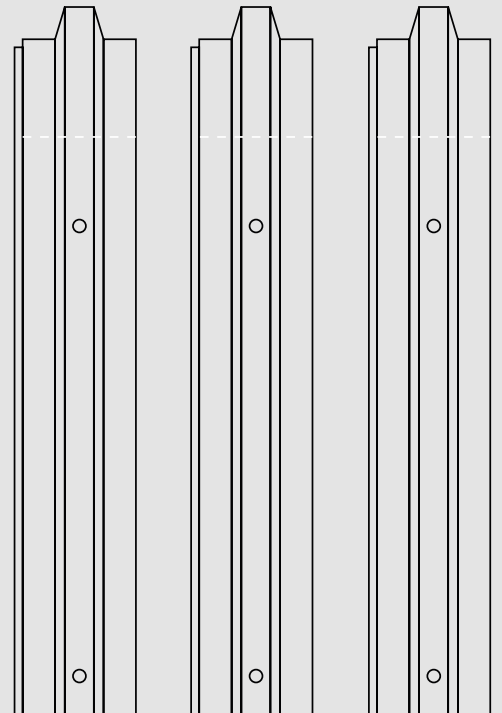


HOWO-SYSTEC® MOBILE SAFETY BARRIER SYSTEM- FLOOD PROTECTION (MSV-H)



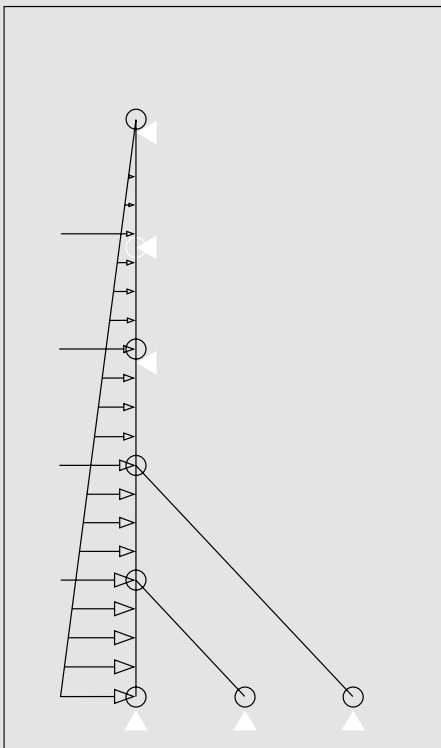


**A Static determination;
case of loading 1, plane bar
frame**

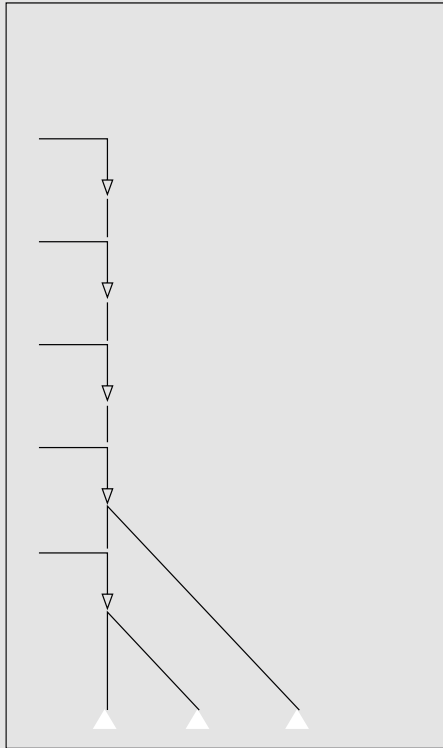
**B Static determination;
case of loading 2, plane bar
frame**



A



B

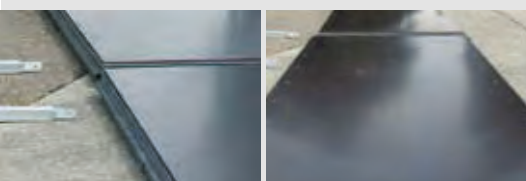
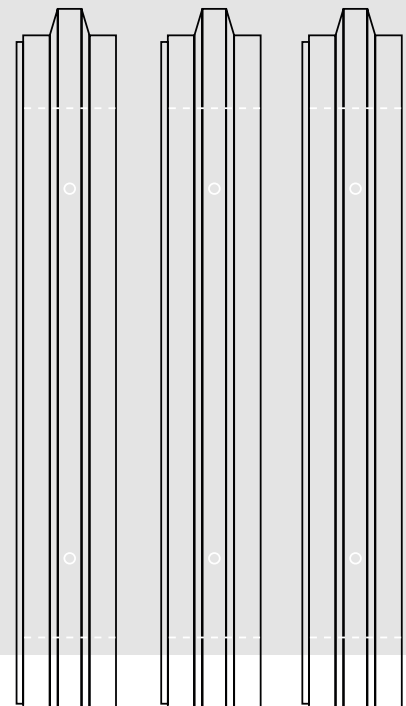


MOBILE PROTECTION WALL FIELDS OF APPLICATION:

- FLOOD PROTECTION
- ROAD BLOCK
- AT DEMONSTRATIONS, CONCERTS, PUBLIC EVENTS - SNOW WALLS
- CONSTRUCTION SITE BARRIER
- RAILROAD BARRIERS FOR CASTOR TRANSPORTS -
SECURING MUD SLIDES AND PROTECTION
AGAINST ALLUVIUM AND RUBBLE - BILLBOARDS ETC.

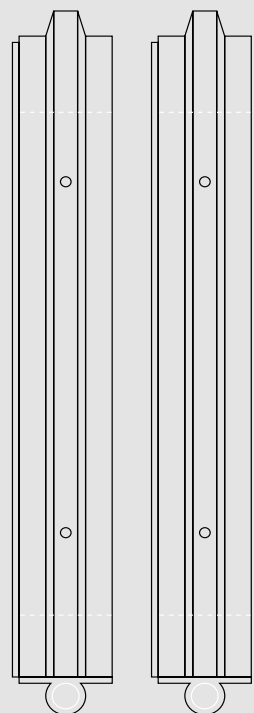
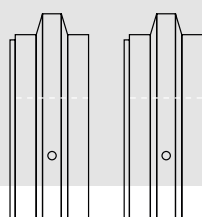


The individual segments can easily be transported due to their low weight and compact measures.





The assembling of one segment requires about 5 minutes. 30 running meters can easily be put together in one hour by two people.



MOBILITY

The system can be used on nearly all surfaces. Therefore, barriers can even be built on uneven territory. The compactness allows for a small cubic measure, as the walls are stackable. Thanks to the light construction, the system can be handled without heavy duty machinery. The walls can easily be built up to the height of 3 meters without the support of a crane.

ASSEMBLY

The assembly can be carried out with only a few manoeuvres. The compact measures and the low weight allow only 2 to 3 people to assemble the system (30 running meters in about 1 hours time for 2 people). Only a few standard tools (screw wrench, hammer, hammer drill) are required for the set up.

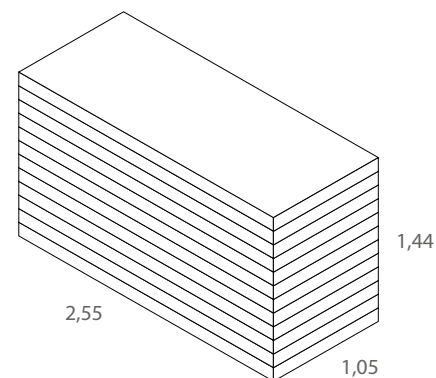
SAFETY

The system allows a high level of safety thanks to static calculation. Also, it provides absolute imperability through the patented connection system, even when the surface is uneven. The combination of top quality materials provides a very high durability. The material is nearly indestructable (heat, cold, acid and UV resistant).





Stacking space needed
for 30 running meters /
12 elements



ENVIRONMENTALLY SAFE

The materials used are to 100% recycle-able and therefore ecologically benign.

COST EFFECTIVENESS

The system can be used for manifold applications and is therefore extremely cost effective. Thanks to the high durability of the used materials the long-life cycle is provided for (aluminium, zinc plated steel, formwork panels).

DIMENSION / HEIGHT OF CONSTRUCTION

We guarantee for a height up to the 5.20 meters (statically proven). Compact dimensions of one element are: 1.05 x 2.55 x 0.12 m. This allows to stack the walls in a garage, basement or storage room (30 running meters require 1.05 x 2.55 x 1.44 m space).

PERMANENT INSTALLATION

The system can also be installed permanently in areas where floods occur frequently. Due to an u-rail anchored to the ground, the mobility of the system is still ensured. Thanks to a sealing cap the u-rail is walkable and driveable.



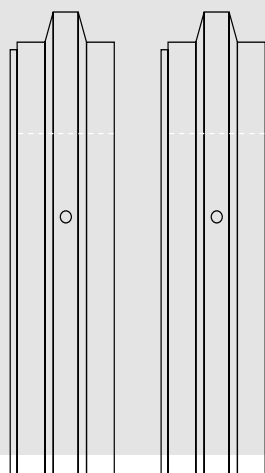
On a naturally grown surface the wall support is secured with steel needles.

Right page

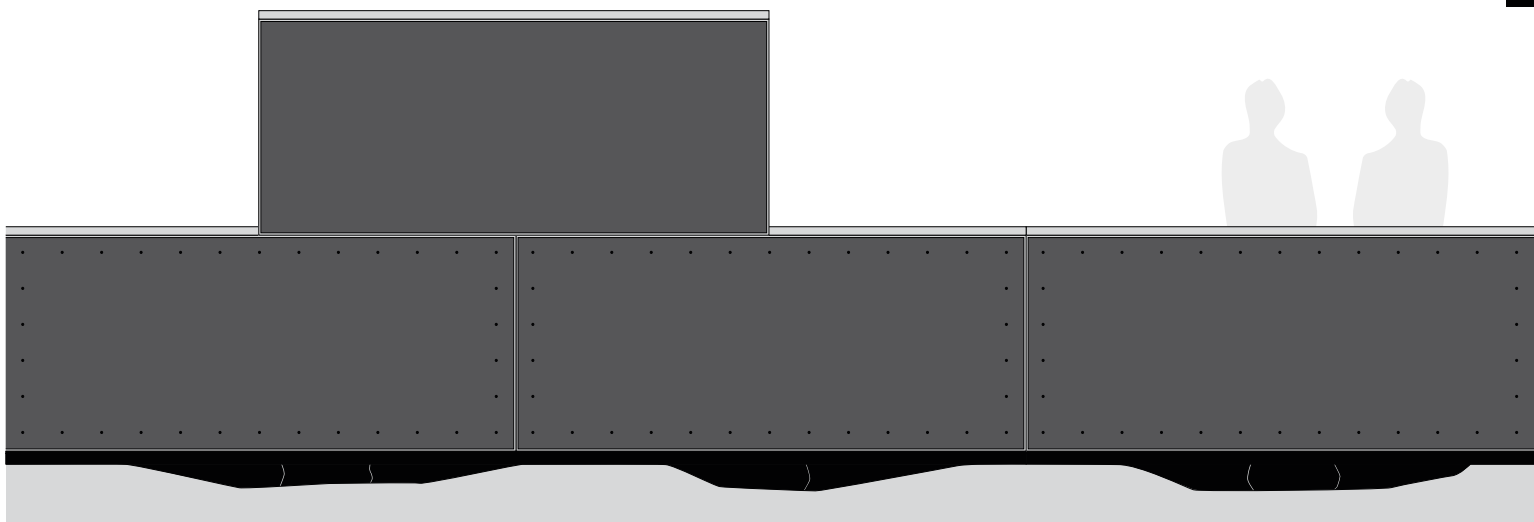
A Uneven, naturally grown surfaces are levelled with special sand bags.

B Profile of a standard assembly with built in u-rail and integrated sealing cap.

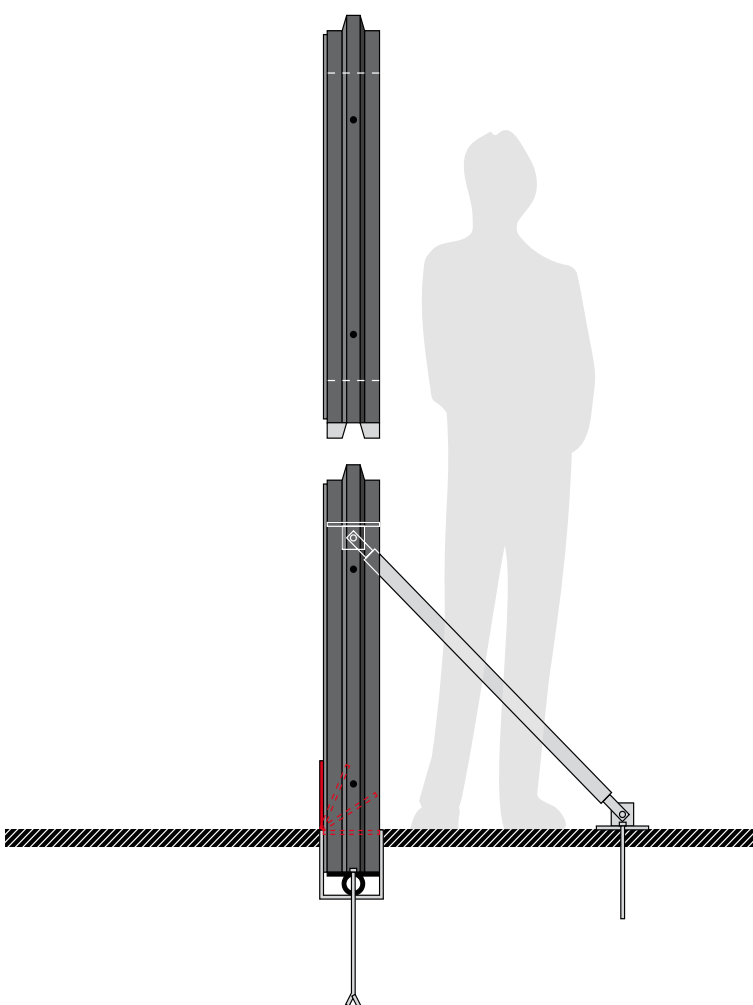
C Profile of a standard assembly directly on the ground without anchoring.



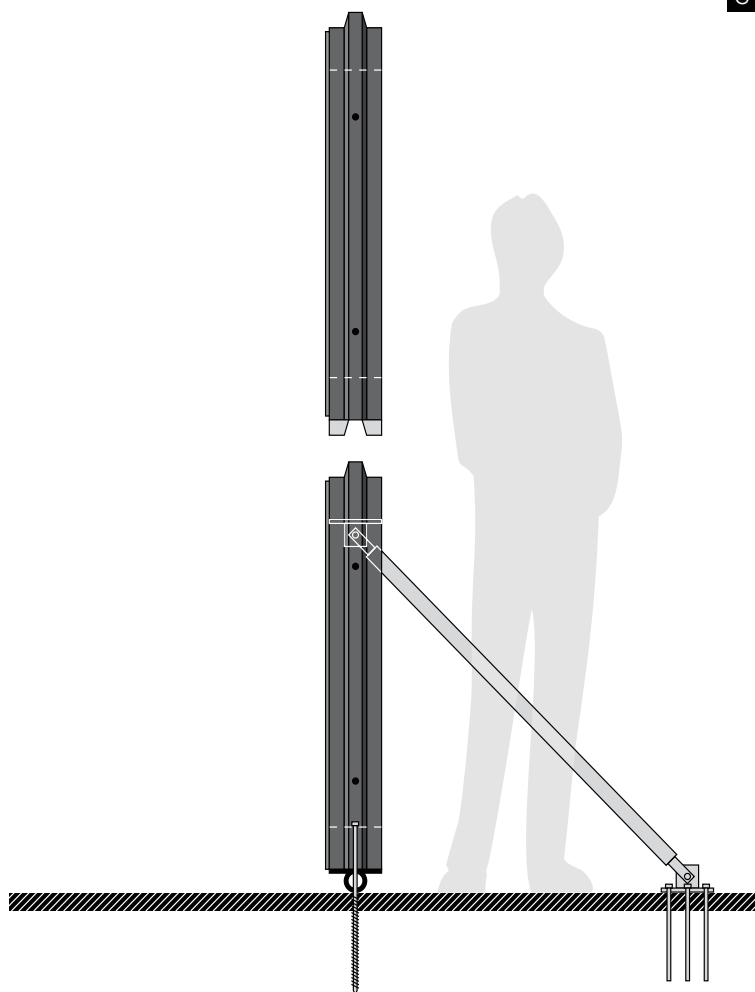
A

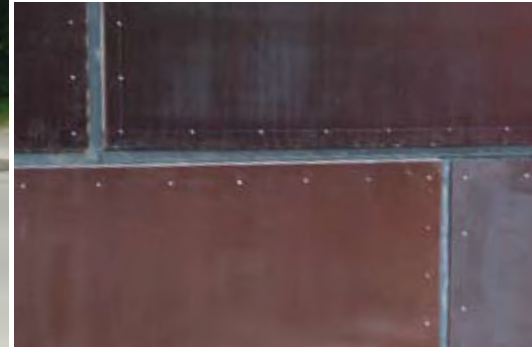


B



C



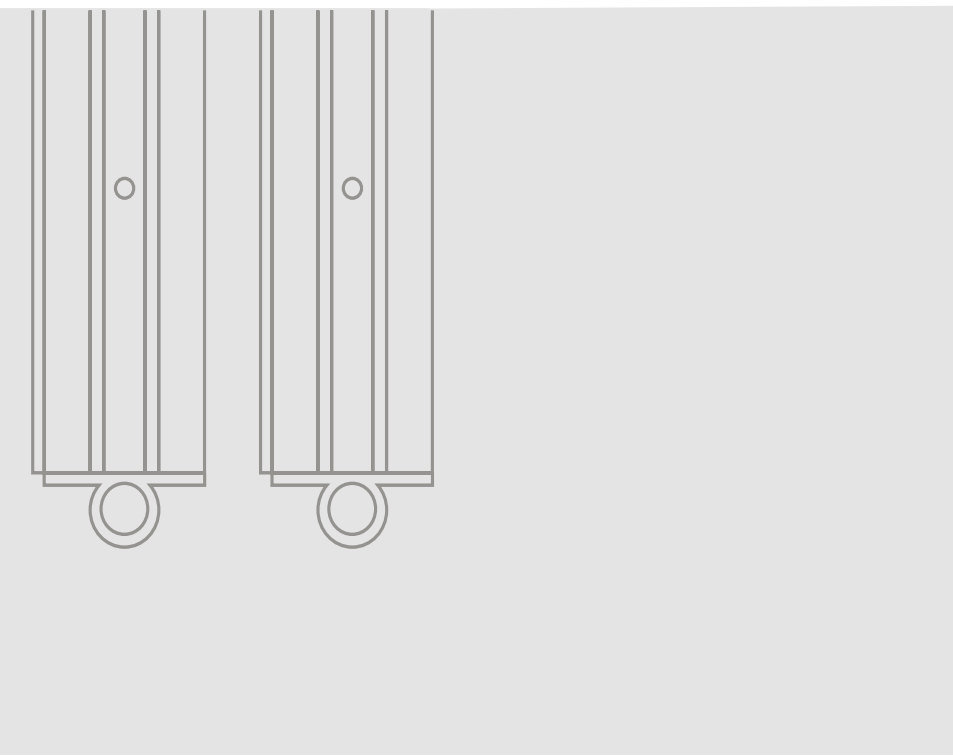


- HIGH COST EFFECTIVENESS
- LITTLE LOGISTIC EFFORT
- LOW COST
- NO INTERFERENCE ON THE ENVIRONMENT - MOBILITY
- FLEXIBILITY IN THE APPLICATION
- SAFETY

CONCLUSION

The HOWO-SYSTEC® MSV can be applied in manyfold situations, is available at any time, can be transported with little logistic effort and can be assembled quickly. Per element, the required time for the assembly is about 5 minutes. Nearly all surfaces are feasible. The maximum height of 5.20 meters is guaranteed.

HOWO-SYSTEC® MSV: Worldwide patent pending



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