

# Piling frame element BLU



Just like the large DKU piling frame element, the smaller BLU variant is a low-deformation, universal and cost-effective trench shoring method particularly suitable for inner-city applications with pipes and cables crossing the trench. The piling frame element that serves as the upper guide for the piles introduced vertically into the ground is ideal for the laying of gas and water pipes and other service lines. In the dig-and-push process, the digger pushes the piles into the ground immediately after excavation, causing little vibration.

The assembly and prior adjustment of the piling frame element are similar to that of edge-supported shoring systems. The support brackets can be used in two different ways. For use in the trench, the support brackets are attached to the top of the element. If used outside the trench, the brackets are attached to the bottom of the element. KRINGS spindle systems are used as supporting elements.

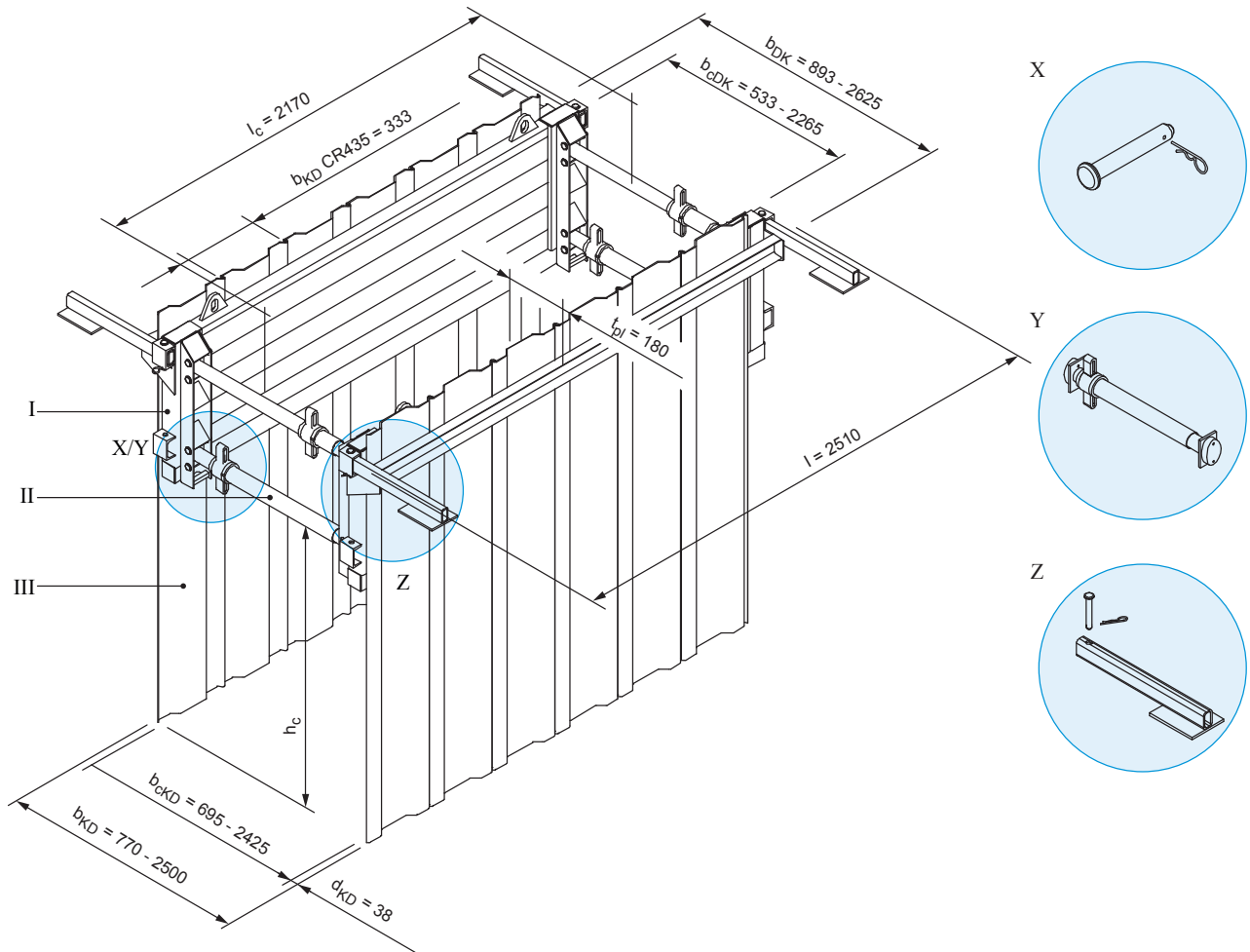
## Basic data

Shoring length	2,51 m
Height sheet pile element	0,72 m
Pipe culvert length	2,17 m
Application depth	up to 2,40 m
Trench width	variable, see page 96

## Advantages

- Small version for urban centers where transverse installation lines are frequent
- Support brackets can be used in two versions

Piling frame element BLU with KRINGS system spreaders KVL



(All dimensions in mm)

I	Universal DKU piling frame element	$d_{KD}$	Sheet pile thickness	$b_{KD}$	Sheet pile shoring width
II	Sheet pile	$t_{pl}$	Thickness	$b_{cDK}$	Piling frame clear width
III	Waling strut	$l$	Length	$b_{DK}$	Piling frame shoring width
IV	Adapter for DKU E+S spreader	$l_c$	Pipe culvert length	X	Pin
HB	Height base unit	$h_c$	Pipe culvert height	Y	KVL spindle
$B_{KD}$	Sheet pile width	$b_{cKD}$	Sheet pile clear width	Z	Bearing claw

**Piling frame element BLU with KRINGS system spreaders KVL**

Art. No.	Short description	l [m]	l <sub>c</sub> [m]	G / VP [kg]	G / Box [kg]	KD / Box
842 703	Piling frame element BLU for sheet piles CR435	2,41	2,17	188,0	465,0*	12
843 701	Piling frame element BLU for sheet piles KD IV	2,41	2,17	188,0	465,0*	14

\* with spindle 70x650

**Extension bars**

Art. No.	Short description	l [m]	G [kg]
118 060	Spindle - 70x650 (rubber pad round)	0,523 - 0,617	12,2
118 070	Spindle - 70x740 (rubber pad round)	0,613 - 0,797	13,4
118 090	Spindle - 70x920 (rubber pad round)	0,799 - 1,161	15,8
118 020	Spindle - 70x1280 (rubber pad round)	1,153 - 1,878	20,5
118 100	Spindle - 70x1470 (rubber pad round)	1,339 - 2,254	24,0

**Trench widths**

Art. No.	Short description	Stroke [m]	b <sub>cKD</sub> [m]	b <sub>cDK</sub> [m]
118 060	Spindle - 70x650 (rubber pad round)	0,094	0,693 - 0,787	0,533 - 0,627
118 070	Spindle - 70x740 (rubber pad round)	0,184	0,783 - 0,967	0,623 - 0,807
118 090	Spindle - 70x920 (rubber pad round)	0,362	0,969 - 1,331	0,809 - 1,171
118 020	Spindle - 70x1280 (rubber pad round)	0,725	1,323 - 2,048	1,163 - 1,888
118 100	Spindle - 70x1470 (rubber pad round)	0,915	1,500 - 2,415	1,349 - 2,264

**Trench widths for CR435 piles**

$b_{KD} = b_{cKD} + 0,076 \text{ m}$   
 $b_{DK} = b_{cDK} + 0,36 \text{ m}$

**Trench widths for KD IV piles**

$b_{KD} = b_{cKD} + 0,096 \text{ m}$   
 $b_{DK} = b_{cDK} + 0,38 \text{ m}$

l	Length	b <sub>cKD</sub>	Sheet pile clear width	KD / Box	Number of piles / box
l <sub>c</sub>	Pipe culvert length	b <sub>KD</sub>	Sheet pile shoring width	A	Area
l <sub>spr.</sub>	Spreader length	b <sub>cDK</sub>	Piling frame clear width	G / VP	Weight per shoring panel
l <sub>zwSt</sub>	Length extension bar	b <sub>DK</sub>	Piling frame shoring width	G / Box	Weight per shoring box

**Accessories / Spares**

Art. No.	Short description	l [m]	d [m]	G [kg]
138 030	Pin 125 x 20	0,125	0,020	0,4
138 200	Spring cotter 92 x 5	0,092	0,005	0,1
842 702	Support bracket for BLU piling frame element	0,600		9,00

l	Length	d	Diameter	G	Weight
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**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
850 699	Adjustment bar	0,7	0,024	2,5
139 070	Chain sling connection, 4-leg, 2300 x 13	2,30		45,0
139 080	Chain sling connection, 4-leg, 2800 x 13	2,80		57,0
139 100	Connection stanchion 290 x 145			5,5
842 099	DKU piling frame guide frame	2,27		105,0
842 100	DKU piling frame guide frame	3,81		175,0

**Accessories / Spares (contd.)**

Art. No.	Short description	l [m]	d [m]	G [kg]
859 982	Drop-in bearing block, adjustable, Krings			12,0
859 981	Drop-in bearing block, Emunds+Staudinger			26,0
110 070	Fixing for pressure spring 100 x 85	0,100	0,085	0,8
119 011	KVL adapter for spindles 98x530 / 98x700			7,6
138 170	Mushroom FP 80			13,0
IA 0120 F	Nut M 16			0,03
IA 0130 F	Nut M 20			0,03
138 030	Pin 125 x 20	0,125	0,020	0,4
138 040	Pin 140 x 20	0,140	0,020	0,4
138 070	Pin 212 x 43	0,212	0,043	2,5
861 077	Pressure beam (Lightweight shoring, KS 60, KVL)	1,80		80,0
861 078	Pressure beam (Lightweight shoring, KS 60, KVL)	2,30		95,0
861 079	Pressure beam (Lightweight shoring, KS 60, KVL)	2,80		110,0
861 080	Pressure beam (Lightweight shoring, KS 60, KVL)	3,30		125,0
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
138 160	Pressure spring FP 80	0,084	0,054	0,8
100 690	Rubber parts GPU 30 x 40			0,1
IB 0310 F	Screw M 16 x 55			0,11
IB 0360 F	Screw M 20 x 45			0,17
138 200	Spring cotter 92 x 5	0,092	0,005	0,1
336 960	Support bracket for DKU piling frame element			40,0
821 100	Suspension chain KL-13-8	5,000		25,7

l	Length	d	Diameter	G	Weight
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