

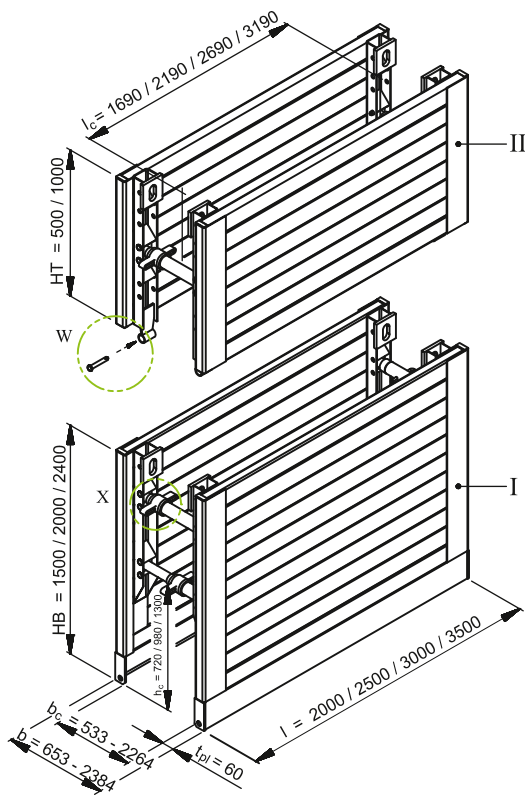
## KRINGS KVL lightweight shoring



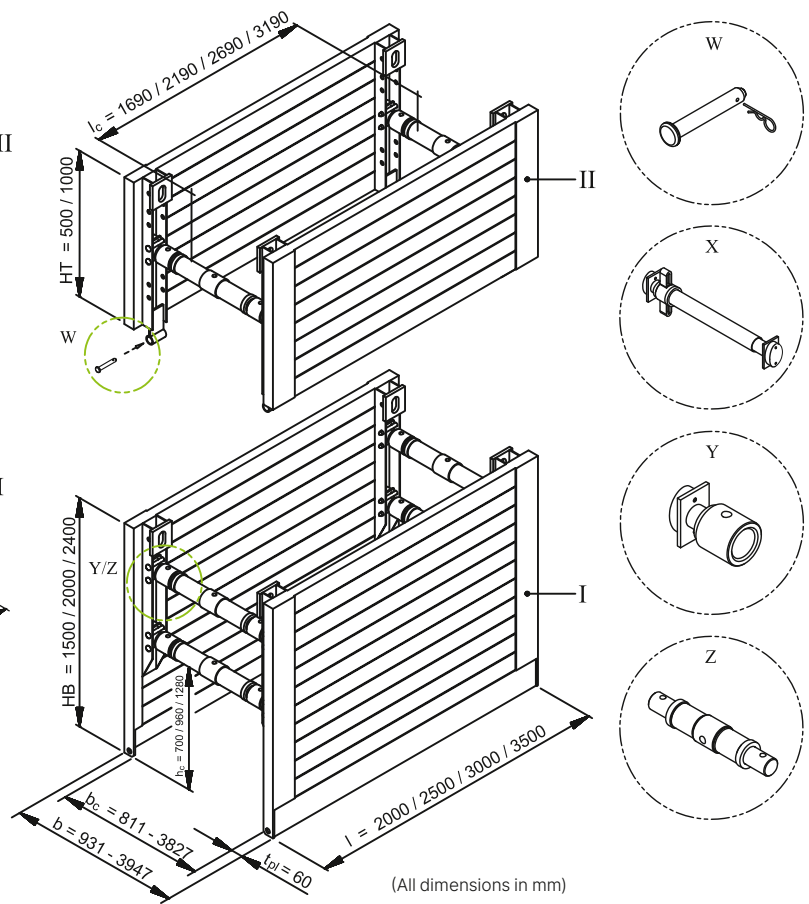
### General data

Shoring length	2.00 m–3.50 m
Base unit height	1.50 m / 2.00 m / 2.40 m
Top unit height	0.50 m / 1.00 m
Pipe culvert height	0.72 m / 0.97 m / 1.30 m
Base box weight	527 kg–1,123 kg
Shoring width	variable
Rec.: mobile excavator	9–13 t

### KVL spindle 70 × ...



### KVL with spindle 98 × ... and adapter



(All dimensions in mm)

- |    |                  |                |                      |                 |                     |   |                  |
|----|------------------|----------------|----------------------|-----------------|---------------------|---|------------------|
| I  | Base unit        | l              | Length               | h <sub>c</sub>  | Pipe culvert height | X | KVL spindle      |
| II | Top unit         | l <sub>c</sub> | Pipe culvert length  | t <sub>pl</sub> | Panel thickness     | Y | Adapter          |
| HB | Base unit height | b              | Shoring/trench width | W               | Bolt                | Z | Spindle 98 x ... |
| HT | Top unit height  | b <sub>c</sub> | Clear width          |                 |                     |   |                  |

**Base units**

Art. no.	l [m]	h [m]	t <sub>pl</sub> [m]	h <sub>c</sub> [m]	l <sub>c</sub> [m]	G / VP [kg]	G / Box [kg]	A [m <sup>2</sup> ]	e <sub>n</sub> [kN/m <sup>2</sup> ]
111 030	2.00	1.50	0.06	0.72	1.69	235.0	527.0 *	3.00	57.9
111 050	2.50	1.50	0.06	0.72	2.19	278.0	613.0 *	3.75	38.2
111 080	3.00	1.50	0.06	0.72	2.69	310.0	677.0 *	4.50	25.5
111085	3.50	1.50	0.06	0.72	3.19	349.0	755.0	5.25	18.3
111 040	2.00	2.00	0.06	0.98	1.69	295.0	647.0 *	4.00	32.2
111 060	2.50	2.00	0.06	0.98	2.19	350.0	757.0 *	5.00	25.7
111 090	3.00	2.00	0.06	0.98	2.69	400.0	857.0 *	6.00	21.4
111 092	3.50	2.00	0.06	0.98	3.19	465.0	987.0 *	7.00	18.3
111098	2.00	2.40	0.06	1.30	1.69	351.0	759.0	4.80	32.4
111088	2.50	2.40	0.06	1.30	2.19	407.0	871.0	6.00	25.9
111 091	3.00	2.40	0.06	1.30	2.69	470.0	997.0 *	7.20	21.6
111 093	3.50	2.40	0.06	1.30	3.19	533.0	1,123.0 *	8.40	18.3

Other sizes or custom-made products on request.

\* With spindle 70 × 650

**Top units**

Art. no.	l [m]	h [m]	t <sub>pl</sub> [m]	h <sub>c</sub> [m]	l <sub>c</sub> [m]	G / VP [kg]	G / Box [kg]	A [m <sup>2</sup> ]	e <sub>n</sub> [kN/m <sup>2</sup> ]
111 130	2.00	0.50	0.06	-	1.69	92.0	214.0 *	1.00	63.5
111 150	2.50	0.50	0.06	-	2.19	105.0	240.0 *	1.25	38.2
111 170	3.00	0.50	0.06	-	2.69	130.0	290.0 *	1.50	25.5
111 172	3.50	0.50	0.06	-	3.19	150.0	330.4 *	1.75	18.3
111 120	2.00	1.00	0.06	-	1.69	165.0	360.0 *	2.00	63.5
111 140	2.50	1.00	0.06	-	2.19	195.0	420.0 *	2.50	38.2
111 160	3.00	1.00	0.06	-	2.69	217.0	464.0 *	3.00	25.5
111 174	3.50	1.00	0.06	-	3.19	245.0	520.4 *	3.50	18.3

Other sizes or custom-made products on request.

\* With spindle 70 × 650

**Shoring widths for spindle 70 × ...**

Art. no.	Short description	Lift [m]	b <sub>c</sub> [m]	b [m]	G [kg]
118 060	Spindle 70 × 650	0.09	0.53–0.63	0.65–0.75	12.2
118 070	Spindle 70 × 740	0.18	0.62–0.81	0.74–0.93	13.4
118 090	Spindle 70 × 920	0.36	0.81–1.17	0.93–1.29	15.8
118 020	Spindle 70 × 1280	0.73	1.16–1.89	1.28–2.01	20.5
118 100	Spindle 70 × 1470	0.92	1.35–2.26	1.47–2.38	24.0

**Shoring widths for spindle 98 × 550 with adapter**

Art. no. extension bar	l [m]	b <sub>c</sub> [m]	b [m]
138 280 (spindle 98 × 550)	w/o	0.81–1.01	0.93–1.13
139 430	0.30	1.11–1.31	1.23–1.43
139 445	0.50	1.31–1.51	1.43–1.63
139 385	1.00	1.81–2.01	1.93–2.13
139 400	1.50	2.31–2.51	2.43–2.63
139 420	2.00	2.81–3.01	2.93–3.13
139 425	2.50	3.31–3.51	3.43–3.63

**Shoring widths for spindle 98 × 700 with adapter**

Art. no. extension bar	l [m]	b <sub>c</sub> [m]	b [m]
138 290 (spindle 98 × 700)	w/o	0.99–1.33	1.11–1.45
139 430	0.30	1.29–1.63	1.41–1.75
139 445	0.50	1.49–1.83	1.61–1.95
139 385	1.00	1.99–2.33	2.11–2.45
139 400	1.50	2.49–2.83	2.61–2.95
139 420	2.00	2.99–3.33	3.11–3.45
139 425	2.50	3.49–3.83	3.61–3.95

l	Length	b <sub>c</sub>	Clear width	t <sub>pl</sub>	Panel thickness	G / VP	Weight / shoring panel
l <sub>c</sub>	Pipe culvert length	h	Panel height	A	Surface	G / Box	Weight / shoring box
b	Trench width	h <sub>c</sub>	Pipe culvert height	G	Weight	e <sub>n</sub>	Admissible soil pressure