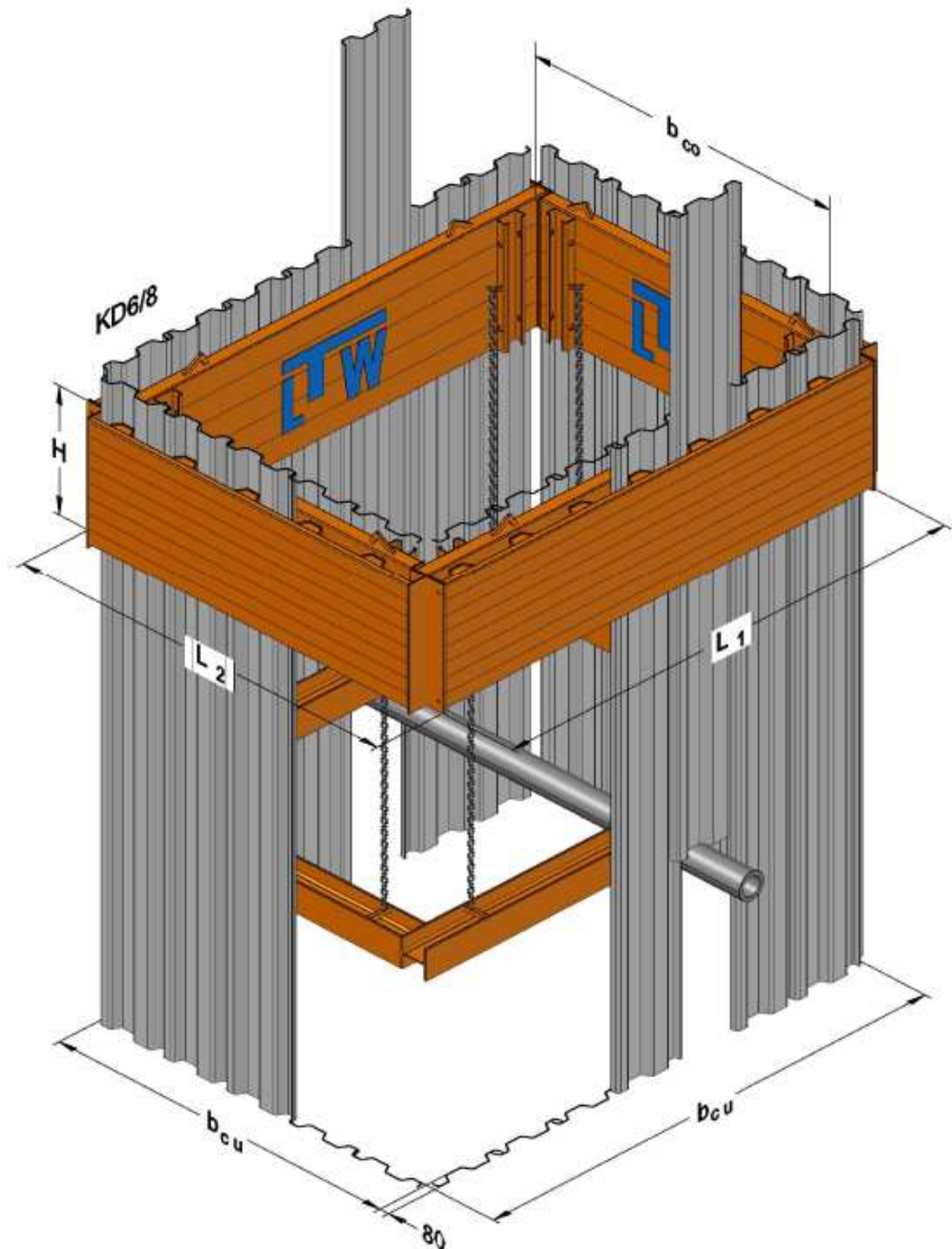


TECHNICAL CHARACTERISTICS

LTW Manhole Pile Guide Box



SYSTEM VIEW



- 1 DK – Long Side
- 2 DK – Front End

L Plate Lengths

b_{cu} working width between sheets
 b_{co} working width inside plates

TECHNICAL CHARACTERISTICS

LTW Manhole Pile Guide Box



DK – Long Side Plate $t_{\text{PI-inside}} = 120 \text{ mm}$ for trench sheets type KD 6/8

Plate-length L [m]	Plate-height H [m]	Interior width between plates b_{co} [m]	Interior width betw. sheets b_{cu} [m]	Exterior width b [m]	Number of trench sheets N per plate	Limit state design beam load q_d [kN / m]	Weight Plate G_{PL} [kg]
3,62	1,00	~3,39	~3,63	~3,93	6 * KD6	97,0	865
4,03	1,00	~3,80	~4,04	~4,35	7 * KD6	78,1	955
4,84	1,00	~4,61	~4,85	~5,16	8 * KD6	96,0	1.315
5,44	1,00	~5,21	~5,45	~5,76	9 * KD6	76,0	1.460
5,94	1,00	~5,71	~5,95	~6,26	10 * KD6	63,7	1.585

DK – Front End Plate $t_{\text{PI-inside}} = 120 \text{ mm}$ for trench sheets type KD 6/8

Plate-length L [m]	Plate-height H [m]	Interior width between plates b_{co} [m]	Interior width betw. sheets b_{cu} [m]	Exterior width b [m]	Number of trench sheets n per plate	Limit state design beam load q_d [kN / m]	Weight Plate G_{PL} [kg]
3,33	1,00	~2,76	~3,00	~3,31	5 * KD6	167,1	715
3,92	1,00	~3,35	~3,59	~3,90	6 * KD6	113,5	835
4,34	1,00	~3,77	~4,01	~4,32	7 * KD6	89,7	920

TENSILE FORCES

lifting eyes at the plate head $R_d = 229 \text{ kN}$

Trench sheets, steel quality S275JRC KD 6/8



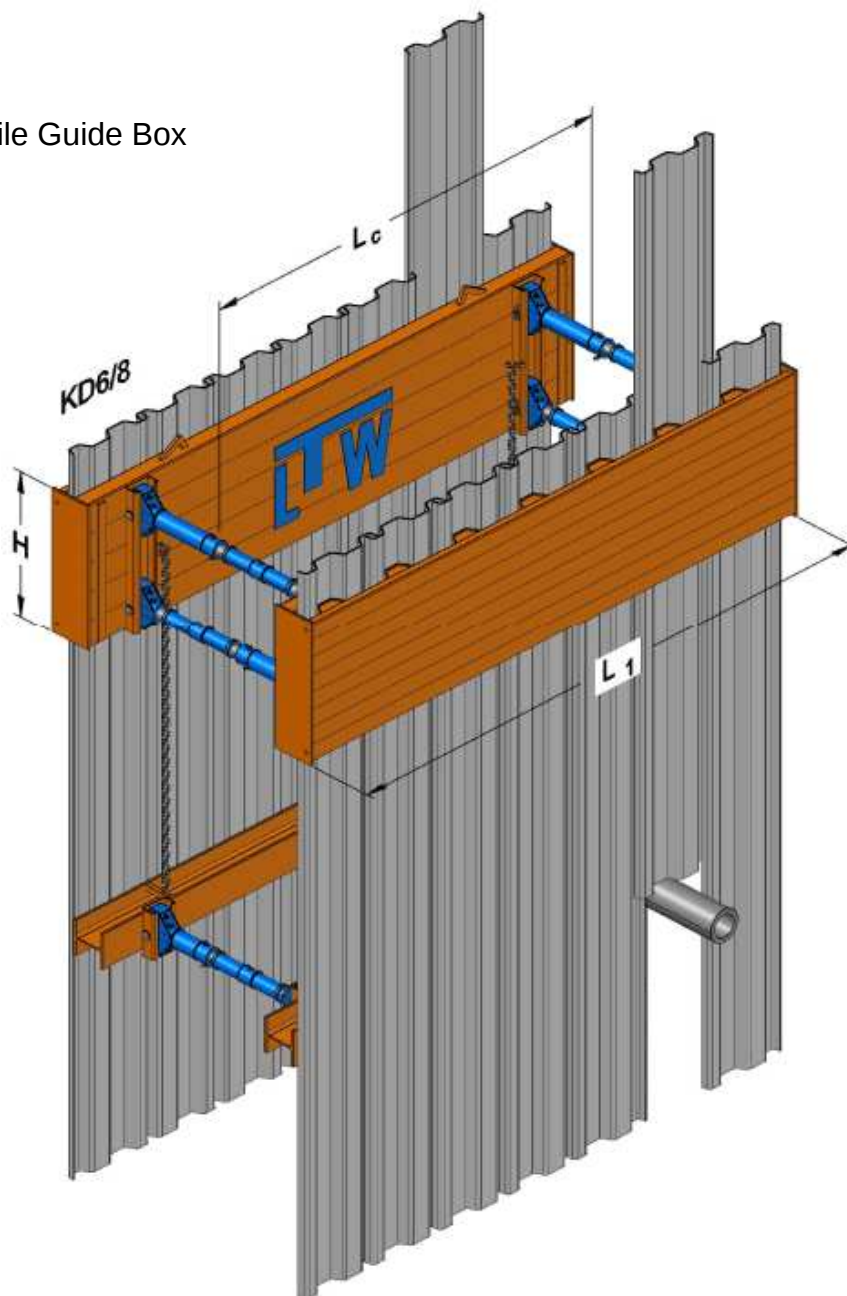
Type	Width b [mm]	Height h [mm]	Thickness t [mm]	Section Modulus W_y [cm ³ /m]	Moment of inertia I_y [cm ⁴ /m]	Bending Moment M_d [kNm/m]	Weight Single Pile [kg/m]	Weight Wall [kg/m ²]
KD 6/8	600	80	8	242	969	60,5	50,0	83,3

ACCESSORIES

Description	Dimension	Req. qty. per Manhole
Hexagon Screws	M20 * 50	8
Washers	A22	8

SYSTEM VIEW

Long Side Plates used as Pile Guide Box

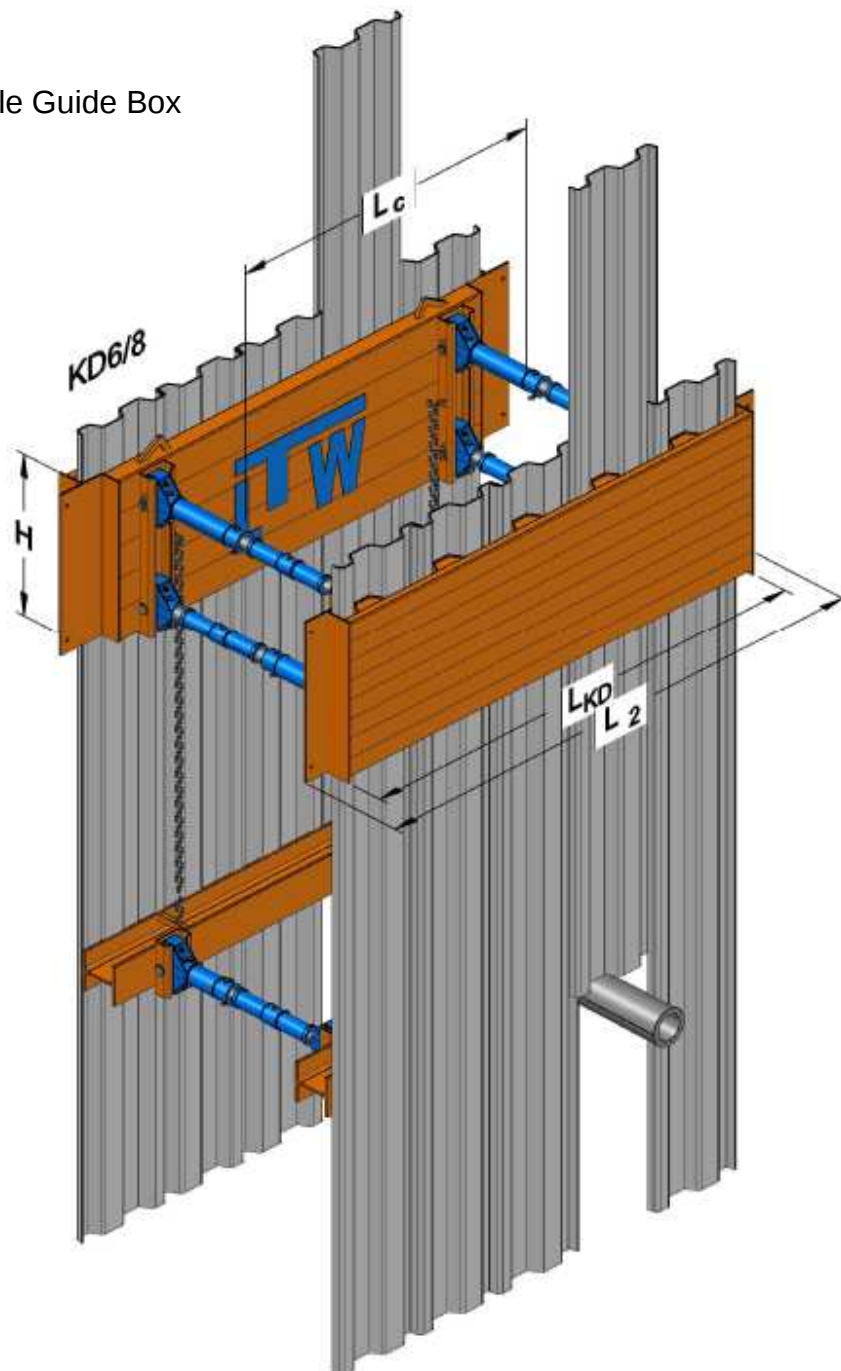


trench sheets type KD 6/8 $t_{PI\text{-inside}} = 120 \text{ mm}$

Plate length L [m]	Plate height H [m]	Pipe culvert length L_c [m]	Number of trench sheets n per plate	Limit state design beam load q_d [kN / m]	Plate weight G_{PL} [kg]	Box weight G_E [kg]
3,62	1,00	2,67	6 * KD6	97,0	865	2.020
4,03	1,00	3,08	7 * KD6	78,1	955	2.190
4,84	1,00	3,89	8 * KD6	96,0	1.315	2.910
5,44	1,00	4,49	9 * KD6	76,0	1.460	3.200
5,94	1,00	4,99	10 * KD6	63,7	1.585	3.450

SYSTEM VIEW

Front End Plates used as Pile Guide Box



trench sheets type KD 6/8 $t_{\text{Pl-inside}} = 120 \text{ mm}$

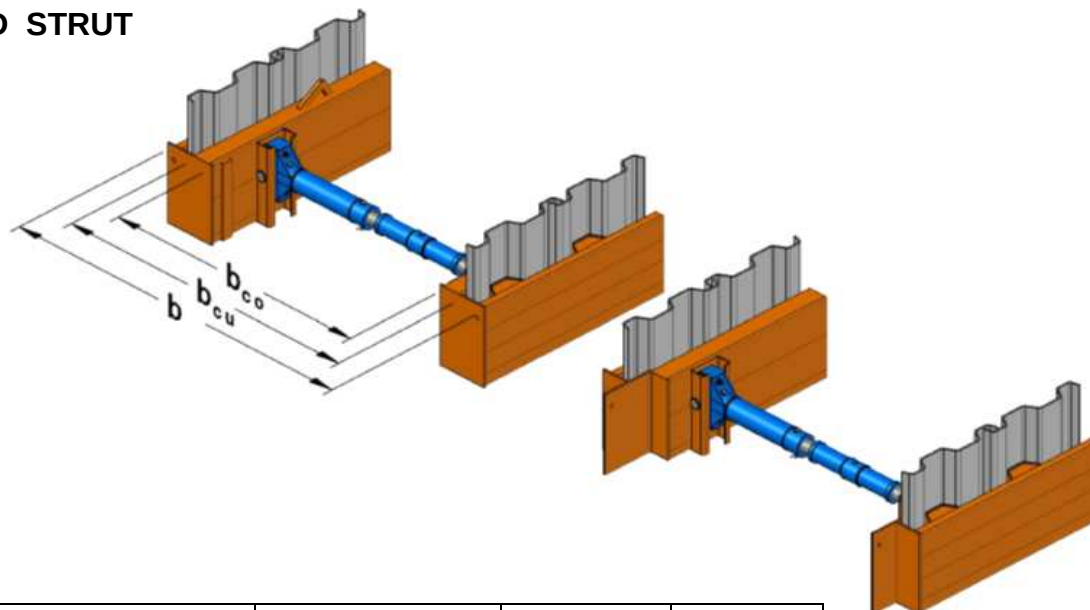
Plate length L [m]	Lengths of shoring with sheets L_{KD} [m]	Pipe culvert length L_C [m]	Number of trench sheets n per plate	Limit state design beam load q_d [kN / m]	Plate weight G_{PL} [kg]	Box weight G_E [kg]
3,33	~3,01	~2,10	5 * KD6	167,1	715	1.710
3,92	~3,60	~2,69	6 * KD6	113,5	835	1.950
4,34	~4,02	~3,11	7 * KD6	89,7	920	2.120

TECHNICAL CHARACTERISTICS

LTW Manhole Pile Guide Box

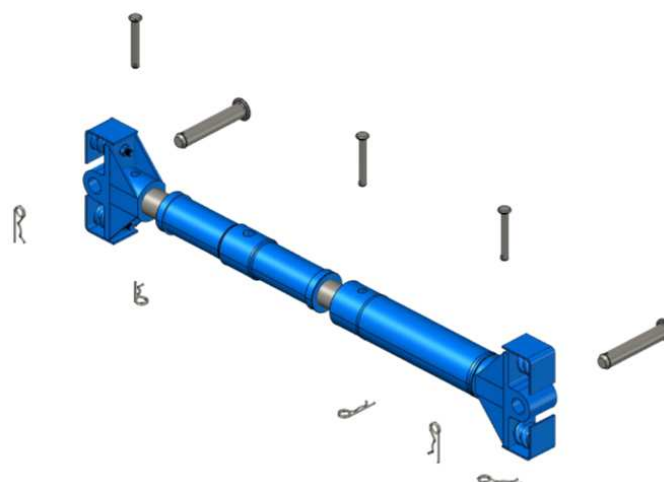


STANDARD STRUT



Brace Extension	inner working width between plates b_{co}	inner working width between sheets b_{cu}	shoring width KD 6/8 b	Weight G
[m]	[m]	[m]	[m]	[kg]
<i>without</i>	0,99 - 1,29	1,23 - 1,53	1,54 - 1,84	71,0
0,30	1,29 - 1,59	1,53 - 1,83	1,84 - 2,14	15,5
0,50	1,49 - 1,79	1,73 - 2,03	2,04 - 2,34	20,0
0,80	1,79 - 2,09	2,03 - 2,33	2,34 - 2,64	26,7
1,00	1,99 - 2,29	2,23 - 2,53	2,54 - 2,84	31,1
1,50	2,49 - 2,79	2,73 - 3,03	3,04 - 3,34	42,3
2,00	2,99 - 3,29	3,23 - 3,53	3,54 - 3,84	53,4
2,50	3,49 - 3,79	3,73 - 4,03	4,04 - 4,34	64,5

A strut unit consists of two spring mushrooms, the strut and, if required a brace extension.



Spring Mushroom
Standard Strut
Brace Extension

Bolt $\varnothing 20 \times 148$ mm with locking clip
Bolt $\varnothing 40 \times 226$ mm with locking clip