

Single slide rail system

Linear shoring



Linear shoring is suitable for casting concrete in-situ place and can be flexibly adapted to any construction project. The ground outside the trench remains largely unaffected, and buildings and traffic flow are not impaired – a level of performance that was long-considered unattainable.

On linear shoring, rigid boogie cars that are height-adjusted to match the increasing depth keep the beams and shoring panels at the same distance apart at all times; the trench width remains unchanged at all stages of the project. The width of the rigid frame is adapted with spreaders to the desired trench width. The boogie car maintains precise right angles – everything stays linearly aligned, always at the same distance from the opposite side. This ensures more efficient, faster, better-quality, and noticeably more cost-effective operations, with a major advantage of the system being derived from the design of the beam. For only on the linear shoring system is it possible to pivot in the shoring panels from the side.

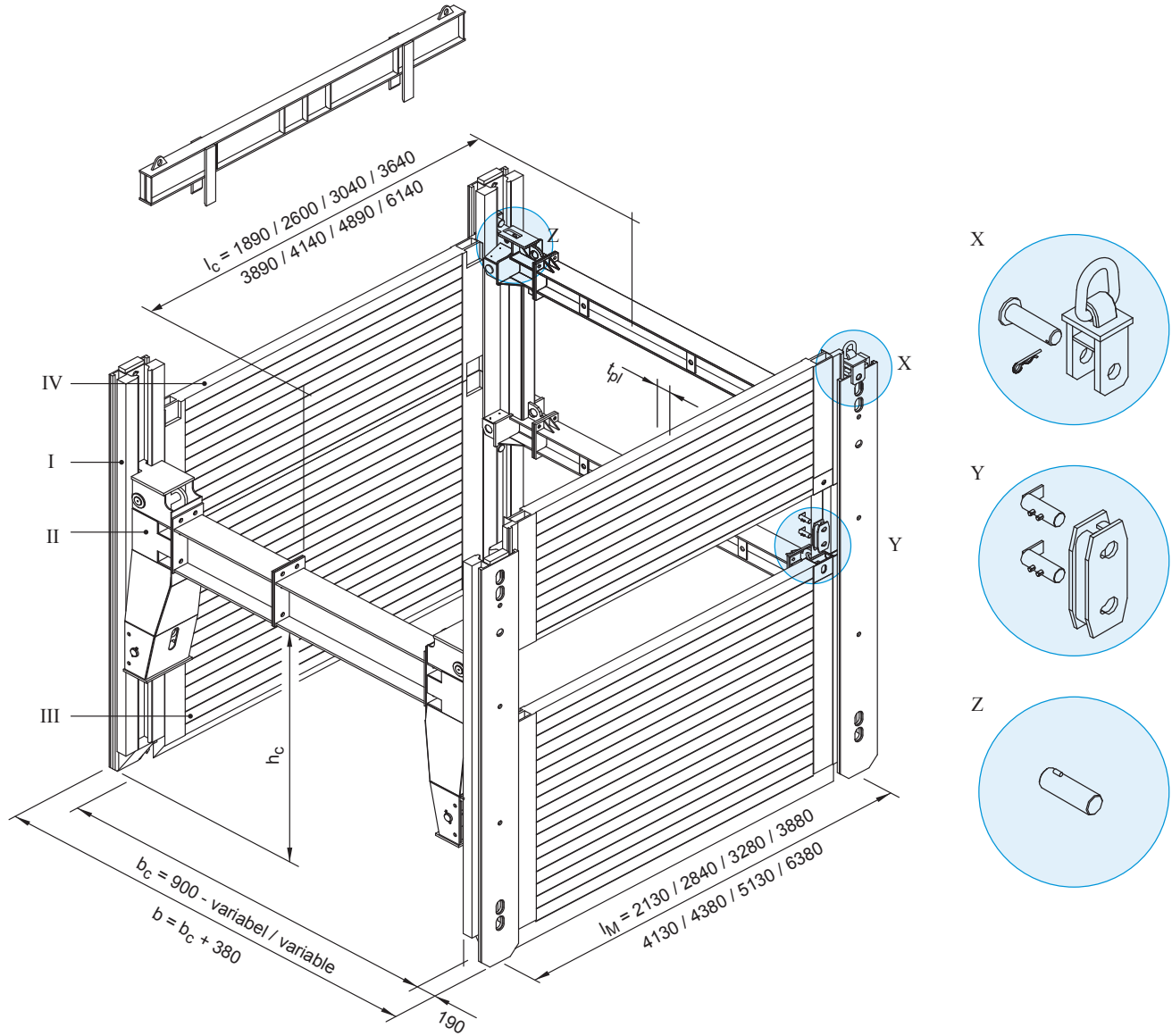
Basic data

Module length	2,13 m - 6,38 m
Length slide rail	4,13 m
Panel height	1,32 m / 2,32 m
Pipe culvert height	variable
Trench width	variable, see page 32-33

Advantages

- Cost-effective shoring
- No adverse impact on building development or traffic
- Suitable for in-situ concrete

Single slide rail Linear shoring 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	Linear shoring support	l_c	Pipe culvert length	X	Pull adapter
II	Boogie car	b	Shoring / trench width	Y	Connector
III	Base panel	b_c	Inner width	Z	Pin
IV	Top panel	h_c	Pipe culvert height		
l_M	Module length	t_{pl}	Thickness		

Linear shoring support

Art. No.	Short description	l [m]	G [kg]
820 935	Linear shoring support, single slide rail	4,13	710,0

Base panels -inside- (height 2.32 m), Single slide rail and double slide rail linear shoring

Art. No.	l [m]	l _M [m]	t _{pl} [m]	l _c [m]	G / VP [kg]	A [m ²]	eh [kN/m ²]
821 120	1,89	2,13	0,11	1,89	519,0	4,38	176,00
821 160	2,60	2,84	0,11	2,60	650,0	6,03	90,00
821 250	3,04	3,28	0,11	3,04	733,0	7,05	65,50
821 610	3,64	3,88	0,11	3,64	845,0	8,44	45,20
821 850	3,89	4,13	0,11	3,89	968,0	9,02	39,40
821 855	4,14	4,38	0,15	4,14	1.300,0	9,58	81,00
821 860	4,89	5,13	0,15	4,89	1.505,0	11,34	58,10
821 861	6,13	6,38	0,15	6,13	1.880,0	14,22	36,60

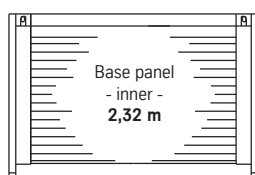
Top panels -inside- (height 1.32 m), Single slide rail and double slide rail linear shoring

Art. No.	l [m]	l _M [m]	t _{pl} [m]	l _c [m]	G / VP [kg]	A [m ²]	eh [kN/m ²]
822 060	1,89	2,13	0,11	1,89	356,0	2,49	176,00
821 180	2,60	2,84	0,11	2,60	450,0	3,43	90,00
822 120	3,04	3,28	0,11	3,04	519,0	4,01	65,50
822 620	3,64	3,88	0,11	3,64	620,0	4,80	45,20
822 760	3,89	4,13	0,11	3,89	649,0	5,13	39,40
822 783	4,14	4,38	0,15	4,14	873,0	5,45	81,00
822 800	4,89	5,13	0,15	4,89	1.098,0	6,45	58,10
822 801	6,13	6,38	0,15	6,13	1.370,0	8,09	36,60

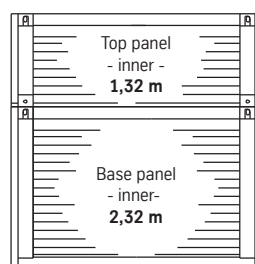
Top panels -inside- (height 2.30 m), Single slide rail and double slide rail linear shoring

Art. No.	l [m]	l _M [m]	t _{pl} [m]	l _c [m]	G / VP [kg]	A [m ²]	eh [kN/m ²]
822 065	1,89	2,13	0,11	1,89	532,0	4,35	176,00
822 155	2,60	2,84	0,11	2,60	660,0	5,98	90,00
822 180	3,04	3,28	0,11	3,04	742,0	6,99	65,50
822 680	3,64	3,88	0,11	3,64	852,0	8,37	45,20
822 780	3,89	4,13	0,11	3,89	980,0	8,95	39,40
822 785	4,14	4,38	0,15	4,14	1.409,0	9,50	81,00

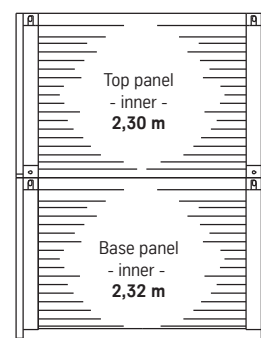
The details of length of pipe opening l_c refer to the rectangular boogie car.

Combinations of height Single slide rail Linear shoring

Trench depth approx. 2,30 m



Trench depth approx. 3,60 m



Trench depth approx. 4,60 m

Linear shoring boogie car

Art. No.	Short description	l [m]	G [kg]
832 200	Rectangular boogie car	2,00	420,0
832 215	Linear shoring rectangular boogie car	2,20	490,0
832 205	Linear shoring U-type boogie car	2,00	550,0

Extension bars for rectangular boogie car

Art. No.	Short description	l [m]	G [kg]
830 005	Extension bar HEB 220	0,140	38,0
830 010	Extension bar HEB 220	0,275	50,0
830 011	Extension bar HEB 220	0,350	55,0
830 012	Extension bar HEB 220	0,375	57,0
830 015	Extension bar HEB 220	0,412	60,0
830 020	Extension bar HEB 220	0,550	70,0
830 030	Extension bar HEB 220	1,100	110,0
830 075	Extension bar HEB 220	1,650	152,0
830 125	Extension bar HEB 220	2,200	192,0
830 300	Extension bar HEB 220	3,300	278,0
830 305	Extension bar HEB 220	4,400	358,0

Extension bars for U-type boogie car

Art. No.	Short description	l [m]	G [kg]
831 503	Extension bar HEA 450	0,140	77,0
831 500	Extension bar HEA 450	0,275	107,0
831 507	Extension bar HEA 450	0,375	115,0
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

Trench widths, Single slide rail shoring

Length extension bar [m]	b _c [m]	b [m]
without extension bar	0,900	1,280
0,140	1,040	1,420
0,275	1,175	1,555
0,350	1,250	1,630
0,375	1,275	1,655
0,412	1,312	1,692
0,550	1,450	1,830
1,100	2,000	2,380
1,650	2,550	2,930
2,200	3,100	3,480
3,300	4,200	4,580
4,400	5,300	5,680

Other trench widths possible by combining different extension bar lengths.
Larger trench widths available on request.

Accessories / Spares

Art. No.	Short description	l [m]	d [m]	G [kg]
842 758	Adapter for DKU piling frame, corner shoring, h = 0.50 m KDIV			47,0
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
842 759	Adapter for DKU piling frame, h = 0.50 m KDIV (single slide rail, e+s)			40,0
842 749	Adapter for DKU piling frame, h = 0.50 m KDVI (single slide rail, e+s)			45,0
842 751	Adapter for DKU piling frame, h = 1.00 m KDVI (single slide rail)			75,5
834 080	Adapter for EGS / DGS (LV)			105,0
862 200	Connector			5,5
834 100	Cover panel for in-situ concrete DG -base panel-	0,750		7,9
834 110	Cover plate for in-situ concrete DG -top plate-	1,000		9,9
842 099	DKU piling frame guide frame	2,27		105,0
842 100	DKU piling frame guide frame	3,81		175,0
IA 0150F	Nut M 24			0,1
IA 0210F	Nut M 36			0,4
862 100	Pin (for connector)	0,110	0,035	1,0
832 246	Pin for boogie car (deep Linear shoring)	0,300	0,05	4,6
832 230	Pin for Pressure Plate Rectangular Boogie Car	0,150	0,035	1,4
832 245	Pin, Linear shoring (double slide rail)	0,300	0,04	3,2
850 720	Pin, Linear shoring (single slide rail)	0,150	0,05	2,5
861 075	Pressure beam (boxes, slide rail)	4,60		425,0
861 085	Pressure beam (boxes, slide rail)	5,80		525,0
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
861 076	Pressure beam (Medium, Magnum shoring, KS 100, GLS)	1,60		176,0
834 015	Pressure plate for boogie car			12,4
834 060	Pull adapter double slide rail			43,6
834 057	Pull adapter single slide rail			33,0
IB 0470F	Screw M 24 x 80			0,4
IB 0614F	Screw M 36 x 80			1,0
HE 0050 F	Spring cotter 6 mm		0,006	0,03
HE 0060F	Spring cotter 8 mm		0,008	0,1
336 960	Support bracket for DKU piling frame element			40,0
821 100	Suspension chain KL-13-8	5,000		25,7
842 704	Waling for DKU piling frame, module length 2.84 m (single slide rail, E+S)	2,60		300,0
842 705	Waling for DKU piling frame, module length 3.88 m (single slide rail, E+S)	3,64		402,0
842 710	Waling for DKU piling frame, module length 4.13 m (single slide rail, E+S)	3,89		420,0
842 711	Waling for DKU piling frame, module length 4.38 m (single slide rail, E+S)	4,13		445,0

l	Length	b _c	Inner width	G / VP	Weight per shoring panel
l _M	Module length	t _{pl}	Thickness	d	Diameter
l _c	Pipe culvert length	A	Area	eh	Earth pressure max.
b	Shoring / trench width	G	Weight		