DELTA®-GEO-DRAIN

A new dimension of safety for thick waterproof coatings.

The first compact four-ply drainage sheet on the market. Patent-protected.
Double drainage at a stroke?
DELTA® means perfect foundation protection!

For draining off water before it reaches the waterproof coating:

DELTA®-GEO-DRAIN
High compressive strength. Am

■ DELTA®-GEO-DRAIN Quattro
This unique protection and drainage system offers maximum safety for thick viscoplastic coatings. This holds true even if driving rain is able to penetrate through an imperfectly installed upper edge trim.

In an absolutely watertight system, such rainwater would exert hydrostatic pressure on the waterproof coating. However, the micro-perforated slip film which, together with the additional filter cloth, acts as a backup drainage layer behind the dimpled sheet ensures that any water is drained off safely. In addition, the slip film prevents the transmission of movement to the waterproof coating.

■ DELTA®-Accessories
Why not use the advantages of the comprehensive range of DELTA® accessories: DELTA®-GEO-DRAIN CLIP, DELTA®-N OPPENBAHNEN-PROFIL, DELTA®-HAFTNAGEL and DELTA®-MS DÜBEL.

DELTA® quality branded products
Made by Dörken.
N Quattro

ample safety margin. Easy application.

DELTA®-GEO-DRAIN Quattro ...

- … being a four-ply material, is a compact unit that can be applied swiftly straight off the roll without any need for special grade backfill.
- … keeps water from accumulating between the thick coating and the slip film, effectively preventing the buildup of water pressure on the waterproof coating.
- … features ample safety margins for sheet movements as well as improved slip performance.
- … offers high resistance to compression thanks to its special dimple design.
- … incorporates an additional damping membrane.
- … dependably drains off any seepage, surface water, and wall runoff.
- … features outstanding drainage capacity for handling unusually large quantities of water.
- … complies with the requirements of DIN 18195, DIN 4095, and the “Guideline for Planning and Executing Thick Waterproof Coatings”.
- … effectively drains off methane and radon gas.
- … is absolutely rot-proof thanks to its material additives.
- … is patent-protected.
- … can be installed at depths of up to 10 m.

Here are the benefits of the DELTA®-system.

Layer one: Micro-perforated slip film. This sheet distributes permanent soil pressure. Its micro-perforation allows any water penetrating between the waterproofing and the slip film to escape into the laminated drainage layer.

Layer two: Laminated cloth. This cloth absorbs impacts and serves as a backup drainage layer. Even water coming in through an imperfectly mounted edge-sealing strip will be safely drained off.

Layer three: Dimpled sheet with self-sealing edge. The dimples that face towards the soil create a maximum-capacity drainage layer that covers the entire surface.

Layer four: Permanent-filtration geotextile. Fused to the dimpled sheet, this filter cloth reliably keeps the dimple structure from clogging up.

Needless to say, we have a range of perfect accessories. For full details about the DELTA®-system, consult our DELTA®-System Guides.
DELTA®-GEO-DRAIN Quattro

Technical Data Overview:
- Dimpled sheet material: High-density polyethylene
- Geotextile material: Polypropylene
- Dimple height: approx. 9 mm
- Compressive strength: approx. 400 kN/m²
- Air gap between dimples: approx. 7.9 l/m²
- Service temperature range: -30 °C to +80 °C
- Roll size: 12.5 m by 2 m
- Geo-composite for application in drainage systems: D + F

DELTA®-NOPPENBAHNEN-PROFIL
Edge sealing strip.

DELTA®-HAFTNAGEL
Self-adhesive pin aids installation.

DELTA®-MS DÜBEL
Plastic wall plug for sheet attachment.

DELTA®-GEO-DRAIN CLIP
Installation clip for swift and easy fastening.

DELTA® Accessories for DELTA®-GEO DRAIN Quattro.

Dörken makes your life easier – systematically.
You are sure to appreciate these handy DELTA® accessories:

DELTA® System ...
... for owners:
“... What I get is a mature problem solution provided at a fair price by a top specialist in quality branded products!”

... for workers:
“... What I get is a complete system made by a single manufacturer that enables me to do anything to the owner’s entire satisfaction. There is no safer way!”

... for planners:
“... I can be certain that both innovative and standard products will be used in implementing my roof and cellar plans in a systematic and forward-looking way.”

DELTA MEMBRANE SYSTEMS LTD.
Delta House, Merlin Way
North Weald, Epping, Essex CM16 6HR
Telephone: 01992 523523
Telefax: 01992 523250
www.deltamembranes.com
info@deltamembranes.com

A company of the Dörken Group.