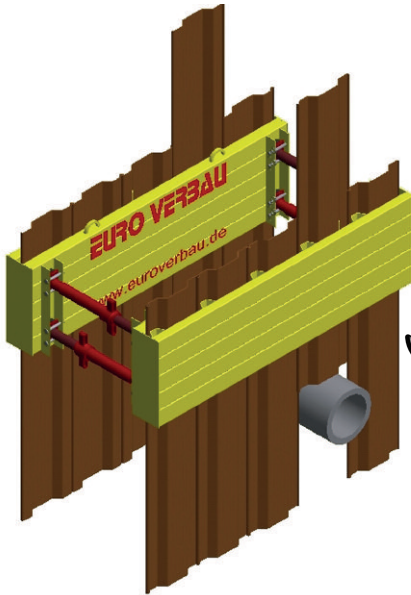


MANUAL



MINI-SHEETPILEFRAME

EURO VERBAU® GmbH

Hocksteiner Weg 30 D-41189 Mönchengladbach
Tel: +49 21 66-3 98 63 60 Fax: +49 21 66-3 98 63 78
Site: www.euroverbau.de Mail: info@euroverbau.de



TRENCH SHORING SYSTEMS FROM SHORING PROFESSIONALS

Trench shoring equipment

Production - Sales - Rental - Service

These instructions for use must be presented to the building site personnel.

Also to be observed are the diagram of stresses on the lower braces and the load-bearing diagram (bracing characteristic) for the relevant type of brace. The brace stresses read from the diagram have to be applied to the appropriate load-bearing diagram to see whether the system is usable in regards of the trench depth and width.

1. General purpose of use

The economical solution for crossing utilities in combination with the mini-box/VB60 elements (mini-sheetpile-frame) or house entries etc.

2. Specifications

Length:	2040 mm/KD4 2840 mm/KD4 2840 mm/KD6
Height:	600 mm
Max. load 2040 mm:	49,00 kN/m
Max. load 2840 mm:	28,50 kN/m
Weight per element 2040 mm:	approx. 600 kg (depending on the shaft)
Weight per element 2840 mm:	approx. 770 kg (depending on the shaft)

3. Safety regulations

WARNING

We refer to the fact that the above shoring system is only for the intended use and may only be assembled, installed, dismantled etc. in the sequence listed under points 4 - 7, exclusively with the use of all relevant "original construction elements".

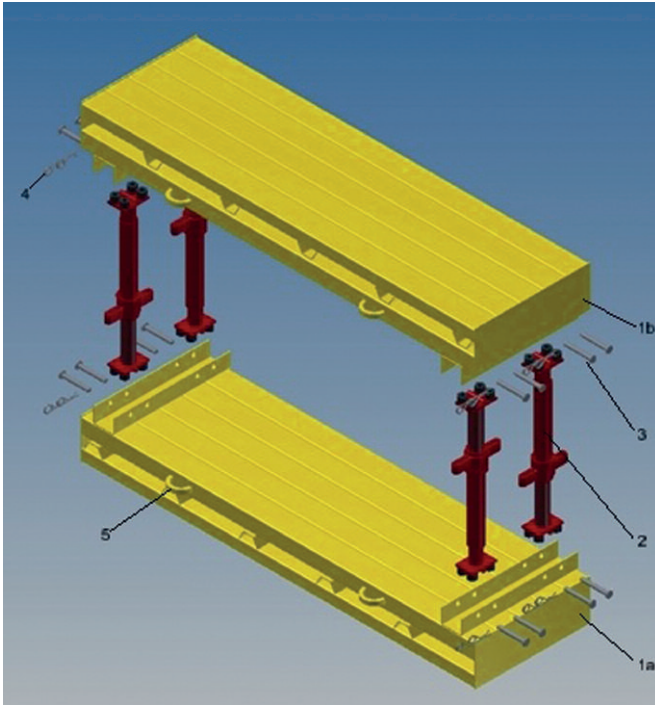
If this facts not obeyed, the manufacturer's liability and warranty are invalid. Observe the load-bearing capacity of the shoring elements.

Note:

All of the requirements of BG-Bau (the professional association) as well as DIN 4124 "Excavations and trenches, embankments, workroom widths, shoring" are applicable. In the event of conditions deviating from the standard conditions, construction site statics must be prepared.

4. Assembly:

- a) Lay the mini-sheetpile plate (1) with the guide profile facing upwards on level ground.
- b) Insert the struts (2) into the guide posts so that the shafts of the struts are always mounted alternately (see sketch). This is statically determined and, if not observed, leads to a reduction in the stability of the mini-pile box. Insert two bolts (3) $d = 20 \text{ mm}$, $L = 140 \text{ mm}$ into the boreholes provided on the guide profile, via the head plates of the struts, and secure them with safety clips (4). Mount all four struts (2) accordingly.
- c) Once all four struts (2) have been mounted, hang a suitable lifting device on the second plate (1b). Then attach and bolt the second plate (1b) from above, and secure it as described in point b.
- d) Set the mini-pile box to the ditch width using the butterfly nuts on the struts.



5. Installation

- a) Insert the mini-pile box in a pre-excavated trench up to approx. 0.60 m of depth. To do so, hang an appropriate lifting device in the transport eyes (5). For the 2040 mm element, the chain pendant must be designed for at least 600 kg; the individual leg length must be at least 0.70 m. For the 2,840 mm element, the chain pendant must be designed for at least 815 kg; the individual leg length must be at least 1.20 m.
- b) By rotating the struts, press the mini-pile plates onto the trench wall.
- c) Insert the piles and bring them down by pressing, vibration or ramming.
- d) Excavate the earth from between the piles.
- e) With reference to the construction site conditions, a static calculation must be prepared.

6. Dismantling

- a) Backfill with earth up to the lower edge of the mini-pile box.
- b) Dismantling of the piles.
- c) Removal of the mini-pile box.
- d) Back-filling of the chamber space.
- e) Compaction of the back-filled earth.

7. Disassembly

Before transporting away the mini-pile box, it is disassembled analogously to the assembly but in the reverse sequence.

8. Maintenance / Service

On each disassembly, the mini-sheetpile box should be cleaned. The free strut ends must be kept in a well-lubricated state. The entire shoring unit must be protected against corrosion caused by handling damage by the use of appropriate protective measures.

9. Transport

When unloading, you should store the supplied wooden blocks and the rubber plates (if any) appropriately. These parts must always be re-used for the return transport. As the shipper, you are co-responsible for the appropriate shipping of the return transport.



Manufacturer Certification in Compliance
with DIN EN 1090-2

