



Summary

Technical data

KVL - Montage & Mise en Place
 Oublier

Modèle	Largeur	Hauteur	Poids	Capacité	Profondeur
KVL 100	1000	1000	1000	1000	1000
KVL 120	1200	1200	1200	1200	1200
KVL 150	1500	1500	1500	1500	1500
KVL 200	2000	2000	2000	2000	2000
KVL 250	2500	2500	2500	2500	2500
KVL 300	3000	3000	3000	3000	3000
KVL 350	3500	3500	3500	3500	3500
KVL 400	4000	4000	4000	4000	4000
KVL 450	4500	4500	4500	4500	4500
KVL 500	5000	5000	5000	5000	5000



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Montage



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Implementation

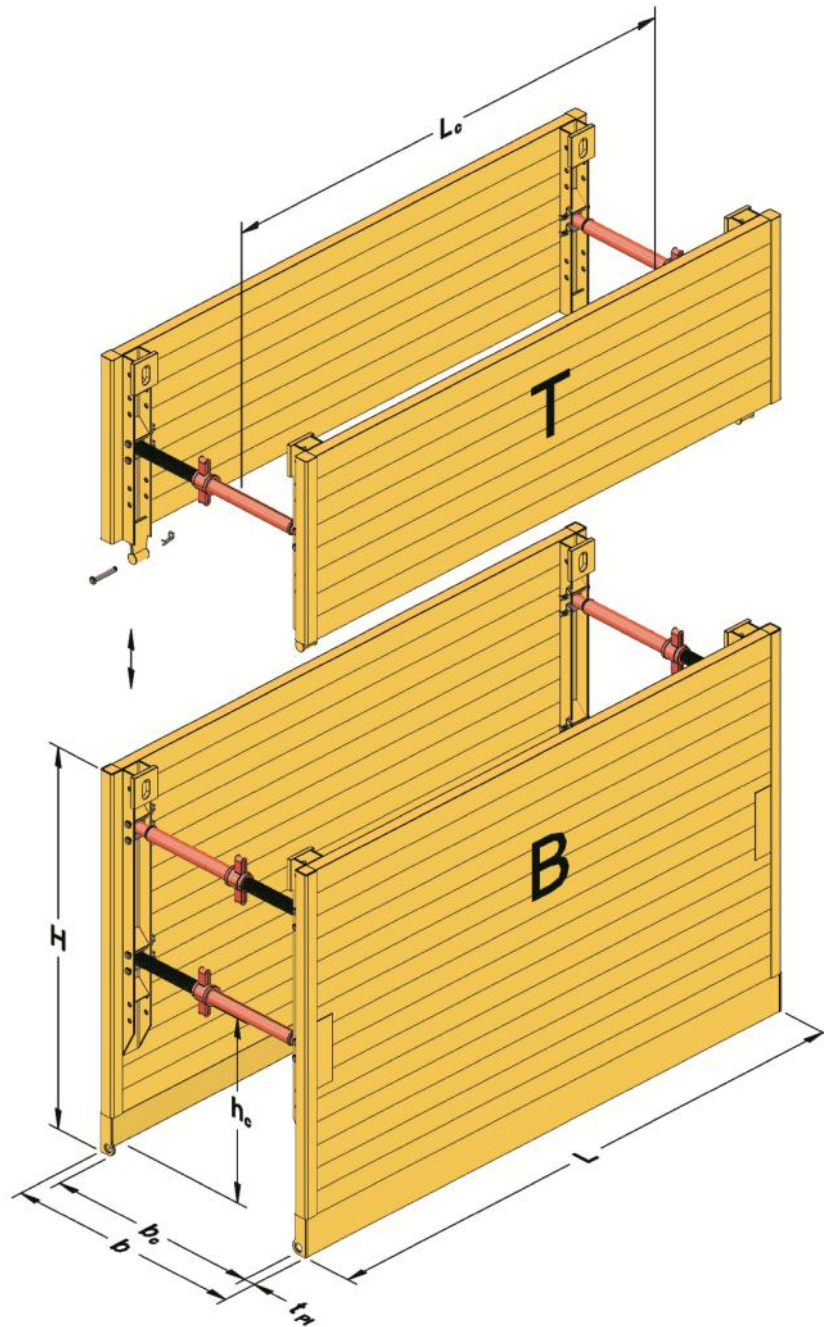


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Reminder



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H	Plate height
L	Plate length
H_c	Pipe culvert height
L_c	Pipe culvert length
b_c	Working width
b	Shoring width
t_{pl}	Plate thickness

KVL - Assembly and operating manual

Trench box



Base plate LxH		Weight box	Pipe culvert height H _c	Pipe culvert length L _c	Thickness plate t _p	State design load limited
[mm]		[kg]	[mm]	[mm]	[mm]	[kN/m ²]
KVL 2000x	1500	465	720	1690	60	53.3
	2000	595	980			40.8
KVL 2500x	1500	545	720	2190	60	42.6
	2000	700	980			32.6
KVL 3000x	1500	625	720	2690	60	32.0
	2000	805	980			27.2
Top plate						
KVLA 2000x	1500	205		1690	60	53.3
	2000	325				40.8
KVLA 2500x	1500	235		2190	60	42.6
	2000	380				32.6
KVLA 3000x	1500	270		2690	60	32.0
	2000	435				27.2

Any other dimension, consult us.

Tensile forces:

- lifting eyes at the plate head Rd = 229 kN
- bottom eyes Rd = 23 kN



Strut type	Working width b _c	Shoring width b	Weight
	[m]	[m]	[kg]
A	0.53 - 0.63	0.65 - 0.75	12.4
B	0.62 - 0.81	0.74 - 0.93	13.5
C	0.80 - 1.17	0.92 - 1.29	15.7
D	1.16 - 1.89	1.28 - 2.01	19.4



To facilitate mounting:

- ↪ preferably select a flat surface,
- ↪ prévoir des élingues chaîne provide 4-wire chain slings,

- ↪ provide wood battens,
- ↪ provide a sledgehammer.



Fig 1 :

Present the first flat panel face up.
Use chain slings four strands set out in the lifting designed for this purpose.



Fig 2 :

Set in the KVL spindles in quincunx into the supports pre drilled for this purpose.
The cylinders are secured with pins and 20 pins beta.
To ensure the pin inside the trench box.



Fig 3 :

Approaching the second panel, which was once attached to the first, will be the box.

- ↪ respect the lifting eyes points for handling
- ↪ respect the mounting points of the spindles
- ↪ base box KVL consists in 2panels 2 and 4 spindles.
- ↪ during handling maneuvers, do not lie in the space evolution of the excavator.



Fig 4 :

Return the panel to present it to the horizontal facing the soil

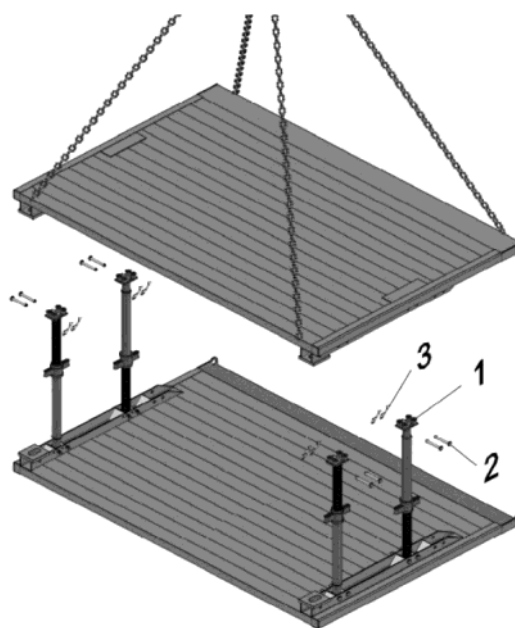


Fig 5 :

On each side of the panel, a person guide the presentation of the panel and fixed props.



remember to put the beta pin inside the box.

Implementation of trench box



Excavation



Presentation of the box pre settling was the slightly wider than the top (shield-shaped A) down.





Installation the box at the bottom of excavation.

As the excavation is not secure nobody down!



Present the top box.



*Continue excavation
Descent of the following boxes.
A shaped box.*



Fixing of the top box; the junction piece is an integral part of the plate



Trench box in your possession is a monobloc system box type KVL.

The system allows

- To ensure the safety of those involved in the trench,
- To ensure the stability of the surrounding land and nearby homes or buildings (underground structures, roads, buildings),
- To limit the influence of the trench,
- To control volume and earthwork backfill
- To master the rates.

Reminders



2 spindles at each end of the box base



1 spindle at each end of the top base



Spindles in quincunx



Open spindle base a little more than the upper



Secure the pins inside the box



Handle only thru lifting eyes



No handle box by the spindles



Care to preserve the contact between the plate and the ground