

Technical Report No. 70068484

2004-04-28

Client: GETEK GmbH
Hajo-Rüter-Straße 14
D-65239 Hochheim/Main
Germany

Manufacturing location: see above

Test object: GETEK® Stainless Steel System railing, type "UNIVERSAL"

Test specifications: DIN EN ISO 14122-3:2002

Purpose of examination: Type test

Test result: The presented unit was found to meet the requirement of the test specification. The TÜV-Mark E20 (Type tested) may be awarded.

This report complement the technical report no. 033-90000894 dated on the 8th of April 1999.

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1 Description of the test subject

1.1 Function

Safety railing as permanent safety device against plunge down or against inadvertent admission to danger areas

1.2 Technical data

Safety railing as prefabricated assembly kit with tested fittings, optionally with possibility for the attachment of a toe board.

1.2.1 Parts of system

Rail system alternately consists of the following:

- Bottom flange no.: 45 Est 1 ¼"
- Bottom flange with Socket no.: 49 Est 1 ¼"
- Wall flange no.: 50 Est 1 ¼"
- 90° pipefitting no.: 130 Est 1 ¼"
- Plastic plug for rail end no.: 62P Est 1 ¼"
- Inner coupling : 70 Est 1 ¼"
- Pipe fitting with inner coupling Nr.: 132 Est 1 ¼"
- Pipe fitting no.: 136 Est 1 ¼"
- Wall console no.: 138 Est 1 ¼"
- Posts of types A, B, C, D, E, F, G or H
- toe board (as required)

As additional assembly available:

Self-closing railing door made of high rated steel 1¼". The door shutter will be bought as external part and branded as "FRIDAVO 15", stainless steel.

(The dowel joints for fixing the foot- / wall flange in the soil and the mounting material for the toe board is not contained in the scope of supply)

1.2.2 Dimensions and material

Pipes:

Dimensions: 1 ¼"
Material: 1.4301
Wall thickness: 1,9 mm

Toe plate (optional):

Minimum height is 100 mm

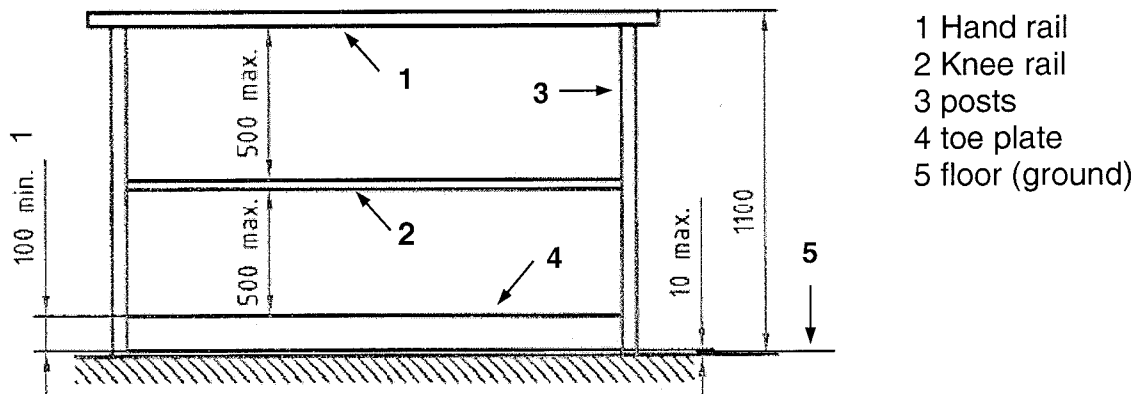
Flanges and pipe fittings:

Material: 1.4571: Part no. 45; 49; 50; 130; 70
Material: 1.4581: Part no. 136

1.2.3 Dimension of the railing system

The installed railing system must keep the dimensions which are represented in the illustration below.

Pic. 1: Measurements to be considered



1.2.4 Required torque

- Torque of M8x8 screws of the posts = 18 Nm
- Inner hexagonal cap screw M8x25 at the railing with pipe fittings, and to the rail posts = 26 Nm
- Grub screw M8x35 in the pipe bow = 18 Nm

2 Order

2.1 Date of Purchase Order

2004-03-17

2.2 Date of receipt of test subject:

2004-03-26

3 Points of non-compliance

no

4 Remarks:

This technical report complements the technical report 003-9000894. In the meantime the corresponding test specification GS-BE-19 was revised but the changes have no influence on the positive inspection results of the preceding test.

A detailed examination of the operating instructions in accordance with the DIN EN 62079 was not part of the order.

Summary:

The GETEK® Systemgeländer Typ UNIVERSAL „Edelstahl“ can become certified and the TÜV-Mark can be awarded if the following indications are kept:


1. Maximum distance between posts 1,8 m
2. The rail must have a height of 1,1 m
3. Admissible single load 1,25 kN
4. Admissible line load per meter 0,30 kN
5. Minimum pull out load of the flange connection is 20 kN based on a connection with steel dowel within concrete B25
6. A toe board have to be installed if latently danger exists by falling down parts.
7. The dimensions between hand rail/knee rail/toe board are corresponding to the requirements (see point 1.2.3)

Restriction on use:

The GETEK® System railing type UNIVERSAL is not suitable as limiting rail in the traffic sector of floor conveyance and road vehicles.

This technical report complements the report 033-9000894 from 08th of April 1999

TÜV Product Service GmbH


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