

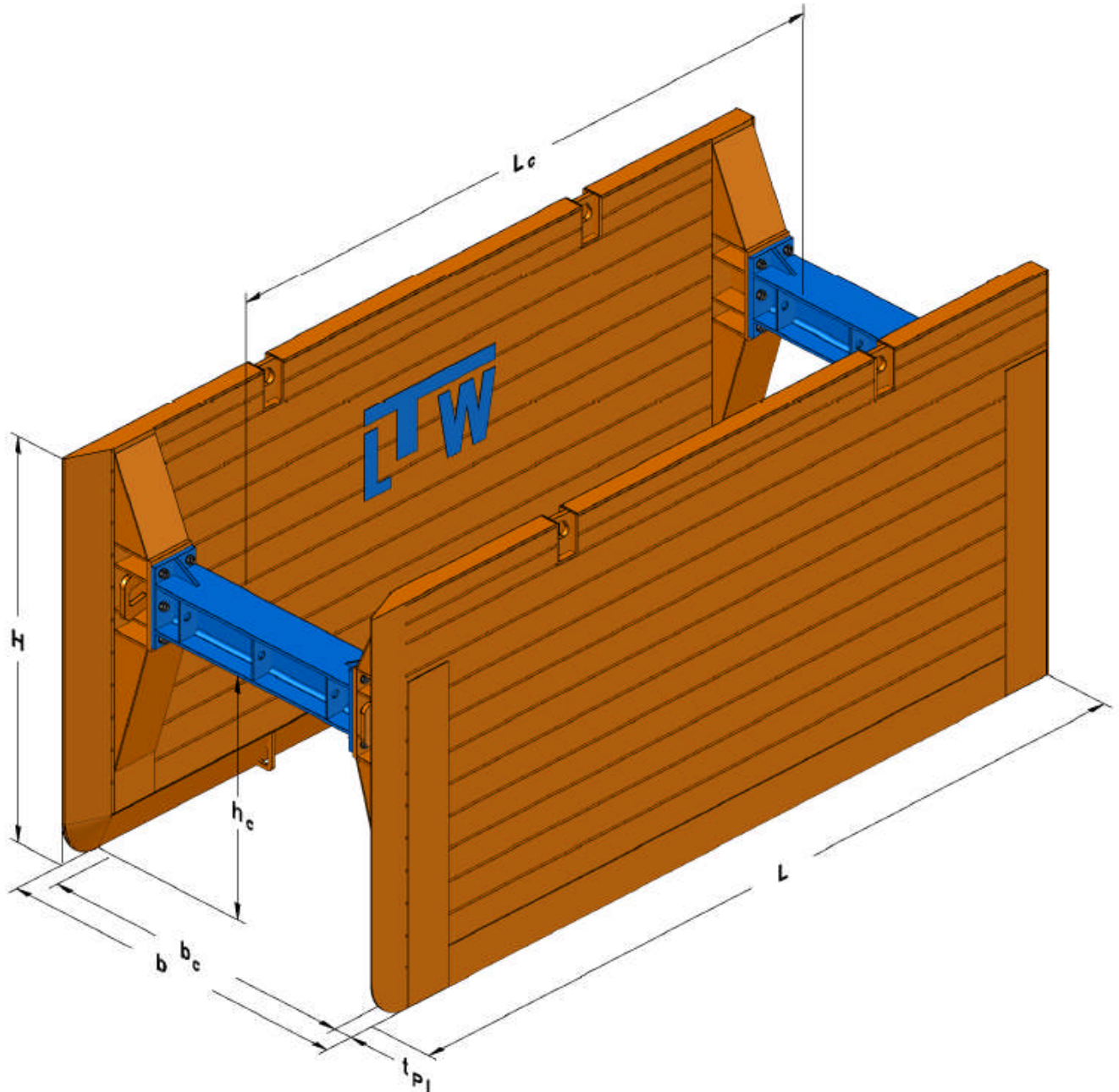
# TECHNICAL CHARACTERISTICS

## LTW DRAG BOX



### SYSTEM VIEW

Flange 500



**B** DRAG BOX  
**H** plate height

b shoring width  
 $b_c$  inner working width  
 $t_{Pl}$  plate thickness

$h_c$  pipe culvert height  
L plate length  
 $L_c$  pipe culvert length

# TECHNICAL CHARACTERISTICS

## LTW DRAG BOX



### DRAG BOX - Flange 500

#### plate height 2,50m

plate length L [ m ]	plate height H [ m ]	plate thickness t <sub>PI</sub> [ mm ]	pipe culvert length L <sub>C</sub> [ m ]	pipe culvert height h <sub>C</sub> [ m ]	limit state design load e <sub>d</sub> [ kN / m <sup>2</sup> ]	plate weight G <sub>PL</sub> [ kg ]	box weight G <sub>E</sub> [ kg ]
4,24	2,50	120	3,36	1,60	70,2	1655	3320
4,74	2,50	120	3,86	1,60	59,3	1795	3590
5,24	2,50	120	4,36	1,60	47,1	1930	3870
5,74	2,50	120	4,86	1,60	46,9	2315	4630
6,24	2,50	120	5,36	1,60	38,9	2475	4950

#### plate height 3,00m

plate length L [ m ]	plate height H [ m ]	plate thickness t <sub>PI</sub> [ mm ]	pipe culvert length L <sub>C</sub> [ m ]	pipe culvert height h <sub>C</sub> [ m ]	limit state design load e <sub>d</sub> [ kN / m <sup>2</sup> ]	plate weight G <sub>PL</sub> [ kg ]	box weight G <sub>E</sub> [ kg ]
4,24	3,00	120	3,36	1,80	55,9	1965	3940
4,74	3,00	120	3,83	1,80	50,4	2130	4270
5,24	3,00	120	4,36	1,80	45,9	2295	4600
5,74	3,00	120	4,86	1,80	42,1	2755	5520
6,24	3,00	120	5,36	1,80	38,9	2945	5900

# TECHNICAL CHARACTERISTICS

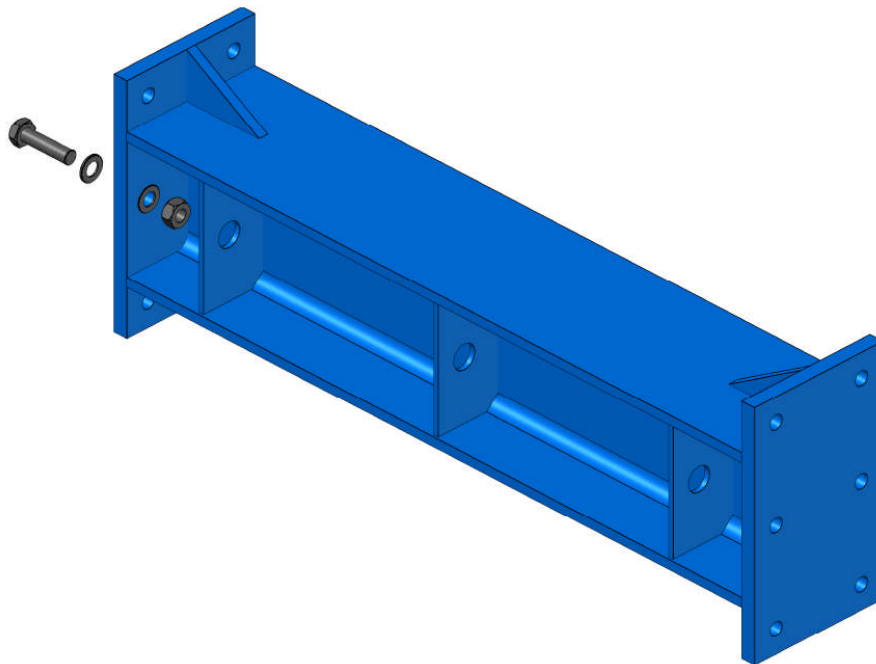
## LTW DRAG BOX



### TENSILE FORCES

pulling eyes	$R_d = 344 \text{ kN}$
lifting eyes at the plate head	$R_d = 344 \text{ kN}$
bottom eyes	$R_d = 109 \text{ kN}$

### DISTANCE PIECE - Flange 500



length of distance piece [ m ]	working width $b_c$ [ m ]	shoring width $b$ [ m ]	weight $G$ [ kg ]
-	0,58	0,82	-
0,50	1,08	1,32	138
1,00	1,58	1,82	209
1,50	2,08	2,32	269
2,00	2,58	2,82	329

### BOLTED CONNECTION:

dimension	materials	standard	number
M 27 * 100	10.9	DIN 6914 zincked	6
M 27	10	DIN 6915 zincked	6
Ø28	St	DIN 6916 zincked	12

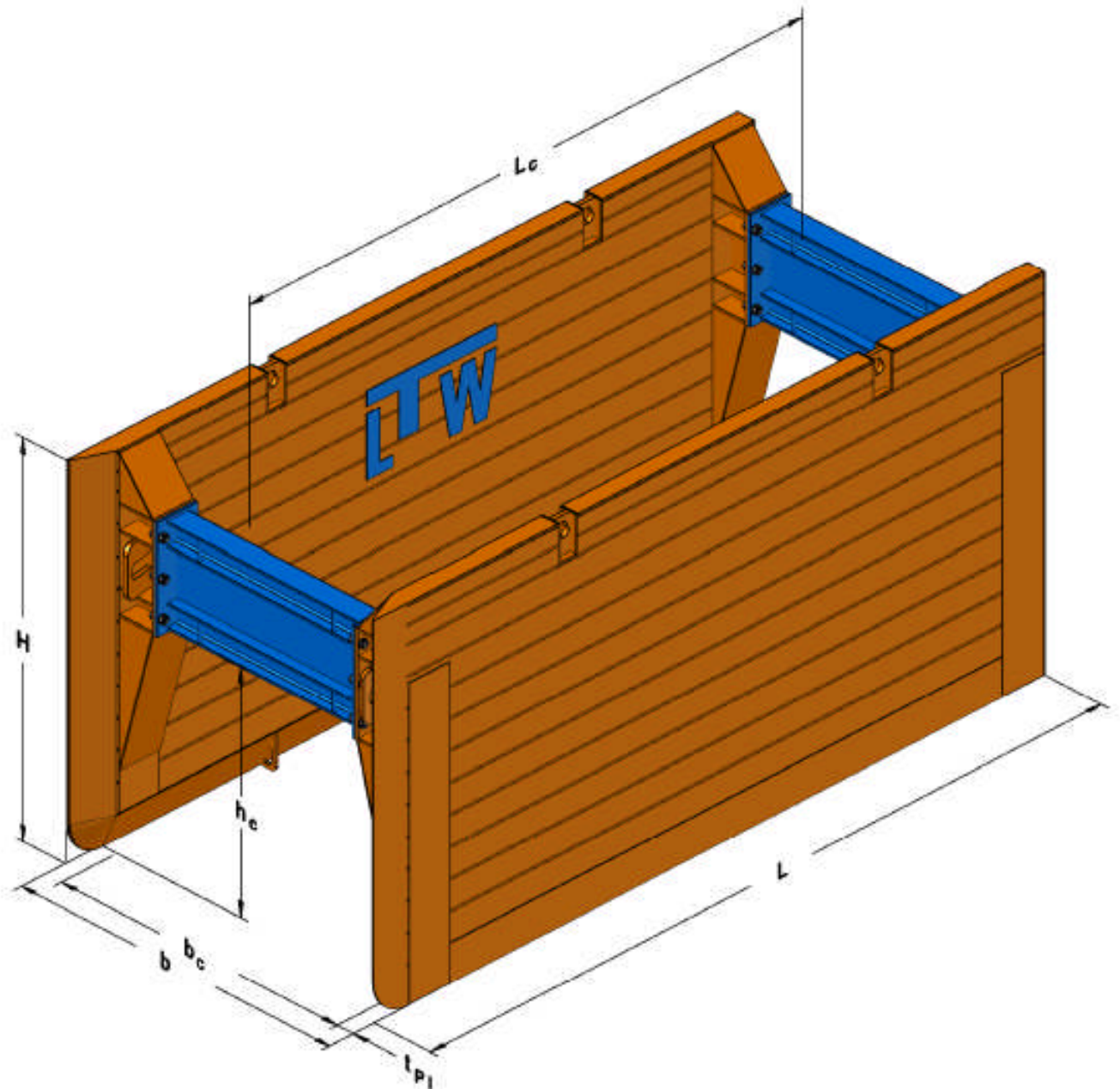
# TECHNICAL CHARACTERISTICS

## LTW DRAG BOX



### SYSTEM VIEW

Flange 700



**B** DRAG BOX  
**H** plate height

**b** shoring width  
**b<sub>c</sub>** inner working width  
**t<sub>p1</sub>** plate thickness

**h<sub>c</sub>** pipe culvert height  
**L** plate length  
**L<sub>c</sub>** pipe culvert length

# TECHNICAL CHARACTERISTICS

## LTW DRAG BOX



### DRAG BOX - Flange 700

#### plate height 2,50m

plate length L [ m ]	plate height H [ m ]	plate thickness t <sub>PI</sub> [ mm ]	pipe culvert length L <sub>c</sub> [ m ]	pipe culvert height h <sub>c</sub> [ m ]	limit state design load e <sub>d</sub> [ kN / m <sup>2</sup> ]	plate weight G <sub>PL</sub> [ kg ]	box weight G <sub>E</sub> [ kg ]
4,24	2,50	120	3,36	1,60	66,5	1655	3320
4,74	2,50	120	3,86	1,60	59,3	1790	3590
5,24	2,50	120	4,36	1,60	47,1	1930	3860
5,74	2,50	120	4,86	1,60	46,9	2310	4630
6,24	2,50	120	5,36	1,60	38,9	2470	4950

#### plate height 3,00m

plate length L [ m ]	plate height H [ m ]	plate thickness t <sub>PI</sub> [ mm ]	pipe culvert length L <sub>c</sub> [ m ]	pipe culvert height h <sub>c</sub> [ m ]	limit state design load e <sub>d</sub> [ kN / m <sup>2</sup> ]	plate weight G <sub>PL</sub> [ kg ]	box weight G <sub>E</sub> [ kg ]
4,24	3,00	120	3,36	1,80	55,9	1965	3930
4,74	3,00	120	3,86	1,80	50,4	2125	4260
5,24	3,00	120	4,36	1,80	45,8	2290	4590
5,74	3,00	120	4,86	1,80	42,1	2750	5510
6,24	3,00	120	5,36	1,80	38,9	2940	5890

#### plate height 3,50m

plate length L [ m ]	plate height H [ m ]	plate thickness t <sub>PI</sub> [ mm ]	pipe culvert length L <sub>c</sub> [ m ]	pipe culvert height h <sub>c</sub> [ m ]	limit state design load e <sub>d</sub> [ kN / m <sup>2</sup> ]	plate weight G <sub>PL</sub> [ kg ]	box weight G <sub>E</sub> [ kg ]
4,24	3,50	120	3,36	1,80	55,9	2205	4420
4,74	3,50	120	3,86	1,80	50,4	2390	4790
5,24	3,50	120	4,36	1,80	45,8	2575	5160
5,74	3,50	120	4,86	1,80	42,1	3130	6260
6,24	3,50	120	5,36	1,80	38,9	3345	6700

# TECHNICAL CHARACTERISTICS

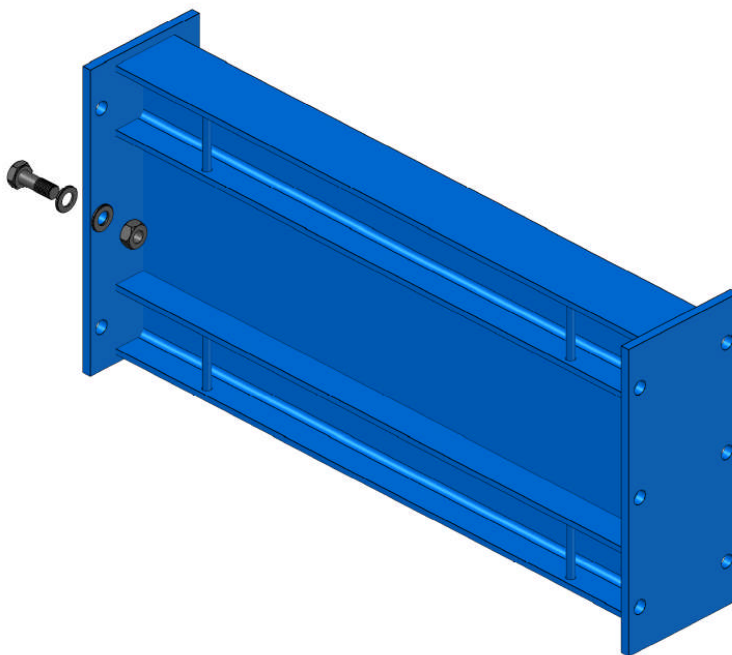
## LTW DRAG BOX



### TENSILE FORCES

pulling eyes	$R_d = 344 \text{ kN}$
lifting eyes at the plate head	$R_d = 344 \text{ kN}$
bottom eyes	$R_d = 109 \text{ kN}$

### DISTANCE PIECE - Flange 700



length of distance piece [ m ]	working width $b_c$ [ m ]	shoring width $b$ [ m ]	weight $G$ [ kg ]
-	0,56	0,80	-
0,50	1,06	1,30	123
1,00	1,56	1,80	177
1,50	2,06	2,30	233
2,00	2,56	2,80	287

### BOLTED CONNECTION:

dimension	materials	standard	number
$M 30 * 85$	10.9	DIN 6914 zincked	6
$M 30$	10	DIN 6915 zincked	6
$\varnothing 31$	St	DIN 6916 zincked	12