EURO VERBAU®

MANUAL

CORNER SLIDE RAIL SYSTEM

EG- / DG-CORNER

EURO VERBAU® GmbH

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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.

1. General purpose of use

Shafts and excavations with head shoring.

2. Specifications EG PV 4000

Description	Type	Dimensions [mm]	Weight [kg]
Single-corner slide rail	EG corner	L=3500	189
Double-corner slide rail	DG Corner	L=4500	469
Double-corner slide rail	DG Corner	L=5500	573

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 and extracted in the sequence listed under the following points, exclusively with the use of all relevant "original construction elements". The shoring plates used are slide-rail plates of the KRA/KRI VS 100 type (plate thickness 105 mm) and KRA/KRI VS 120 (plate thickness 125 mm).
Failure to obeserve these unser instructions make 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.

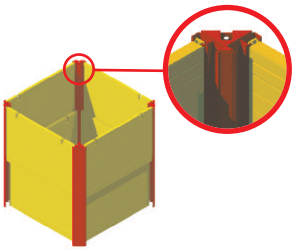
4. Shoring widths for single pits, EG (single slide rail) or DG (double slide rail) corner

Shoring widths for EG corner

Shoring plate	bc Inner plate [mm]		b Trench width [mm]		b Outer rail [mm]
	KRI	KRA	KRI	KRA	
KR 8000	8090	8185	8390	8485	8437
KR 7000	7106	7210	7356	7460	7433
KR 6000	6106	6210	6356	6460	6433
KR 5000	5106	5210	5356	5460	5433
KR 4500	4606	4710	4856	4960	4933
KR 4000	4106	4210	4356	4460	4433
KR 3500	3646	3710	3856	3920	3933
KR 3000	3146	3210	3356	3420	3433
KR 2500	2646	2710	2856	2920	2933
KR 2000	2146	2210	2356	2420	2433

Shoring widths for DG corner

Shoring plate	bc Inner plate [mm]		b Trench width [mm]		b Outer rail [mm]
	KRI	KRA	KRI	KRA	
KR 8000	8090 Innenplatte		8785 Außenplatte		8737
KR 7000	7106	7210	7656	7760	7733
KR 6000	6106	6210	6656	6760	6733
KR 5000	5106	5210	5656	5760	5733
KR 4500	4606	4710	5156	5260	5233
KR 4000	4106	4210	4656	4760	4733
KR 3500	3646	3710	4156	4220	4233
KR 3000	3146	3210	3656	3720	3733
KR 2500	2646	2710	3156	3220	3233
KR 2000	2146	2210	2656	2720	2733



Excavation with outside walert and foot rest (lost)

Image 2a

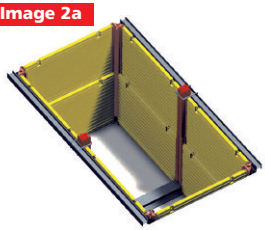


Image 2b

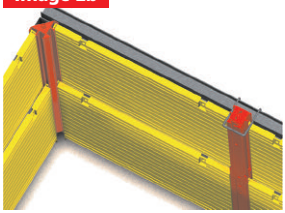
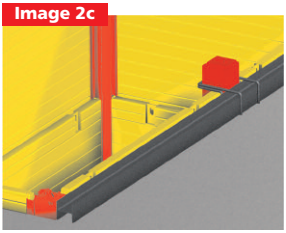


Image 2c

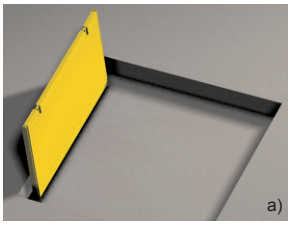


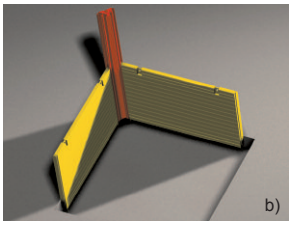
5. Installation

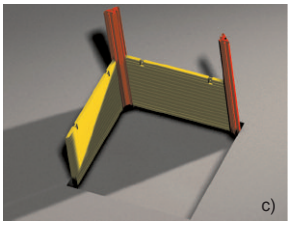
a) Depending on the soil conditions, create an advance excavation for the pit. Set up one plate and secure it against falling over or hold it in position with a second machine

b) Thread one corner slide rail at one end of the plate, into the outer guide, push in with the excavator and secure it. Insert one plate at right angles to the first plate.

c) Thread the second corner slide rail into the outer guide, push in with the excavator to secure it.

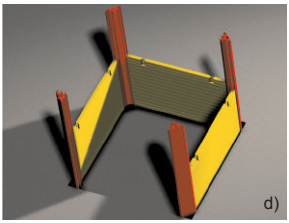


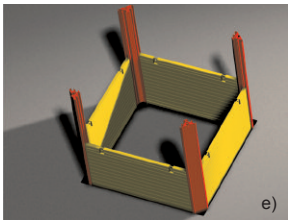


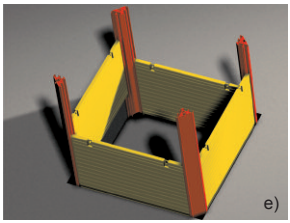


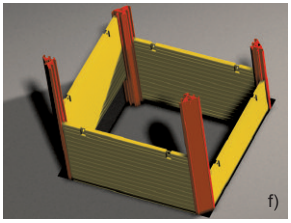
d) Repeat steps C and D on the other side. Make sure that the two plates are at right angles to the head plate. Insert 2 corner rails on the free plate ends and press them down.

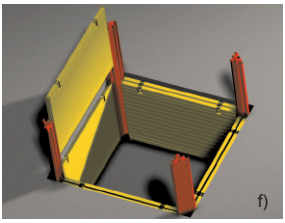
e) Insert one plate into the outer guides of the corner rails. Align the pit system. Lower the plates and corner rails gradually. At a depth of approx. 2.3 m, affix a support plate to the EG corner, secure it with bolts and gradually lower it. Max. depth 3.7 m. If necessary, use protection rails and a protection anvil. On the DG corner, the additional plates in the inner guide are built into the DG corner. At greater depths, a top plate can also be used in the outer guide. The maximum depth is 6.1m. The plates should lead ahead of the corner slide rails so that the guides of the slide rail remain free.

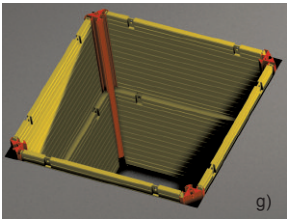






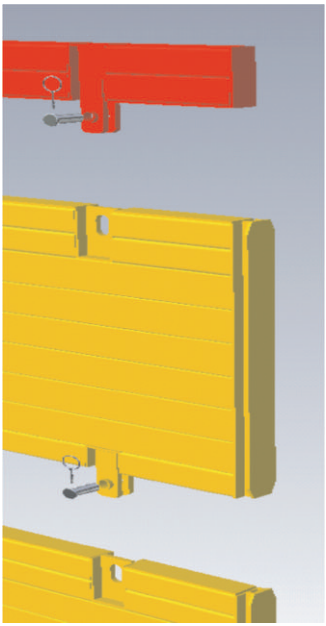






f) If the plate head has reached the upper edge of the pit, insert a second plate into the inner guide of the corner slide rail if necessary, as far as the height of the blade of the first plate. Press in the inner plate further, as described in e) If necessary, slide support plates into the outer slide-rail guide and connect them to the lower plate by means of locking bolts and safety clips.

g) When the excavation is finished, the plate head should lie approx. 10 cm above the base and serve as a scree protector.



6. Dismantling

a) Insert the backfill material in layers (observing the compaction level).

b) Pull out the plates and corner slide rails up to the filled area. In doing so, start from the inner plate. The height of the respective pullout is according to compaction level.

c) Compact the backfill material.

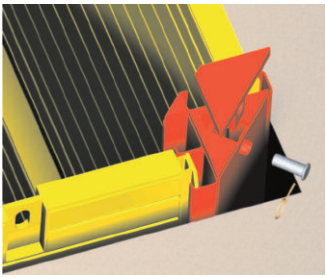
d) Restart at point 6.a, until the shoring iscompletely pulled out of the earth.

7. Disassembly

Before transporting away the shoring unit, it is disassembled analogously to the assembly but in the reverse sequence.

8. Maintenance / Service

On each disassembly, the corner rails should be cleaned. 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 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.