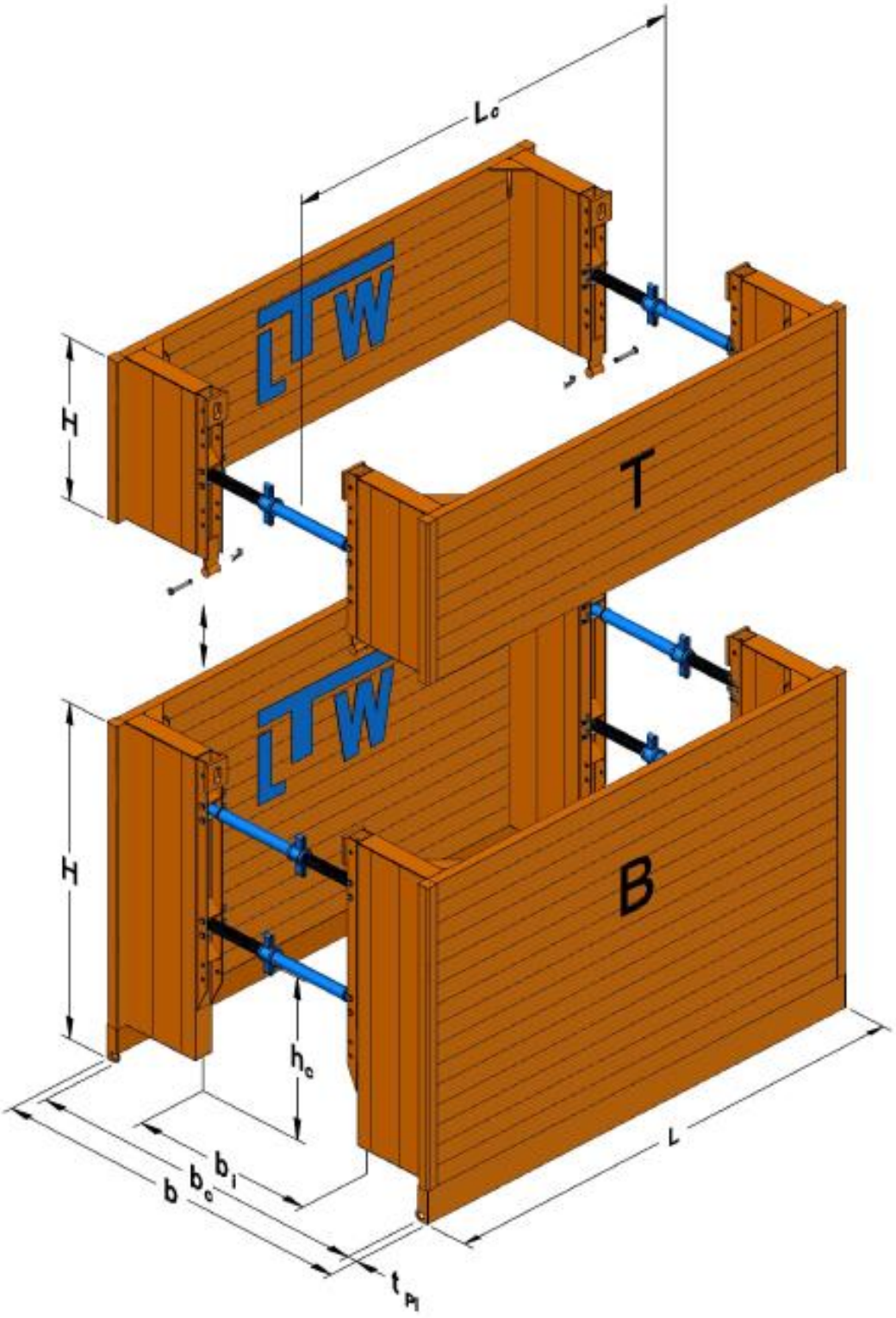
TECHNICAL CHARACTERISTICS
LTW BACKHOE M/H BOX

SYSTEM VIEW



B	Base Box	b	Shoring Width	h_C	Pipe culvert height
T	Top Box	b_C	Inner Working Width	L	Plate Length
H	Plate Height	t_{Pl}	Plate Thickness	L_C	Pipe Culvert Length

TECHNICAL CHARACTERISTICS
LTW BACKHOE M/H BOX

BASE BOXES t_{Pl} = 60mm

Platelength L [m]	Plateheight H [m]	Pipe culvert length L_C [m]	Pipe culvert height h_C [m]	Limit state design load e_d [kN / m²]	Plateweight G_{PL} [kg]	Boxweight G_E [kg]
2,00	1,50	1,63	0,72	53,3	390	830
	2,00		0,98		515	1080
2,50	1,50	2,13	0,72	42,6	430	910
	2,00		0,98		565	1180
3,00	1,50	2,63	0,72	32,0	470	990
	2,00		0,98		620	1290

TOP BOXES t_{Pl} = 60mm

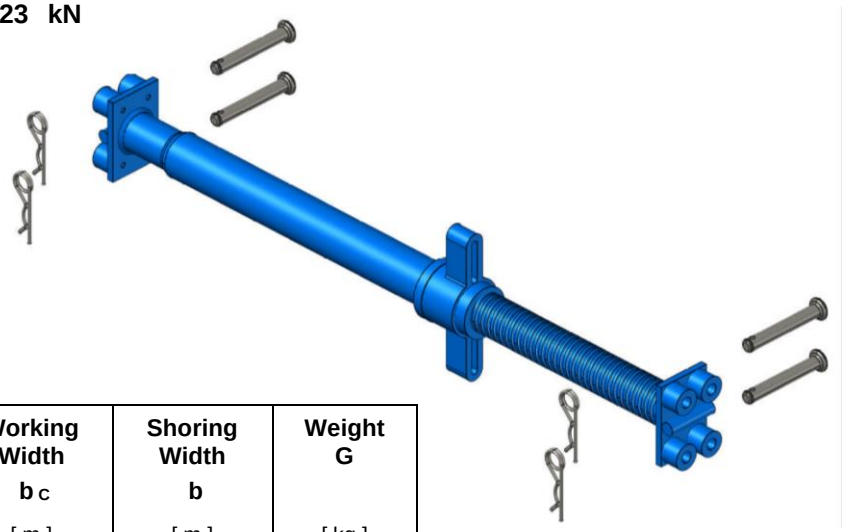
Platelength L [m]	Plateheight H [m]	Pipe culvert length L_C [m]	Pipe culvert height h_C [m]	Limit state design load e_d [kN / m²]	Plateweight G_{PL} [kg]	Boxweight G_E [kg]
2,00	1,00	1,63	-	53,3	285	600
2,50	1,00	2,13	-	42,6	315	650
3,00	1,00	2,63	-	32,0	340	710

TENSILE FORCES

lifting eyes at the plate head **R_d = 229 kN**

bottom eyes **R_d = 23 kN**

MINIBOX STRUT



Type	Stroke [m]	Working Width b_i [m]	Working Width b_C [m]	Shoring Width b [m]	Weight G [kg]
A	0,10	0,53 - 0,63	1,53 - 1,63	1,65 - 1,75	12
B	0,19	0,62 - 0,81	1,62 - 1,81	1,74 - 1,93	13
C	0,37	0,80 - 1,17	1,80 - 2,17	1,92 - 2,29	16
D	0,73	1,16 - 1,89	2,16 - 2,89	2,28 - 3,01	21