

E+S Trench shoring systems / Endsupported compact shoring systems

Sheet pile element

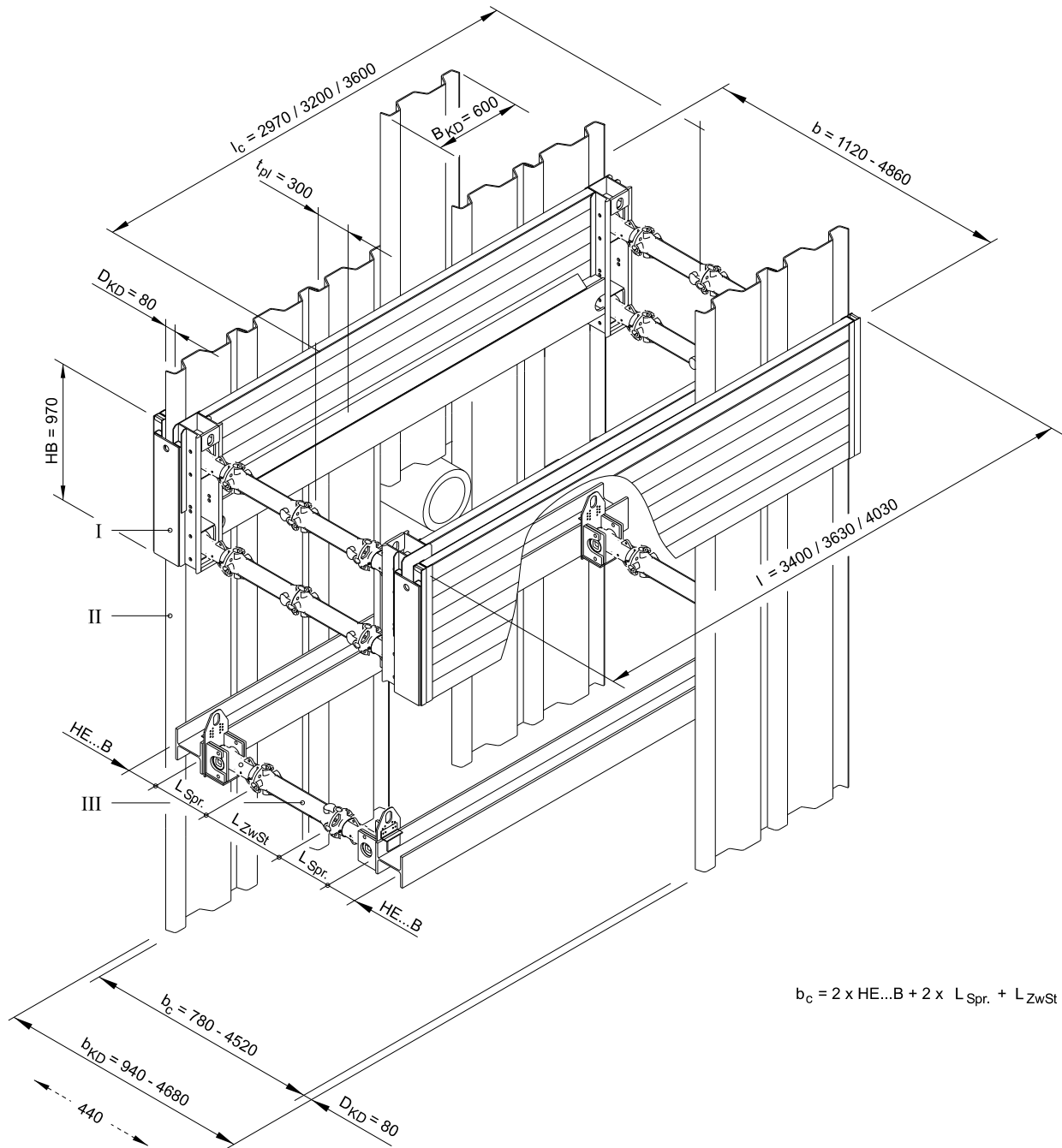


 Sheet pile element

Shoring length	3,40 m / 3,63 m / 4,03 m
Height sheet pile element	0,97 m
Shoring depth	variable

The piling frame element serves as an installation and waling element for sheet piles. It is used particularly in trenches crossed by large numbers of pipes and cables where large-area shoring would be inappropriate. The supplementary expertises, which may be required in such applications must be carried out on site in accordance with the structural calculations. A variety of basic system lengths are available to adapt to the pile shape and width.

Sheet pile element



I	Sheet pile element	l_c	Pipe culvert length
II	Sheet pile	b	Shoring width
III	Extension bar	b_c	Inner width
HB	Height base unit	b_{KD}	Shoring width -outside- / sheet pile
L_{Spr}	Length strut	h_c	Pipe culvert height
L_{ZwSt}	Length extension bar	t_{pl}	Thickness
B_{KD}	Width sheet pile	D_{KD}	Thickness sheet pile
I	Length		

Sheet pile element

(All dimensions in mm)

Sheet pile element

Sheet pile elements KN 80

Art. No.	Short description	l [m]	h [m]	l _c [m]	G / VP [kg]	G / Box [kg]	A [m ²]
842 520	Sheet pile element KN 80	3,40	0,97	2,97	942,0	1.884,0	3,30
842 560	Sheet pile element KN 80	3,63	0,97	3,20	989,0	1.978,0	3,52
842 600	Sheet pile element KN 80	4,03	0,97	3,60	1.081,5	2.163,0	3,91

Extension bars

Art. No.	Short description	l [m]	G [kg]
850 091	Extension bar GGG 40	0,250	11,2
850 100	Extension bar GGG 40	0,550	18,7
850 112	Extension bar HEB 180	0,275	28,0
850 110	Extension bar HEB 180	0,550	43,0
850 124	Extension bar HEB 180	1,100	70,0
850 132	Extension bar HEB 180	1,650	100,0
850 135	Extension bar HEB 180	2,200	130,0
850 105	Extension bar HEB 220	0,275	40,0
850 115	Extension bar HEB 220	0,550	58,0
850 121	Extension bar HEB 220	1,100	98,0
850 130	Extension bar HEB 220	1,650	140,0
850 141	Extension bar HEB 220	2,200	180,0

Trench widths (for extension bars l = 0,55 m)

Number of extension bars n	Length extension bar [m]	VI / KD [m]	VI / DK [m]	VA / KD [m]	VA / DK [m]
0	0,00	0,78 - 1,22	0,48 - 0,92	0,94 - 1,38	1,12 - 1,56
1	0,55	1,33 - 1,77	1,03 - 1,47	1,49 - 1,93	1,67 - 2,11
2	1,10	1,88 - 2,32	1,58 - 2,02	2,04 - 2,48	2,22 - 2,66
3	1,65	2,43 - 2,87	2,13 - 2,57	2,59 - 3,03	2,77 - 3,21
4	2,20	2,98 - 3,42	2,68 - 3,12	3,14 - 3,58	3,32 - 3,76
5	2,75	3,53 - 3,97	3,23 - 3,67	3,69 - 4,13	3,87 - 4,31
max. 6	3,30	4,08 - 4,52	3,78 - 4,22	4,24 - 4,68	4,42 - 4,86

VI / KD Shoring width -inside- / sheet pile
VA / KDV Shoring width -outside- / sheet pile

VI / DK Shoring width -inside- / sheet pile element
VA / DK Shoring width -outside- / sheet pile element

l	Length	d	Diameter
l _c	Pipe culvert length	A	Area
b	Trench width	G	Weight
b _c	Inner width	G / VP	Weight per shoring panel
h _c	Pipe culvert height	G / Box	Weight per shoring box
t _{pl}	Thickness	eh	Earth pressure max.