

Technical Information Sheet



FDT VarioGully drainage system

Delivery form	Item Number
1 pc. FDT VarioGully vertical DN 125 / DN 100	14 30 010
1 pc. FDT VarioGully angled DN 70 / DN 100	14 30 080
1 pc. FDT VarioGully warm roof extension 50-200 mm	14 30 210
<i>Note: For other FDT VarioGully products, please refer to the price list/product catalogue</i>	

Description

The FDT VarioGully is tested in accordance with EN 1253-2. The VarioGully is thermally insulated and made of impact-resistant PP (polypropylene). FDT VarioGully is also available in a heated version.

Preparation

Clean the installation area. Please note the size of the ceiling opening (see below)!

Application and processing

The VarioGully is available in both vertical and angled versions for warm and cold roof constructions. Warm roof extensions are available for warm roof constructions. All VarioGullies and warm roof extensions can be converted to emergency drainage with an emergency overflow drain connection piece. In renovation projects on third-party rainwater outlets, the VarioGully refurbishment roof drain outlet flange (item no. 14 30 510) can be used in conjunction with the VarioGully warm roof attachment, provided that additional thermal insulation of ≥ 50 mm is fitted. The inlet section of the existing outlet must have a diameter of at least 137 mm and no more than 210 mm.

Installation sequence:

- The ceiling opening for the VarioGully vertical must be $\varnothing 200$ mm, for the VarioGully angled DN 125: 200×280 mm or VarioGully angled DN 70/100: $200 \times 250/350$ mm.
- Fasten the VarioGully in the supporting ceiling (4 fasteners/outlet vertical, 3 fasteners/outlet angled).
- When waterproofing with Rhepanol hfk, fit a velcro ring (item no. 14 30 640) below the flange.
- Make sure that the oval sealing ring supplied is correctly positioned beneath the screw ring (to prevent backflow).

With roofing membrane Rhepanol hfk:

The outlet is installed together with the velcro ring, then the roofing membrane is rolled out over the VarioGully and cut out at least 1 cm around the screw ring in the inlet area. Next, slide the appropriate VarioGully collar (item no. 14 18 300 Rhepanol hfk/hg) onto the screw ring, screw the ring into the VarioGully and tighten it firmly using the screwing tool (item no. 14 30 620) (Torque the screw ring several times). The connection to the roofing membrane is made using a membrane collar by hot-air welding.

For Rhepanol hfk-bs, Rhepanol hg and Rhenofol CV/CG/CGv roofing membranes:

The roofing membrane is rolled out over the outlet recess and then cut out in a circular shape to fit the VarioGully or the VarioGully warm roof extension. The VarioGully or the VarioGully warm roof attachment is then installed. Next, slide the collar (item no. 14 18 300 Rhepanol hfk/hg or item no. 14 18 400 Rhenofol) onto the screw ring, screw the ring into the VarioGully and tighten it securely (retighten the screw ring several times). The connection to the roofing membrane is made using a membrane collar by hot-air welding.

For bitumen membranes:

The gully flange is placed on the underlay membrane heated with the burner and pressed on. The bitumen collar (item no. 14 18 510) is fitted to the VarioGully using the screw ring and welded to the underlay membrane. The top layer membrane is then rolled out and cut out approx. 2 cm around the FDT screw ring. The membrane is then rolled back and welded on.

More detailed information can be found on our website in the drainage manual.

Installation instructions are included in the delivery box.

Consumption

According to drainage calculation.

Properties

Drainage capacity FDT VarioGully vertical with leaf guard

Dam- ming height (mm)	DN 70	DN 70 with WRE	DN 70 with WRE and EOD	DN 100	DN 100 with WRE	DN 100 with WRE and EOD	DN 125	DN 125 with WRE	DN 125 with WRE and EOD	DN 150	DN 150 with WRE	DN 150 with WRE and EOD
15	2.30	2.50	2.60	2.30	2.30	2.60	2.20	2.20	2.50	2.30	2.50	2.60
20	3.20	3.50	3.55	3.15	3.30	3.50	3.05	3.05	3.45	3.10	3.50	3.70
25	4.10	4.50	4.50	4.00	4.30	4.40	3.90	3.90	4.40	3.90	4.50	4.80
30	5.50	6.00	5.75	5.45	5.75	5.80	5.40	5.45	5.80	5.40	5.90	6.05
35	6.90	7.50	7.00	6.90	7.20	7.20	6.90	7.00	7.20	6.90	7.30	7.30
40	8.05	8.85	8.05	8.05	8.40	8.40	8.05	8.30	8.40	8.10	8.65	8.45
45	9.20	10.20	9.10	9.20	9.60	9.60	9.20	9.60	9.60	9.30	10.00	9.60
50	10.50	11.10	10.40	10.65	10.75	11.30	10.45	11.10	11.35	10.65	11.25	11.00
55	11.80	12.00	11.70	12.10	11.90	13.00	11.70	12.60	13.10	12.00	12.50	12.40

Drainage capacity (l/sec)

Abbreviations: WRE = warm roof extension, EOD = FDT emergency overflow drain connection piece for FDT VarioGully

Drainage capacity FDT VarioGully vertical with leaf guard

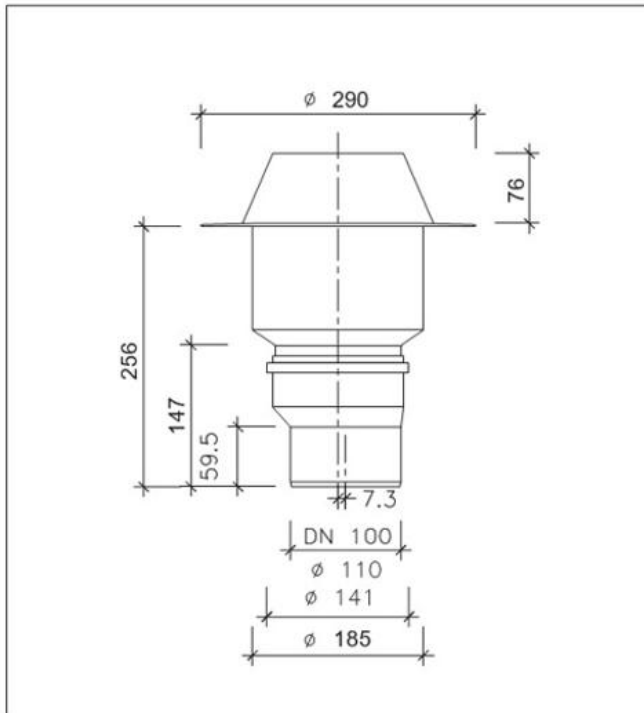
Dam- ming height (mm)	DN 70	DN 70 (free flow)	DN 70 with WRE	DN 70 with WRE (free flow)	DN 70 with WRE and EOD	DN 70 with EOD (free flow)	DN 100	DN 100 with WRE	DN 100 with WRE and EOD	DN 125	DN 125 with WRE	DN 125 with WRE and EOD
15	2.30	2.50	2.70	2.70	2.60	2.90	2.00	2.30	2.70	2.30	2.40	2.40
20	2.70	3.15	3.50	3.50	3.55	3.75	2.90	3.20	3.80	3.25	3.40	3.40
25	3.10	3.80	4.30	4.30	4.50	4.60	3.80	4.10	4.90	4.20	4.40	4.40
30	4.55	4.15	5.85	4.45	5.75	5.30	4.50	5.05	5.90	5.50	5.80	5.80
35	6.00	4.50	7.40	4.60	7.00	6.00	5.20	6.00	6.90	6.80	7.20	7.20
40	7.00	4.60	8.70	4.75	8.05	6.15	5.30	6.10	7.05	7.95	8.40	8.20
45	8.00	4.70	10.00	4.90	9.10	6.30	5.40	6.20	7.20	9.10	9.60	9.20
50	-	4.85	11.15	4.95	10.40	6.45	-	-	-	10.80	11.05	10.90
55	-	5.00	12.30	5.00	11.70	6.60	-	-	-	12.50	12.50	12.60

Drainage capacity in (l/s)

Abbreviations: WRE = warm roof extension, EOD = emergency overflow drain connection piece

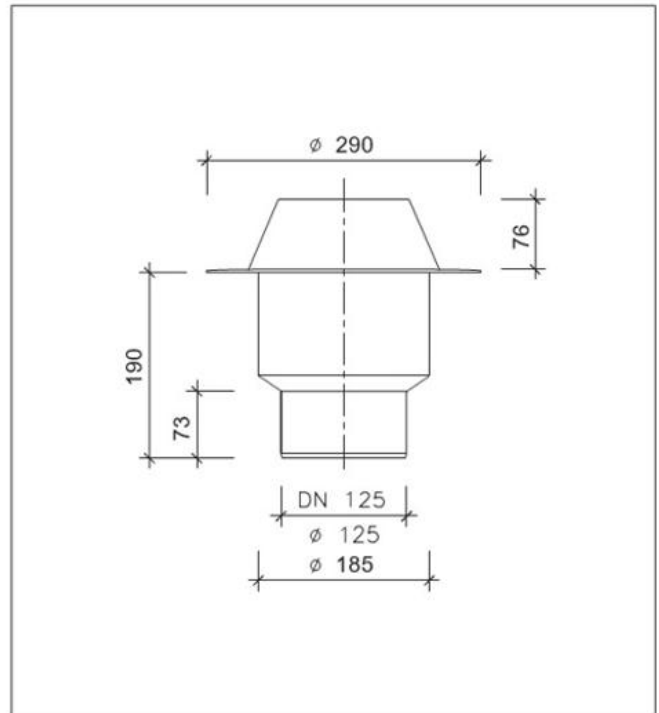
Dimensions of the FDT VarioGullys (Dimensions in mm)

FDT VarioGully vertical, DN 100



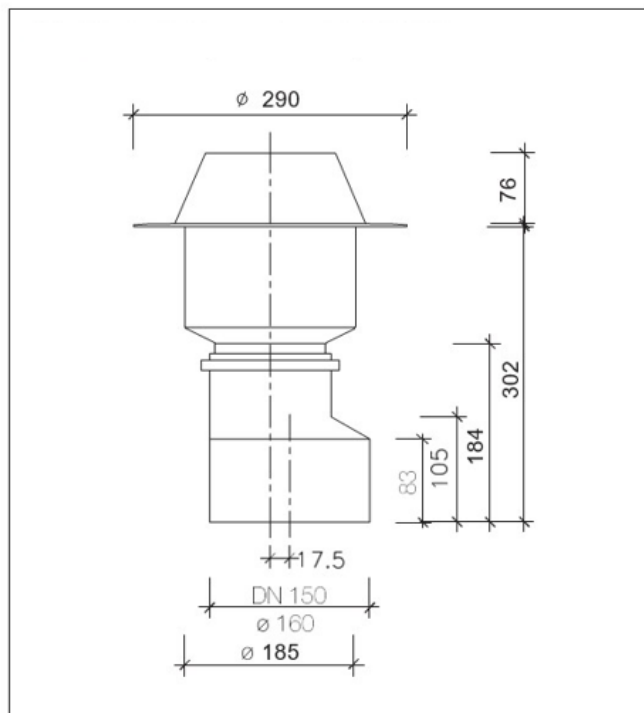
Ceiling opening Ø 200 mm

FDT VarioGully vertical, DN 125



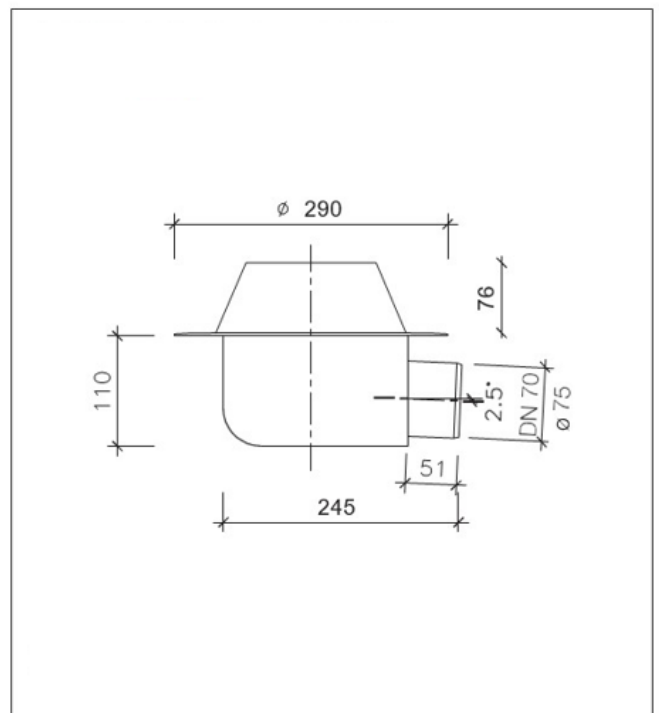
Ceiling opening Ø 200 mm

FDT VarioGully vertical, DN 150



Ceiling opening Ø 200 mm

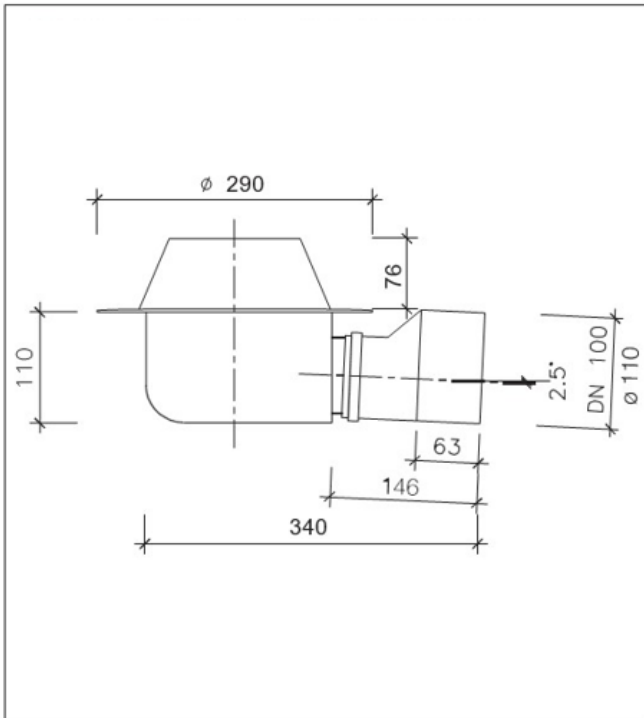
FDT VarioGully angled, DN 70



Ceiling opening Ø 200 x 250 mm

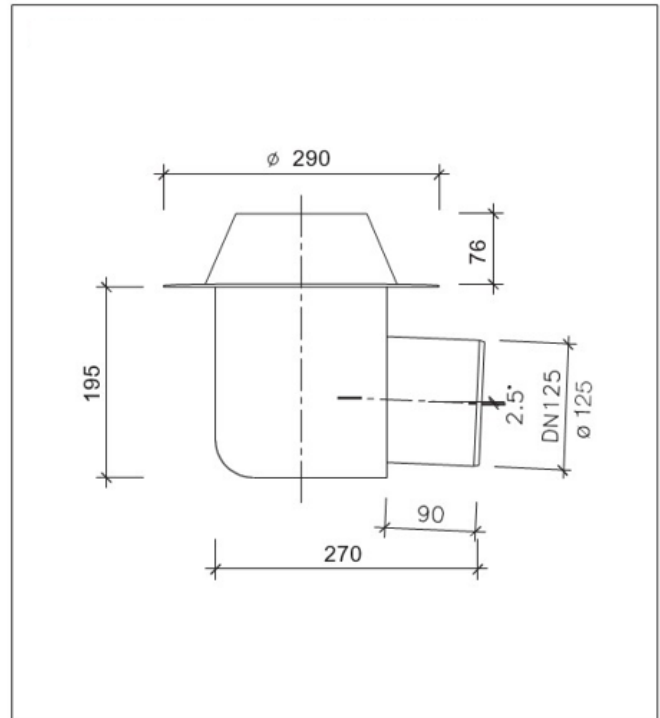
Dimensions of the FDT VarioGullys (Dimensions in mm)

FDT VarioGully angled, DN 100



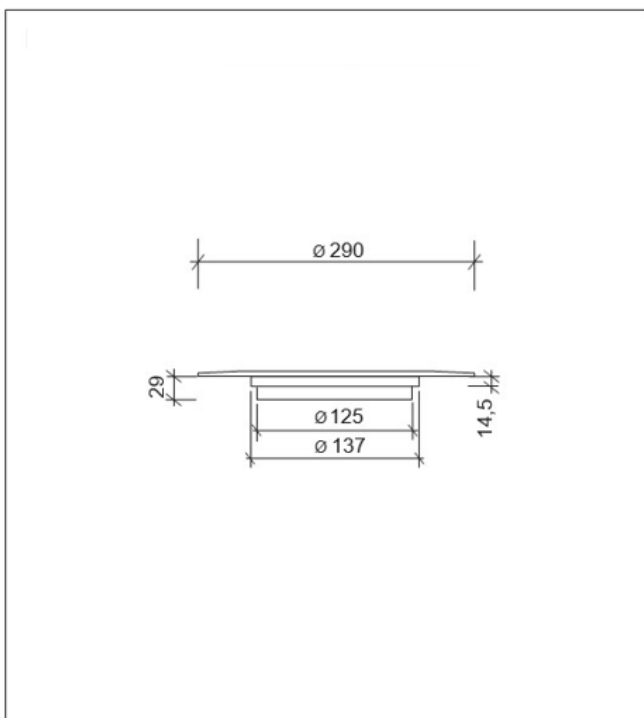
Ceiling opening Ø 200 x 350 mm

FDT VarioGully angled, DN 125

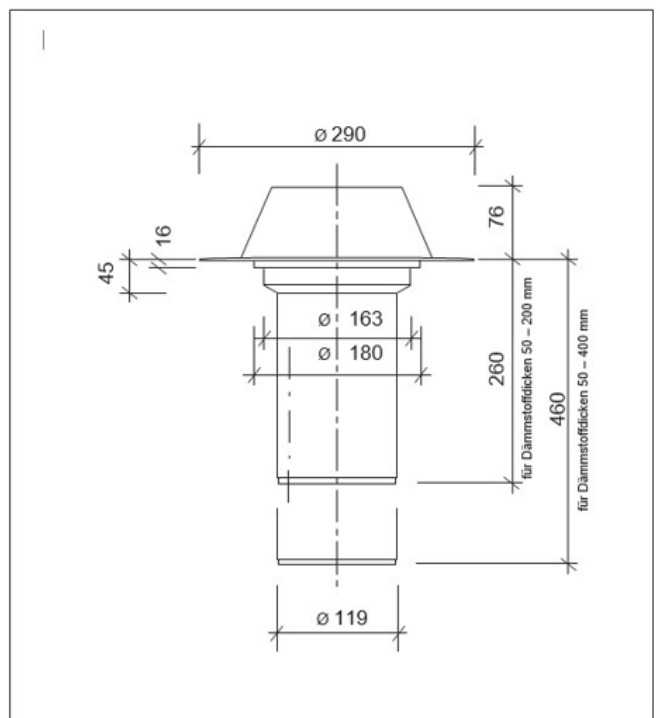


Ceiling opening Ø 200 x 280 mm

FDT VarioGully refurbishment roof drain outlet flange



FDT VarioGully warm roof attachment



FDT collars for FDT VarioGully

Rhepanol hfk/hfk-bs/hg (Exterior-Ø 400 mm).
The velcro ring must be ordered separately for Rhepanol hfk.
Rhenofol (outer-Ø 400 mm) and Bitumen (outer-Ø 500 mm) The inner Ø is 155 mm, designed to fit the screw ring.



FDT emergency overflow drain connection piece for FDT VarioGully

Enables all FDT VarioGully units to be easily converted for use as an emergency overflow. The standard damming height is 50 mm or 110 mm and can be adjusted continuously to the desired damming height. The damming height at emergency overflow drain connection piece is at least 20 mm due to the system.



FDT VarioGully refurbishment roof drain outlet flange

- The inlet section of the existing outlet must have a diameter of at least 137 mm and no more than 210 mm.
- Existing membranes or collars must be securely attached to the existing outlet and be leak-proof.
- The top of the existing outlet must be dry and free of dust or loose debris.
- Apply sealing cord to the underside of the flange on the FDT VarioGully refurbishment roof drain outlet flange, within the fixing holes (Ø 220 mm).
- Secure the FDT VarioGully refurbishment roof drain outlet flange to the existing outlet flange using the six screws.
- Due to the geometry of the FDT warm roof extension, an additional layer of thermal insulation must be provided with a minimum thickness of 50 mm.

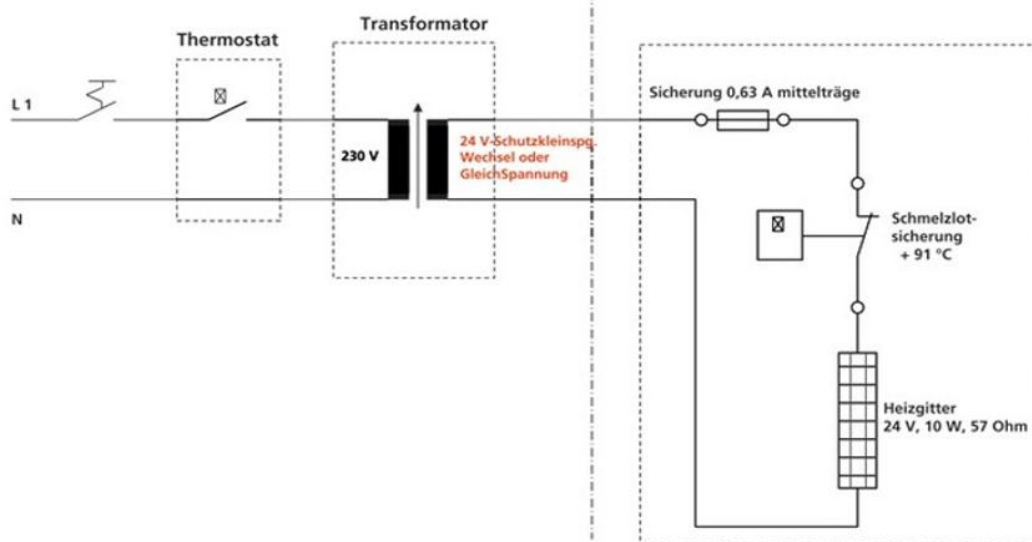


Circuit diagrams for the FDT VarioGully heated. Suggestions for execution.

Simple circuit: On/Off

to be provided by the customer

FDT scope of delivery:
FDT VarioGully (heated), vertical or angled
with a connection cable approx. 0.55 m long



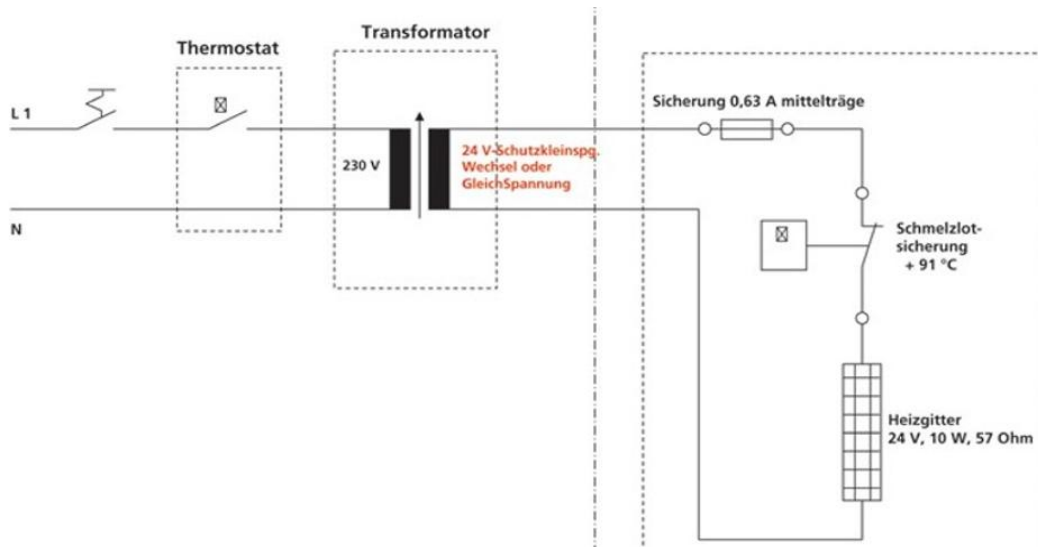
Please note:

The connection must only be carried out by a qualified electrician!

Circuit with thermostat:

to be provided by the customer

Scope of delivery for FDT:
FDT VarioGully (heated), vertical or angled
connection cable approx. 0.55 m long



Please note:

The connection must only be carried out by a qualified electrician!

Consumption

The quantities required for each project must be determined by means of a drainage calculation.

Storage

Keep dry in its original packaging.

Shelf life

Unlimited, provided it is stored correctly.

Packaging and disposal

Disposal codes/Waste code: 17 02 03 (plastics)

Precautions and health and safety

General safety regulations must be observed.

Transport

General safety regulations must be observed.

Please note: As our products are constantly evolving, please contact our technical department or visit www.fdt.de for the latest information on our products.

Legal Notice:

We refer emphatically to the fact, that all details mentioned, especially the application and utilization recommendation for the products and their system accessories, have been developed under normal conditions, and based on our knowledge and experience. Appropriate storage and usage of the products are assumed. A warranty or reliability of a finished project cannot be deduced because of varying materials, substrates and differing work conditions, neither by any indications nor from verbal statements, irrespective of any legal positions. For the possible accusation that FDT acted intentionally or grossly negligent, the user has to supply evidence that they provided FDT with all information and details necessary for an appropriate and correct evaluation through FDT in written form, immediately available and complete. The user is responsible for ensuring that the products are suitable for the given application. It is FDT's right to change product specifications without notice. Property rights of third parties are to be considered. In addition, our particular sales and delivery terms are valid. The latest version of our product data sheet is obligatory, which can be requested directly through FDT. All information as well as all technical and drawing data comply with current technical standards and are based on our experience. National standards and regulations must be observed.

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