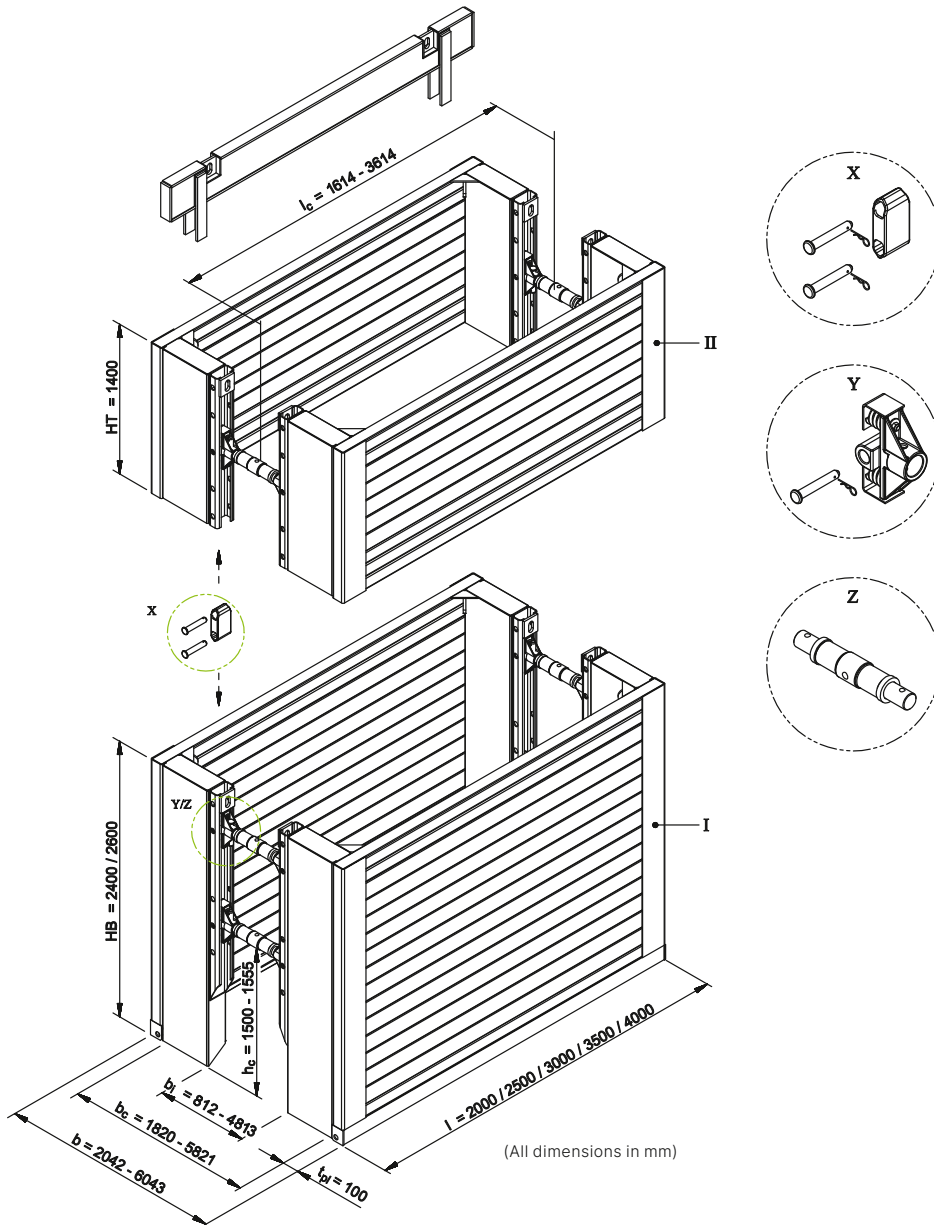


KRINGS KS 100 Manhole



General data

Shoring length	2.00 m–4.00 m
Base unit height	2.40 m / 2.60 m
Top unit height	1.40 m
Pipe culvert height	1.50 m / 1.56 m
Base box weight	1,814 kg–2,960 kg
Shoring width	variable
Rec.: mobile or crawler excavator	18–30 t



- | | | | | | | | |
|----|------------------|-------|----------------------|----------|---------------------|---|--------------------------|
| I | Base unit | l | Length | b_i | Clear passage width | X | Connector with bolts |
| II | Top unit | l_c | Pipe culvert length | h_c | Pipe culvert height | Y | Spring socket with bolts |
| HB | Base unit height | b | Shoring/trench width | t_{pl} | Panel thickness | Z | Spindle 98 x ... |
| HT | Top unit height | b_c | Clear width | | | | |

Base units

Art. no.	l [m]	h [m]	t _{pl} [m]	h _c [m]	l _c [m]	G / VP [kg]	G / Box [kg]	A [m ²]	e _n [kN/m ²]
135 118	2.00	2.40	0.10	1.50	1.61	767.0	1,814.0 *	4.80	60.0
135 099	2.50	2.40	0.10	1.50	2.11	860.0	2,000.0 *	6.00	57.0
135 109	3.00	2.40	0.10	1.50	2.61	961.0	2,202.0 *	7.20	48.0
135 120	3.50	2.40	0.10	1.50	3.11	1,060.0	2,400.0 *	8.40	44.0
135 121	4.00	2.40	0.10	1.50	3.61	1,225.0	2,730.0 *	9.60	40.0
135 095	2.00	2.60	0.10	1.56	1.61	840.0	1,960.0 *	5.20	55.0
135 100	2.50	2.60	0.10	1.56	2.11	950.0	2,180.0 *	6.50	52.0
135 110	3.00	2.60	0.10	1.56	2.61	1,041.0	2,362.0 *	7.80	44.0
135 130	3.50	2.60	0.10	1.56	3.11	1,160.0	2,600.0 *	9.10	44.0
135 140	4.00	2.60	0.10	1.56	3.61	1,340.0	2,960.0 *	10.40	40.0

Other sizes or custom-made products on request.

* With spindle 98 × 700

Top units

Art. no.	l [m]	h [m]	t _{pl} [m]	h _c [m]	l _c [m]	G / VP [kg]	G / Box [kg]	A [m ²]	e _n [kN/m ²]
135 239	2.00	1.40	0.10	-	1.61	590.0	1,362.0 *	2.80	60.0
135 240	2.50	1.40	0.10	-	2.11	655.0	1,492.0 *	3.50	61.6
135 250	3.00	1.40	0.10	-	2.61	720.0	1,622.0 *	4.20	51.3
135 260	3.50	1.40	0.10	-	3.11	831.0	1,844.0 *	4.90	44.1
135 270	4.00	1.40	0.10	-	3.61	940.0	2,062.0 *	5.60	33.0

Other sizes or custom-made products on request.

* With spindle 98 × 700

Shoring widths for spindle 98 × 550

Art. no. extension bar	l [m]	b _i [m]	b _c [m]	b [m]
138 280 (spindle 98 × 550)	w/o	0.81–1.01	1.82–2.02	2.04–2.24
139 430	0.30	1.11–1.31	2.12–2.32	2.34–2.54
139 445	0.50	1.31–1.51	2.32–2.52	2.54–2.74
139 385	1.00	1.81–2.01	2.82–3.02	3.04–3.24
139 400	1.50	2.31–2.51	3.32–3.52	3.54–3.74
139 420	2.00	2.81–3.01	3.82–4.02	4.04–4.24
139 425	2.50	3.31–3.51	4.32–4.52	4.54–4.74

Shoring widths for spindle 98 × 700

Art. no. extension bar	l [m]	b _i [m]	b _c [m]	b [m]
138 290 (spindle 98 × 700)	w/o	0.99–1.33	2.00–2.34	2.22–2.56
139 430	0.30	1.29–1.63	2.30–2.64	2.52–2.86
139 445	0.50	1.49–1.83	2.50–2.84	2.72–3.06
139 385	1.00	1.99–2.33	3.00–3.34	3.22–3.56
139 400	1.50	2.49–2.83	3.50–3.84	3.72–4.06
139 420	2.00	2.99–3.33	4.00–4.34	4.22–4.56
139 425	2.50	3.49–3.83	4.50–4.84	4.72–5.06

Shoring widths for spindle 98 × 817

Extension bars	l [m]	b _i [m]	b _c [m]	b [m]
0	0.00	0.91–1.31	1.92–2.32	2.14–2.54
1	0.50	1.41–1.81	2.42–2.82	2.64–3.04
2	1.00	1.91–2.31	2.92–3.32	3.14–3.54
3	1.50	2.41–2.81	3.42–3.82	3.64–4.04
4	2.00	2.91–3.31	3.92–4.32	4.14–4.54
5	2.50	3.41–3.81	4.42–4.82	4.64–5.04
6	3.00	3.91–4.31	4.92–5.32	5.14–5.54
7	3.50	4.41–4.81	5.42–5.82	5.64–6.04

Depending on the shoring strut, up to 7 extension bars of 500 mm each may be used.

l	Length	h _c	Pipe culvert height
l _c	Pipe culvert length	t _{pl}	Panel thickness
b	Trench width	A	Surface
b _i	Clear passage width	G / VP	Weight / shoring panel
b _c	Clear width	G / Box	Weight / shoring box
h	Panel height	e _n	Admissible soil pressure