16.070	15.510	427,0	1.382	1.318	13,4	9,0	535	544,0	1.074.700	1.071.700	44,5
LF 504K	10.870	10.530	351,5	1.140	1.088	13,0	9,3	450	448,0	602.100	600.600	36,7
LF 504L	9.780	9.480	317,5	1.140	1.088	11,2	8,7	450	404,5	541.800	540.700	36,6
LF 507A	14.880	14.492	461,5	1.230	1.177	17,5	10,2	495	588,0	897.571	891.281	39,1
LF 607	21.630	20.975	562,0	1.404	1.342	19,0	10,6	485	716,0	1.478.950	1.472.440	45,5



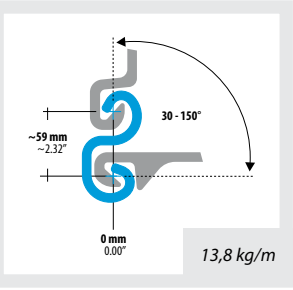
LS

Type	Wy	Wz	Self-load	Dimensions b	h	t	s	Size completion	Area Steel section	Iy	Lz	Iy
	cm³	cm³	kg/m	mm	mm	mm	mm	cm	cm²	cm⁴	cm⁴	cm
LS 604	18.590	19.480	438,6	1.504	1.535	10,0	9,0	632	558,6	1.427.300	1.464.600	50,6
LS 604C	19.610	20.050	451,2	1.504	1.535	10,0	9,0	632	574,8	1.470.600	1.508.000	50,6
LS 605	21.230	22.200	492,6	1.524	1.569	12,3	9,2	646	627,0	1.665.000	1.691.500	51,5
LS 605C	22.100	23.150	514,2	1.524	1.569	12,4	10,0	646	655,2	1.734.000	1.763.200	51,4
LS 606	24.630	25.690	563,4	1.524	1.573	15,8	9,3	646	717,6	1.936.700	1.958.200	52,0
LS 606C	26.880	28.280	613,8	1.536	1.569	17,5	10,3	646	781,8	2.106.050	2.168.900	52,7
LS 606L	22.160	23.190	512,4	1.524	1.573	13,4	9,0	646	652,8	1.742.900	1.767.200	51,7
LS 504K	15.050	15.850	421,8	1.257	1.308	13,0	9,3	544	537,6	984.100	995.900	42,8
LS 504L	13.520	14.260	381,0	1.257	1.308	11,2	8,7	544	485,4	884.100	896.400	42,7
LS 507A	20.694	20.973	553,8	1.313	1.421	17,5	10,2	594	705,6	1.471.031	1.377.572	45,7
LS 607	29.840	31.430	674,4	1.552	1.595	19,0	10,6	658	859,2	2.379.840	2.439.270	52,6

Corner sections

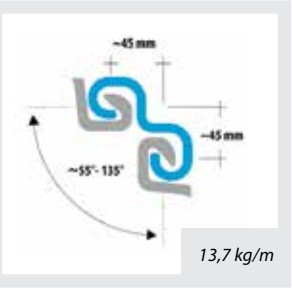
InfraRentals offers a fitting solution from stock for every possible corner connection you might need. InfraRentals is happy to advise you on tailor-made solutions and/or connections between different types of sheet piling sections. If you find yourself without the time or ability to weld the corner sections to your sheet piling, leave that to us. Please refer to the website for PZ corner solutions.

LV20 Larssen / Z



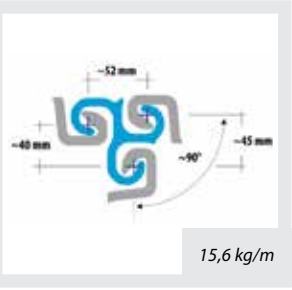
13,8 kg/m

LVO (Omega) Larssen / Z



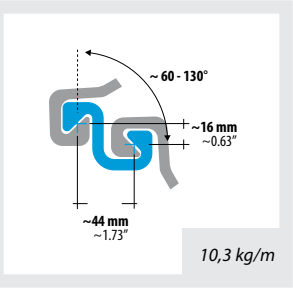
13,7 kg/m

LTn (VTS) Larssen / Z



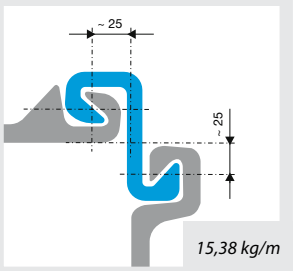
15,6 kg/m

L90 Larssen / Z



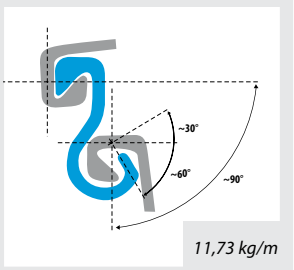
10,3 kg/m

E-20 Larssen / Z



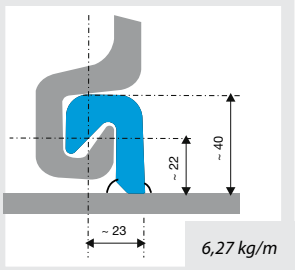
15,38 kg/m

E-20 XL Larssen / Z



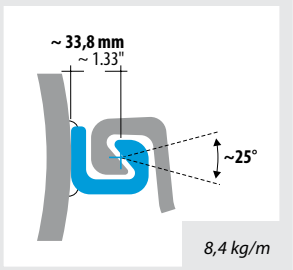
11,73 kg/m

E-21 Larssen / Z



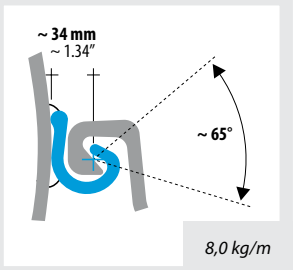
6,27 kg/m

L8 / E22 Larssen / Z



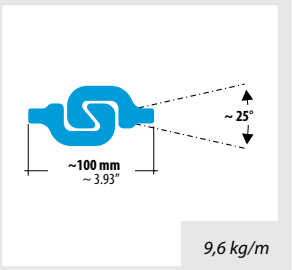
8,4 kg/m

LV22 Larssen / Z



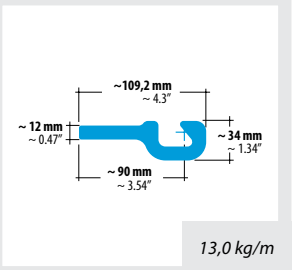
8,0 kg/m

LPB 100 -10 Larssen / Z



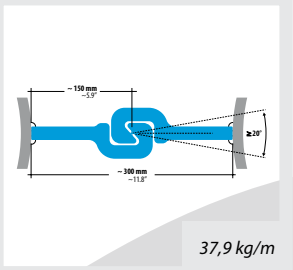
9,6 kg/m

LPB 180 -10 Larssen / Z



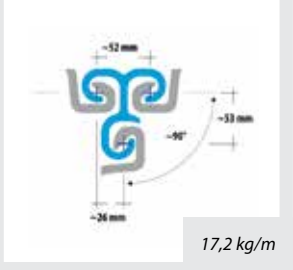
13,0 kg/m

LPB 300-20 Larssen / Z



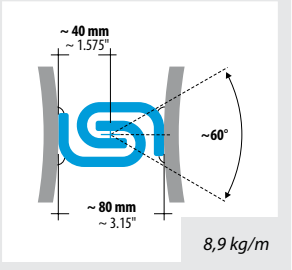
37,9 kg/m

LOTn (VT) Larssen / Z



17,2 kg/m

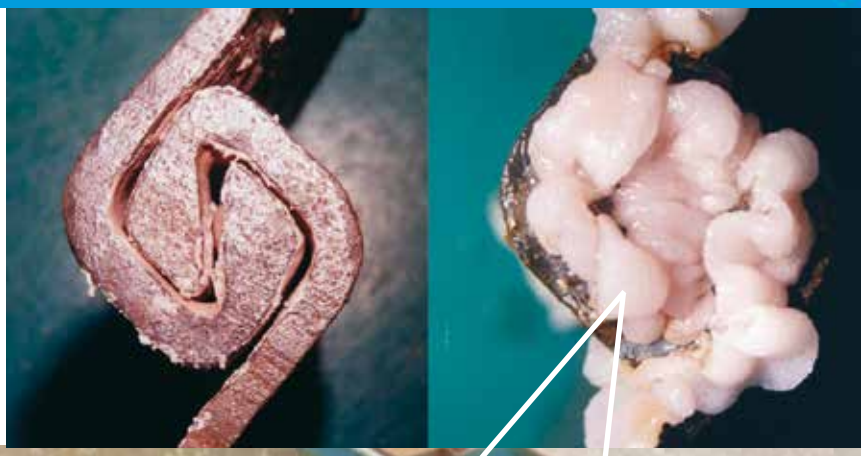
CF Cold formed



8,9 kg/m

Pile Lock

Pile Lock is the best option when the sealing needs to be completely waterproof. This product expands up to 20 times its original volume when it comes into contact with water. This way we can guarantee a 100% waterproof solution.We have the unique exclusive right within Europe for Pile Lock lock seals with plastic (PU).



Pertex Bituminous filling

This type of interlock sealing is very interesting from an economic point of view and reduces leaking to a large extent.

Standard

On request

Interlock Sealing

InfraRentals Expanding Seal

When maximum tightness is required for sheet piling, especially in landfill construction with contaminated soil, a polyurethane (PU) based interlock seal provides the solution in many cases. InfraRentals Expanding Seal is a product that leads to a watertight wall. The water-swellable polyurethane (PU) based sealant swells on contact with moisture up to 350% of its original dry state. It is applied to the sheet pile wall interlocks prior to site with a simple putty gun to seal them.

InfraRentals Expanding Seal has been specifically designed for the following applications

- *Sealing of interlocks between sheet piles.*
- *Sealing of construction joints in cast-in-place concrete in a damp substrate.*
- *Sealing of joints in prefabricated concrete elements (shafts, cable or pipe penetrations in wet or underwater conditions).*

Advantages of InfraRentals Expanding Seal

- *Due to its special composition, InfraRentals Expanding Seal can be applied to damp substrates and also under water.*
- *InfraRentals Expanding Seal can be applied to steel, concrete, PVC and HDPE.*
- *The excellent adhesion and backfilling properties of InfraRentals Expanding Seal. The excellent adhesion and filling properties of InfraRentals Expanding Seal allow safe void filling even on damp and uneven surfaces.*
- *In contact with water, InfraRentals Expanding Seal swells to approximately 350% of its original dry state.*
- *InfraRentals Expanding Seal is a very flexible sealant and can adapt to uneven surfaces.*
- *Easy installation with a standard putty gun.*
- *InfraRentals Expanding Seal is functional for the life of the structure.*
- *Excellent chemical resistance.*
- *Resistant to petroleum products, mineral and organic oils and greases.*
- *InfraRentals Expanding Seal is environmentally friendly.*

Environmental friendliness

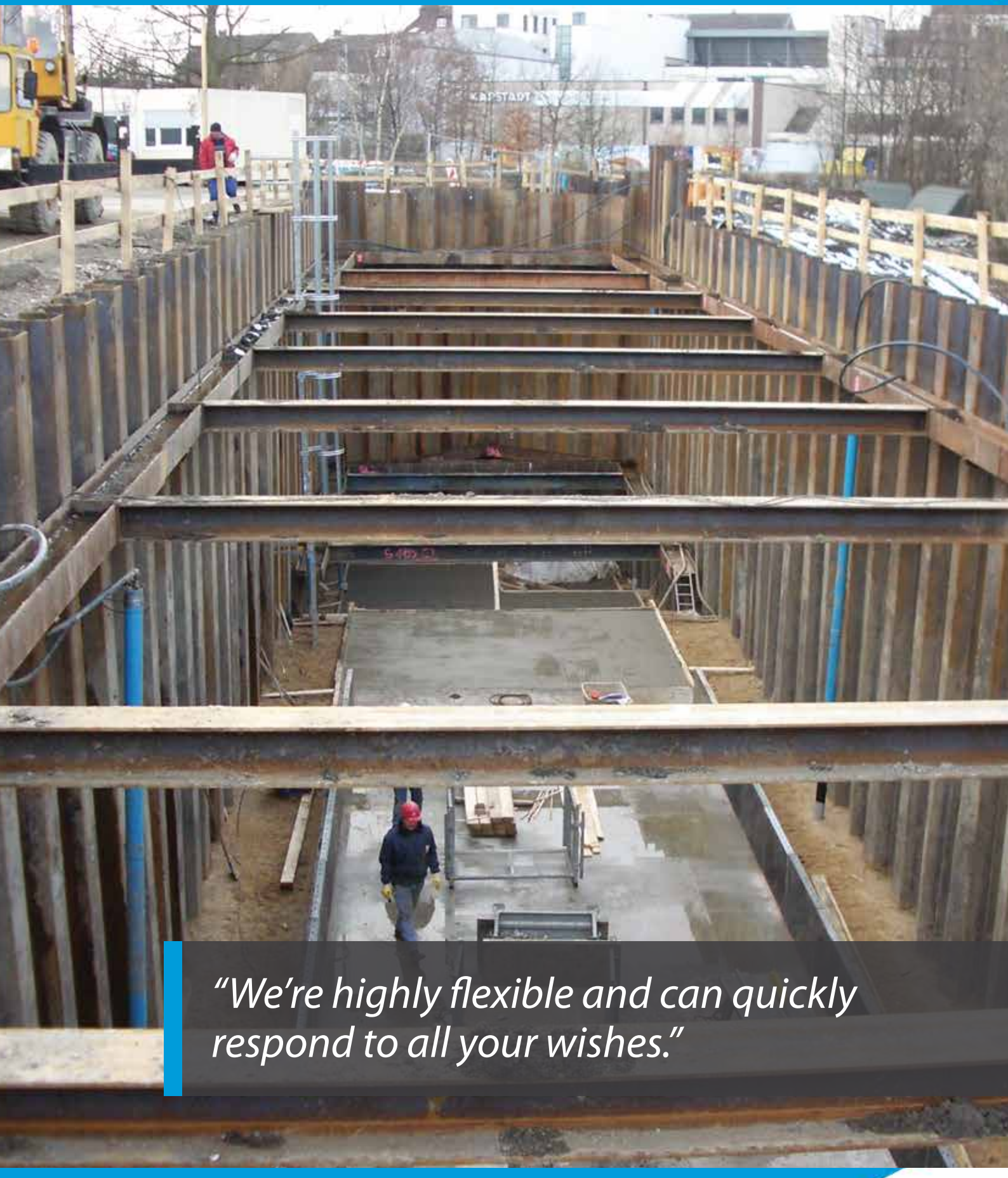
- *InfraRentals Expanding Seal is a water-swellable, solvent-free, elastic polyurethane-based sealant.*
- *InfraRentals Expanding Seal swells and reacts when water or moisture is present. Curing depends on temperature and humidity. High temperature and high humidity result in faster curing time. Curing of InfraRentals Expanding Seal takes approximately 24-36 hours. After curing, the estimated service life is approximately 100 years. During its life cycle, InfraRentals Expanding Seal does not release any substances that are harmful to the environment, groundwater or soil.*

Application

Swells 24-36 hours after application

Consumption

Nozzle diameter	*600 ml Length (sausage)*
3 mm	*40 - 50 m*
6 mm	*16 - 20 m*
8 mm	*8 - 10 m*
10 mm	*Ca. 6 m*



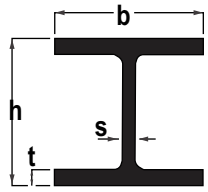
"We're highly flexible and can quickly respond to all your wishes."

Steel beams

HEA	Section	Width mm (w)	Height mm (h)	Moment of resistance Wx cm³	Weight kg/m¹	Flange Thickness mm (s)	Back Thickness mm (t)
	200	200	190	389	43	6,5	10
	220	220	210	515	52	7	11
	240	240	230	675	62	7,5	12
	260	260	250	836	70	7,5	12,5
	280	280	270	1.010	78	8	13
	300	300	290	1.260	90	8,5	14
	320	300	310	1.480	100	9	15,5
	340	300	330	1.680	108	9,5	16,5
	360	300	350	1.890	115	10	17,5
	400	300	390	2.310	128	11	19
	450	300	440	2.900	143	11,5	21
	500	300	490	3.550	159	12	23
	550	300	540	4.150	170	12,5	24
	600	300	590	4.790	182	13	25
	650	300	640	5.470	195	13,5	26
	700	300	690	6.240	209	14,5	27

HEB	Section	Width mm (w)	Height mm (h)	Moment of resistance Wx cm³	Weight kg/m¹	Flange Thickness mm (s)	Back Thickness mm (t)
	200	200	200	570	63	9	15
	220	220	220	736	73	9,5	16
	240	240	240	938	85	10	17
	260	260	260	1.150	95	10	17,5
	280	280	280	1.380	106	10,5	18
	300	300	300	1.680	120	11	19
	320	300	320	1.930	130	11,5	20,5
	340	300	340	2.160	137	12	21,5
	360	300	360	2.400	146	12,5	22,5
	400	300	400	2.880	159	13,5	24
	450	300	450	3.550	175	14	26
	500	300	500	4.290	192	14,5	28
	550	300	550	4.970	204	15	29
	600	300	600	5.700	217	15,5	30
	650	300	650	6.480	231	16	31
	700	300	700	7.340	247	17	32
	800	300	800	8.980	269	17,5	33
	900	300	900	10.980	298	18,5	35
	1.000	300	1.000	12.890	322	19	36

HEM	Section	Width mm (w)	Height mm (h)	Moment of resistance Wx cm³	Weight kg/m¹	Flange Thickness mm (s)	Back Thickness mm (t)
	200	206	220	967	106	15	25
	220	226	240	1.220	120	15,5	26
	240	248	270	1.800	161	18	32
	260	268	290	2.160	176	18	32,5
	280	288	310	2.550	194	18,5	33
	300	310	340	3.480	244	21	39
	320	309	359	3.800	251	21	40
	340	309	377	4.050	254	21	40
	360	308	395	4.300	256	21	40
	400	307	432	4.820	262	21	40
	450	307	478	5.500	270	21	40
	500	306	524	6.180	277	21	40
	550	306	572	6.920	285	21	40
	600	305	620	7.660	292	21	40
	650	305	668	8.430	300	21	40
	700	304	716	9.200	309	21	40
	800	303	814	10.870	325	21	40
	900	302	910	12.540	341	21	40
	1.000	302	1.008	14.330	358	21	40



InfraRentals is the right place for you to rent I-beams. We have a large number of HEA, HEB and HEM beams in stock for you. As a result, we're highly flexible and can quickly respond to your wishes. The sections can be used as waling in sheet-piled excavations, as temporary support structures for bridges or flyovers and in any other imaginable project.

"We can supply the tubular sections at any desired length according to your wishes."

Steel tubes

InfraRentals is the right place for you to rent tubes. We have a large number of the most common tubes in stock for you, both with longitudinal welding, spiral welding and seamless sections. Tubes can be used for a wide variety of projects. Examples include edge girders for scaffolding, waling in sheet-piled excavations, shoring structures and any other imaginable project. We can supply the tubes at any desired length according to your wishes.

We can cut, flange, blast, coat and perform various types of welding work. Our tubes have all the required certificates, but we can also supply sections without certificates where required or possible.

Tubes with spiral welding:		
Diameter (mm)	***Thickness (mm)***	***Available steel qualities:***
219 - 3.200	*3,5 - 26*	*In accordance with EN standard, DIN standard, Ghost standard, API 5L and ASTM, available with or without requested certification.*

Tubes with longitudinal welding:		
Diameter (mm)	***Thickness (mm)***	***Available steel qualities:***
21,3 - 3.200	*2,0 - 45*	*In accordance with EN standard, DIN standard, Ghost standard, API 5L and ASTM, available with or without requested certification.*

Seamless tubes:		
Diameter (mm)	***Thickness (mm)***	***Available steel qualities:***
21,3 - 711	*2,5 - 120*	*In accordance with GB standard, EN standard and DIN standard and ASTM standard. All tubes are certified in accordance with EN 10204/3.1*

"Excellence in Steel since 1898."

Thick-walled tubes from our own production

The highest quality

From now on InfraRentals takes over the distribution for the products of the company MCE Aschersleben with the main focus on process industry and steel hydraulic engineering.

Especially for infrastructure measures, MCE Aschersleben manufactures all kinds of structural tubes as foundation elements in the onshore and offshore area for wind power plants and for port construction.

Also dolphin constructions, heavy chords and double U-beams are manufactured and sold.

All desired welded steel constructions can be offered and delivered with the required verifications.

Tubes & Pipes

Up to 160 mm wall thickness

Up to 80.000 mm length

1100 pressure equipments since 1951

Up to 6.000 mm diameter

Up to 200 t weight

20.000 mt annual capacity in structural piles

Certifications	Welding processes	Surface treatment	Testing equipment
DIN EN ISO 9001 : 2008	TIG	Sandblasting	Radiographic test
DIN EN ISO 3834	SMAW	Corrosion protection	Ultrasonic test
DGRL	E	Coating	Magnetic particle test
AD HP 0	MIG / MAG	Rubber lining	Dye penetration test
AD W		CPL	Pressure test
WHG		PE-, PP-, PVC - lining	
DIN EN 1090 Exec.4			
DIN EN 10219			
ASME Boiler & Pressure Vessel Code (U+S)			

Global footprint in 40 countries at 5 continents

InfraRentals Series Brace is a modular system designed & engineered to maintain excavation integrity, it allows flexibility on site and saves time and money. Most importantly it provides a safe working environment.

Advantages:

- *The first bracing system that is hydraulically pretensioned and mechanically secured*
- *Easy and quick to install*
- *Versatile on site*
- *Time and money saving*
- *Easy and fast assembly*

0.5mtr, 1mtr, 2mtr, 3mtr & 6mtr Modules, InfraRentals Series fits together with a full shear capacity joint, secured with one pin. This simple, easy assembly requires minimal training, saving time on site layout.

Reduced Weight

The brace is lighter than conventional method of steel pipe strutting, this is why smaller machines can also be used on the construction site.

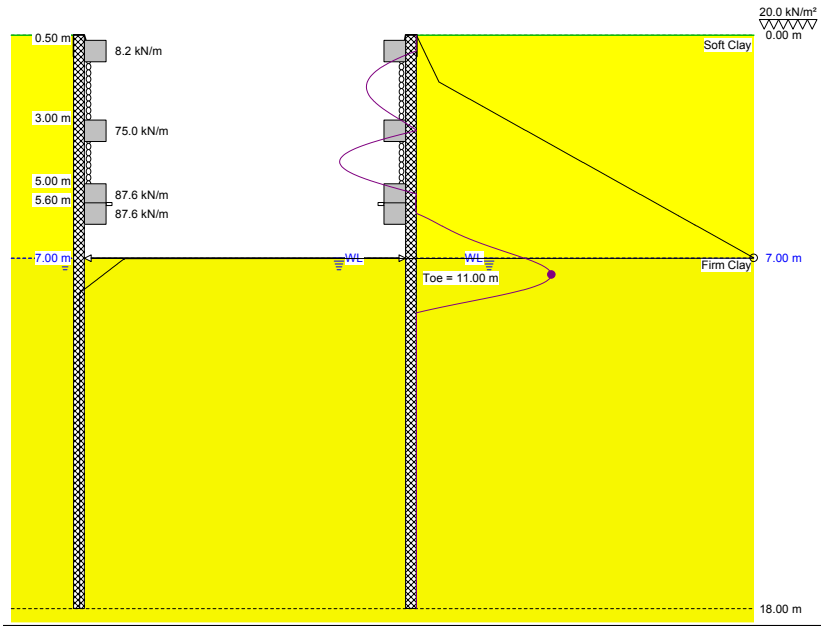
Over-dig Allowance

The InfraRentals series hydraulic unit extends up to 700mm, allowing an overall overlap of up to 200mm. This means that if over-digging occurs, the hydraulic unit can extend 200mm to cover the gap between the modules, creating dig flexibility and convenience on site.

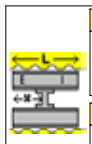
Safe Cross Bracing

Cross brace connections points have been designed into the modules. This allows a positive connection between the module and the cross brace

Bracing system



Maximum	d (m)
○ 110.0 kN/m²	6.99
● 0.3 mm	7.51

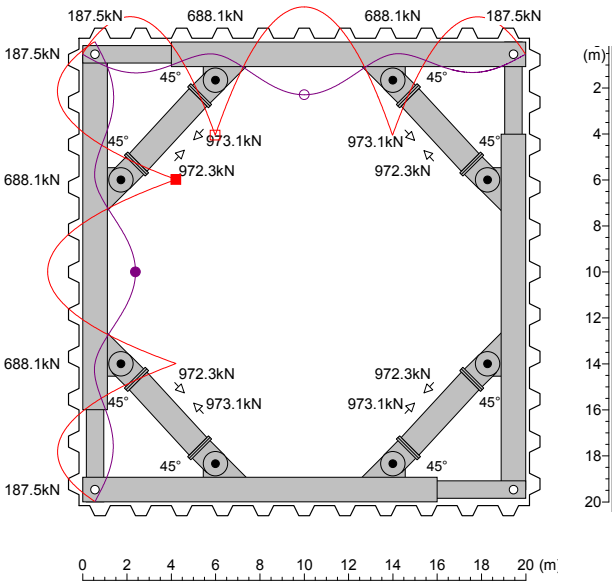


	x (m)	R (kN)	M (kNm)
L = 20.00 m	0.00	187.5	0.0
E = 2.1E+08 kN/m²	6.00	688.1	442.3
I = 60180.0 cm⁴	14.00	688.1	442.3
M_x = 1504.7 kNm	20.00	187.5	0.0

	Maximum	x (m)
Bending Moment (kNm)	□ 442.3	5.98
Shear Force (kN)	351.7	5.97
Deflection (mm)	○ 9.0	10.00

	x (m)	R (kN)	M (kNm)
B = 20.00 m	0.00	187.5	0.0
E = 2.1E+08 kN/m²	6.00	688.1	442.3
I = 25170.0 cm⁴	14.00	688.1	442.3
M_x = 595.0 kNm	20.00	187.5	0.0

	Maximum	x (m)
Bending Moment (kNm)	■ 442.3	5.98
Shear Force (kN)	351.7	5.97
Deflection (mm)	● 21.4	10.00

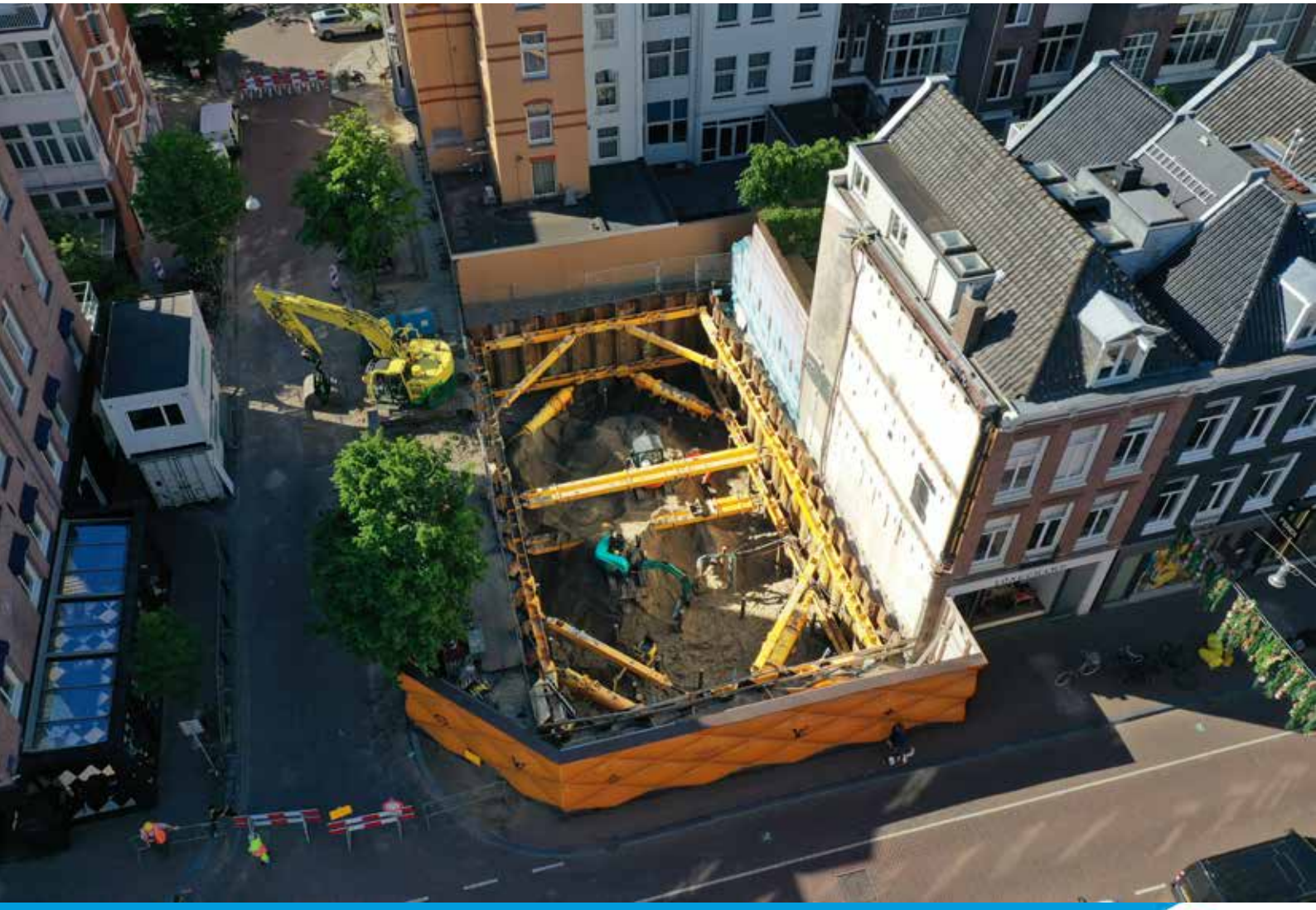


Bracing system:

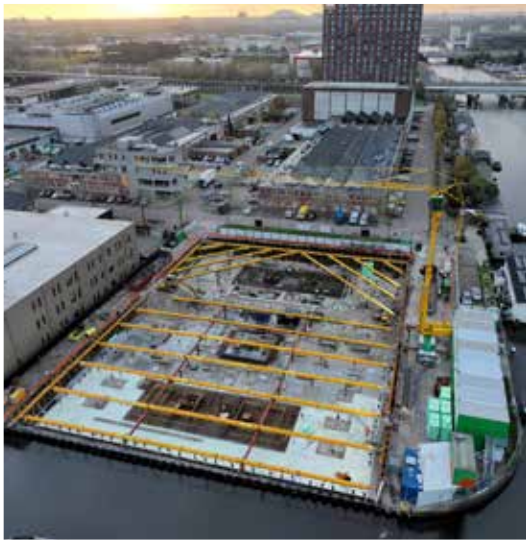
- *InfraRentals Series Brace can be used in conjunction with all Steel Sheet Piles U & Z Type and trench sheet.*
- *InfraRentals Series is not restricted to size or shape it is versatile in every aspect.*
- *InfraRentals Bracing offers a preliminary design, outlining the sheets and the amount of bracing needed to secure your excavations.*
- *With standardized dimensions of all elements is ideal for creating preliminary designs for construction pits quickly and reliably.*

Stock location:

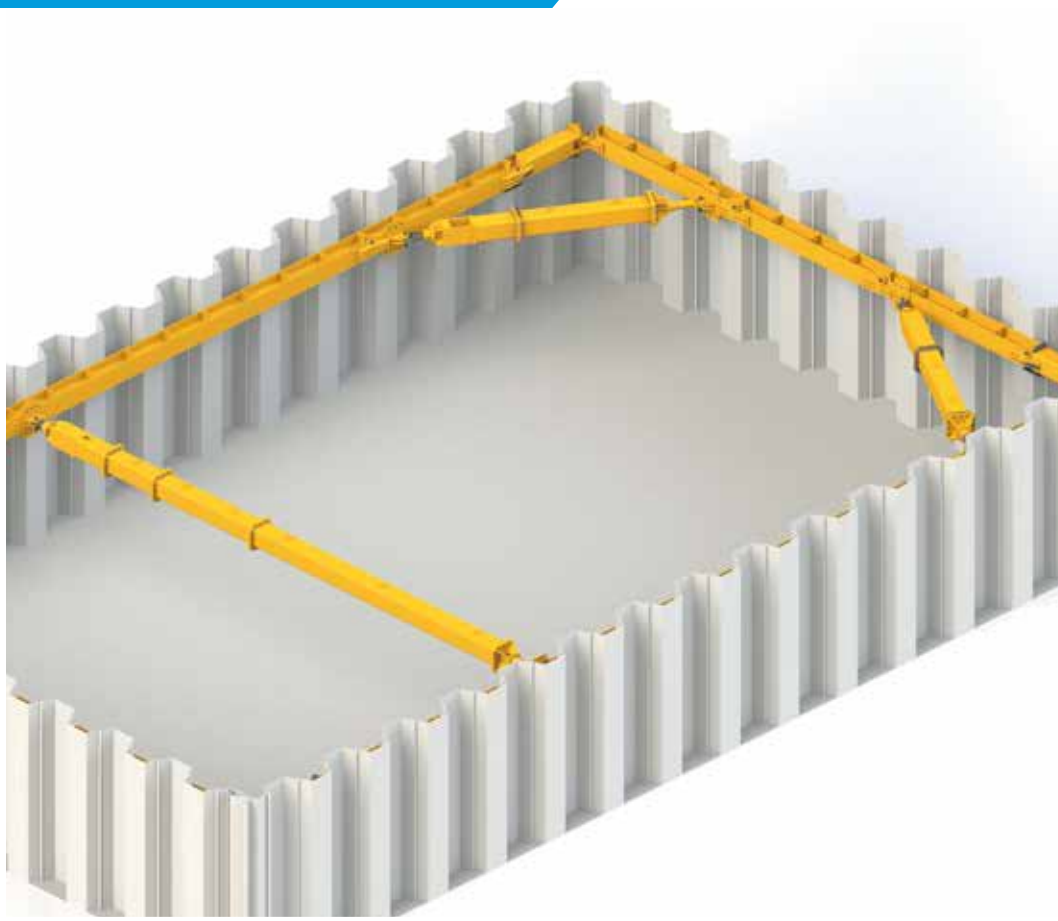
- *Lanaken (BE)*



Different projects with our bracing system



Bracing system



"Our knowledge, experience and skills have already proven their worth in various sectors internationally."

Excavator and Crane Mats

Sales and rental

Infrarentals BV offers comprehensive consultancy, sales and rental options for excavator and crane mats. Our objective is to jointly develop products that are guaranteed to perform optimally. Our knowledge, experience and skills have already proven their worth in various sectors internationally, specifically in underground construction, pipeline construction, wind turbines, dredging and excavation works, and onshore & offshore applications.

Excavator mats

Our excavator mats are made of hardwood. The beam dimensions depend on the individual type of application. Mats with plank thicknesses of 100 mm and up are partially produced with tight cores.

Technical wood specifications (Mora)

All our excavator and crane mats are made of highly wear-resistant Mora wood. This tropical wood enables us to guarantee an excellent performance and a long service life.

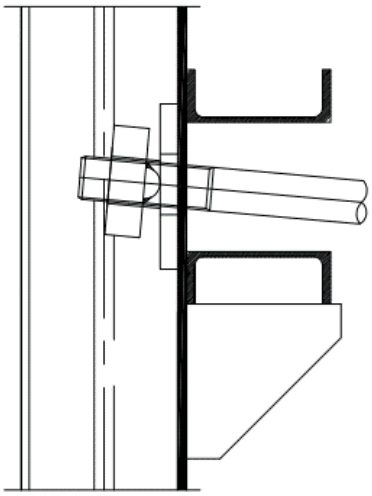
Possible applications:

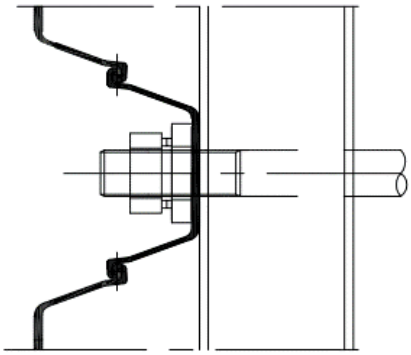
- *as mobile access paths for building works and emergency bridges*
- *for crane works, e.g. when building wind turbines*
- *as protection for mooring facilities and pontoons*
- *for excavation and dredging works, underground construction and access roads*
- *to distribute the ground pressure of heavy loads*

Road Plates

InfraRentals rents out and sells steel road plates. Road plates are mostly used in civil and hydraulic engineering projects to pave soft surfaces. Examples include the transporting of heavy building equipment to the relevant building sites and making the sites accessible for cranes and heavy transport trailers. Various types and sizes of road plates are available on the market. Because of its extensive experience, InfraRentals has chosen to have a large stock of the most widely used and most common road plate, size ***6000 x 1500 x 12-15 mm*** *and* ***4000 x 2000 x 20-25 mm****. We can also arrange for the transport of the plates and lay them on site for you. Additionally, it is also possible to arrange for the transportation of the road plates yourself. Below are some pictures in which a large number of road plates are used to make heavy transport over a soft surface possible.*

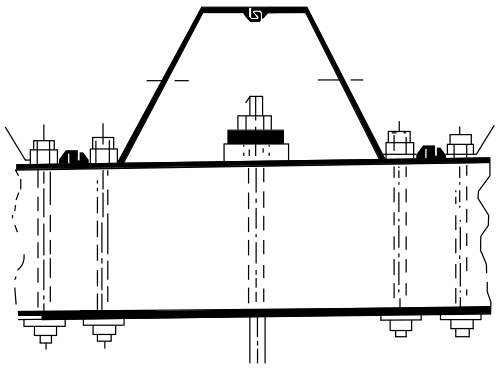
Back anchoring U-profile

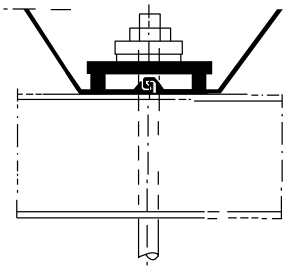


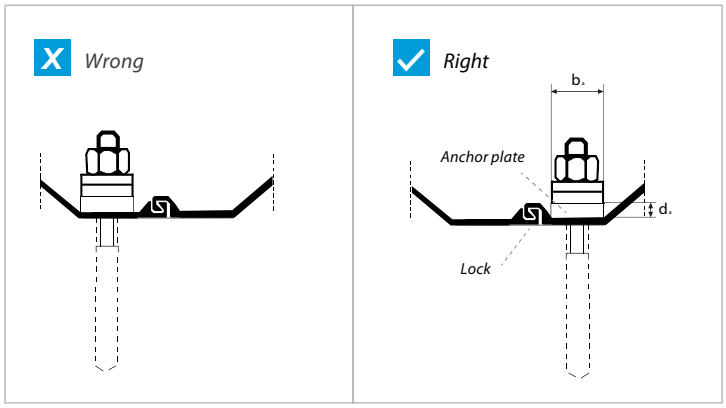


Special services: Anchoring and accessories

Back anchoring Z-profile







We offer all anchoring elements from one source

- *Anchors with fasteners*
- *Chord with chord fasteners*
- *sheet piling*
- *Head and niche bollards*
- *Ladder and retaining bracket*
- *Special components*


The TAB anchor stands for reliability and guaranteed quality

Special services: Anchoring and accessories

We offer the following Anchorage Systems:

Hollow Threaded Anchor Bar

The principle of this Anchor System is characterized by a hollow tube that is threaded over its entire length. The thread is cold rolled into the Seamless Pipe during the production process. With the use of a suitable drill head, this tube can be drilled into any possible base. The full-length thread makes it possible to use coupling sleeves to constantly connect pipe segments until the desired depth is reached.

We are proud to announce that through an LCA calculation, TAB Anker's HTAB Anchor Systems have achieved an MKI score of 72% savings over National Environmental Database (NMD) category 3 data.

Solid Threaded Anchor Bar

This system consists of a solid round steel rod, which is threaded along its entire length. The thread is cold rolled into the Rod during the production process. The full-length thread makes it possible to connect bar segments to the desired length by means of coupling sleeves.

Hot Rolled Anchor Bar

This Solid Anchor Rod is supplied as a fully hot-rolled product including threads. The full-length thread makes it possible to connect bar segments to the desired length using coupling sleeves.

Our Anchor Systems can be applied as:

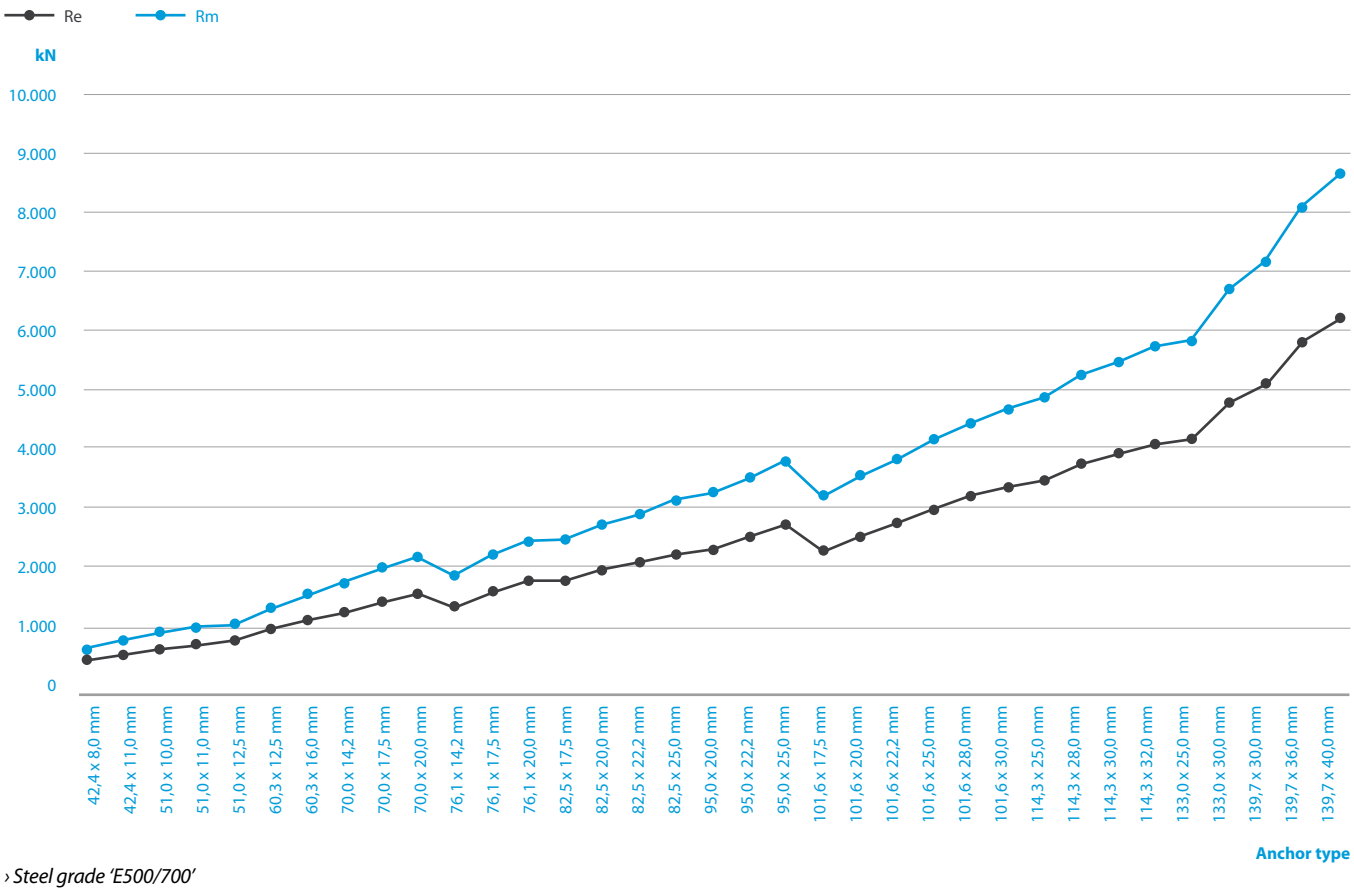
- *Wall Anchoring in cofferdams, Sheet Piling, retaining walls and quay walls*
- *Jack-up Anchoring in (underwater) concrete floors of cofferdams and/or tunnel entrances*
- *Micropiles in pile and post foundations or for building and foundation repair*
- *Tie Rods between quay wall and anchor wall constructions*
- *Nailing in soil massifs, wall stabilizations*
- *Wall and shaft fuses in mining and tunnel construction*
- *Specific applications for geothermal energy, jet grouting and other injection techniques*

Threaded pipe anchor (E500/700)

Armature type AD x WS	Cross-sectional area A	Weight	Min. yield strength Re	Min. tensile strength Rm	Yield load Re	Load Rm
mm	mm^2	kg/m	N/mm^2	N/mm^2	kN	kN
42,4 x 8,0	865	6,79	500	700	432	605
42,4 x 11,0	1.085	8,52	500	700	543	760
51,0 x 10,0	1.288	10,11	500	700	644	902
51,0 x 11,0	1.382	10,85	500	700	691	968
51,0 x 12,5	1.512	11,87	500	700	756	1.058
60,3 x 12,5	1.877	14,74	500	700	939	1.314
60,3 x 16,0	2.227	17,48	500	700	1.113	1.559
70,0 x 14,2	2.489	19,54	500	700	1.245	1.742
70,0 x 17,5	2.886	22,66	500	700	1.443	2.020
70,0 x 20,0	3.142	24,66	500	700	1.571	2.199
76,1 x 14,2	2.761	21,68	500	700	1.381	1933
76,1 x 17,5	3.222	25,29	500	700	1.611	2.255
76,1 x 20,0	3.525	27,67	500	700	1.762	2.467
82,5 x 17,5	3.574	28,05	500	700	1.787	2.501
82,5 x 20,0	3.927	30,83	500	700	1.963	2.749
82,5 x 22,2	4.206	33,01	500	700	2.103	2.944
82,5 x 25,0	4.516	35,45	500	700	2.258	3.161
95,0 x 20,0	4.712	36,99	500	700	2.356	3.299
95,0 x 22,2	5.077	39,86	500	700	2.539	3.554
95,0 x 25,0	5.498	43,16	500	700	2.749	3.848
101,6 x 17,5	4.624	36,30	500	700	2.312	3.237
101,6 x 20,0	5.127	40,25	500	700	2.564	3.589
101,6 x 22,2	5.538	43,47	500	700	2.769	3.876
101,6 x 25,0	6.016	47,23	500	700	3.008	4.211
101,6 x 28,0	6.474	50,82	500	700	3.237	4.532
101,6 x 30,0	6.748	52,97	500	700	3.374	4.724
114,3 x 25,0	7.014	55,06	500	700	3.507	4.910
114,3 x 28,0	7.591	59,59	500	700	3.796	5.314
114,3 x 30,0	7.945	62,37	500	700	3.973	5.562
114,3 x 32,0	8.274	64,95	500	700	4.137	5.792
133,0 x 25,0	8.482	66,59	500	700	4.241	5.938
133,0 x 30,0	9.708	76,20	500	700	4.854	6.795
139,7 x 30,0	10.339	81,16	500	700	5.169	7.237
139,7 x 36,0	11.728	92,07	500	700	5.864	8.210
139,7 x 40,0	12.529	98,35	500	700	6.264	8.770

Special services: Anchoring and accessories

Pipe thread anchor - E500/700



› *Steel grade 'E500/700'*

› *Including notched bar impact test min. 27J at -20#C on base material*

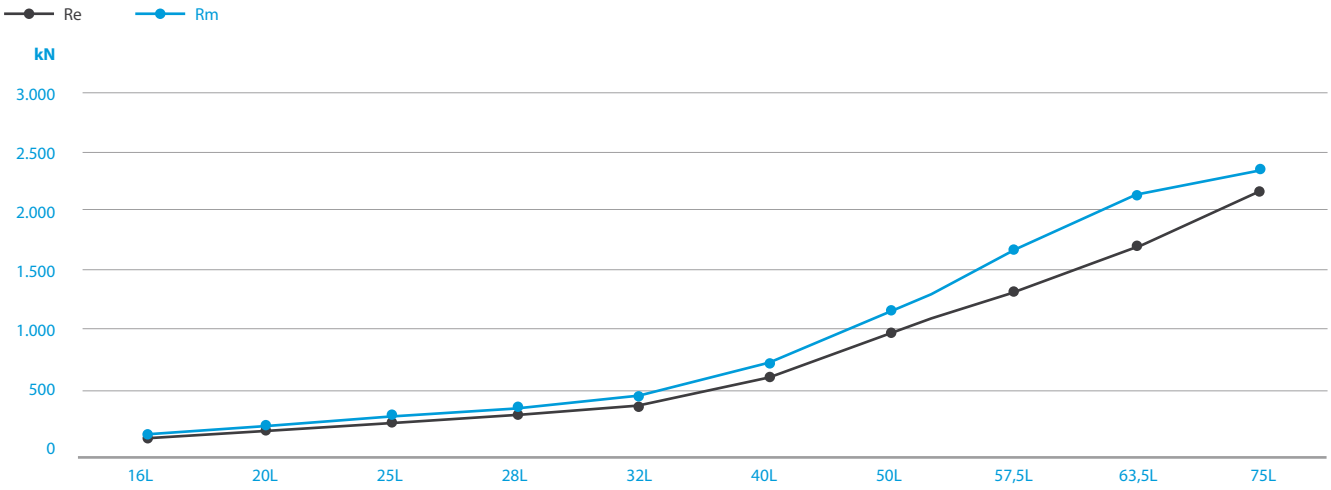
› *Other dimensions available on request*

Bar-threaded anchor (hot-rolled) (500/550)

*** (555/700) equivalent to GEWI steel**

Diameter	*Cross-sectional area A*	*Weight*	*Min. yield strength Re*	*Min. tensile strength Rm*	*Yield load Re*	*Load Rm*
mm	mm^2	kg/m	N/mm^2	N/mm^2	kN	kN
16L	*201*	*1,58*	*500*	*550*	*101*	*111*
20L	*314*	*2,47*	*500*	*550*	*157*	*173*
25L	*491*	*3,85*	*500*	*550*	*245*	*270*
28L	*616*	*4,83*	*500*	*550*	*308*	*339*
32L	*804*	*6,31*	*500*	*550*	*402*	*442*
40L	*1.257*	*9,86*	*500*	*550*	*628*	*691*
50L	*1.963*	*15,41*	*500*	*550*	*982*	*1.080*
57,5L*	***2.597***	***20,38***	***555***	***700***	***1.441***	***1.818***
63,5L*	***3.167***	***24,86***	***555***	***700***	***1.758***	***2.217***
75L	*4.418*	*34,68*	*500*	*550*	*2.209*	*2.430*

Bar-threaded anchor (hot-rolled) - 500/550 & 555/700



› *Steel grade '500/550' & '555/700'*

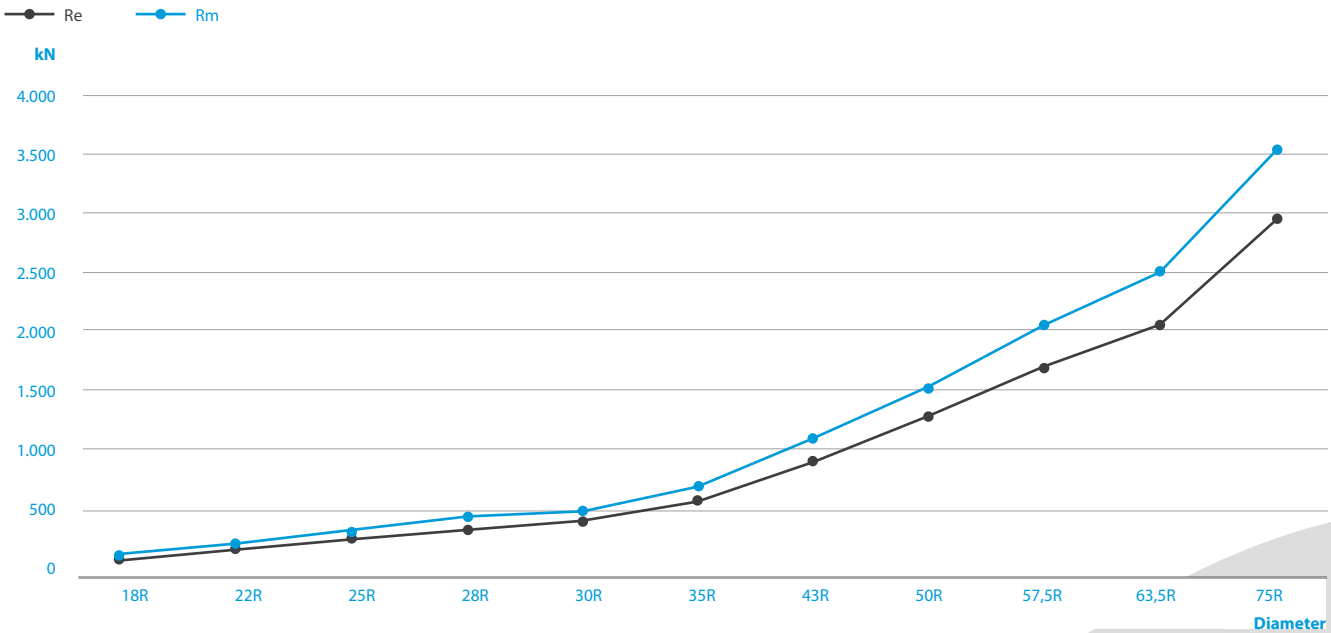
› *STAB threaded anchors are also available with double corrosion protection (DCP)*

Special services: Anchoring and accessories

Bar-threaded anchor (hot-rolled) (670/800)

Diameter	Cross-sectional area A	Weight	Min. yield strength Re	Min. tensile strength Rm	Yield load Re	Load Rm
mm	mm^2	kg/m	N/mm^2	N/mm^2	kN	kN
18R	254	2,0	670	800	170	204
22R	380	2,98	670	800	255	304
25R	491	3,85	670	800	329	393
28R	616	4,83	670	800	413	493
30R	707	5,55	670	800	474	565
35R	962	7,55	670	800	645	770
43R	1.452	11,40	670	800	973	1.162
50R	1.963	15,41	670	800	1.316	1.571
57,5R	2.597	20,38	670	800	1.740	2.077
63,5R	3.167	24,86	670	800	2.122	2.534
75R	4.418	34,68	670	800	2.960	3.534

Bar-threaded anchor (hot-rolled) - 670/800



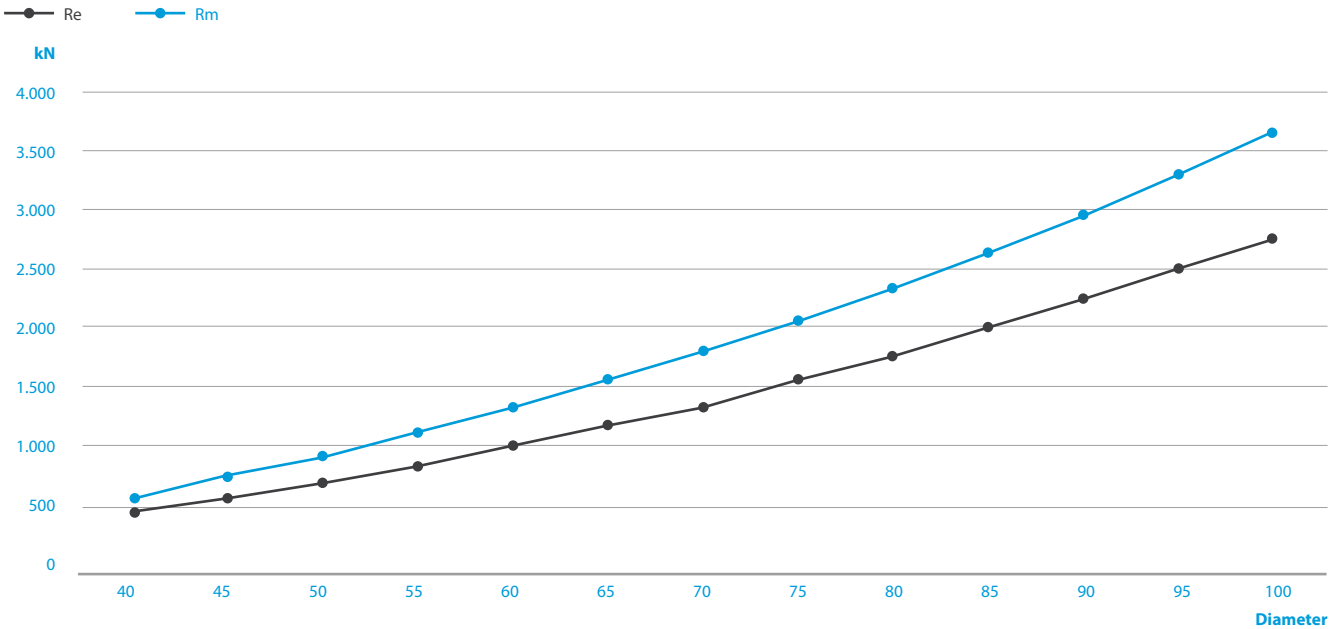
› *Steel grade '670/800'*

› *STAB threaded anchors are also available with double corrosion protection (DCP)*

Bar-threaded anchor (hot-rolled) (S355/470)

Diameter	*Cross-sectional area A*	*Weight*	*Min. yield strength Re*	*Min. tensile strength Rm*	*Yield load Re*	*Load Rm*
mm	mm^2	kg/m	N/mm^2	N/mm^2	kN	kN
40	*1.257*	*9,86*	*355*	*470*	*446*	*591*
45	*1.590*	*12,48*	*355*	*470*	*565*	*748*
50	*1.963*	*15,41*	*355*	*470*	*697*	*923*
55	*2.376*	*18,65*	*355*	*470*	*843*	*1.117*
60	*2.827*	*22,20*	*355*	*470*	*1.004*	*1.329*
65	*3.318*	*26,05*	*355*	*470*	*1.178*	*1.560*
70	*3.848*	*30,21*	*355*	*470*	*1.366*	*1.809*
75	*4.418*	*34,68*	*355*	*470*	*1.568*	*2.076*
80	*5.027*	*39,46*	*355*	*470*	*1.784*	*2.362*
85	*5.675*	*44,54*	*355*	*470*	*2.014*	*2.667*
90	*6.362*	*49,94*	*355*	*470*	*2.258*	*2.990*
95	*7.088*	*55,64*	*355*	*470*	*2.516*	*3.331*
100	*7.854*	*61,65*	*355*	*470*	*2.788*	*3.691*

Bar-threaded anchor (hot-rolled) - (S355/470)



› *Steel grade 'S355/470'*

› *Including impact test min. 27J at -20#C on base material*

› *Other diameters available on request*

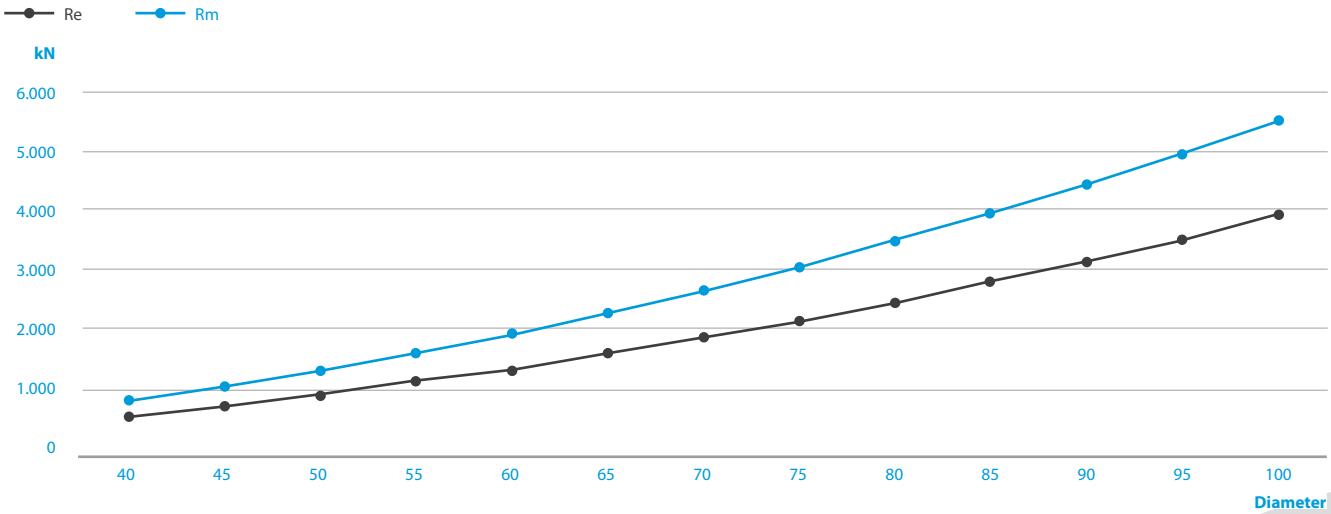
› *STAB threaded anchors are also available with double corrosion protection (DCP).*

Special services: Anchoring and accessories

Bar-threaded anchor (hot-rolled) (S500/700)

Diameter	Cross-sectional area A	Weight	Min. yield strength Re	Min. tensile strength Rm	Yield load Re	Load Rm
mm	mm^2	kg/m	N/mm^2	N/mm^2	kN	kN
40	1.257	9,86	500	700	628	880
45	1.590	12,48	500	700	795	1.113
50	1.963	15,41	500	700	982	1.374
55	2.376	18,65	500	700	1.188	1.663
60	2.827	22,20	500	700	1.414	1.979
65	3.318	26,05	500	700	1.659	2.323
70	3.848	30,21	500	700	1.924	2.694
75	4.418	34,68	500	700	2.209	3.093
80	5.027	39,46	500	700	2.513	3.519
85	5.675	44,54	500	700	2.837	3.972
90	6.362	49,94	500	700	3.181	4.453
95	7.088	55,64	500	700	3.544	4.962
100	7.854	61,65	500	700	3.927	5.498

Bar-threaded anchor (hot-rolled) - (S500/700)



› *Steel grade 'S500/700'*

› *Including impact test min. 27J at -20#C on base material*

› *Other diameters available on request*

› *STAB threaded anchors are also available with double corrosion protection (DCP).*


InfraRentals
Sharing flexibility
T. +31 183 562 623
www.infrarentals.com

Vibratory hammers and Power packs

Ambient factors, support when selecting equipment, working principle. Capacity that can be calculated.

Choosing the right machine is crucial for the economic and technical success of vibration work. We offer our customers individual advice to enable them to select suitable equipment, taking into account all the relevant factors – such as the building site and the geological and technical requirements.

Ambient factors

The type of vibrator that will be suitable specifically depends on the size and the weight of the foundation elements to be introduced, the introduction depth and the soil condition. In principle, the centrifugal force and the amplitude must be chosen such that the shaft friction and the toe resistance between the foundation element and the surrounding soil can be overcome.

Support when selecting equipment

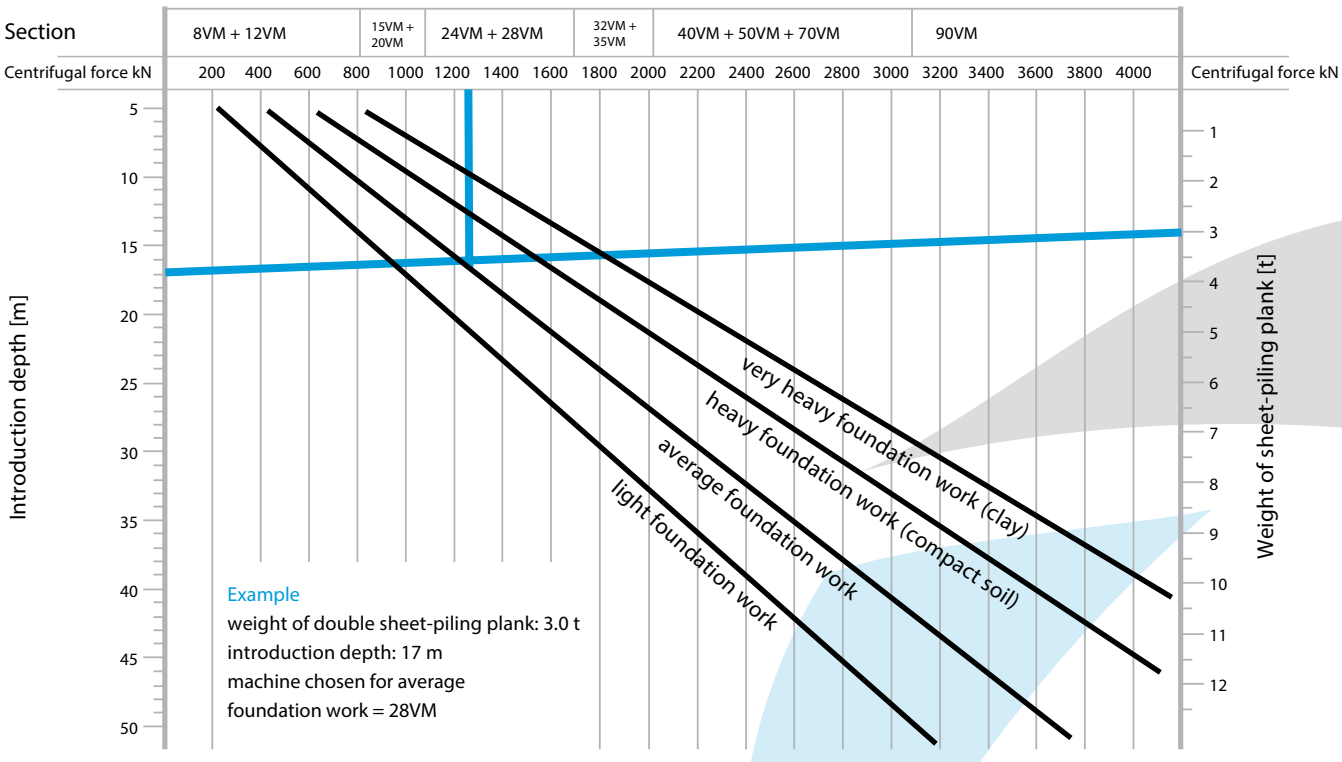
The nomogram below will help you select the right equipment or the required centrifugal force – depending on the soil properties and the weight and introduction depth of the foundation elements.

Additional equipment such as rinsing lances or pre-boring rigs can be used in order to achieve considerably better results with the same dimensions or centrifugal force.

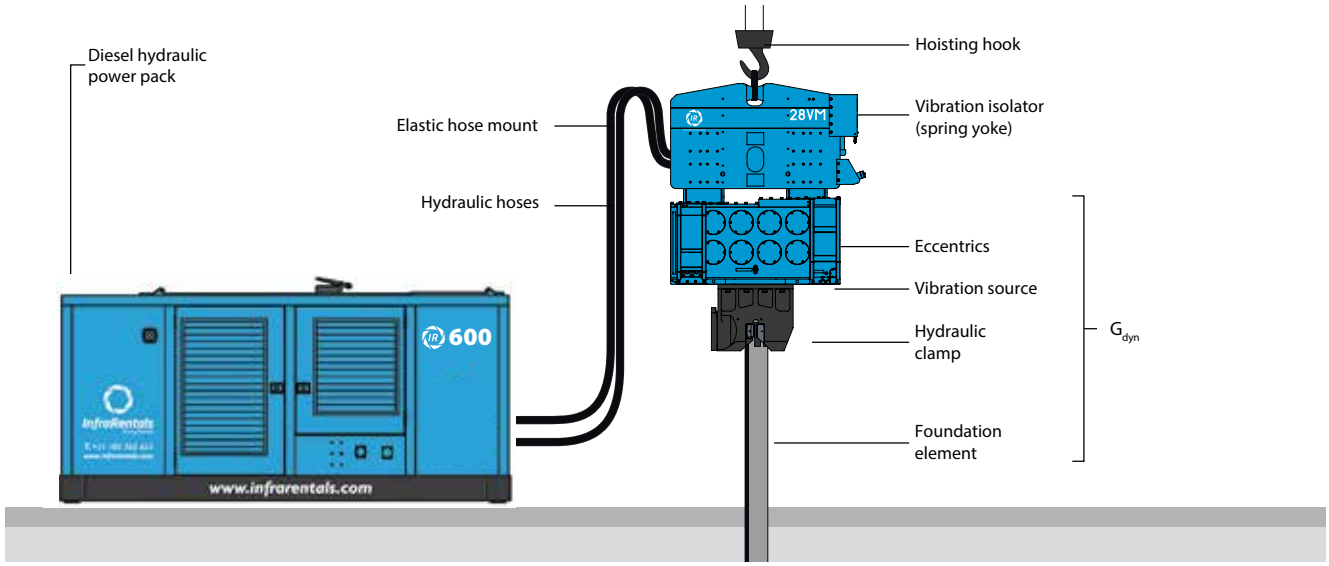
The power delivered by the power pack must be sufficient to achieve the required momentum and, as a result, the required centrifugal force in difficult soil. The drive power must be 2-3 kW per 10 kN of centrifugal force.

Please feel free to contact one of our expert advisers for personal advice when selecting the equipment, based on soil conditions and foundation elements. They will use simulation software to determine the optimum machine for your project.

Support when selecting equipment



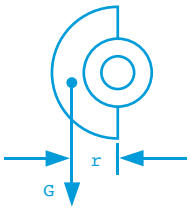
Operating principle of InfraRentals vibrators (standard version)



Important formulas in vibration technology

Static moment M [kgm]

$M = G \cdot r$



The static moment (eccentric moment) determines the extent of the imbalance. As the determining factor for the amplitude, this is a crucial value in foundation work.

Speed (vibration frequency) n [min –1]

Number of revolutions (vibrations) per minute. The speed determines the vibration frequency at which the system is moved to and fro. The foundation element transfers the vibrations to the surrounding soil. This significantly decreases the shaft friction between the foundation element and the soil. High frequencies prevent unintentional propagation of vibrations through the soil.

Centrifugal force

$F = M \cdot \omega^2$

F = [N] $F = M \left(\pi \cdot \frac{n}{30}\right)^2$

The centrifugal force must be sufficient to overcome the static friction between the foundation element and the soil (separation effect). The centrifugal force greatly influences the decrease in shaft friction and is also important as an impact force in order to overcome the toe resistance.

Amplitude S [m]

$S = 2s = \frac{2 \cdot M_{stat}}{\Sigma G_{dyn}} \quad \frac{[kgm]}{[kg]}$

Together with the centrifugal force, the amplitude is a measure for the introduction power. A high gear ratio and high impact force provide the proper vibration drive. Carrying out vibration and pulling activities in compact soil requires a strong amplitude in order to overcome the friction between the foundation element and the soil.

Acceleration a [m/sec 2]

$a = s \cdot \omega^2 \qquad \omega = \pi \cdot \frac{n}{30}$

The acceleration of the foundation element being transmitted to the surrounding soil causes the soil particles to be displaced; the friction between soil particles is reduced as is the soil resistance. The ratio of the acceleration to the drop speed increase is expressed as a key value:

$\eta = \frac{a}{g}$ *This figure matches* $\eta = \frac{F \cdot 10^{-1}}{G_{dyn}}$

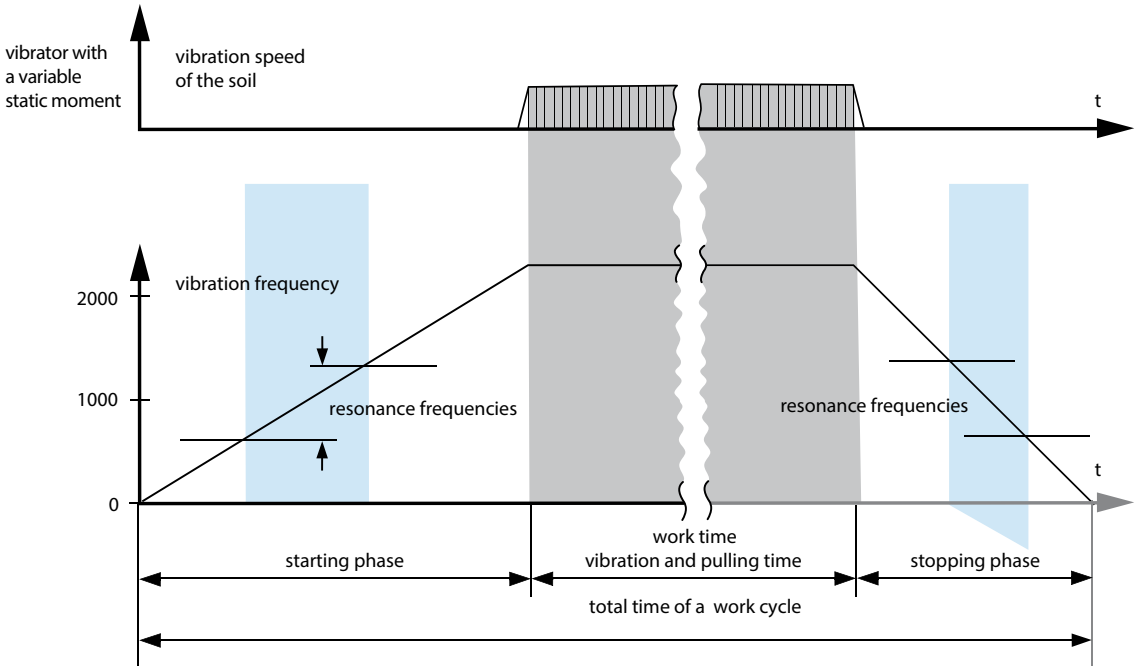
Vibratory hammers and Power packs

The right choice for every application.

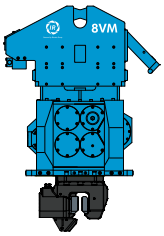
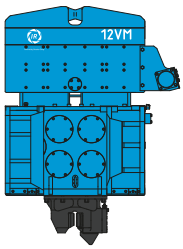
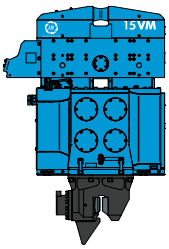
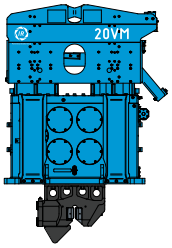
Normal-frequency or high-frequency InfraRentals vibrators.

The eccentrics of the high-frequency series can be adjusted while working. This series is used wherever there are major restrictions as regards the propagation of vibrations in the soil, such as when working near existing buildings or in town centres. This equipment avoids resonances when starting and stopping and it enables an optimum amplitude, matching the soil characteristics, to be set.

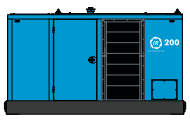
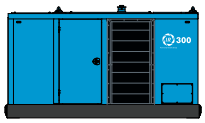
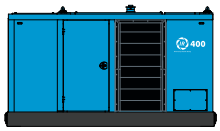
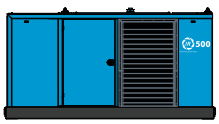
Principle of resonance-free starting and stopping



Variable moment vibratory hammers

	InfraRentals supported by Dieseko Group			
	8VM	12VM	15VM	20VM
				
Eccentric moment (kgm)	0 - 7.5	0 - 12	0 - 15	0 - 19
Max. centrifugal force (kN)	0 - 435	0 - 700	0 - 870	0 - 1.100
Max. frequency (rpm)	2.300	2.300	2.300	2.300
Max. amplitude (mm)	0 - 15,2	0 - 17	0 - 13	0 - 15
Max. static line pull (kN)	120	250	270	240
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	185	261	370	498
Dynamic weight (kg) (without clamp)	985	1.450	2.330	2.550
Total weight (kg) (without clamp)	1.515	2.396	3.100	3.650
L x W x H (mm)	1.426 x 595 x 1.514	1.557 x 675 x 1.595	1.642 x 695 x 1.718	1.882 x 637 x 2.008
Pile clamp*	60TP	120TP	120TP	120TP
Sheet pile clamp*	60TU	85TU	110TU	150TUL
Tube clamp set*	-	55TC	80TC	80TC
Power pack*	IR 200 PP	IR 300 PP	IR 400 PP	IR 500 PP

Power packs

	200 PP	300 PP	400 PP	500 PP
				
Diesel engine	Volvo TAD 582 VE	Volvo TAD 882 VE	Volvo TAD 884 VE	Volvo TAD 1384 VE
Emission standard	Stage V	Stage V	Stage V	Stage V
Max. power (kW/PS)	160/218	210/286	250/340	375/510
Max. frequency (rpm)	2.300	2200	2.200	1.900
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	211	324	396	520
Weight filled up (kg)	4.250	4.700	5.150	7.600
L x W x H (mm)	3.375 x 1.550 x 1.970	3.672 x 1.600 x 2.055	3.670 x 1.600 x 2.070	4.330 x 1.750 x 2.290

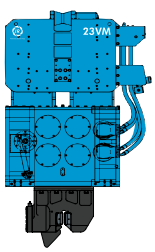
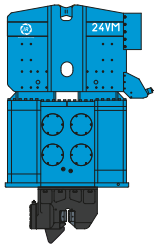
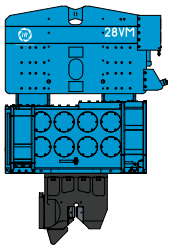
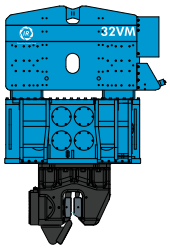
*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

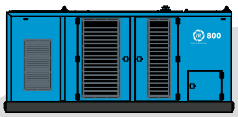
Vibratory hammers with variable static moment and matching Power packs

Sharing flexibility

Variable moment vibratory hammers

	InfraRentals supported by Dieseko Group			
	IR 23VM	IR 24VM	IR 28VM	IR 32VM
				
Eccentric moment (kgm)	0 - 23	0 - 24	0 - 28	0 - 32
Max. centrifugal force (kN)	0 - 1.350	0 - 1.400	0 - 1.600	0 - 1.856
Max. frequency (rpm)	2.300	2.300	2.300	2.300
Max. amplitude (mm)	0 - 17	0 - 14	0 - 14	0 - 15
Max. static line pull (kN)	400	400	400	500
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	661	570	590	740
Dynamic weight (kg) (without clamp)	2.700	3.500	3.500	4.300
Total weight (kg) (without clamp)	4.500	6.020	5.920	6.800
L x W x H (mm)	1.662 x 785 x 2.200	1.986 x 750 x 2.443	2.336 x 805 x 2.427	2.337 x 828 x 2.347
Pile clamp*	180TP	180TP	180TP	180TP
Sheet pile clamp*	200TU	200TUP	200TUP	350TU
Tube clamp set*	80TC	100TC	100TC	125TC
Power pack*	IR 600 PP	IR 600 PP	IR 600 PP	IR 800 PP

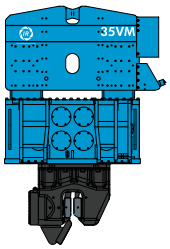
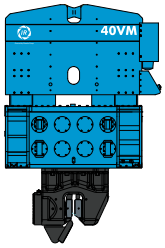
Power packs

	IR 600 PP	IR 800 PP	
			
Diesel engine	Volvo TAD 1385 VE	Volvo TWD 1683 VE	Caterpillar C18
Emission standard	Stage V	Stage V	Stage V
Max. power (kW/PS)	405/551	585/796	563/755
Max. frequency (rpm)	1.900	1.900	1.800
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	661	810	810
Weight filled up (kg)	7600	9.600	8.700
L x W x H (mm)	4.330 x 1.750 x 2.290	5.062 x 1.900 x 2.330	4.750 x 1.900 x 2.420

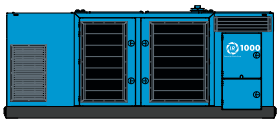
*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

Variable moment vibratory hammers

	InfraRentals supported by Dieseko Group	
	35VM	40VM
		
Eccentric moment (kgm)	0 - 35	0 - 40
Max. centrifugal force (kN)	0 - 2.030	0 - 1.755
Max. frequency (rpm)	2.300	2.000
Max. amplitude (mm)	0 - 16	0 - 19
Max. static line pull (kN)	500	400
Working pressure (bar)	350	350
Max. oil flow (l/min)	1.012	800
Dynamic weight (kg) (without clamp)	4.400	4.300
Total weight (kg) (without clamp)	6.850	6.760
L x W x H (mm)	2.337 x 828 x 2.347	2.622 x 710 x 2.690
Pile clamp*	180TP	180TP
Sheet pile clamp*	350TU	350TU
Tube clamp set*	150TC	125TC
Power pack*	IR 1000 PP	IR 800 PP

Power packs

	1000 PP		800 PP	
				
Diesel engine	Volvo TAD 1384 VE (2x)	Caterpillar C27	Volvo TWD 1683 VE	Caterpillar C18
Emission standard	Stage V	Stage V	Stage V	Stage V
Max. power (kW/HP)	750/1020	709/950	585/796	563/755
Max. frequency (rpm)	1.900	1.800	1.900	1.800
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	1.051	1.100	810	810
Weight filled up (kg)	14.000	12.700	9.600	8.700
L x W x H (mm)	5.372 x 2.480 x 2.406	5.075 x 2.300 x 2.415	5.062 x 1.900 x 2.330	4.750 x 1.900 x 2.420

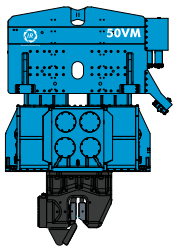
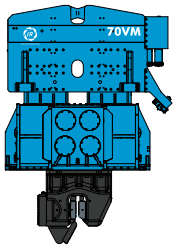
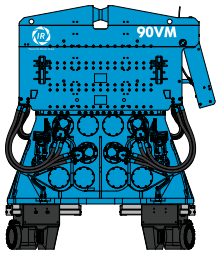
*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

Vibratory hammers with variable static moment and matching Power packs

Sharing flexibility

Variable moment vibratory hammers

	InfraRentals supported by Dieseko Group		
	IR 50VM	IR 70VM	IR 90VM
			
Eccentric moment (kgm)	0 - 50	0 - 70	0 - 90
Max. centrifugal force (kN)	0 - 2.900	0 - 3.070	0 - 4.477
Max. frequency (rpm)	2.300	2.000	2.130
Max. amplitude (mm)	0 - 15	0 - 21	0 - 13,3
Max. static line pull (kN)	800	800	1500
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	1.380	1.580	2.062
Dynamic weight (kg) (without clamp)	6.600	6.800	13.500
Total weight (kg) (without clamp)	10.060	10.260	18.500
L x W x H (mm)	2.913 x 991 x 2.835	2.913 x 991 x 2.835	3.455 x 1.600 x 3.300
Pile clamp*	-	-	-
Sheet pile clamp*	350TU	350TU	-
Tube clamp set*	175TC	200TC	150TC
Power pack*	IR 1600 PP	IR 1600 PP	IR 1000 PP (2x)

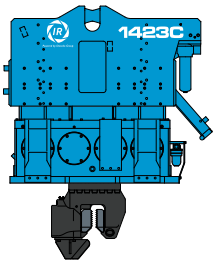
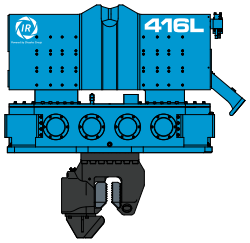
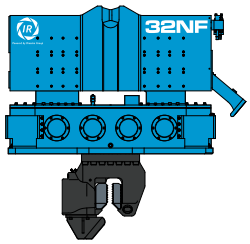
Power packs

	IR 1600 PP		IR 1000 PP	
				
Diesel engine	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)	Volvo TAD 1384 VE (2x)	Caterpillar C27
Emission standard	Stage V	Stage V	Stage V	Stage V
Max. power (kW/HP)	1.170/1.592	1.126/1.510	750/1.020	709/950
Max. frequency (rpm)	1.900	1.800	1.900	1.800
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	1.710	1.620	1.051	1.100
Weight filled up (kg)	18.900	18.000	14.000	12.700
L x W x H (mm)	5.875 x 2.900 x 2.510	5.875 x 2.900 x 2.510	5.372 x 2.480 x 2.406	5.075 x 2.300 x 2.415

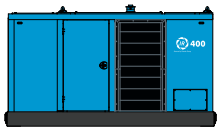
*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

Normal frequency vibratory hammers

	InfraRentals supported by Dieseko Group		
	1423C	416L	32NF
			
Eccentric moment (kgm)	14	23	32
Max. centrifugal force (kN)	812	647	955
Max. frequency (rpm)	2.300	1.600	1.650
Max. amplitude (mm)	16,5	19,6	27,2
Max. static line pull (kN)	240	400	400
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	370	359	370
Dynamic weight (kg) (without clamp)	1.700	2.350	2.350
Total weight (kg) (without clamp)	2.750	3.550	4.600
L x W x H (mm)	1.890 x 766 x 1.635	2.548 x 486 x 1.568	2.548 x 566 x 1.568
Pile clamp*	120TP	120TP	120TP
Sheet pile clamp*	100TU	100TU	130TU
Tube clamp set*	55TC	81TC	81TC
Power pack*	IR 400 PP	IR 400 PP	IR 400 PP

Power packs

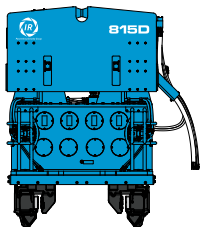
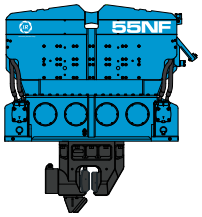
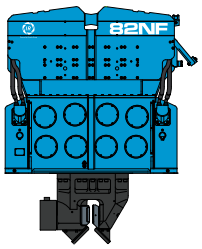
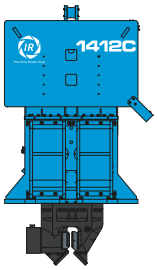
	400 PP
	
Diesel engine	Volvo TAD 884 VE
Emission standard	Stage V
Max. power (kW/HP)	250/340
Max. frequency (rpm)	2.200
Working pressure (bar)	350
Max. oil flow (l/min)	396
Weight filled up (kg)	5.150
L x W x H (mm)	3.670 x 1.600 x 2.070

*Manufacturer's recommendation.

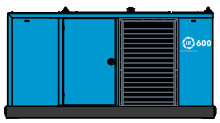
Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

Vibratory hammers with fixed static moment and matching Power packs

Normal frequency vibratory hammers

	InfraRentals supported by Dieseko Group			
	815D	55NF	82NF	1412C
				
Eccentric moment (kgm)	45	54	81	110
Max. centrifugal force (kN)	1.250	1.711	2.567	2.300
Max. frequency (rpm)	1.600	1.700	1.700	1.380
Max. amplitude (mm)	23,7	30,1	30,0	34,9
Max. static line pull (kN)	400	800	800	800
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	621	617	888	830
Dynamic weight (kg) (without clamp)	3.800	3.580	5.400	6.400
Total weight (kg) (without clamp)	5.700	5.700	7.900	10.750
L x W x H (mm)	2.651 x 876 x 2.580	2.642 x 678 x 1.939	2.662 x 721 x 2.427	2.819 x 1.108 x 3.592
Pile clamp*	180TP	180TP	-	-
Sheet pile clamp*	160TU	200TU	320TU	320TU
Tube clamp set*	81TC	100TC	200TC	200TC (2X)
Power pack*	IR 600 PP	IR 600 PP	IR 900 PP	IR 900 PP

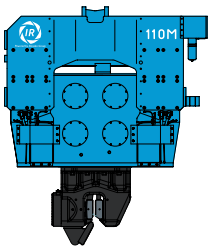
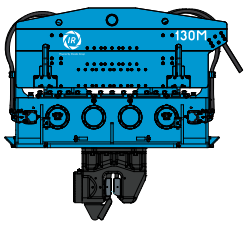
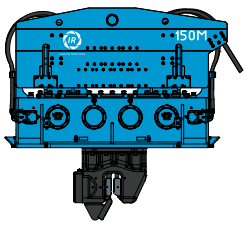
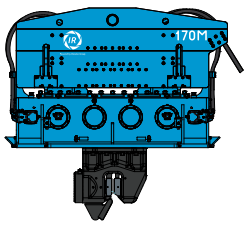
Power packs

	600 PP	900 PP	
			
Diesel engine	Volvo TAD 1385 VE	Volvo TWD 1683 VE	Caterpillar C18
Emission standard	Stage V	Stage V	Stage V
Max. power (kW/HP)	405/551	585/796	563/755
Max. frequency (rpm)	1.900	1.900	1.800
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	644	872	972
Weight filled up (kg)	7.600	9.600	10.250
L x W x H (mm)	4.330 x 1.750 x 2.290	5.062 x 1.900 x 2.330	5.320 x 1.950 x 2.420

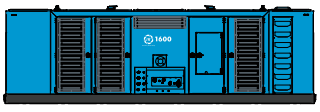
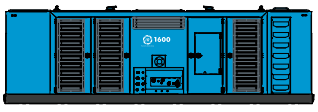
*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

Normal frequency vibratory hammers

	InfraRentals supported by Dieseko Group			
	IR 110M	IR 130M	IR 150M	IR 170M
				
Eccentric moment (kgm)	110	130	150	170
Max. centrifugal force (kN)	2.198	2.794	3.224	3.654
Max. frequency (rpm)	1.350	1.400	1.400	1.400
Max. amplitude (mm)	31	25	26,3	29,7
Max. static line pull (kN)	800	1.260	1.260	1.260
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	956	1.293	1.293	1.293
Dynamic weight (kg) (without clamp)	7.000	10.420	11.400	11.455
Total weight (kg) (without clamp)	12.000	16.900	17.780	17.850
L x W x H (mm)	3.240 x 1.105 x 2.560	3862 x 1217 x 2425	3862 x 1217 x 2425	3862 x 1217 x 2425
Tube clamp set*	150TC	175TC	200TC	350TC
Sheet pile clamp*	350TU	350TU	-	-
Power pack*	IR 1000 PP	IR 1600 PP	IR 1600 PP	IR 1600 PP

Power packs

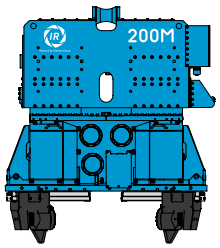
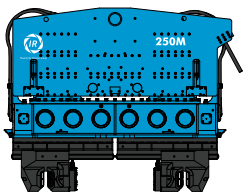
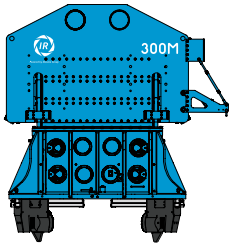
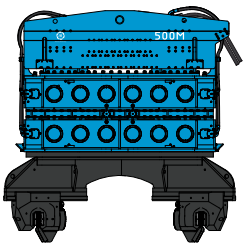
	IR 1000 PP		IR 1600 PP	
				
Diesel engine	Volvo TAD 1384 VE (2x)	Caterpillar C27	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)
Emission standard	Stage V	Stage V	Stage V	Stage V
Max. power (kW/HP)	750/1.020	709/950	1.170/1.592	1.126/1.510
Max. frequency (rpm)	1.900	1.800	1.900	1.800
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	1.051	1.100	1.710	1.620
Weight filled up (kg)	14.000	12.700	18.900	18.000
L x W x H (mm)	5.372 x 2.480 x 2.406	5.075 x 2.300 x 2.415	5.875 x 2.900 x 2.510	5.875 x 2.900 x 2.510

*Manufacturer's recommendation.

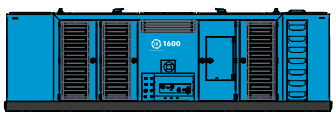
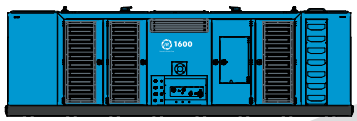
Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

Vibratory hammers with fixed static moment and matching Power packs

Normal frequency vibratory hammers

	InfraRentals supported by Dieseko Group			
	200M	250M	300M	500M
				
Eccentric moment (kgm)	200	250	300	500
Max. centrifugal force (kN)	4.300	5.374	6.150	10.748
Max. frequency (rpm)	1.400	1.400	1.400	1.400
Max. amplitude (mm)	19	24,6	21	29
Max. static line pull (kN)	1.800	3.640	4.000	2.270
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	1.680	1.600	2.800	3.200
Dynamic weight (kg) (without clamp)	21.000	20.330	27.250	34.500
Total weight (kg) (without clamp)	29.000	26.500	47.000	49.500
L x W x H (mm)	3.860 x 1.600 x 3.295	5.165 x 1.270 x 3.020	5.035 x 1.800 x 4.395	4.969 x 1.270 x 3.490
Tube clamp set*	150TC	350TC	210TC	350TC
Sheet pile clamp*	-	-	-	-
Power pack*	IR 1600 PP	IR 1600 PP	IR 1600 PP (2x)	IR 1600 PP (2x)

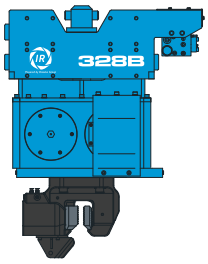
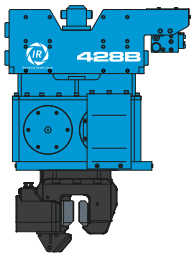
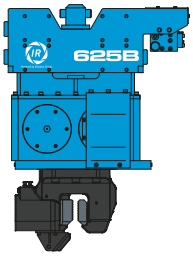
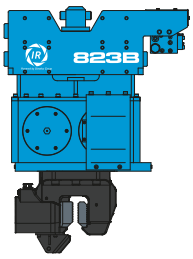
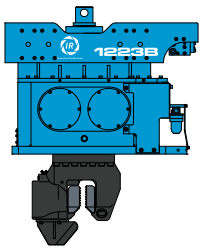
Power packs

	1600 PP	
		
Diesel engine	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)
Emission standard	Stage V	Stage V
Max. power (kW/HP)	1.170/1.592	1.126/1.510
Max. frequency (rpm)	1.900	1.800
Working pressure (bar)	350	350
Max. oil flow (l/min)	1.710	1.620
Weight filled up (kg)	18.900	18.000
L x W x H (mm)	5.875 x 2.900 x 2.510	5.875 x 2.900 x 2.510

*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

High frequency vibratory hammers

	InfraRentals supported by Dieseko Group				
	328B	428B	625B	823B	1223B
					
Eccentric moment (kgm)	3,2	4,0	6,0	8,0	11,5
Max. centrifugal force (kN)	275	344	411	464	670
Max. frequency (rpm)	2.800	2.800	2.500	2.300	2.300
Max. amplitude (mm)	11,1	12,3	18,2	23,2	16,4
Max. static line pull (kN)	120	120	120	120	180
Working pressure (bar)	350	350	350	350	350
Max. oil flow (l/min)	112	168	201	185	326
Dynamic weight (kg) (without clamp)	575	650	660	690	1.400
Total weight (kg) (without clamp)	1.090	1.280	1.290	1.310	2.380
L x W x H (mm)	1.128 x 520 x 953	1.128 x 646 x 993	1.128 x 646 x 993	1.128 x 646 x 993	1.540 x 435 x 1.170
Sheet pile clamp*	40TU	60TU	60TU	60TU	100TU
Tube clamp set*	-	-	-	-	55TC
Pile clamp*	60TP	60TP	60TP	60TP	120TP

*Manufacturer's recommendation.

Stock locations:

- Dronten (NL)
- Sliedrecht (NL)
- Hohenwart (DE)
- Tensfeld (DE)
- Großwallstadt (DE)

Excavator-mounted vibrator

High frequency vibratory hammers with swivel head

	InfraRentals supported by Dieseko Group				
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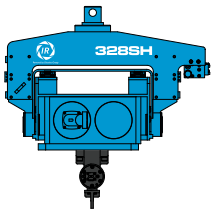
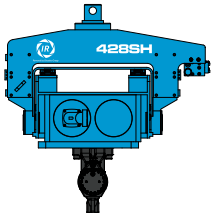
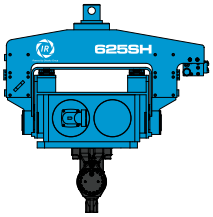
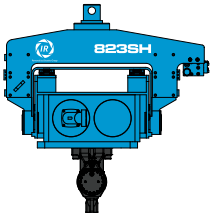
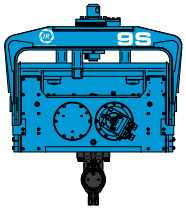
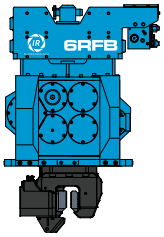
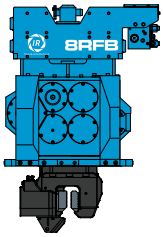
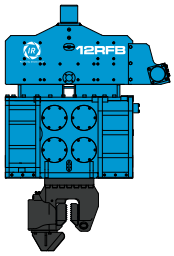
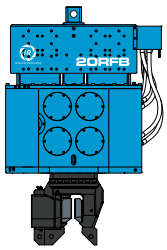
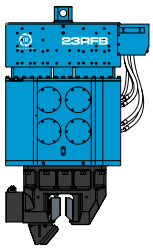
					
Eccentric moment (kgm)	3,2	4,0	6,0	8,0	8,9
Max. centrifugal force (kN)	275	345	411	465	522
Max. frequency (rpm)	2.800	2.800	2.500	2.300	2.300
Max. amplitude (mm)	11,1	12,3	18,2	23,2	20,4
Max. static line pull (kN)	120	120	120	120	190
Working pressure (bar)	350	350	350	350	350
Max. oil flow (l/min)	110	170	201	185	253
Dynamic weight (kg) (without clamp)	575	650	660	690	890
Total weight (kg) (without clamp)	1.445	1.460	1290	1.490	1.920
L x W x H (mm)	1.640 x 572 x 1.210	1.640 x 582 x 1.196	1.640 x 582 x 1.196	1.640 x 582 x 1.196	1.670 x 710 x 1.997
Sheet pile clamp*	40TU	60TU	60TU	60TU	60TU
Tube clamp set*	-	-	-	-	-
Pile clamp*	60TP	60TP	60TP	60TP	-

*Manufacturer's recommendation.

Stock locations:

- Dronten (NL)
- Sliedrecht (NL)
- Hohenwart (DE)
- Tensfeld (DE)
- Großwallstadt (DE)

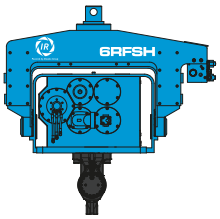
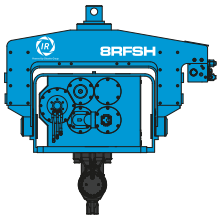
Resonance free high frequency vibratory hammers

	InfraRentals supported by Dieseko Group				
	6RFB	8RFB	12RFB	20RFB	23RFB
					
Eccentric moment (kgm)	0 - 6,5	0 - 7,5	0 - 12,0	0 - 19,0	0 - 23
Max. centrifugal force (kN)	0 - 377	0 - 435	0 - 700	0 - 1.100	0 - 1.350
Max. frequency (rpm)	2.300	2.300	2.300	2.300	2.300
Max. amplitude (mm)	0 - 13,5	0 - 15,2	0 - 16,6	0 - 14,2	0 - 19,0
Max. static line pull (kN)	120	120	200	300	300
Working pressure (bar)	350	350	350	350	350
Max. oil flow (l/min)	138	185	261	499	561
Dynamic weight (kg) (without clamp)	960	985	1.450	2.675	2.350
Total weight (kg) (without clamp)	1.490	1.515	2.225	3.810	4.670
L x W x H (mm)	1.158 x 595 x 1.214	1.158 x 595 x 1.214	1.519 x 674 x 1.597	1.560 x 722 x 1.530	1.560 x 790 x 1.810
Sheet pile clamp*	60TU	60TU	100TU	130TU	160TU
Tube clamp set*	-	-	55TC	80TC	80TC
Pile clamp*	60TP	60TP	120TP	120TP	120TP

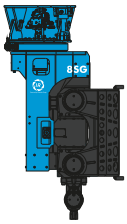
*Manufacturer's recommendation.

Excavator-mounted vibrator

Resonance free high frequency vibratory hammers with swivel head

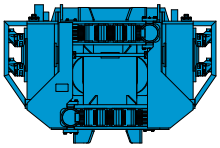
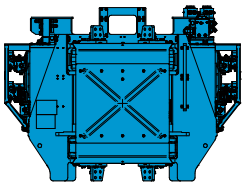
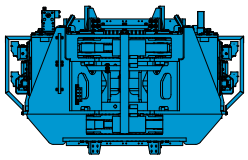
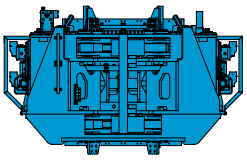
	InfraRentals supported by Dieseko Group	
	6RFSH	8RFSH
		
Eccentric moment (kgm)	0 - 6.5	0 - 7.5
Max. centrifugal force (kN)	0 - 377	0 - 435
Max. frequency (rpm)	2.300	2.300
Max. amplitude (mm)	0 - 13,3	0 - 14,9
Max. static line pull (kN)	120	120
Working pressure (bar)	350	350
Max. oil flow (l/min)	138	185
Dynamic weight (kg) (without clamp)	975	1.005
Total weight (kg) (without clamp)	1.900	1.930
L x W x H (mm)	1.750 x 848 x 1.177	1.750 x 848 x 1.177
Sheet pile clamp*	60TU	60TU
Tube clamp set*	-	-
Pile clamp*	60TP	60TP

Side gripper excavator mounted vibratory hammers high frequency

	InfraRentals supported by Dieseko Group
	8SG
	
Eccentric moment (kgm)	8
Max. centrifugal force (kN)	464
Max. frequency (rpm)	2.300
Max. amplitude (mm)	7
Max. static line pull (kN)	120
Working pressure (bar)	350
Max. oil flow (l/min)	214
Dynamic weight (kg) (without clamp)	2.300
Total weight (kg) (without clamp)	3.300
L x W x H (mm)	1.663 x 1.416 x 2.384
Sheet pile clamp*	60TU

*Manufacturer's recommendation.

Ring vibratory hammers with variable moment

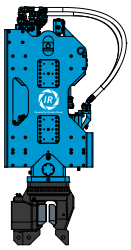
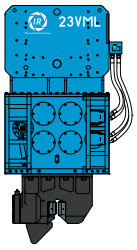
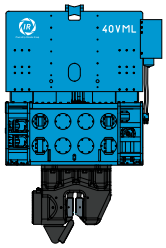
	InfraRentals supported by Dieseko Group			
	20VMR	24VMR	32VMR	38VMR
				
Eccentric moment (kgm)	0 - 20	0 - 24	0 - 32	0 - 38
Max. centrifugal force (kN)	0 - 1.160	0 - 1.400	0 - 1.800	0 - 2.200
Max. frequency (rpm)	2.300	2.300	2.300	2.300
Max. amplitude (mm)	0 - 6	0 - 6	0 - 5	0 - 6
Max. static line pull (kN)	300	300	400	400
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	550	552	860	960
Min. tube diameter (mm)	406	406	406	406
Max. tube diameter (mm)	508	610	610	610
Dynamic weight (kg) (without clamp)	6.500	8.080	12.000	12.400
Total weight (kg) (without clamp)	6.900	8.650	12.500	12.900
L x W x H (mm)	2.368 x 1.320 x 1.515	2.518 x 1.425 x 1.805	2.602 x 1.581 x 1.740	2.802 x 1.720 x 1.740
Max. pre-tension (kN)	250	250	400	400

Stock locations:

- Dronten (NL)
- Sliedrecht (NL)
- Hohenwart (DE)
- Tensfeld (DE)
- Großwallstadt (DE)

Ring Vibrator with variable static moment

Leader guided vibratory hammers with variable moment

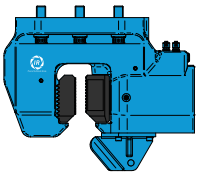
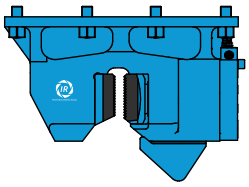
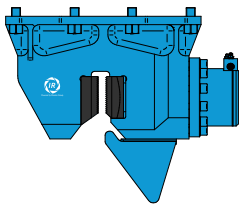
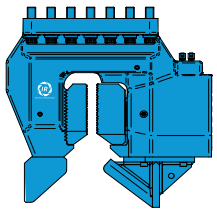
	InfraRentals supported by Dieseko Group		
	17VML	23VML	40VML
			
Eccentric moment (kgm)	0 - 17,4	0 - 23	0 - 40
Max. centrifugal force (kN)	0 - 1.100	0 - 1.350	0 - 1.750
Max. frequency (rpm)	2.400	2.300	2.000
Max. amplitude (mm)	0 - 16,8	0 - 17	0 - 19
Max. static line pull (kN)	240	300	400
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	600	543	800
Dynamic weight (kg) (without clamp)	2.070	2.700	4.300
Total weight (kg) (without clamp)	2.590	3.600	6.760
L x W x H (mm)	1.420 x 560 x 2.051	1.460 x 785 x 2.100	2.580 x 710 x 2.690
Max. pre-tension (kN)	240	200	300
Sheet pile clamp*	130TU	150TU	350TU
Tube clamp set*	-	80TC	125TC
Pile clamp*	-	-	180TP

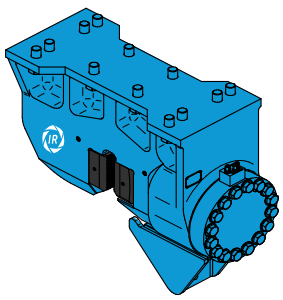
*Manufacturer's recommendation.

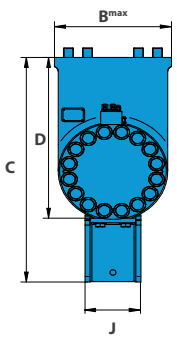
Stock locations:

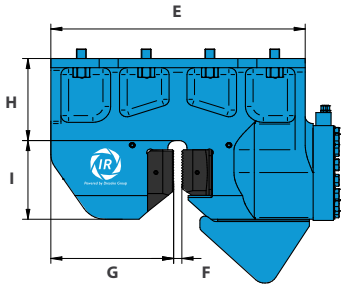
- Dronten (NL)
- Sliedrecht (NL)
- Hohenwart (DE)
- Tensfeld (DE)
- Großwallstadt (DE)

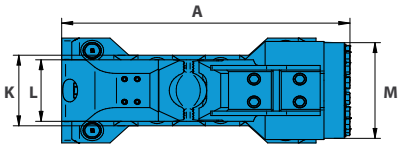
Sheetpile clamps

	InfraRentals supported by Dieseko Group			
	60TU	85TU	130TUP	130TU
				
Clamping force (kN)	600	850	1300	1300
Working pressure (bar)	320	300	300	300
Max. operating press. (bar)	180	180	180	180
Weight (kg)	250	600	750	610
A	615	873	1013	731
B	310	300	450	340
C	497	660	898	750
D	375	500	590	550
E	430	850	850	480
F	32	33,5	34	33
G	232	401	402	288
H	150	205	265	215
I	238	295	325	515
J	94	200	200	170
K	180	300	300	240
L	170	240	270	220
M	230	333	276	340





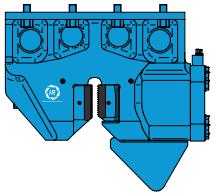
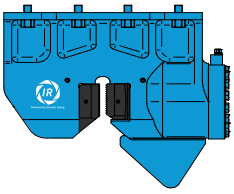
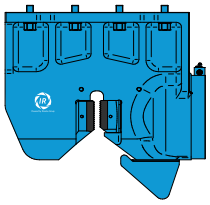
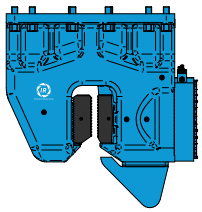




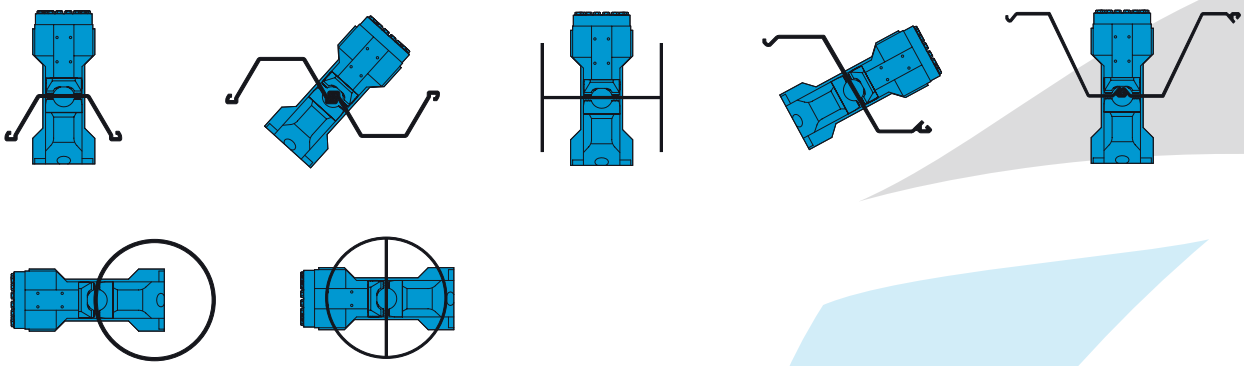
Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

Sheetpile clamps

Sheetpile clamps

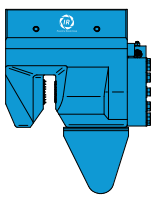
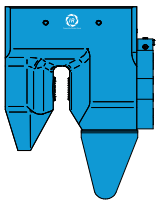
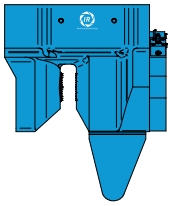
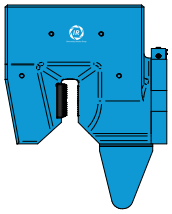
	InfraRentals supported by Dieseko Group			
	150TUL	150TU	200TUP	350TU
				
Clamping force (kN)	1.500	1.500	2.000	3.500
Working pressure (bar)	300	300	300	320
Max. operating press. (bar)	180	180	180	120
Weight (kg)	1.100	1.270	2.000	2.600
A	1.133	1.133	1.130	1.242
B	300	460	530	460
C	985	985	1.165	1.230
D	705	705	920	940
E	1.000	1.000	1.040	1.100
F	32	32	32	37
G	483	483	503	558
H	360	360	490	455
I	345	345	430	485
J	220	220	220	250
K	300	310	460	400
L	270	270	300	340
M	350	420	530	540

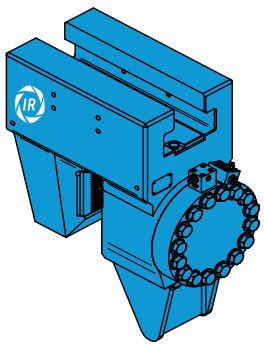
Sheetpile clamps options

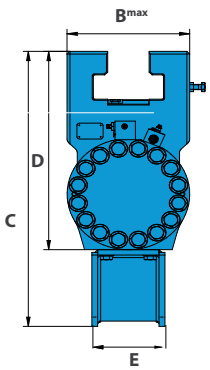


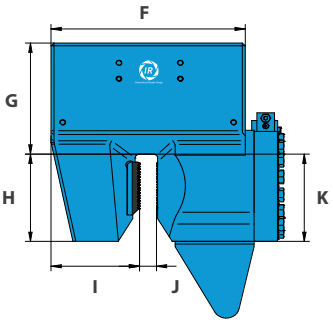
Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

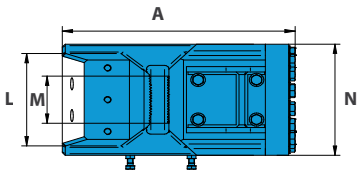
Tube clamp

	InfraRentals supported by Dieseko Group			
	55TC	80TC	100TC	125TC
				
Clamping force (kN)	550	800	1.000	1.250
Working pressure (bar)	300	300	300	300
Max. operating press. (bar)	180	180	180	180
Min. inside tube ø (mm)	294	417	480	526
Weight (kg)	310	500	690	900
A	500	587	642	681
B	320	340	395	400
C	702	842	858	950
D	450	540	555	647
E	190	200	200	200
F	420	521	573	585
G	250	260	260	347
H	200	370	295	300
I	136	198	228	258
J	35	51	53	48
K	200	286	295	300
L	270	270	300	400
M	95	105	130	200
N	260	338	372	388





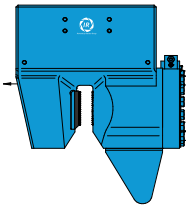
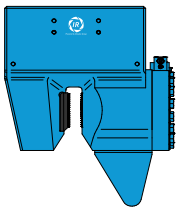
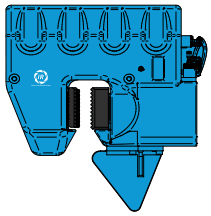




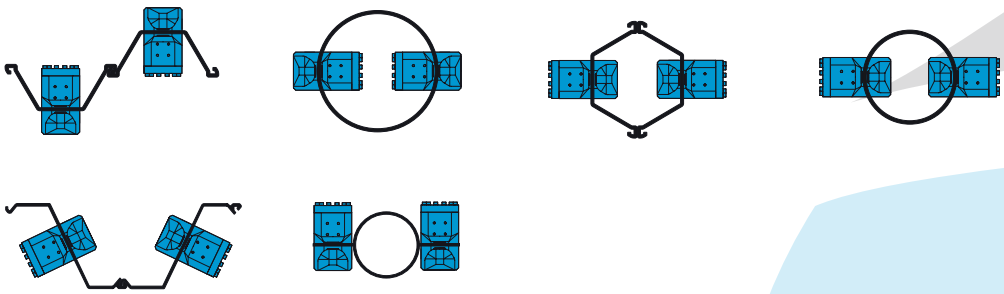
Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

Tube clamp

Tube clamp

	InfraRentals supported by Dieseko Group		
	150TC	175TC	200TC
			
Clamping force (kN)	1.500	1.750	2.000
Working pressure (bar)	300	300	320
Max. operating press. (bar)	180	180	180
Min. inside tube ø (mm)	638	638	725
Weight (kg)	1.300	1.300	1.350
A	797	797	915
B	420	420	355
C	1.040	1.040	1.092
D	750	750	747
E	250	250	40
F	665	665	840
G	420	420	396
H	330	330	400
I	303	303	353
J	58	58	54
K	330	330	351
L	349	349	355
M	180	178	244
N	420	420	430

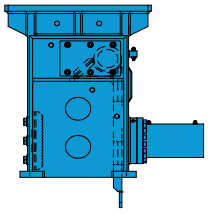
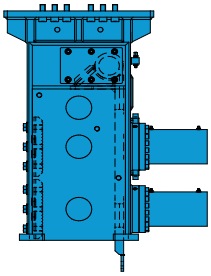
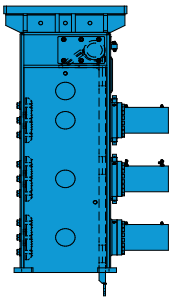
Tube clamp options

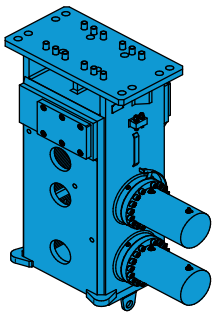


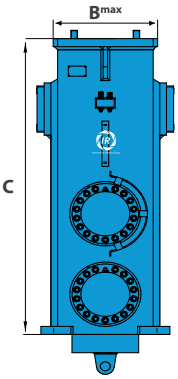
Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

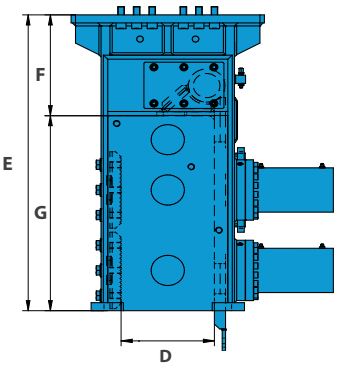
Pile clamp

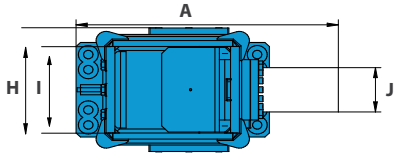
Pile clamp

	InfraRentals supported by Dieseko Group		
	60TP	120TP	180TP
			
Clamping force (kN)	600	1.200	1.800
Working pressure (bar)	300	300	300
Max. operating press. (bar)	180	180	180
Weight (kg)	1.240	1.650	2.820
A	1.180	1.180	1.270
B	470	470	470
C	1.328	1.668	2.474
D	420	420	520
E	1.130	1.470	2.275
F	501	501	526
G	629	969	1.749
H	617	617	727
I	430	430	530
J	220	220	220

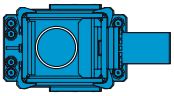


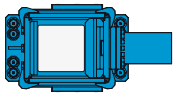


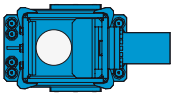




Pile clamp options

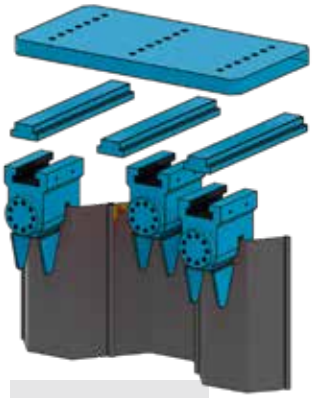




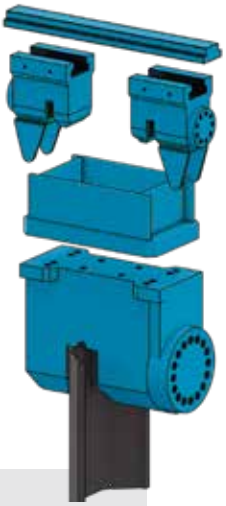


Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Tensfeld (DE) • Großwallstadt (DE)

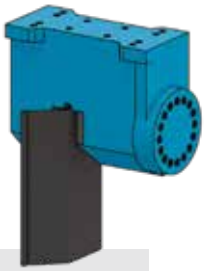
Clamp system solutions



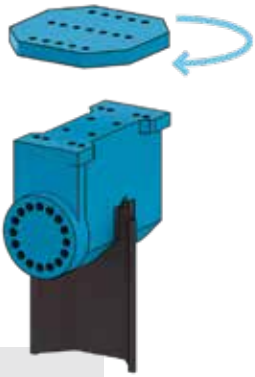
Adapter plate
3x beam
3x tube clamp



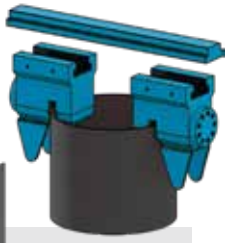
Beam
2x tube clamp
Adapter box
Sheetpile clamp



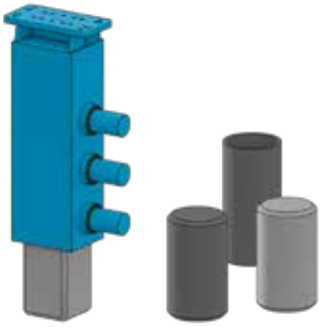
Sheetpile clamp

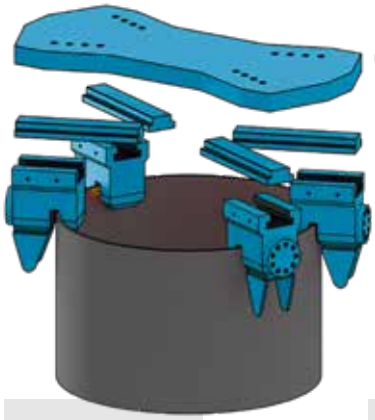


Turning plate
Sheetpile clamp

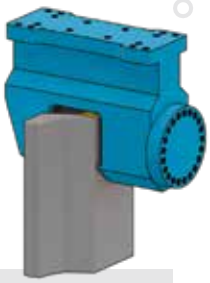


Beam
2x tube clamp

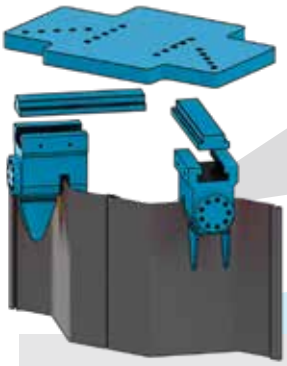




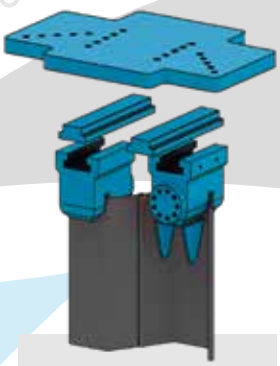
x-plate
4x beam
4x tube clamp



Concrete pile clamp



Adapter plate double
2x beam
2x tube clamp



Adapter plate double
2x beam
2x tube clamp

ABI Mobilram-System

The Revolution in Civil Engineering

Based on site experience ABI has re-designed the ABI MOBILRAM for even higher performance and safety. The new improved version features a stronger mast with even greater usable length. As option a docking system is available which allows the operator to change tools by a push of a button. Further new is a so called CAN-BUS control system with touch screen computer control panel. All control related joy sticks and elements are ergonomically designed and positioned for smooth operation. The engines fulfil the latest environmental standards. With a large choice of attachments the telescopic leader masts can cover nearly all areas of special civil engineering from pile driving, drilling to pressing and up to impact pile driving.

Multifunctional

If the machine is equipped with a vibrator all kinds of pile elements (steel sheet piles, lightweight sections, trench sheeting, beams, steel plates, etc.) can be driven or extracted. Among other things, an auger drive is used to drill or mix foundation and shoring piles.

With a Hydro-Press-System steel sheet pile sections can also be statically pressed into the ground at very low vibrations. And with a diesel hammer or hydraulic impact hammer the pile elements are impact driven into the ground.

The leader mast is the key component on the ABI MOBILRAM-System which guides all attachments for common and extraordinary pile driving, extracting, augering and static pressing operations. Usable pile or auger length up to 25 m are available through the model range.

Low set up times

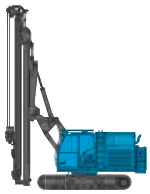
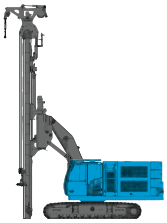
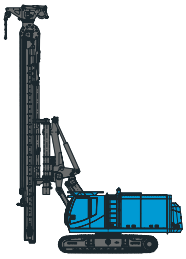
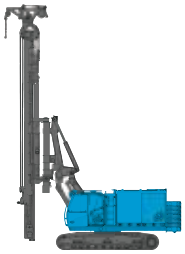
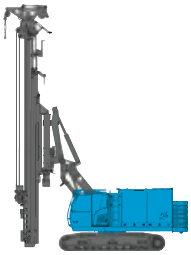
The set up times of an ABI MOBILRAM are very low with less than 30 minutes. To bring the unit back in transport configuration takes not longer. It is done in a one step operation. Vibrators and all other attachments are connected and disconnected quick and safe by the docking system.

High Mobility

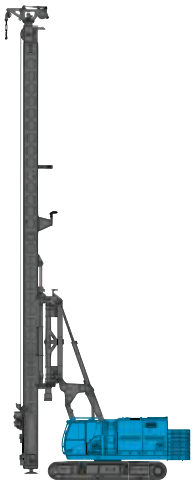
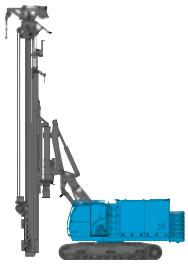
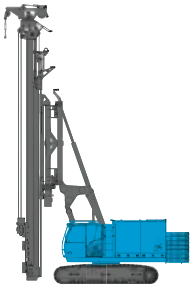
The ABI MOBILRAM can be transported on a low-loading truck. For the transport position the leader mast is folded down to the rear. The transport width can be reduced using telescopic under carriage.

Stock location:

- Niedernberg (DE)
- Hohenwart (DE)

	TM 13	TM 13/16 SL	TM 14/17 VSL	TM 14/17 V	TM 17
					
Engine power (kW)	209	340 / 470	470	470	470
Stroke guiding carriage (mm)	13.500	16.000	17.000	17.000	18.000
Torque absorption max. (kNm)	60	45	45	100	150
Max. load capacity (kg) at 360 degrees operation, reach dependent on ballasting	7.000	9.000	9.000	10.000	11.000
Carrier	SR 20 F	SR 30 / SR 35	SR 35	SR 35	SR 35
Transport weight (approx. t) (incl. standard counter weight, reduction of transport weight possible by detaching counter weight)	40	47 / 51	53,3	58	63
Operation weight with standard vibrator (approx. t)	43,5	51,2 / 56,5	57,3	63	67,4
Standard vibrator	MRZV 16VV	MRZV 20VV	MRZV 20VV	MRZV 30VV	MRZV 30VV
Eccentric static moment (kgm) (Max.) centrifugal force (Kn)	0-16 750	0-20 1.200	0-20 1.200	0-30 1.500	0-30 1.500

ABI Mobilram-System

	TM 18/22 HD	TM 20	TM 22	TM 26
				
Engine power (kW)	563	470	470	563
Stroke guiding carriage (mm)	22.000	20.000	22.000	26.200
Torque absorption max. (kNm)	200	150	200	160
Max. load capacity (kg) at 360 degrees operation, reach dependent on ballasting	19.000	12.000	15.000	20.000
Carrier	SR 45	SR 35	SR 35 HD	SR 45
Transport weight (approx. t) (incl. standard counter weight, reduction of transport weight possible by detaching counter weight)	86	64,8	76	88,5
Operation weight with standard vibrator (approx. t)	92	70	81	94
Standard vibrator	MRZV 36VV	MRZV 30VV	MRZV 30VV	MRZV 36VV
Eccentric static moment (kgm) (Max.) centrifugal force (Kn)	0-36 1.500	0-30 1.500	0-30 1.500	0-36 1.500


InfraRentals
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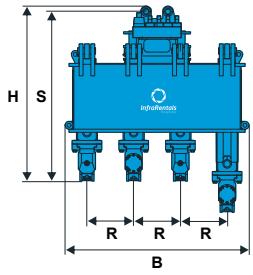
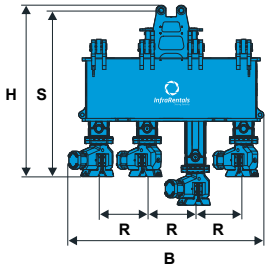
www.infrarentals.com

Hydro-Press-System

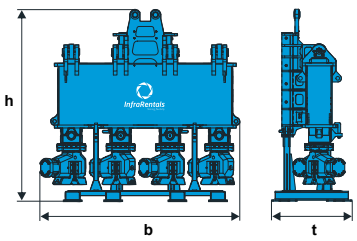
Leader mast guided hydraulic system for static pressing of steel sheet piles.

Technical data

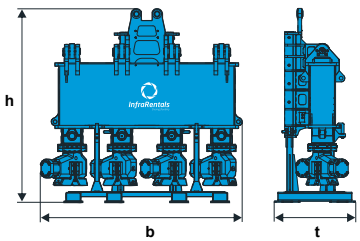
	HPU	HPZ 630/670/700
		
Pressing force (kN)	***4 x 800***	***4 x 800***
Extraction force (kN)	***4 x 600***	***4 x 600***
Stroke (mm)	***4 x 400***	***4 x 400***
Hydraulic flow rate max. (l/min)	***420***	***420***
Nominal oil pressure (kg)	***32***	***32***
Total weight / transport weight	***6.140 / 6.620***	***6.470 / 7.250***
Suitable for steel sheet piles	U-Profile	Z-Profile
ESI / IRZ / Arcelor Cold formed Profile	***PU6, PU8, PU12, PU16, PU20***	***IRZ18, IRZ26, IRZ36, IRZ36-700, IRZ38-700, IRZ40-700***
Vitkovice (VL)	***VL601, VL602, VL603, VL604, VL605***	-
H (mm)	***2.250***	***2.400***
S (mm)	***2.180***	***2.330***
B (mm)	***2.360***	***2.950***
T (mm)	***1.030***	***980***
R (mm)	***600***	***630/670/700*** [1]
Transport dimensions		
h (mm)	***2.535***	***2.630***
b (mm)	***2.360***	***2.950***
t (mm)	***1.240***	***1.100***

[1] *Mechanically adjustable, other sections on request*

Transport



Transport



Leader-guided drilling drive

Technical data

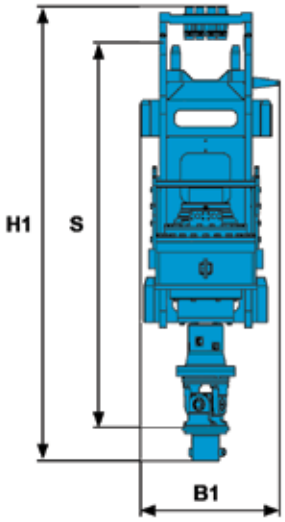
	3200	4000	4000-2[1]	4500-2	4500-2[1]	7000-2	7000-2[1]
Torque (daNm)	3.200	4.000	2.000	4.400	2.200	6.600	3.300
Max. speed (min^{-1})	70	70	120	60	120	40	80
Hydraulic flow rate (l/min)	450	540	460	540	540	540	520
Oil requirement per revolution (l)	6,3	7,5	3,8	8,8	4,4	13,2	6,6
Hydraulic corner power (kW)	240	290	245	280	280	280	270
Static tensile force max. (kN)	200	200	200	200	200	300	300
Max. Working pressure (MPa)	33	33	33	33	33	33	33
Total weight (incl. universal joint) (kg)	1.450	1.550	1.550	1.550	1.550	1.900	1.900
Transport weight (kg)	1.650	1.750	1.750	1.750	1.750	2.100	2.100
Hexagonal connection (SW - M as socket) (mm)	80	100	100	100	100	120	120
Concreting feed-through (optional)Through diameter (mm)	DN 100	DN 100	DN 100	DN 100	DN 100	DN 100	DN 100

[1] *Motor with valve for two speeds. The values listed in addition to the standard values apply to high speed. The MDBA 4500-2 and MDBA 7000-2 models are only available with a two-speed valve.*

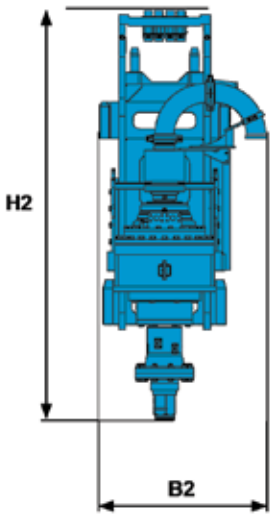
Drill drive MDBA

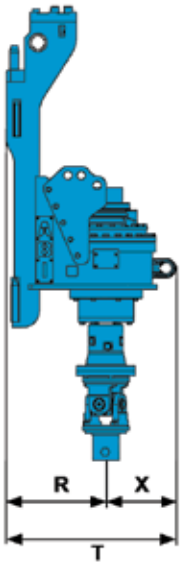
Dimensions	3200	4000	4500-2	7000-2
H1 / H2 (mm)	2.930 / 2.665	2.725 / 2.470	2.725 / 2.470	3.120 / 2.470
B1 / B2 (mm)	835 / 1.010	835 / 1.010	835 / 1.010	835 / 1.010
T (mm)	905	925	925	925
R (mm)	600	600	600	600
S (mm)	2.510	2.330	2.330	2.635
X (mm)	305	325	325	325
Transport dimensions without concreting connection				
h (mm)	3.230	3.405	3.405	3.405
b1 (mm)	1.020	970	970	970
b2 (mm)	1.125	1.100	1.100	1.100
t (mm)	1.100	1.060	1.060	1.060

Without concreting connection



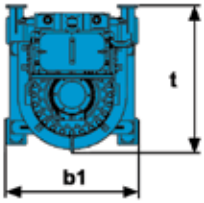
With concreting connection



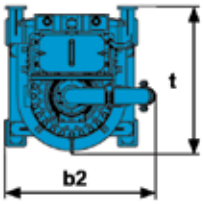


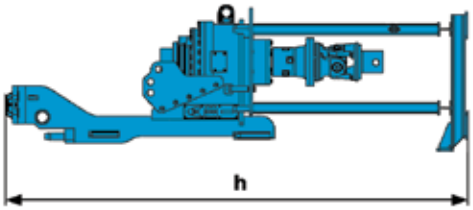
General transportation situation

Without concreting connection



With concreting connection





Delmag rotary drilling rigs

Stock location:
- Niedernberg (DE)
- Hohenwart (DE)

	RH 14	RH 20	RH 27	RH 34
				
Engine power (kW)	209	280	310	400
Drilling depth up to[1] (ca. m)	23	30	40	52
Free diameter in front of the sheaves (mm)	1.500	1.600	1.960	2.170
Stroke turning head (mm)	12.000	12.400	16.650	17.500
Crowd system	Wind	Wind	Wind	Wind
Rotary head with torque up to (kNm)	143	196	270	300
Operating weight	45	64	81	97

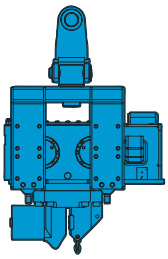
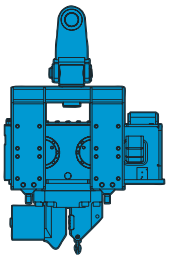
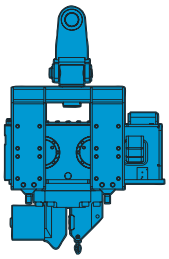
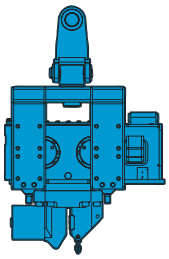
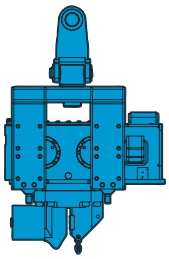
Delmag rotary drilling rigs

	RH 38	RH 44
		
Engine power (kW)	400	563
Drilling depth up to[1] (ca. m)	60	60
Free diameter in front of the sheaves (mm)	2.170	2.400
Stroke turning head (mm)	18.350	19.950
Crowd system	Wind	Wind
Rotary head with torque up to (kNm)	375	440
Operating weight	109	130

Add-on Vibrators HVR

The compact and lightweight excavator-mounted vibrators can be fitted to all common hydraulic excavators.
Power is supplied via the on-board hydraulics and control is via the excavator's operating levers.
The pressure head makes it possible to apply additional pressure forces to the vibrator via the excavator boom;
This can significantly increase the pile-driving performance.

Technical data[1]

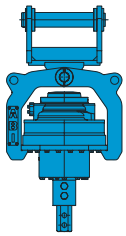
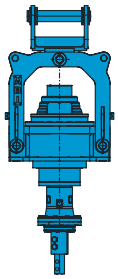
	HVR 30	HVR 45	HVR60	HVR85	HVR100
					
Static moment (kgm)	3	4,5	6	8,5	10
Dynamic mass (kg)	650	815	950	1.535	1.570
Nominal revolutions (min-[1])	3.000	2.460	2.460	2.300	2.135
Centrifugal force at nominal frequency (kN)	300	300	400	500	500
Static extraction force max. (kN)	40	40	40	80	80
Nominal oil pressure (MPa)	32	32	32	32	32
Hydraulic flow rate (l/min)	90	130	196	245	312
Hydraulic power at p max. (kW)	50	70	100	130	170
Total weight (kg)	945	1.160	1.300	2.040	2.100
Transport weight (kg)	1.030	1.240	1.380	2.250	2.310
Recommended weight of pile elements	600	1.100	1.500	1.900	2.500

[1] *with standard clamp assembly and excavator connection (ca. 80 kg)*

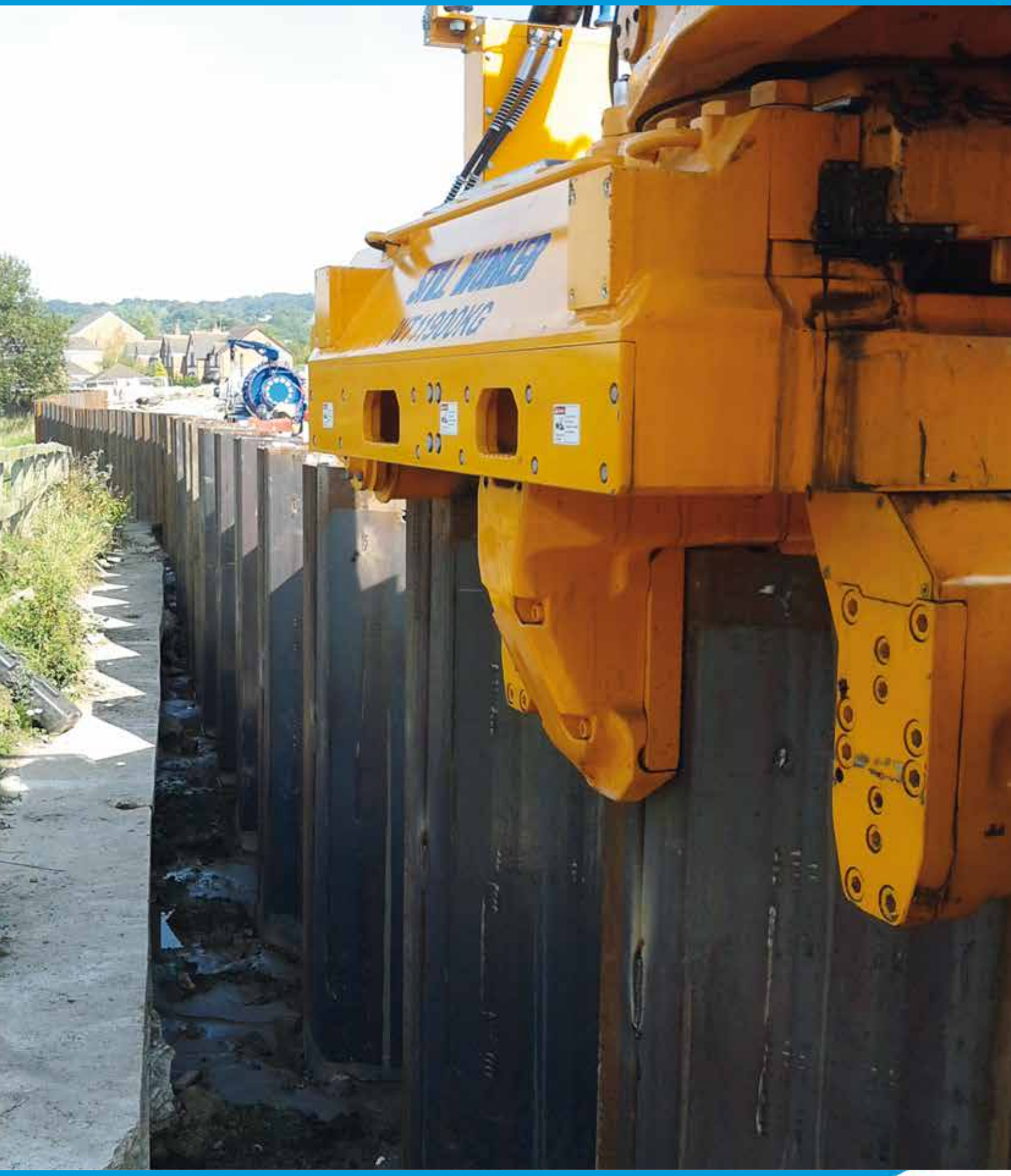
Auger Drives

Excavator mounted add-on auger drives without concrete passage BA
Excavator mounted add-on auger drives with concrete passage and optional with concrete swivel DBA and casing twister RDV.

Technical data[1]

	BA 1200	BA 2200	DBA 3200
			
Torque (daNm)	1.200	2.200	3.200
Revolutions/Revolutions max. (min-$_1$)	73	50	50
Static extraction force max. (kN)	120	200	200
Hydraulic flow rate (l/min)	220	220	300
Required oil quantity per rotation (l)	3,0	4,4	6,3
Max. hydr. power at auger drive (kW)	90	60	160
Nominal oil pressure (MPa)	30	32	32
Concrete passage Inner diameter (mm)	-	-	90
Hexagon connection standard (SW - Z Socket/male) (mm)	80	80	80
Total weight / transport weight (kg)	430	600 / 700	1.050 / 1.360
Concrete swivel (option)	-	-	NW 100/4,5“
Hexagon connection for concreting (SW - Z Socket/male) (mm)	-	-	120 (150)
Total weight / transport weight with concrete swivel (kg)	-	-	1.350 / 1.660

[1] cardanic suspension required



Still Worker ZU-100

Features and Benefits of the Still Worker

- *Virtually noise and vibration free means installation of steel piles as close as 500 mm to existing structures or services*
- *The Still Worker operates at ground level with no piling gates making it a very safe method of operation*
- *Uses a wireless radio control providing a broad range of vision for the operator and a safe working environment*
- *Still Worker is light and compact requiring only a small crane for pile pitching*
- *Ideal for height restricted sites*

Exclusive Mast Tilting Device is standard with each machine

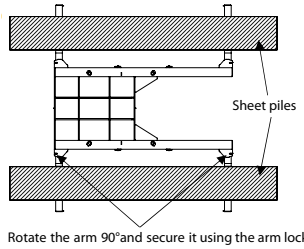
Features and benefits of the Mast Tilt device

- *Mast/chuck can incline forwards and backwards by 5 degrees*
- *More accurate and efficient pile installation*
- *Makes self travelling much easier and quicker*
- *Makes working on gradients much easier*

How does the Still Worker start?

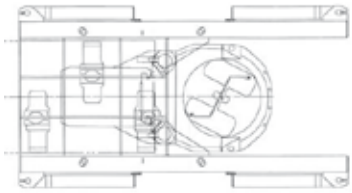
1 *The Reaction Stand*

2 *Reaction stand with sheet piles for kentledge*

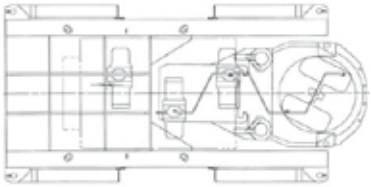


3 *ZU-100 on reaction stand with concrete block kentledge*

4 *First 'Z' pile installed from reaction stand*



5 *Third 'Z' pile installed from reaction stand*



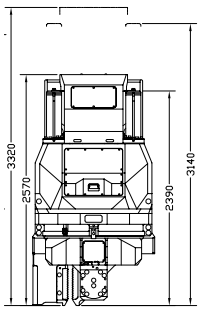
KE200C5 Specification

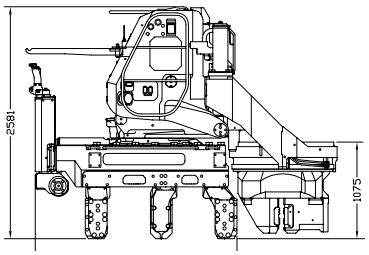
Diesel engine	KE200C5
Hydraulic oil tank	550
Max. power (kW/HP)	168 / 225
Max. frequency (rpm)	1.800
Diesel oil (ltr.)	400
L x W x H (mm)	3.960 x 1.880 x 1.865
Max. oil flow (l/min)	790
Weight (kg)	6.800
Transport weight (kg)	7.150

Kowan ZU-100

Specification

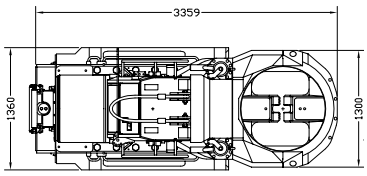
MAX pressing in force	***1.000 kN***
MAX drawing out force	***1.100 kN***
Stroke	***750 mm***
Pressing in speed	***3,0-36,0 m/min***
Drawing out speed	***2,4-28,0 m/min***
Tilting device	***+/- 5 Grad***
Mast rotation	***180 Grad***
Applicable sheet piles	***Z-Profile*** ***575 till 708 mm*** ***U-Profile*** ***600 till 750 mm***
Operation system	***Wireless radio control & cable remote control***
Moving system	***Self-moving***
Oil/Greases	***Biodegradable***
Weight	***12.260 kg***





Noise data

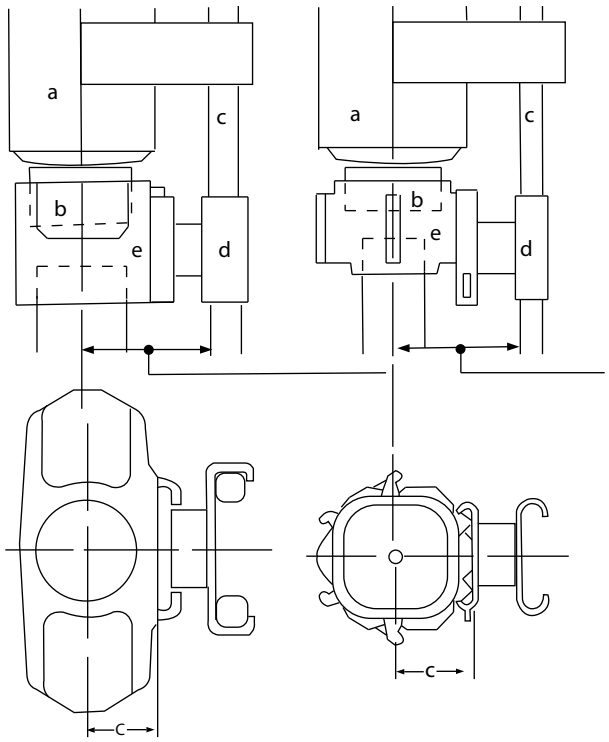
		dB(A) @ 1 m		Predicted dB (A)	
Equipment	***Page***	***Equivalent continuous sound level***	***Maximum continuous sound level / maximum level***	***Equivalent continuous sound level***	***Maximum continuous sound level / maximum level***
Still Worker	*1*	*79,7*	*80,5*	*59,7*	*60,5*
Power pack	*2*	*79,1*	*81,4*	*59,1*	*61,4*
	3	*83,2*	*86,8*	*63,2*	*66,8*
	4	*77,6*	*79,4*	*57,6*	*59,4*



Still Worker ZU-100

Driving caps

The driving cap ensures a good transfer of the energy of the driving impact into the sheet pile and thus prevents damage to the pile head. Driving caps are made of cast steel. The underside of the driving cap is provided with grooves that have a wedge-shaped widening towards the bottom to make it easier to place the driving cap on the sheet pile wall. At the same time, the arrangement of the grooves allows different profiles to fit into one driving cap, thus each driving cap model can be used for several sheet pile profiles..



A. Driving cap
B. Lining
C. Leader
D. Guide impact bonnet
E. Impact bonnet

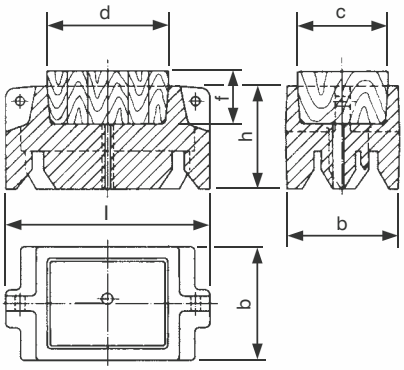
The distance from the centre of the bear to the leader guide must correspond to the distance from the centre of the pile to the leader guide.

On the top of the driving cap is a recess into which the pile-driving lining, usually made of hardwood or plastic, is inserted. The lining dampens the impacts of the ram.

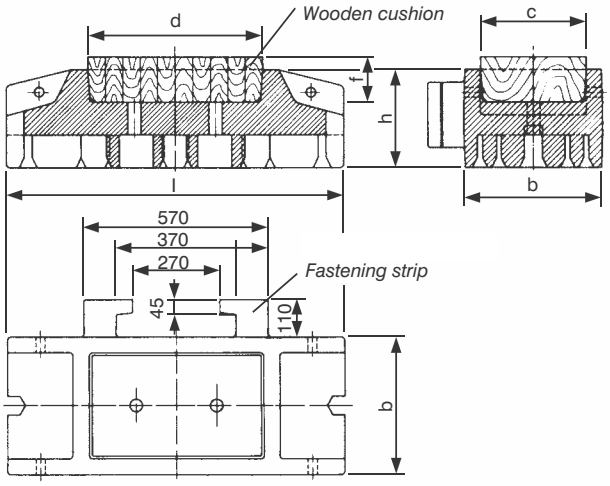
Driving caps for HOESCH and LARSSEN sections/piles and UP piles

Available are single and double driving caps. Driving caps with wooden cushions or, if specially requested, with overlapping steel/plastic linings. For driving with leader guidance, caps with integrally cast fastening strips are available.

Single driving cap



Double driving cap



Single driving cap

No.	Section	Total weight	Dimensions in mm						Fastening strips
			Cap			Lining			
		approx. kg	h	b	l	c	d	f	
RH L601 E LP 001	VL601 VL602		350	460	540	340	380	140	with
RH L601 E LP 002	VL601 VL602	250	270	300	600	224	300	140	without
RH L603 E 001	VL603	300	280	320	600	260	380	140	without
RH L603 E 002	VL603 VL605	480	280	600	600	Ø 420		140	with
RH L604n E LP 001	VL604n		350	540	540	420	380	140	with
RH L605 E LP 001	VL605		350	600	540	480	380	140	with
RH L606n E LP 001	VL606n		350	600	540	480	380	140	with
RH L607n E 002	VL607n	590	350	600	540	380	480	140	with
RH L628 E LP 003	VL628 VL607n	590	350	600	540	480	380	140	with

Double driving cap

No.	Section	Total weight	Dimensions in mm						Fastening strips
			Cap			Lining			
		approx. kg	h	b	l	c	d	f	
RH L601 D 001	VL601 VL602	750	370	410	1.150	Ø 300		140	with
RH L601 D 002	VL601 VL602	700	320	410	1.150	300	500	140	with
RH L603 D 003	VL603	940	350	490	1.240	Ø 400		140	with
RH L604n D 001	VL604n	1.100	360	540	1.240	Ø 450		140	with
RH L605 D 001	VL605		400	600	1.240	Ø 504		200	with
RH L606n D 001	VL606n		400	600	1.240	Ø 504		200	with
RH L607n D 001	VL607n	1.270	400	600	1.240	Ø 504		200	with
RH L628 D 003	VL628 L607n	1.120	400	600	1.240	Ø 504		200	with

Terms of delivery

Sheet piling steel grades for hot-rolled sheet piles conforming to DIN EN 10 248-1

Steel grade	Minimum yield point	Tensile strength	Minimum elongation
	MPa	MPa	%
S 240 GP	240	340	26
S 270 GP	270	410	24
S 320 GP	320	440	23
S 355 GP	355	480	22
S 390 GP*)	390	490	20
S 430 GP*)	430	510	19

*) For the higher-strength sheet piling steels S 390 GP and S 430 GP, an approval certificate (Z-30. 1-17) from the building supervisory authorities is available.

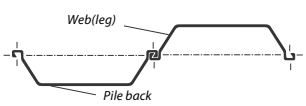
Deviation limits and dimensional tolerances for hot-rolled sheet piles made of unalloyed steels conforming to DIN EN 10 248-2

Pile width	Single piles ± 2%; double and triple piles ± 3%
Wall thicknesses of U-sections	t: up to 8.5 mm = ± 0.5 mm; over 8.5 mm = ± 6% t s: up to 8.5 mm = ± 0.5 mm; over 8.5 mm = ± 6% s*
Wall thicknesses of Z-sections and straight-web sections	t, s: up to 8.5 mm = ± 0.5 mm; over 8.5 mm = ± 6% s, t
Height of U-sections	h: up to 200 mm = ± 4 mm; over 200 mm = ± 5 mm
Height of Z-sections	h: up to 200 mm = ± 5 mm; von 200 up to 300 mm = ± 6 mm; over 300 mm = ± 7 mm
Head flush	For multiple profiles +20/-0 mm
Deviation from straightness	The longitudinal deviation from straightness must not exceed 0.2% of pile length.
Pile length	Sheet pile lengths are permitted to deviate by ± 200 mm from the ordered lengths.
Separating cut	Cut at right angles to the longitudinal axis. The total deviation between the highest and lowest points in the cutting plane, measured on a single pile along the longitudinal axis, must not exceed 2% of pile width.
Weight	The tolerance between the arithmetic weight (according to section tables) and weighed weight of the total consignment must be within ± 5%.
Section interlocks	The interlocks shall have adequate free play so that the piles can be fitted into each other and they must engage in such a manner that the in-service forces can be transmitted. The minimum interlock overlap on U and Z piles must not be less than 4 mm and on straight-web sections not less than 7 mm.

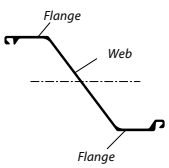
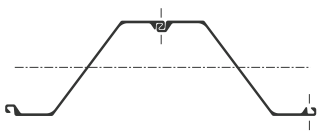
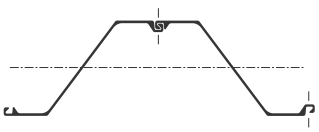
*) Normally the positive tolerance shall be at the discretion of the manufacturer. At the time of the enquiry and order, a limitation on the positive tolerance can be agreed.
In this case, the following values shiuld be chosen: + 0,5 mm for s < 8,5 mm and + 6 % for > 8,5 mm.

Available types

U-Profile

Single	Double S-shape standard	Double Z-shape (on request)	Triple piles standard
			

Z-Profile

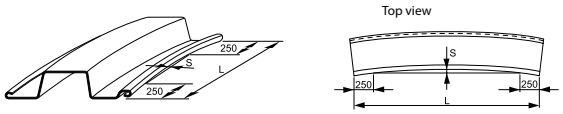
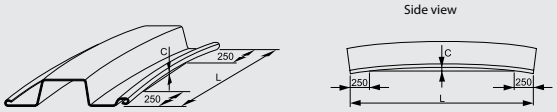
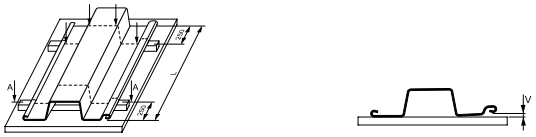
Position A | Single	Position B | Single	Shape 1 standard	Shape 2 (on request)
			

Terms of delivery

Sheet pilling steel grades for cold formed sheet piles conforming to EN 10 249-1

Steelgrade	Minimum yield point	Tensile strength	Minimum elongation
	MPa	MPa	%
S 235 JRC	235	360 - 510	26
S 275 JRC	275	410 - 560	23
S 355 J0C	355	470 - 630	22

Deviation limits and dimensional tolerances for cold formed sheet piles made of unalloyed steels conforming to EN 10 249-2

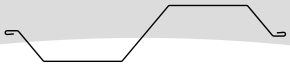
Pile width	Single piles ± 2 %; double piles ± 3 %
Wall thicknesses	The tickness is indicated in table 3 of the EN 10 051.
Height	h: up to 200 mm = ± 4 mm; over 200 up to 300 mm = ± 6 mm; over 300 up to 400 mm ± 8 mm; over 400 mm = ± 10 mm.
Deviation from straightness S	The longitudinal deviation from straightness S, must not exceed 0,25 % of the pile length. 
Deviation from straightness C	The longitudinal deviation from straightness C, must not exceed 0,25 % of the pile length. 
Torsion V	The Size V must not exceed ± 0,2 % of the pile length, with a maximum of 100 mm. 
Pile length	Sheet pile lengths are permitted to deviate by ± 50 mm from the ordered lengths.
Separating cut	Cut at right angles to the longitudinal axis. The total deviation between the highest and lowest points in the cutting plane, measured on a single pile along the longitudinal axis, must not exceed 2 % of the pile width.
Weight	The tolerance between the arithmetic weight (acoording to section tables) and weighed weight of the total consignment must be within ± 7 %.

Available types

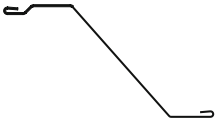
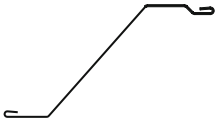
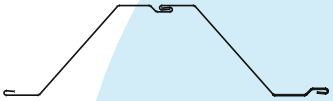
IBO

Shape 1 standard	Shape 2 (on request)
	

MKU

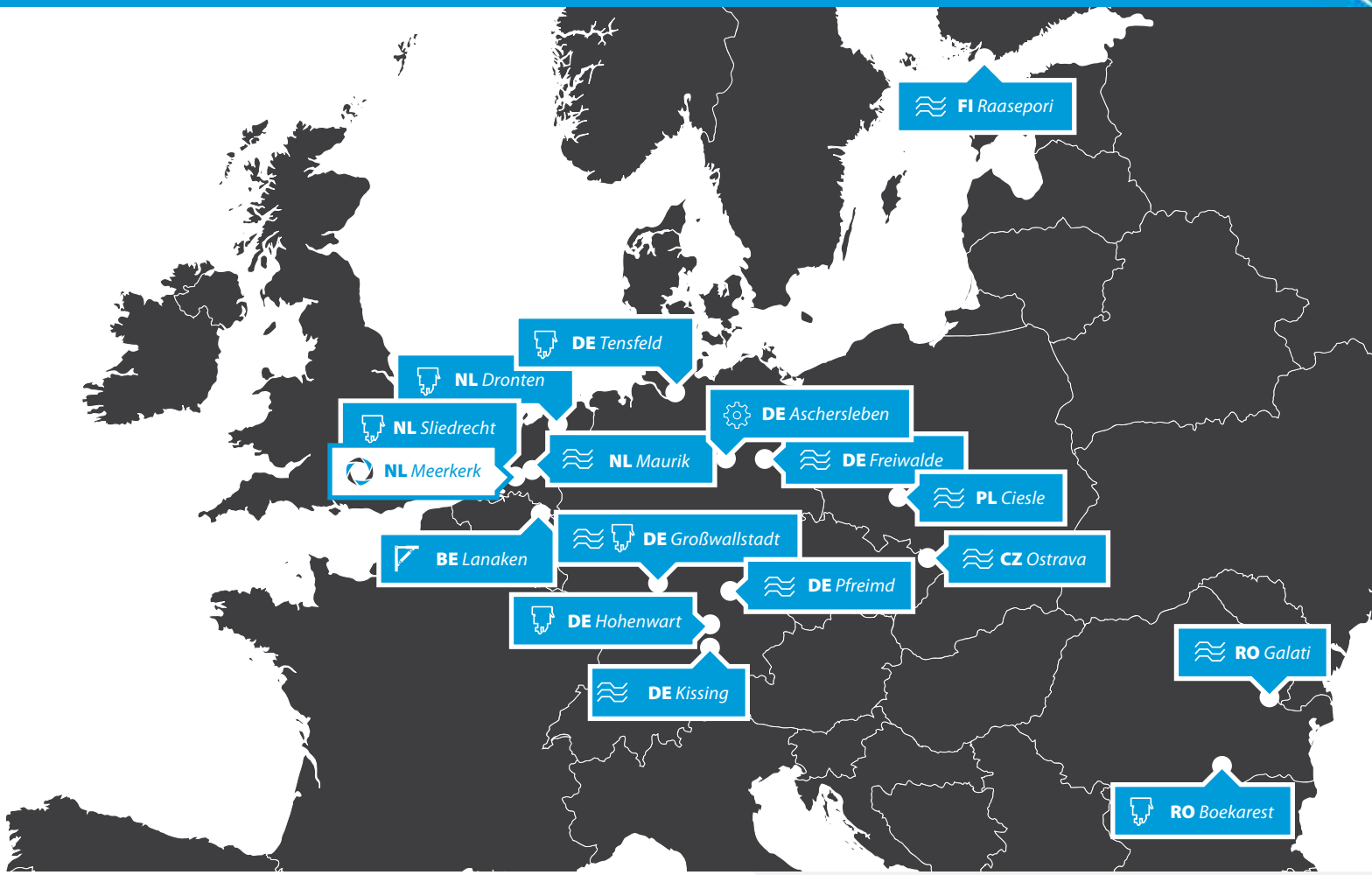
Shape 1 standard	Shape 2 (on request)
	

VKZ

Position A | Single	Position B | Single	Shape 1 standard	Shape 2 (on request)
			

InfraRentals

Our offices- and stock locations



Office
Stock location Sheet piles
Stock location Vibratory hammers
Stock location Bracing
Production location

InfraRentals
Sharing flexibility

ISO 9001

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