Single slide rail inner-city shoring (before 09/2009)

Pipelines inside, traffic outside

During inner-city trenching operations, attention has to be paid to the numerous supply lines crossing the trench. At the same time it is essential that no vibrations are transmitted to the soil outside the trench because of buildings close by and roads and rails often running alongside the trench.

Large-area support prevented by small supply lines

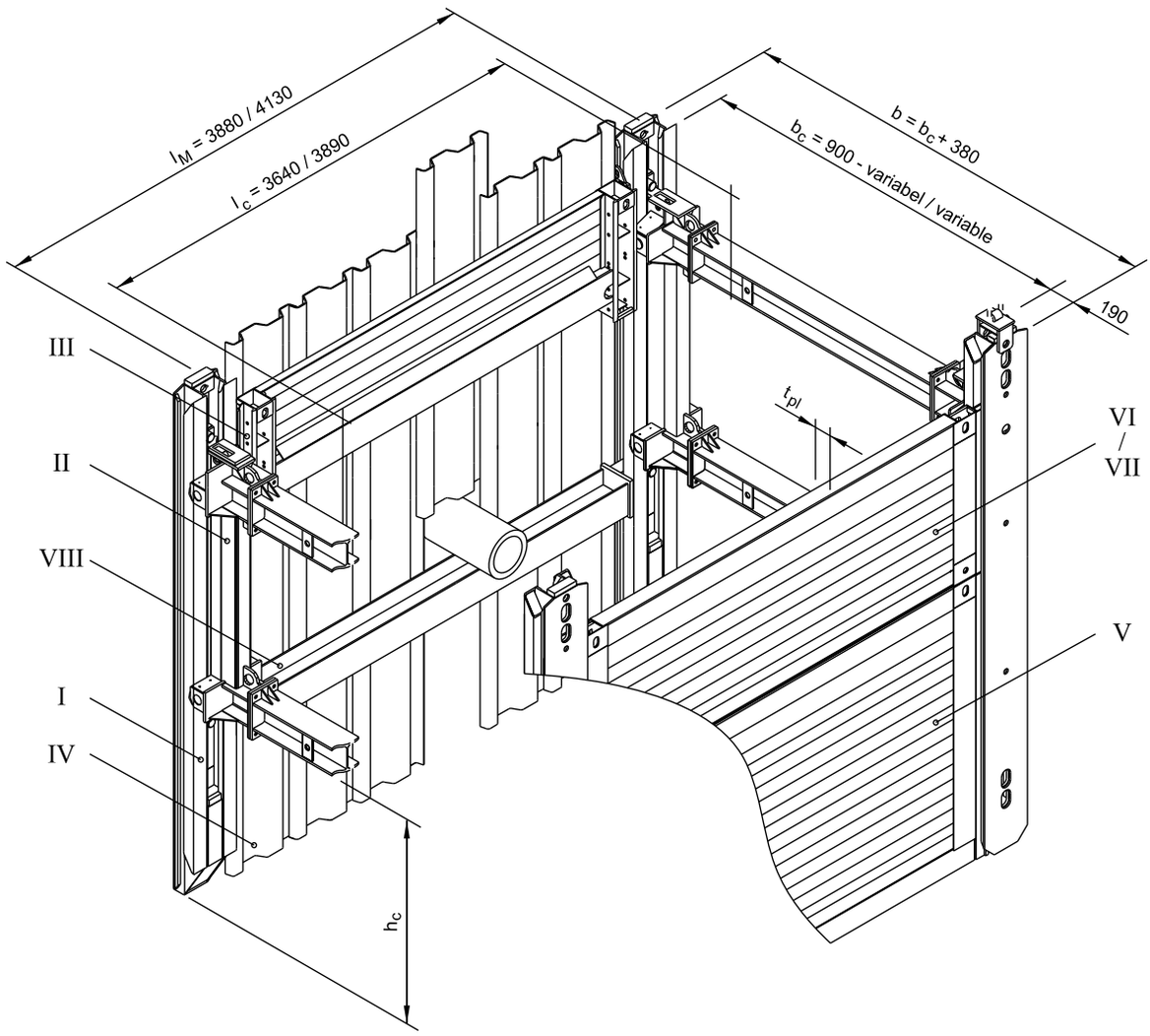
Large-area support systems are out of the question - in spite of their other advantages - for use in trench sections crossed by numerous supply lines, if only for functional reasons.

Unlimited combinations

Inner-city Linear Shoring can be combined with the components of the Linear Shoring system from e+s - with soldiers, boogie cars and large shoring panels. Consequently, the advantages of inner-city Linear Shoring can be combined with those of large-area shoring on a single site. This offers you totally new scope in terms of costing and profitability.

Basic data

Module length	2,84 m / 4,38 m
Length slide rail	4,13 m
Height sheet pile element	1,00 m
Length sheet piles (KD VI/8)	variable



(All dimensions in mm)

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

I	Linear shoring support	VI	Top panel	b_c	Inner width
II	Boogie car	VII	Waling	h_c	Pipe culvert height
III	Sheet pile element	l_M	Module length	t_{pl}	Thickness
IV	Sheet pile	l_c	Pipe culvert length		
V	Base panel	b	Shoring width		

Linear shoring support

Art. No.	l [m]	G [kg]
820 935	**4,13**	710,0

Linear shoring boogie car

Art. No.	l [m]	G [kg]
832 200	**2,00**	420,0

Sheet pile elements

Art. No.	l [m]	l_M [m]	h [m]	t_{pl} [m]	l_c [m]	G / VP [kg]
842 650	**3,64**	3,88	1,00	0,20	3,64	840,0
842 650	**3,89**	4,13	1,00	0,20	3,89	895,0

Base panel (Height 2,32 m)

Art. No.	l [m]	l_M [m]	t_{pl} [m]	l_c [m]	G / VP [kg]	A [m²]
821 610	**3,64**	3,88	0,11	3,64	845,0	8,44
821 850	**3,89**	4,13	0,11	3,89	968,0	9,02

Top panel (Height 1,32 m)

Art. No.	l [m]	l_M [m]	t_{pl} [m]	l_c [m]	G / VP [kg]	A [m²]
822 620	**3,64**	3,88	0,11	3,64	620,0	4,80
822 760	**3,89**	4,13	0,11	3,89	649,0	5,13

Top panel (Height 2,30 m)

Art. No.	l [m]	l_M [m]	t_{pl} [m]	l_c [m]	G / VP [kg]	A [m²]
822 680	**3,64**	3,88	0,11	3,64	852,0	8,37
822 780	**3,89**	4,13	0,11	3,89	980,0	8,95

Construction with beams

Art. No.	Short description	l [m]	l_M [m]	G [kg]
842 705	Waling for DKU piling frame, module length 3.88 m (single slide rail, e+s)	**3,64**	3,88	402,0
842 710	Waling for DKU piling frame, module length 4.13 m (single slide rail, e+s)	**3,89**	4,13	420,0

Extension bars

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

Trench widths

Length HEB	Inner width b_c	Trench width b
[m]	[m]	[m]
0,000	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

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

Accessories / Spares

Art. No.	Short description	l [m]	G [kg]	d [m]Standard
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	

Accessories / Spares (contd.)

Art. No.	Short description	l [m]	G [kg]	d [m]Standard
861 072	Pressure beam	3,60	335,0	
HE 0050 F	Spring cotter 6 mm		0,03	0,006DIN 11024
HE 0060F	Spring cotter 8 mm		0,1	0,008DIN 11024
862 200	Connector		5,5	
862 100	Pin (for connector)	0,110	1,0	0,035
IB 0470F	Screw M 24 x 80		0,4	DIN 933
IA 0150F	Nut M 24		0,1	DIN 934
834 015	Pressure plate for boogie car		12,4	
832 230	Pin for Pressure Plate Rectangular Boogie Car	0,150	1,4	0,035
832 245	Pin, Linear shoring (double slide rail)	0,300	3,2	0,04
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	
834 057	Pull adapter single slide rail		33,0	
410 520	Pin (for pull adapter EG)	0,170	3,9	0,05
861 075	Pressure beam (boxes, slide rail)	4,60	425,0	
IB 0614F	Screw M 36 x 80		1,0	DIN 933
IA 0210F	Nut M 36		0,4	DIN 934

l	Length	b_c	Inner width	A	Area
l_c	Pipe culvert length	h_c	Pipe culvert height	G	Weight
l_M	Module length	t_{pl}	Thickness	G / VP	Weight per shoring panel
b	Trench width	d	Diameter	G / Box	Weight per shoring box