

Linear-Boxes



The Linear box shoring system is a combination of slide-rail shoring and box shoring. The trench box is largely immune to subsidence and capable of adapting to a wide range of site conditions. Thanks to the vertically displaceable boogie car on the principle of the linear shoring system, the shoring is extremely versatile. Among other things, it enables stepless pipe culvert heights.

Like all E+S box systems, the linear box is transported and supplied in its fully assembled state so that only the extension bars have to be fitted to achieve the desired trench width. To increase the height, a top unit compatible with Medium and Magnum Shoring with struts can be used.

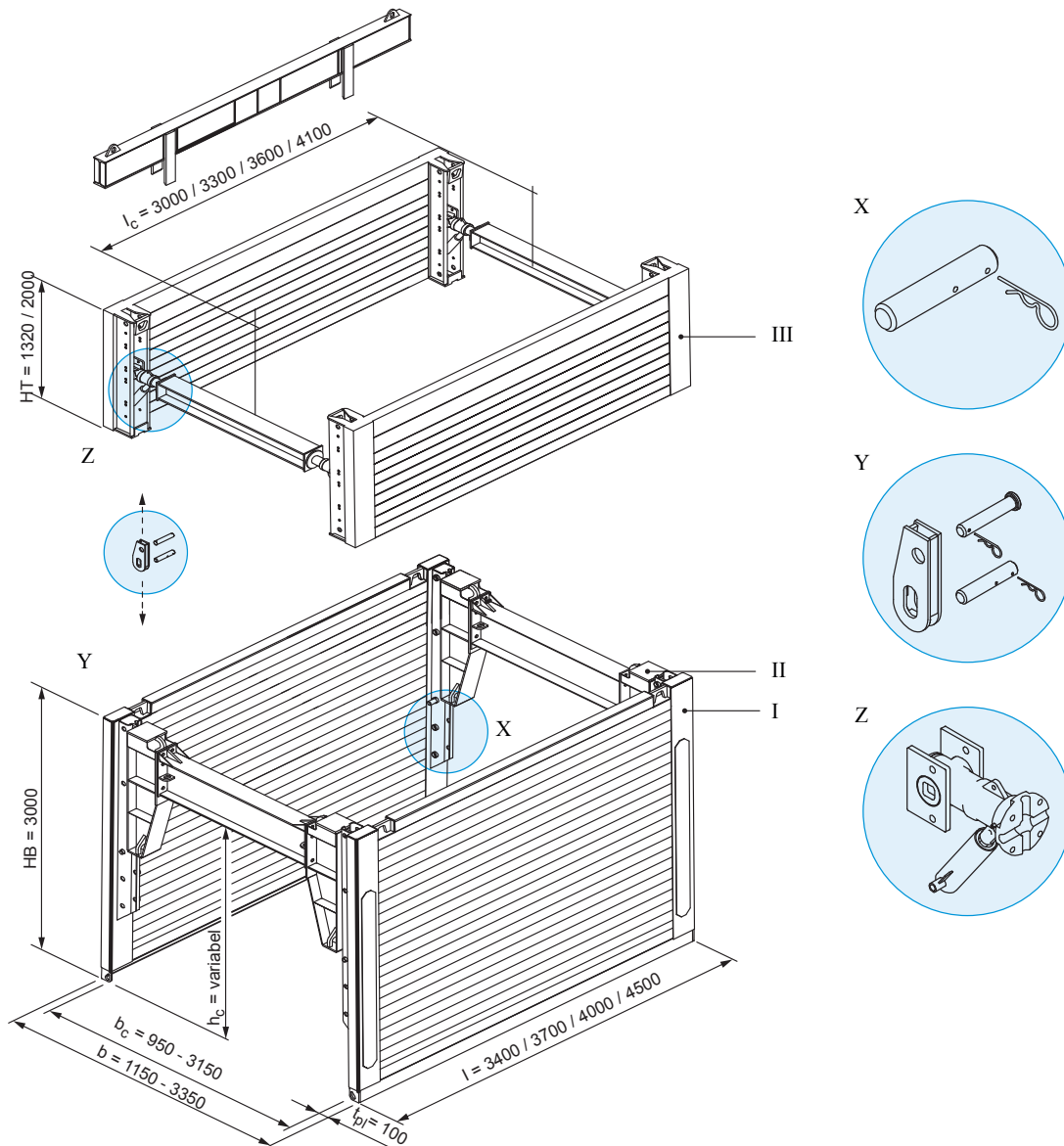
Basic data

Shoring length	3,40 m / 3,70 m / 4,00 m / 4,50 m
Height base unit	3,00 m
Height top unit	1,32 m / 2,00 m
Pipe culvert height	variable
Weight	2050 kg - 2940 kg
Trench width	variable, see page 67

Advantages

- Stepless adjustability of the pipe culvert height
- Top panel compatible with Medium- and Magnum-class shorings
- High flexibility due to the vertically displaceable boogie car

Linear box base module with medium top box



(All dimensions in mm)

I	Base unit with boogie car	l	Length	t_{pl}	Thickness
II	Linear-Box boogie car (base unit)	l_c	Pipe culvert length	X	Pin
III	Top unit with struts	b	Shoring / trench width	Y	Connector
HB	Height base unit	b_c	Inner width	Z	Spreader with bearing plate and shock absorber
HT	Height top unit	h_c	Pipe culvert height		

Boogie car

Art. No.	Short description	l [m]	G [kg]
832 226	Linear box boogie car (base unit)	1,38	200,0

Base units with boogie car

Art. No.	l [m]	h [m]	t _{pl} [m]	h _c [m]	l _c [m]	G / VP [kg]	G / Box [kg]	A [m ²]	eh [kN/m ²]
802 328	3,40	3,00	0,10	variable	3,00	1.025,0	2.050,0	10,20	48,2
802 321	3,70	3,00	0,10	variable	3,30	1.089,0	2.178,0	11,10	40,9
802 323	4,00	3,00	0,10	variable	3,60	1.255,0	2.510,0	12,00	35,2
802 325	4,50	3,00	0,10	variable	4,10	1.470,0	2.940,0	13,50	27,4

Top units with struts

Art. No.	l [m]	h [m]	t _{pl} [m]	h _c [m]	l _c [m]	G / VP [kg]	G / Box [kg]	A [m ²]	eh [kN/m ²]
800 700	3,40	1,32	0,10	-	2,95	658,0	1.316,0	4,49	50,5
802 700	3,40	2,00	0,10	-	2,95	930,0	1.860,0	6,80	50,5
800 800	3,70	1,32	0,10	-	3,25	692,0	1.384,0	4,88	42,1
802 750	3,70	2,00	0,10	-	3,25	990,0	1.980,0	7,40	42,1
800 900	4,00	1,32	0,10	-	3,55	775,0	1.550,0	5,28	43,8
800 950	4,50	1,32	0,10	-	4,05	820,0	1.640,0	5,94	34,2

Trench widths

l _{zwSt} [m]	b _c [m]	b [m]
0,000	0,950	1,150
0,275	1,225	1,425
0,550	1,500	1,700
1,100	2,050	2,250
1,650	2,600	2,800
2,200	3,150	3,350

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

l	Length	b _c	Inner width	G	Weight
l _c	Pipe culvert length	h _c	Pipe culvert height	G / VP	Weight per shoring panel
l _{zwSt.}	Total extension bar length	t _{pl}	Thickness	G / Box	Weight per shoring box
b	Shoring / trench width	A	Area	eh	Earth pressure max.

Accessories/Spares see page 75