

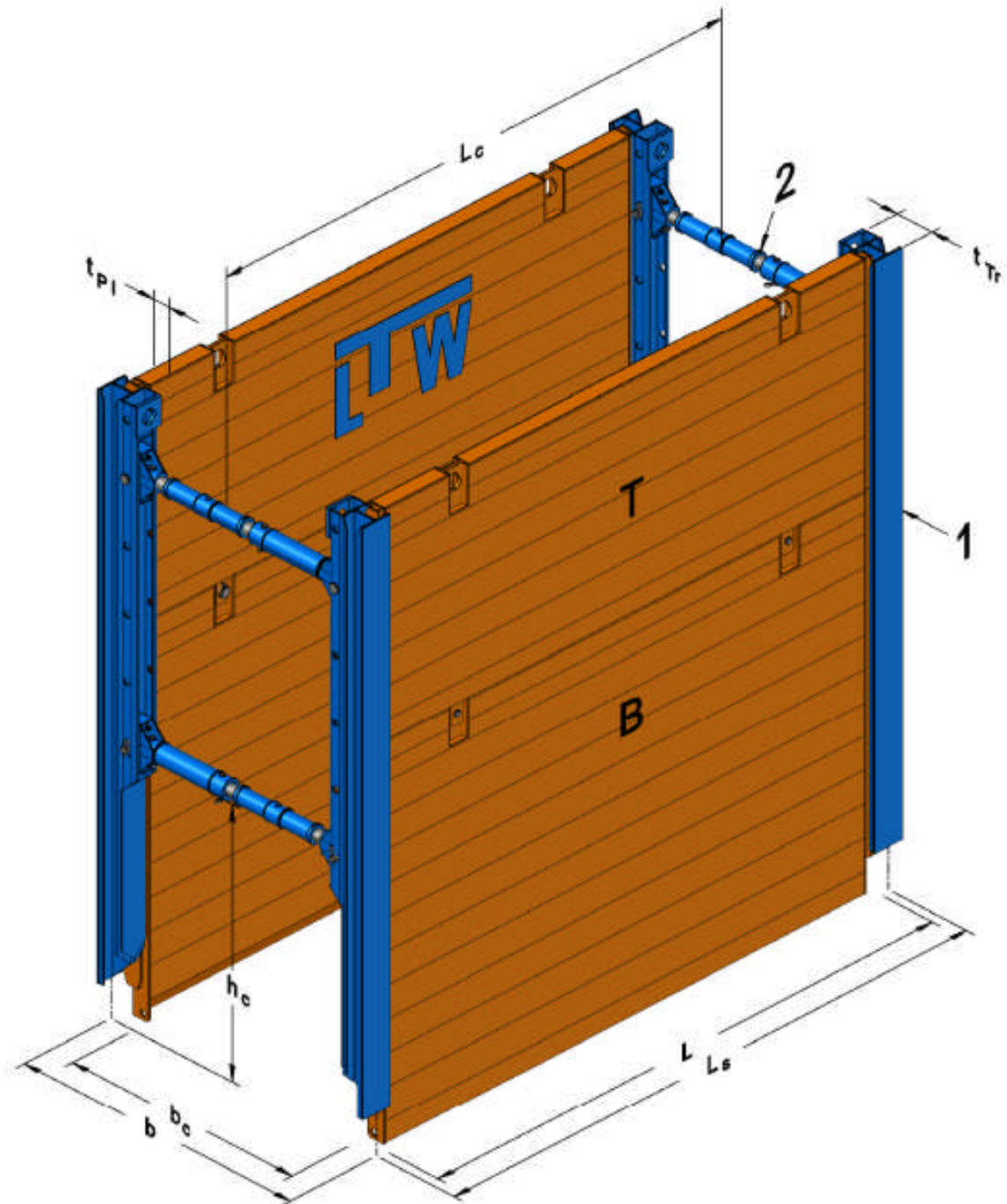
TECHNICAL CHARACTERISTICS

LTW SLIDE RAIL SYSTEM - Type FP



SYSTEM VIEW

Single Slide Rail System - Type EG FP



- 1 Single Slide Rail
- 2 Standard Strut
- B Base Plate
- T Top Plate

- b Shoring Width
- bc Inner Working Width
- tPl Plate Thickness
- tTr Rail Thickness

- hc Pipe Culvert Height
- L Plate Length
- Lc Pipe Culvert Length
- Ls System Length

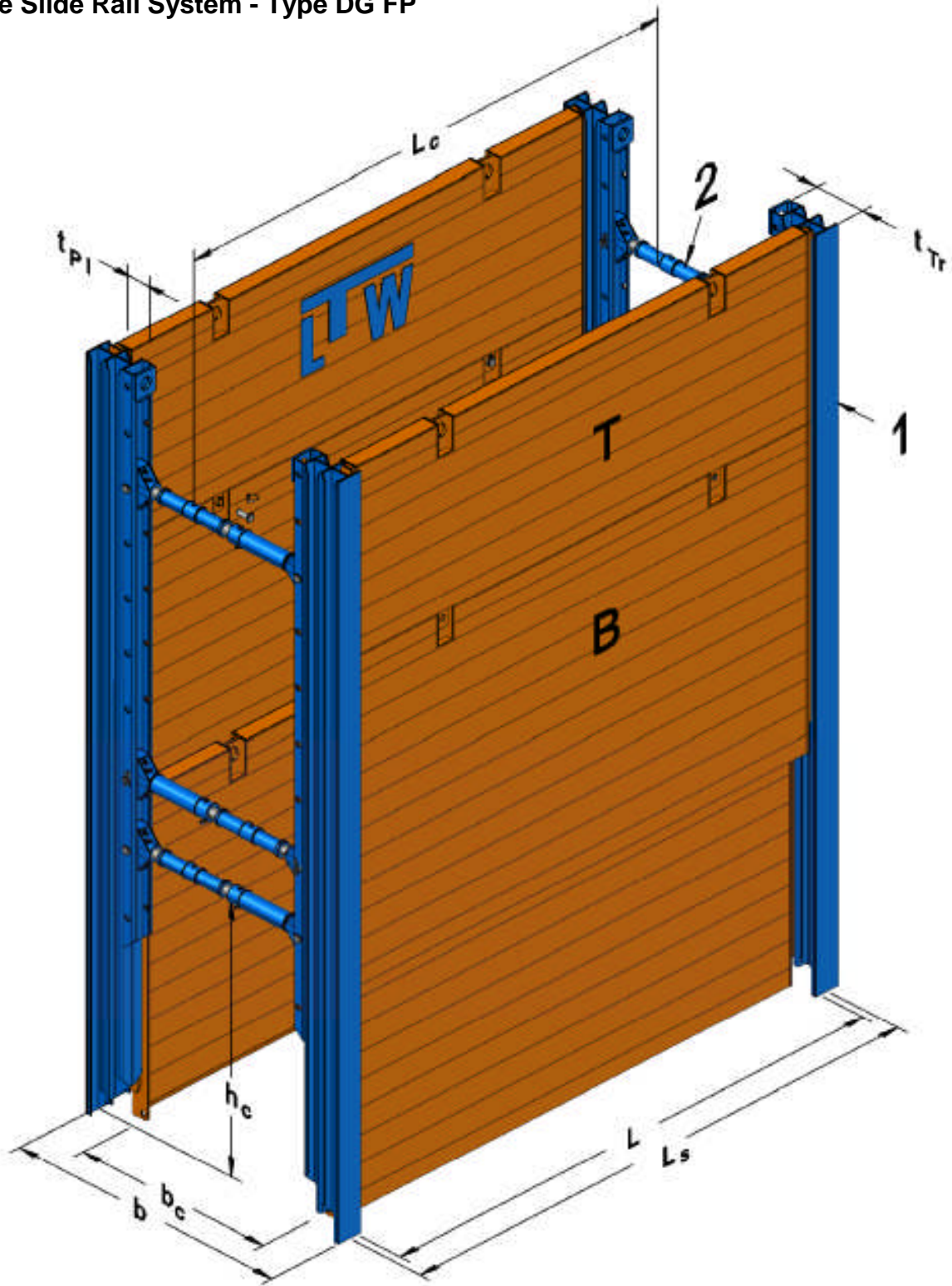
TECHNICAL CHARACTERISTICS

LTW SLIDE RAIL SYSTEM - Type FP



SYSTEM VIEW

Double Slide Rail System - Type DG FP



- 1 Double Slide Rail
- 2 Standard Strut
- B Base Plate
- T Top Plate

- b Shoring Width
- b_c Inner Working Width
- t_{PI} Plate Thickness
- t_{Tr} Rail Thickness

- h_c Pipe Culvert Height
- L Plate Length
- L_c Pipe Culvert Length
- L_s System Length

TECHNICAL CHARACTERISTICS

LTW SLIDE RAIL SYSTEM - Type FP



SLIDE RAIL SHORING PLATES

Off-the-shelf, the Slide Rail Plates are designed - **VSI** -; i.g. Rails and Plates are **flush inside** (for use with in-situ ducts). On demand the plates can also be supplied - **VSA** -; i.g. Rails and plates are **flush outside** (for inner city shoring, allowing a straight blacktop cut.)

PLATES VS 100

Plate length L [m]	Plate height H [m]	Plate thickness t _{PI} [mm]	Pipe culvert length L _C [m]	System length L _S [m]	Limit state design load e _d [kN/m ²]	Plate weight G _{PL} [kg]
2,00	2,40	100	2,03	2,15	171,6	510
	1,40					335
	1,60					370
2,50	2,40	100	2,53	2,65	110,4	605
	1,40					400
	1,60					440
3,00	2,40	100	2,95	3,07	81,1	690
	1,40					450
	1,60					500
3,50	2,40	100	3,53	3,65	56,6	805
	1,40					525
	1,60					580

PLATES VS 120

Plate length L [m]	Plate height H [m]	Plate thickness t _{PI} [mm]	Pipe culvert length L _C [m]	System length L _S [m]	Limit state design load e _d [kN/m ²]	Plate weight G _{PL} [kg]
4,00	2,40	120	4,03	4,15	71,0	1170
	1,40					745
	1,60					835
4,50	2,40	120	4,53	4,65	56,2	1305
	1,40					830
	1,60					930
5,00	2,40	120	5,03	5,15	72,1	1635
	1,40					1020
	1,60					1150

TECHNICAL CHARACTERISTICS

LTW SLIDE RAIL SYSTEM - Type FP

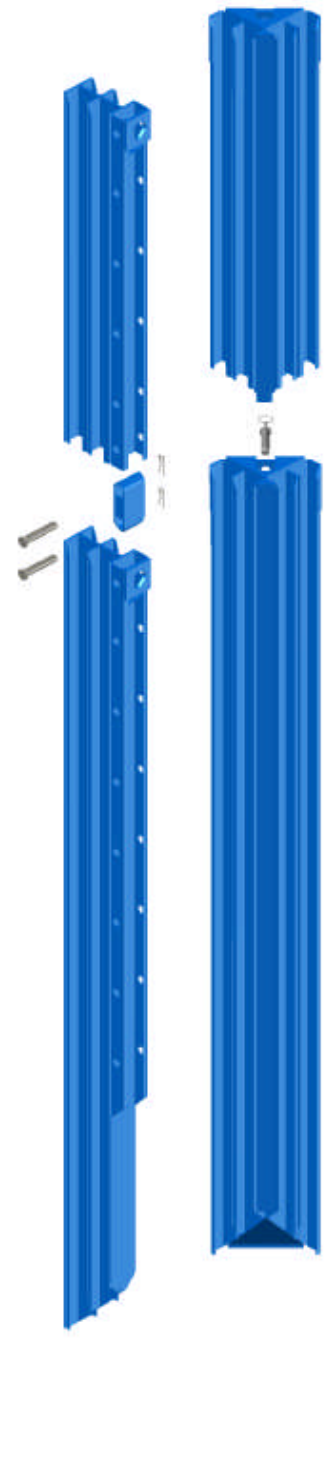


SINGLE SLIDE RAIL - Type EG FP

Description	Rail length [m]	Rail thickness t_{Tr} [mm]	Limit state design moment M_d [kNm]	Weight G_{Tr} [kg]
<i>EG FP</i>	3,00	252	156	180
<i>EG FP</i>	3,50			215
<i>EG FP</i>	4,00			245
<i>Corner - EG</i>	3,00	183	113	165
<i>Corner - EG</i>	3,50			195
<i>Corner - EG</i>	4,00			220

DOUBLE SLIDE RAIL - Type DG FP

Description	Rail length [m]	Rail thickness t_{Tr} [mm]	Limit state design moment M_d [kNm]	Weight G_{Tr} [kg]
<i>DG FP</i>	4,50	402	328	415
<i>DG FP</i>	5,00			460
<i>DG FP</i>	5,50			510
<i>DG FP - A</i>	2,00			200
<i>Corner - DG</i>	4,50	273	324	475
<i>Corner - DG</i>	5,00			530
<i>Corner - DG</i>	5,50			580
<i>Corner Top DG</i>	2,00			235

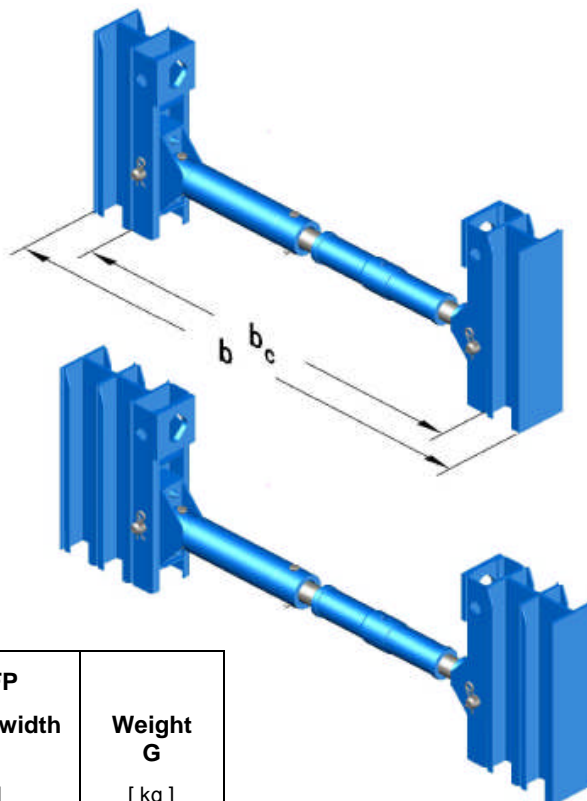


TECHNICAL CHARACTERISTICS

LTW SLIDE RAIL SYSTEM - Type FP



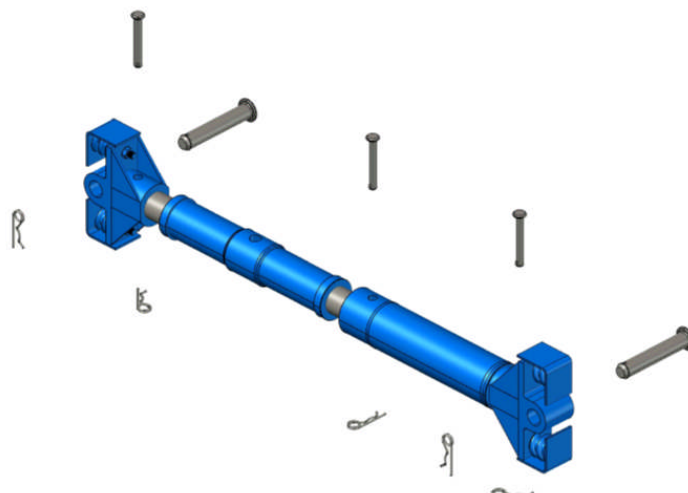
STANDARD STRUT



Shoring Width

Brace Extension [m]	EG & DG FP Working width b_c [m]	EG FP Shoring width b [m]	DG FP Shoring width b [m]	Weight G [kg]
<i>ohne</i>	0,99 - 1,29	1,31 - 1,61	1,61 - 1,91	71,0
0,30	1,29 - 1,59	1,61 - 1,91	1,91 - 2,21	15,5
0,50	1,49 - 1,79	1,81 - 2,11	2,11 - 2,41	20,0
0,80	1,79 - 2,09	2,11 - 2,41	2,41 - 2,71	26,7
1,00	1,99 - 2,29	2,31 - 2,61	2,61 - 2,91	31,1
1,50	2,49 - 2,79	2,81 - 3,11	3,11 - 3,41	42,3
2,00	2,99 - 3,29	3,31 - 3,61	3,61 - 3,91	53,4
2,50	3,49 - 3,79	3,81 - 4,11	4,11 - 4,41	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 $\varnothing 20 \times 148$ with locking clip
bolt $\varnothing 40 \times 226$ with locking clip

TECHNICAL CHARACTERISTICS

LTW SLIDE RAIL SYSTEM - Type FP



ACCESSORIES

Description	Dimension	specified use for	Weight [kg]
<i>bolt</i>	$\varnothing 20 * 148$	<i>spindle and brace extension</i>	0,4
<i>bolt</i>	$\varnothing 40 * 226$	<i>fixing the spring mushroom into C-Profile</i>	2,3
<i>locking clip</i>	$\varnothing 5$	<i>to secure Bolts $\varnothing 20 * 148$ and $\varnothing 40 * 226$</i>	0,1
<i>bolt</i>	$\varnothing 40 * 128$	<i>connection Base and Extension Plates</i>	1,4
<i>bolt</i>	$\varnothing 40 * 198$	<i>connection of Base and Ext. Corner Rails</i>	2,2
<i>locking clip [R]</i>	$\varnothing 6$	<i>locking clip for connecting bolt $\varnothing 40 * 128$ and $\varnothing 40 * 198$</i>	0,1
<i>connector</i>		<i>connection between Base and Ext. DG-FP</i>	6,8
<i>Rail protector</i>		<i>protection of Rail-Top EG-FP</i>	23
<i>Rail Protector</i>		<i>protection of Rail-Top DG-FP</i>	31
<i>protection rail</i>	$L = 1800$	<i>for Plate length 2,00m</i>	151
<i>protection rail</i>	$L = 2300$	<i>for Plate length 2,50m</i>	188
<i>protection rail</i>	$L = 2500$	<i>for Plate length 3,00m</i>	203
<i>protection rail</i>	$L = 3300$	<i>for Plate length 3,50m</i>	264
<i>protection rail</i>	$L = 3800$	<i>for Plate length 4,00m</i>	304
<i>protection rail</i>	$L = 4300$	<i>for Plate length 4,50m</i>	341
<i>protection rail</i>	$L = 4800$	<i>for Plate length 5,00m</i>	378

TENSILE FORCES

lifting eyes at the rail head

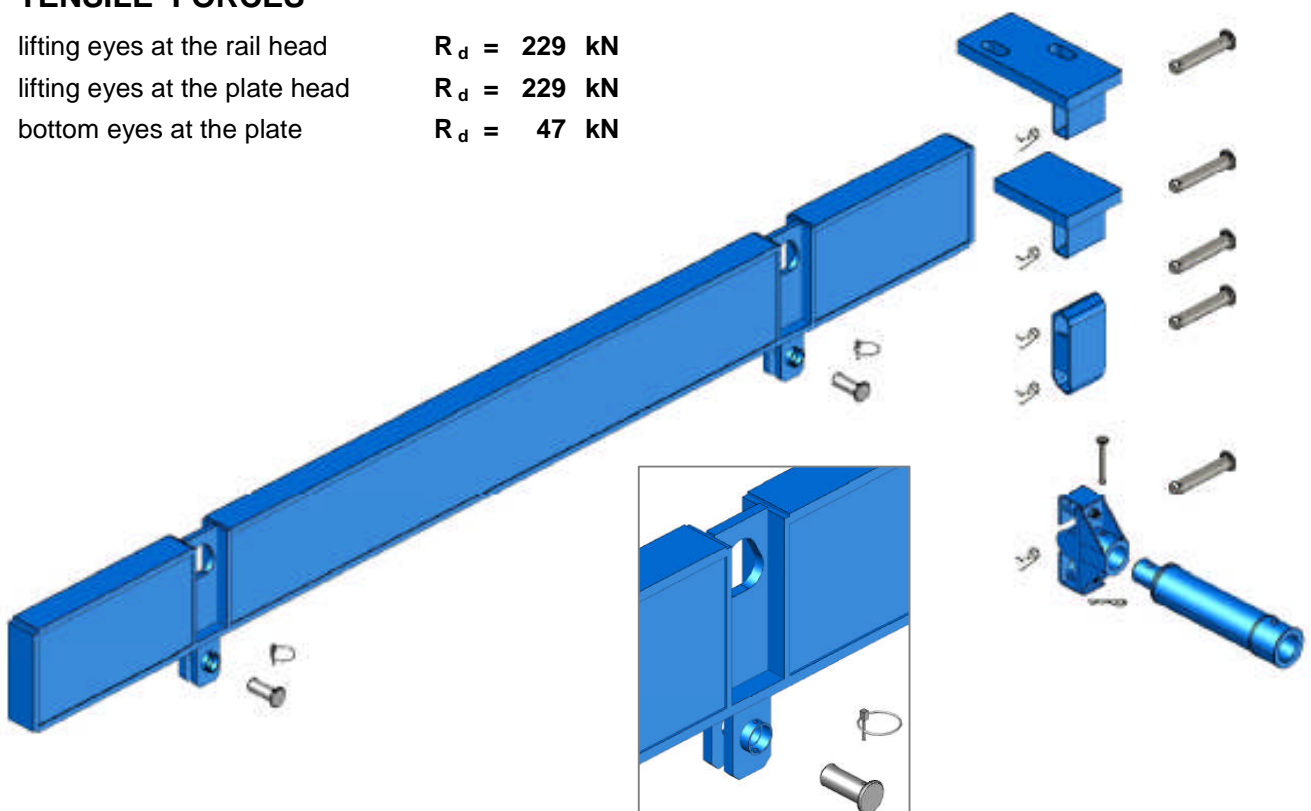
$R_d = 229 \text{ kN}$

lifting eyes at the plate head

$R_d = 229 \text{ kN}$

bottom eyes at the plate

$R_d = 47 \text{ kN}$



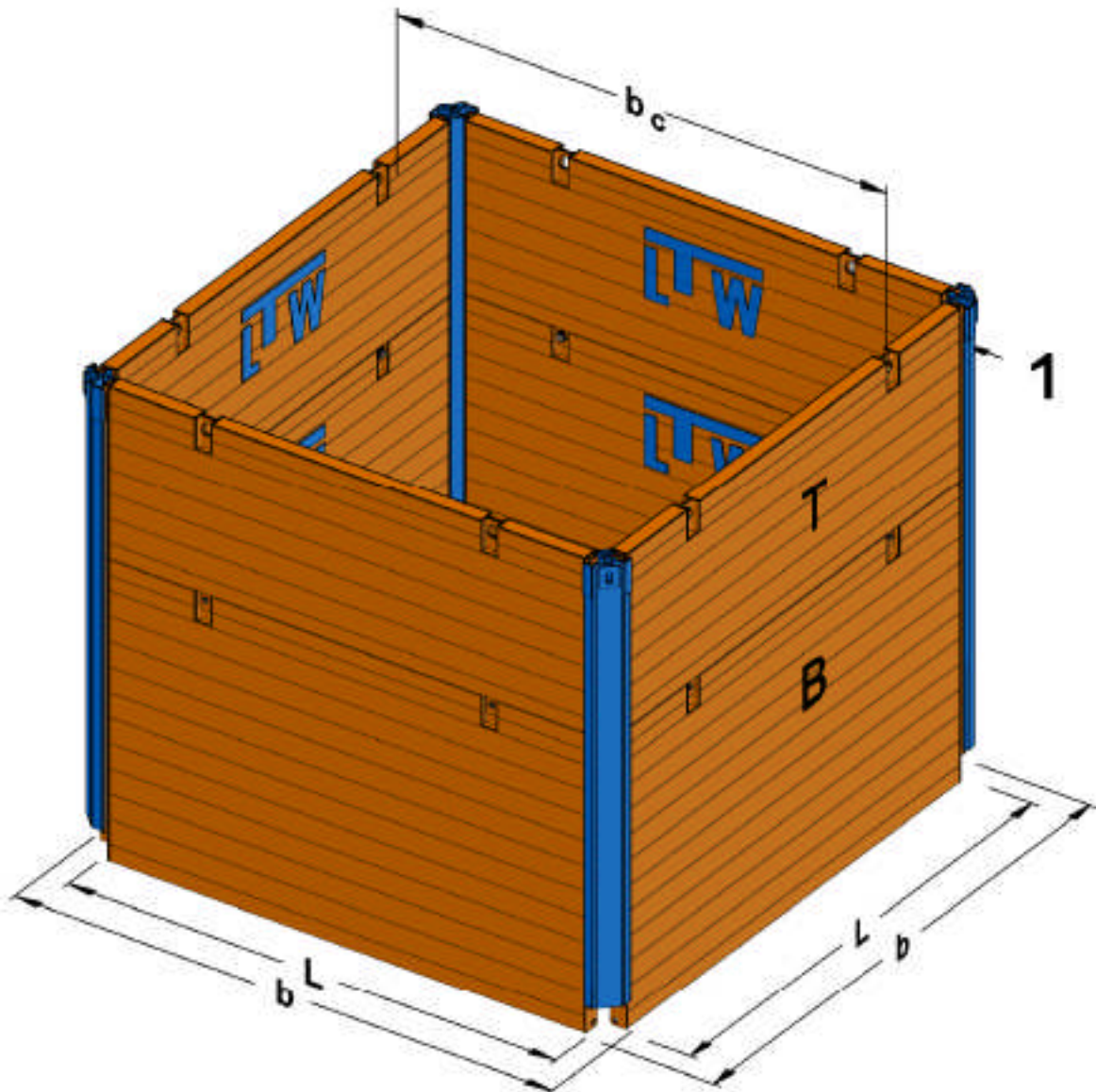
TECHNICAL CHARACTERISTICS

LTW SLIDE RAIL SYSTEM - Type FP



PITS

Corner Single Slide Rails



1 Corner Slide Rail EG
B Base Plate

T Top Plate
b Shoring Width

b_c Inner Working Width
L Plate Length

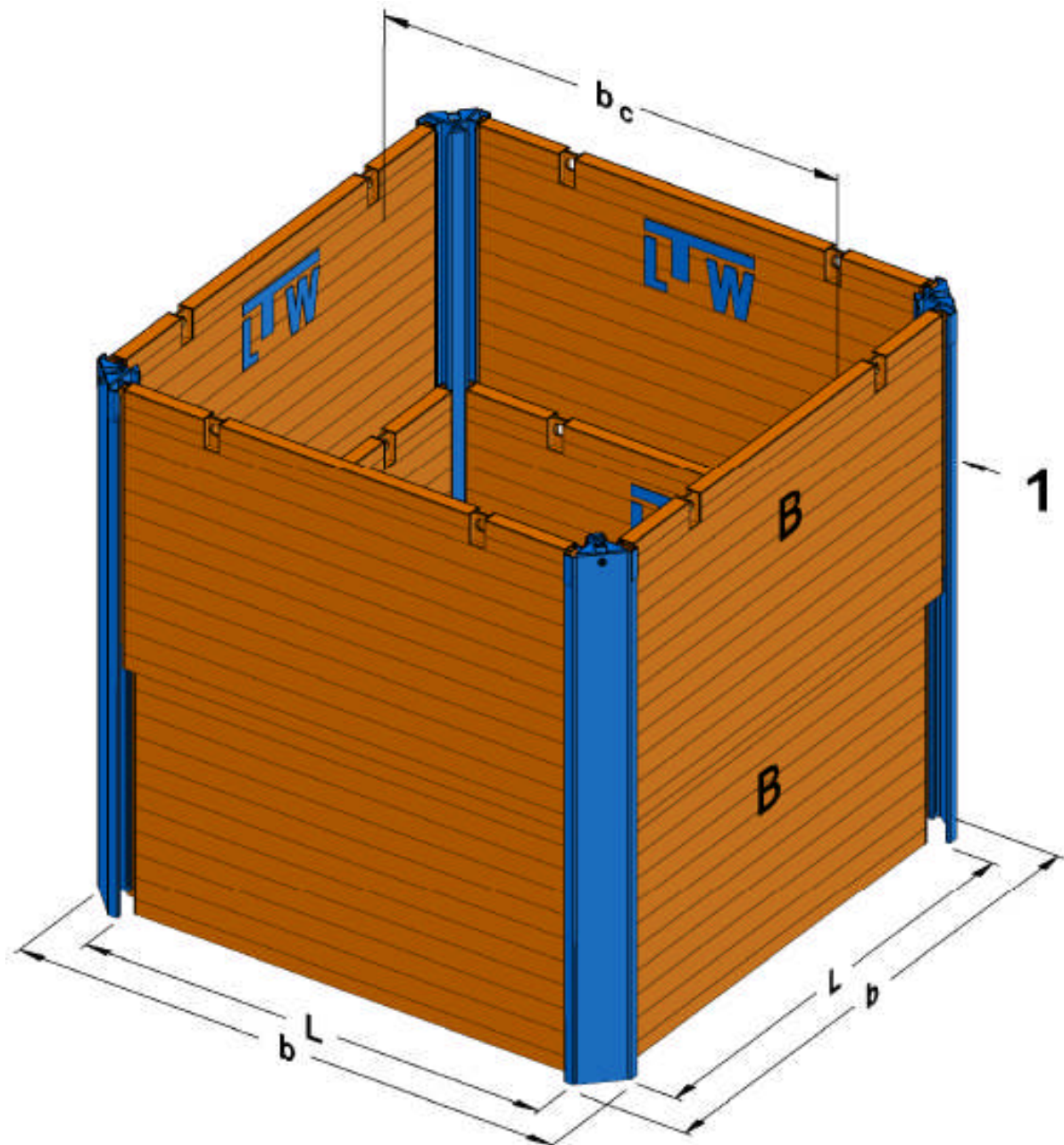
TECHNICAL CHARACTERISTICS

LTW SLIDE RAIL SYSTEM - Type FP



PITS

Corner Double Slide Rails



1 Corner Slide Rail EG
B Base Plate

b Shoring Width
 b_c Inner Working Width

L Plate Length