

# Single slide rail system, parallel shoring, EG PV



Robust yet smooth-running, the high-strength EG PV (parallel shoring) single-rail system greatly simplifies operations. The fixing of the vertically displaceable boogie car in the position required for stability ensures that loads are discharged effectively at just the right point. The absolutely parallel alignment of the slide-rails enables the frame and the individual panels to slide smoothly, which pays off particularly during removal.

The system is suitable for constructing cast-in-situ concrete sewers. Once the concrete has set, the concrete base slab braces the base of the rails. The boogie car can then be raised to the top to create sufficient working space for sewers up to 3 m high. To cater for greater trench widths, the boogie car can be widened by adding flanged extension bars.

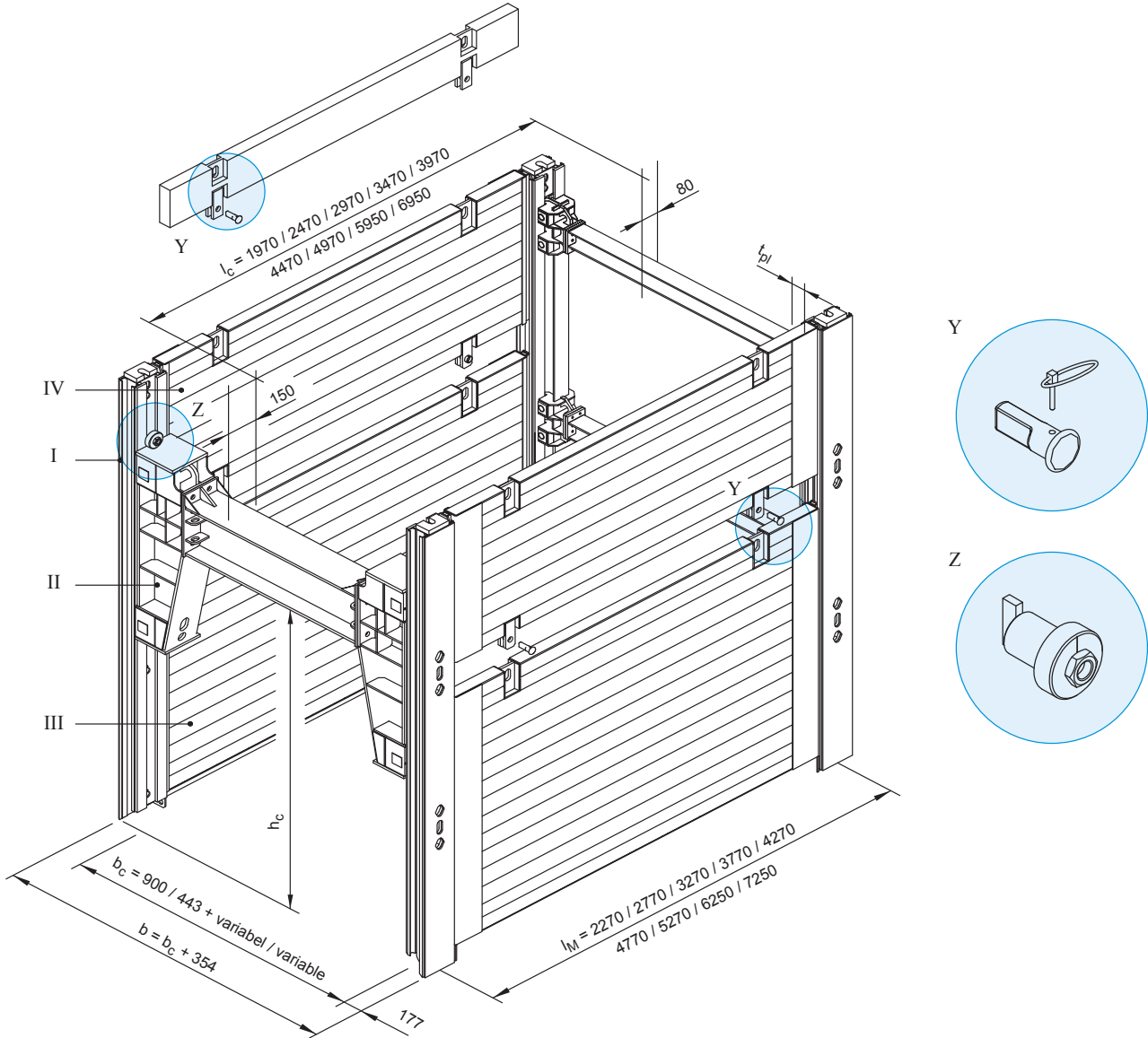
## Basic data

Pipe culvert height	variable
Panel length	2,00 m - 7,00 m
Height base panel	2,32 m
Height top panel	1,30 m
Trench width	variable, see page 50

## Advantages

- Largest possible working space
- Frame and individual panels slide smoothly
- Also suitable for constructing sewers with in-situ concrete

Single slide-rail, parallel shoring, EG PV with U-type or rectangular boogie car



(All dimensions in mm. The details of length of pipe opening  $l_c$  refer to the rectangular boogie car.)

From an intermediate piece length combination of 1.10 m, it is mandatory to mount the shoring horizontally.

I	Slide rail	$l_M$	Module length	$h_c$	Pipe culvert height
II	Boogie car	$l_c$	Pipe culvert length	$t_{pl}$	Thickness
III	Base panel	$b$	Shoring / trench width	Y	Pin
IV	Top panel	$b_c$	Inner width	Z	Bolt for boogie car

**Slide rails**

Art. No.	Short description	l [m]	G [kg]
156 060	Single slide rail system, parallel shoring, EG PV	4,00	479,0

**Slide rail panels Krings sliding rail systems****Base panels KRI (height 2.32 m)**

Art. No.	l [m]	l <sub>M</sub> EG PV [m]	l <sub>M</sub> DG PV [m]	t <sub>pl</sub> [m]	G / VP [kg]	A [m <sup>2</sup> ]	eh [kN/m <sup>2</sup> ]
151 096	2,00	2,27	2,32	0,110	531,0	4,64	141,00
151 101	2,50	2,77	2,82	0,110	624,0	5,80	90,50
151 106	3,00	3,27	3,32	0,110	710,0	6,96	62,90
151 111	3,50	3,77	3,82	0,110	808,0	8,12	46,20
151 121	4,00	4,27	4,32	0,125	1.033,0	9,28	50,60
151 126	4,50	4,77	4,82	0,125	1.150,0	10,44	40,00
151 131	5,00	5,27	5,32	0,125	1.259,0	11,60	32,40

**Base panels KRU (height 2.32 m)**

Art. No.	l [m]	l <sub>M</sub> EG PV [m]	l <sub>M</sub> DG PV [m]	t <sub>pl</sub> [m]	G / VP [kg]	A [m <sup>2</sup> ]	eh [kN/m <sup>2</sup> ]
151 256	2,00	2,27	2,32	0,110	531,0	4,64	141,00
151 261	2,50	2,77	2,82	0,110	625,0	5,80	90,50
151 267	3,00	3,27	3,32	0,110	710,0	6,96	62,90
151 273	3,50	3,77	3,82	0,110	808,0	8,12	46,20
151 276	4,00	4,27	4,32	0,125	1.033,0	9,28	50,60
151 286	4,50	4,77	4,82	0,125	1.150,0	10,44	40,00
151 291	5,00	5,27	5,32	0,125	1.260,0	11,60	32,40

**Top panels KRI (height 1.30 m)**

Art. No.	l [m]	l <sub>M</sub> EG PV [m]	l <sub>M</sub> DG PV [m]	t <sub>pl</sub> [m]	G / VP [kg]	A [m <sup>2</sup> ]	eh [kN/m <sup>2</sup> ]
151 015	2,00	2,27	2,32	0,110	368,0	2,60	141,00
151 020	2,50	2,77	2,82	0,110	430,0	3,25	90,50
151 025	3,00	3,27	3,32	0,110	485,0	3,90	62,90
151 030	3,50	3,77	3,82	0,110	558,0	4,55	46,20
151 040	4,00	4,27	4,32	0,125	686,0	5,20	50,60
151 045	4,50	4,77	4,82	0,125	762,0	5,85	40,00
151 050	5,00	5,27	5,82	0,125	832,0	6,50	32,40

**Top panels KRU (height 1.30 m)**

Art. No.	l [m]	l <sub>M</sub> EG PV [m]	l <sub>M</sub> DG PV [m]	t <sub>pl</sub> [m]	G / VP [kg]	A [m <sup>2</sup> ]	eh [kN/m <sup>2</sup> ]
151 175	2,00	2,27	2,32	0,110	368,0	2,60	141,00
151 180	2,50	2,77	2,82	0,110	430,0	3,25	90,50
151 185	3,00	3,27	3,32	0,110	485,0	3,90	62,90
151 190	3,50	3,77	3,82	0,110	558,0	4,55	46,20
151 200	4,00	4,27	4,32	0,125	686,0	5,20	50,60
151 205	4,50	4,77	4,82	0,125	762,0	5,85	40,00
151 210	5,00	5,27	5,32	0,125	832,0	6,50	32,40

**Base panels KR -outside- (height 2.30 m)**

Art. No.	l [m]	l <sub>M</sub> EG PV [m]	l <sub>M</sub> DG PV [m]	t <sub>pl</sub> [m]	G / VP [kg]	A [m <sup>2</sup> ]	eh [kN/m <sup>2</sup> ]
151 133	6,00	6,25	6,30	0,150	1.851,0	13,80	37,80
151 134	7,00	7,25	7,30	0,150	2.180,0	16,10	27,70

**Base panels KR -inside- (height 2.30 m)**

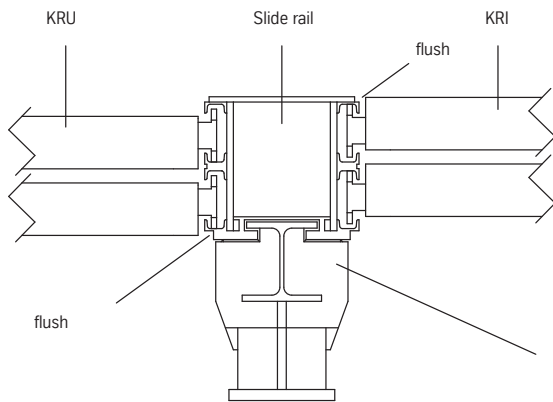
Art. No.	l [m]	l <sub>M</sub> EG PV [m]	l <sub>M</sub> DG PV [m]	t <sub>pl</sub> [m]	G / VP [kg]	A [m <sup>2</sup> ]	eh [kN/m <sup>2</sup> ]
151 293	6,00	6,25	6,30	0,150	1.850,0	13,80	37,80
151 294	7,00	7,25	7,30	0,150	2.180,0	16,10	27,70

**Top panels KR -outside- and -inside- (height 1.35 m)**

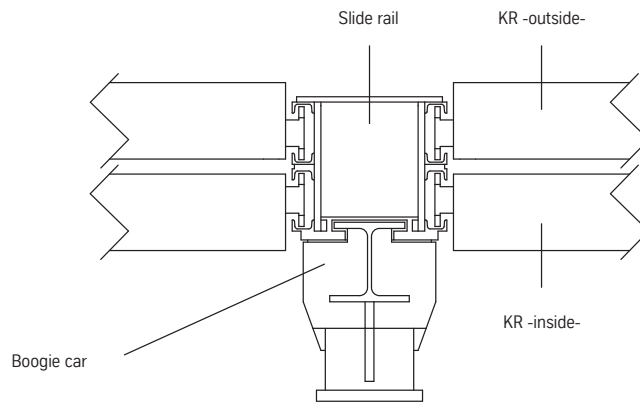
Art. No.	l [m]	l <sub>M</sub> EG PV [m]	l <sub>M</sub> DG PV [m]	t <sub>pl</sub> [m]	G / VP [kg]	A [m <sup>2</sup> ]	eh [kN/m <sup>2</sup> ]
151 053	6,00	6,25	6,30	0,150	1.380,0	8,10	37,80
151 054	7,00	7,25	7,30	0,150	1.650,0	9,45	27,70

**Difference between KRI and KRU panels**

for panels l = 2,00 m - 5,00 m



for panels l = 6,00 m - 7,00 m



l	Length	A	Area	eh	Earth pressure max.
l <sub>M</sub>	Module length	G	Weight	EG PV	Single slide rail system
h	Height	G / VP	Weight per shoring panel	DG PV	Double slide rail system
t <sub>pl</sub>	Thickness	d	Diameter		

**Boogie cars**

Art. No.	Short description	G [kg]
159 280	Rectangular boogie car 2112 x 260 mm (single slide rail)	172,0
832 204	U-type boogie car (single and double slide rail)	450,0

**Extension bars for rectangular boogie car, parallel shoring, 2112 x 260 mm**

Art. No.	Short description	l [m]	G [kg]
159 810	Extension bar HEB 240	0,500	25,0
159 570	Extension bar HEB 240	1,000	52,0
159 575	Extension bar HEB 240	1,500	70,0
159 690	Extension bar HEB 240	2,000	78,0

**Extension bars for U-type boogie car, parallel shoring, 1700 x 450 mm**

Art. No.	Short description	l [m]	G [kg]
831 500	Extension bar HEA 450	0,275	107,0
831 510	Extension bar HEA 450	0,550	140,0
831 520	Extension bar HEA 450	1,100	220,0
831 530	Extension bar HEA 450	1,650	300,0
831 540	Extension bar HEA 450	2,200	375,0

**Shoring widths for rectangular boogie car, parallel shoring, 2112 x 260 mm (Single slide rail system parallel shoring)**

Length extension bar [m]	Shoring panel KRI 2,00 - 3,50		Shoring panel KRU 2,00 - 3,50		Shoring panel KRI 4,00 - 5,00		Shoring panel KRU 4,00 - 5,00		Shoring panel KR 6,00 - 7,00	
	b <sub>c</sub> [m]	b [m]	b <sub>c</sub> [m]	b [m]	b <sub>c</sub> [m]	b [m]	b <sub>c</sub> [m]	b [m]	b <sub>c</sub> [m]	b [m]
without	0,540	0,760	0,465	0,685	0,540	0,790	0,435	0,685	0,405	0,705
0,500	1,040	1,260	0,965	1,185	1,040	1,290	0,935	1,185	0,905	1,205
1,000	1,540	1,760	1,465	1,685	1,540	1,790	1,435	1,685	1,405	1,705
1,500	2,040	2,260	1,965	2,185	2,040	2,290	1,935	2,185	1,905	2,205
2,000	2,540	2,760	2,465	2,685	2,540	2,790	2,435	2,685	2,405	2,705

**Shoring widths for U-type boogie car, parallel shoring, 1700 x 450 mm (Single slide rail system parallel shoring)**

Length extension bar [m]	Shoring panel KRI 2,00 - 3,50		Shoring panel KRU 2,00 - 3,50		Shoring panel KRI 4,00 - 5,00		Shoring panel KRU 4,00 - 5,00		Shoring panel KR 6,00 - 7,00	
	b <sub>c</sub> [m]	b [m]	b <sub>c</sub> [m]	b [m]	b <sub>c</sub> [m]	b [m]	b <sub>c</sub> [m]	b [m]	b <sub>c</sub> [m]	b [m]
without	0,995	1,215	0,925	1,145	0,995	1,245	0,895	1,145	0,865	1,165
0,275	1,270	1,490	1,200	1,420	1,270	1,520	1,170	1,420	1,140	1,440
0,550	1,545	1,765	1,475	1,695	1,545	1,795	1,445	1,695	1,415	1,715
1,100	2,095	2,315	2,025	2,245	2,095	2,345	1,995	2,245	1,965	2,265
1,650	2,645	2,865	2,575	2,795	2,645	2,895	2,545	2,795	2,515	2,815
2,200	3,195	3,415	3,125	3,345	3,195	3,445	3,095	3,345	3,065	3,365

## Accessories / Spares

Art. No.	Short description	l [m]	d [m]	G [kg]
842 752	Adapter for DKU piling frame, corner shoring, h = 0.50 m KDVI			55,0
842 753	Adapter for DKU piling frame, corner shoring, h = 1.00 m KDVI			94,0
842 760	Adapter for DKU piling frame, h = 0.50 m KDIV (single slide rail, krings)			38,0
842 757	Adapter for DKU piling frame, h = 0.50 m KDVI (single slide rail, krings)			40,0
842 754	Adapter for DKU piling frame, h = 1.00 m KDVI (single slide rail, krings)			60,0
842 099	DKU piling frame guide frame	2,27		105,0
842 100	DKU piling frame guide frame	3,81		175,0
139 045	Nut M 16			0,1
IA 0150F	Nut M 24			0,1
IA 0210F	Nut M 36			0,4
159 030	Pin (single/double slide rail)	0,110	0,080	2,6
159 050	Pin d = 50, connector (slide rail)	0,125	0,043	1,1
861 075	Pressure beam (boxes, slide rail)	4,60		425,0
861 085	Pressure beam (boxes, slide rail)	5,80		525,0
861 076	Pressure beam (Medium, Magnum shoring, KS 100, GLS)	1,60		176,0
861 074	Pressure beam (Medium, Magnum shoring, KS 100, GLS)	2,35		236,0
861 070	Pressure beam (Medium, Magnum shoring, KS 100, GLS)	2,80		271,0
861 071	Pressure beam (Medium, Magnum shoring, KS 100, GLS)	3,40		318,0
100 950	Pulling lug 170 x 150			6,0
139 035	Screw M 16 x 70			0,1
IB 0470F	Screw M 24 x 80			0,4
IB 0614F	Screw M 36 x 80			1,0
159 160	Spring cotter 42 x 6	0,042	0,006	0,1
336 960	Support bracket for DKU piling frame element			40,0
821 100	Suspension chain KL-13-8	5,000		25,7
842 712	Waling for DKU piling frame, module length 2.77 m (single slide rail, krings)	2,524		209,0
842 713	Waling for DKU piling frame, module length 3.77 m (single slide rail, krings)	3,524		355,0
842 714	Waling for DKU piling frame, module length 4.27 m (single slide rail, krings)	4,024		400,0
139 110	Wire rope 4-legs, 1800 x 20	1,80		40,0
139 120	Wire rope 4-legs, 2800 x 20	2,80		46,0

l	Length	b	Shoring / trench width	d	Diameter
l <sub>M</sub>	Module length	b <sub>c</sub>	Inner width		
l <sub>c</sub>	Pipe culvert length	G	Weight		