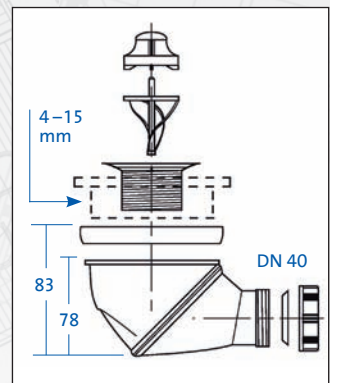
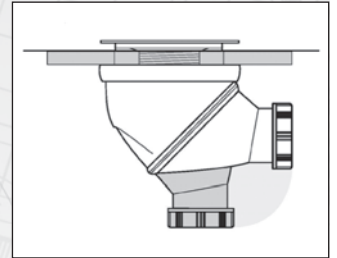


TI-DRAIN

1/2

Precision surface drainage

DURAL



APPLICATION:

Dural's TI-DRAIN floor drainage system for tiling directly is used for precision surface drainage wherever floor coverings require additional standard-compliant floor drainage due to their exposure to wet conditions.

TI-DRAIN is normally used in interiors such as bathrooms and shower rooms, public toilets and changing rooms, laundry rooms, various types of workrooms and basement rooms, as well as workshops, store rooms and stock rooms. If TI-DRAIN is used outdoors, the user must ensure that the quantity of water to be drained is compatible with the TI-DRAIN drain outlet and that the drain outlet casing is protected against potential damage due to frost.

MATERIAL:

The TI-DRAIN floor drainage system is made of highly compressed, 20 mm thick EPS measuring 220 x 220 mm. It has an integrated composite sealing membrane and a sealed-in flange ring recessed into the centre to accommodate the floor drain outlet casing. The floor drain is made of tough PP plastic with a 50 mm high anti-odour seal. The lower section of the drain casing is 360° rotatable, which makes it suitable for both horizontal and vertical connection. The drainage system is rounded off with additional components such as a rubber seal, conical O-ring, threaded ring, screw-on flange, strainer, rosette, screw-in grate holder, perforated V2A stainless steel drain cover grate and a plastic fixing aid for anchoring the screw-on flange.

The substrate element measuring 215 x 215 x 80 mm which belongs to the TI-DRAIN is also made of EPS and comes with a ready-made recess for the floor drain and pipe.

HANDLING:

Depending upon the installation position dictated by the structural conditions for the TI-DRAIN element, the substrate element must first be aligned horizontally and then cemented to the substrate with C2 TF thin-bed mortar according to DIN EN 12004, taking into account the overall height required. The floor drain is then pressed down into the substrate element and connected to the building's drainage pipe. The DN 40 outlet of the floor drain must be connected with a DN 40/DN 50 reducer using an O-ring and a screw coupling to make it watertight. Before fitting

DURAL GmbH & Co. KG

Südring 11

D-56412 Ruppach-Goldhausen

Tel. +49 (0) 2602/9261-0

Fax +49 (0) 2602/9261-50

welcome@dural.de

Precision surface drainage

the TI-DRAIN board, the white ribbed rubber seal must be inserted. After this, the tileable board element can be cemented to the substrate element. Ensure that the round hole in the board fits exactly over the round hole of the ribbed rubber seal.

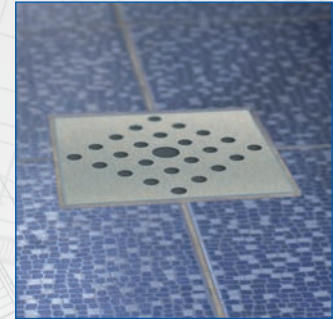
The TI-DRAIN board and the floor drain are joined together with a screw-on flange to make a secure and watertight connection. The plastic locking strap supplied must be used to tighten the screw-on flange. To complete the drainage system, the strainer is inserted with the rosette and the grate holder is screwed in with the stainless steel grate. The floor drain must be protected against contamination and blockages during all installation work. Depending on the thickness of the tiles used, the grate holder must be screwed down or up to a height of between 4 mm and 15 mm.

Alternatively to the installation method described above, it is also possible to first connect the floor drain to the board, and then cement it to the substrate element. When assembling the floor drain, ensure that this is additionally held in place with mortar or tile adhesive. Appropriate soundproofing measures must be taken if the drainage system has to meet sound insulation requirements.

During installation of the TI-DRAIN, the 7 cm overlapping sealing membrane is cemented to the substrate over its entire surface using a C2 thin-bed mortar according to DIN EN 12004. According to recognised technical practice, the entire floor must be sealed whenever floor drainage is installed. Our DURABASE-WP sealing membrane, which is approved by building authorities, must be used together with all foil moulded components.

Cleaning and care:

TI-DRAIN does not normally require any special care, since the majority of components are located in the floor structure. Only the stainless steel grate requires to be cleaned during normal maintenance cleaning. It is possible to use all commercially available cleaning agents, provided that they are approved for use on stainless steel. The use of cleaning agents containing hydrochloric acid or hydrofluoric acid should be avoided. To guarantee that the TI-DRAIN board retains its consistent drainage capacity in the long term, the fluff strainer in the drain must be inspected and cleaned at regular intervals.



PRODUCT DATA:

DRAINAGE SYSTEM:	For horizontal and vertical use / 360° rotatable
MATERIAL (Drain):	Polypropylene (PP)
DRAINAGE CAPACITY:	Horizontal = approx. 43 l/min. / vertical = approx. 52 l/min.
HEIGHT DRAIN OUTLET:	83 mm
GRATE HOLDER:	105 x 105 mm, (plastic / height-adjustable 4-15 mm)
DRAIN COVER GRATE:	Stainless steel V2A
ANTI-ODOUR SEAL HEIGHT:	50 mm
OVERALL HEIGHT:	105 mm
DRAIN PIPE OUTLET:	DN 40
MATERIAL (Board):	Expanded polystyrene (EPS / 60 kg / m ³)
BOARD SIZE:	220 x 220 x 20 mm
SEALING MEMBRANE:	Polyethylene / polypropylene
SEALING MEMBRANE SIZE:	360 x 360 mm
MATERIAL (Substrate element):	Expanded polystyrene (EPS / 35 kg / m ³)

DURAL GmbH & Co. KG
 Südring 11
 D-56412 Ruppach-Goldhausen
 Tel. +49 (0) 2602/9261-0
 Fax +49 (0) 2602/9261-50
 welcome@dural.de