

Installation Manual

MINI GUARD®

Containment levels T1,T2 and T3 according to EN 1317-2



Minimal Cost – Maximal Safety



General:

There is no statutory requirement to install safety fences, but they must not create additional dangers if they are used.

For loading, transport, installation and dismounting, the national safety requirements are to be followed.

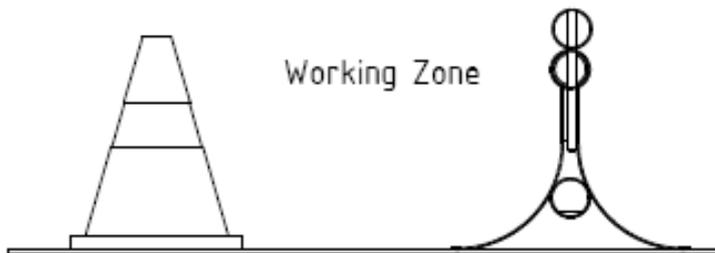
Installation Standards:

Only qualified and trained personnel are allowed to work with our products.

Knowledge of all relevant national safety guidelines when working on roads is required.

Working on a live carriageway:

If it is necessary to work on a live carriageway, an adequate safety zone is required between the working area and the live traffic lane. Safe installation or dismounting of Mini-Guard is not possible without providing such a safety zone. We recommend a working area of at least 0,5m between MINI-GUARD and the safety zone.



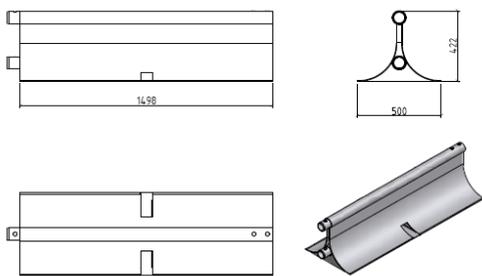
Product Information:

MINI-GUARD is a mobile steel safety barrier to protect and direct traffic flow in working zones.

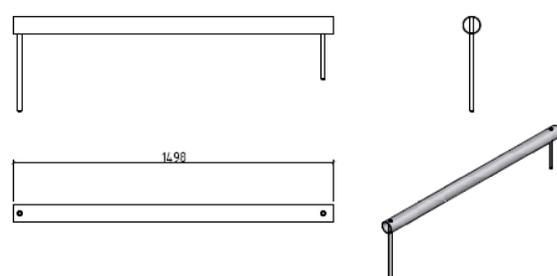
Mini-Guard consists of individual elements that are connected via connecting tubes. No nuts, bolts or other material are necessary.

Dimensions: length of element: 1500mm
 height of element: 500mm
 width at base: 500mm

base element



connecting tubes



weight per element: 48 Kg
weight per connecting tube: 12 Kg

The system is tested according to DIN EN 1317 and has successfully passed impact resistance levels T1, T2 and T3.

Due to the simple connecting system, a very high assembly rate is possible.

Mini-Guard is mainly employed for temporary direction of traffic in working zones.

The loading capacity of a standard trailer is 420m (280 elements) of Mini-Guard.

The Mini-Guard is packed in 8 packages of 21 elements each plus 8 packages of 14 elements each. One package of 14pcs is loaded on top of one package of 21pcs:



Unloading at site prior to assembly:

For full truck loads, the use of a forklift during the unloading is recommended.

Due to the low weight of the Mini-Guard elements, unloading by hand is possible. Two operators should hand down the elements from the truck, two other operators can position them directly at the intended place. Accordingly, the truck should be driven very close along the installation site, to minimize handling and installation time.

The construction must be anchored at the sloping end terminals by using two anchor pins 300mm per terminal.

Under ideal conditions, an installation crew of 4 workers can install about 1.000m of Mini-Guard.

The Mini-Guard elements are to be assembled by sliding the elements together. Then the connecting tubes are inserted from the top, locking the elements in place.

installation 1



installation 2



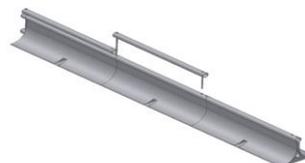
installation 3



installation 4



installation 4



The wooden beams, planks and pallets used for transporting Mini-Guard should be collected and put aside, so they can be used again after the construction zone is finished.

Risk Assessment:

Length of slings

We recommend to use slings only to protect the product. Length of the slings should be of the absolute minimum in order to give the load the proper angle. Too long slings mean a loss of time when positioning the hook.

Safety Zones for up- and unloading

The load must not swing into or over live carriageways. Adequate safety zones must be considered as part of the planning process.

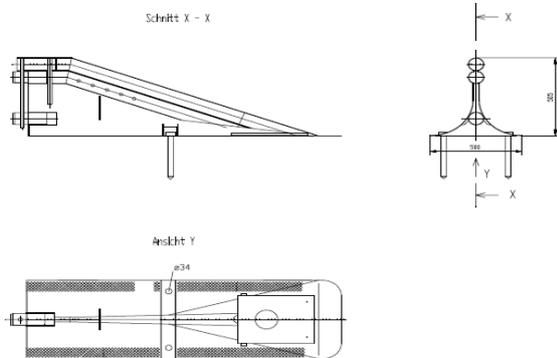
These tips are not intended to replace proper training of the installation personnel. They simply give some practical tips to facilitate the handling of our product.

Material:

- ladder (for safe access to topside of load)
- personal safety equipment:
 - gloves
 - helmet
 - steel toe-capped boots
 - reflective clothing
 - goggles
 - mask
 - ear protection

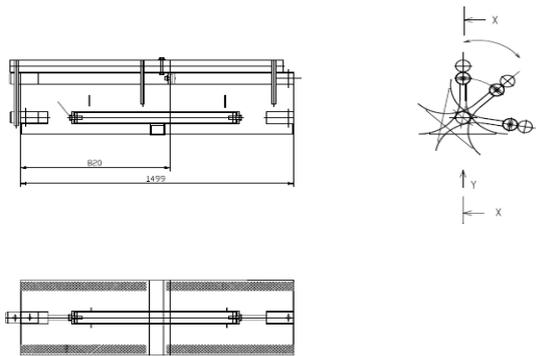
Installation of sloped start/end terminals with anchor pins:

There are two holes at the bottom of each end terminal. Two anchor pins of 30mm diameter and 300mm length must be driven into the carriageway through these holes. The anchor pins accept the forces that can be transferred into the construction in case of impact. Each anchor pin with a damaged head must be replaced.



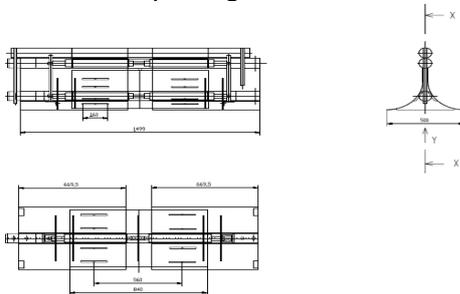
Pivoting Element:

If the construction is longer than 500m, it is recommended to install a tilting element every 250m.



Opening Element:

We offer an opening element for the use on expansion gaps of bridges or wherever required.



Checking the site prior to putting Mini-Guard into service:

Each connection must be checked to make sure that all connecting tubes are correctly positioned.

The construction must not be put into service before the end terminals are correctly installed and anchored.

Damaged elements must be replaced.

Repair of carriageway after anchoring Mini-Guard:

The holes left by the anchor pins must be properly sealed after dismounting.

MEISER Straßenausstattung GmbH

Edmund Meiser Str. 3

D-66839 Schmelz-Limbach

Tel +49 (0)6887 9590 100