

DELTA<sup>®</sup> protects property. Saves energy. Creates comfort.

PREMIUM QUALITY

# DELTA<sup>®</sup>-TERRAXX

Keeps cellars permanently warm and dry

## All-round protection and high-performance drainage.

Certified according to DIN 4095.  
Permanently dry cellars.  
No more trouble – ever again.



- Protection and drainage system
- For all compression-resistant waterproof coatings
- For vertical application in building construction

**A universal solution for perimeter insulation and compression-resistant surfaces? DELTA®System – what else?**



**■ DELTA®-TERRAXX**

DIN 4095 rules that all foundations equipped with drainage pipes must be fitted with a surface drainage system. DELTA®-TERRAXX ensures full compliance with the requirements of this standard. When applied to pressure-resistant structures or waterproof coatings that transmit forces such as, for instance, perimeter insulation boards, rigid or flexible sealing slurries, water-impermeable concrete, or cold-setting self-adhesive waterproofing sheets, the special DELTA®-TERRAXX protection and drainage system offers a maximum of safety for your cellar walls.

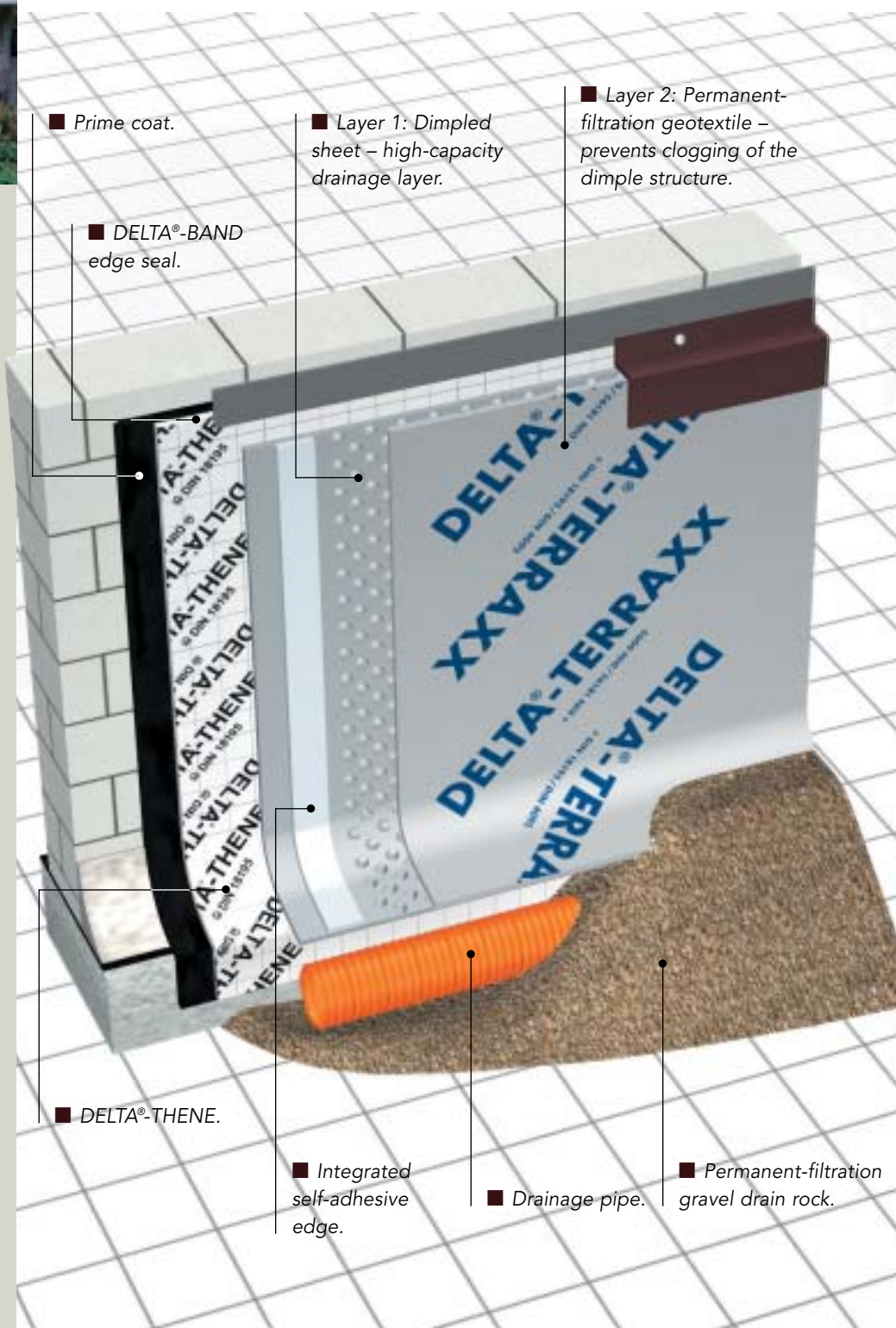
**■ DELTA®-THENE**

This cold-setting self-adhesive waterproofing sheet is easy to install straight from the roll. No surface unevenness, no variations in coating thickness. The external sheet made of special HDPE guarantees immediate protection from damp as well as permanent high-quality waterproofing.

**Water is a danger for foundations and houses:**

# DELTA®-TERRAXX

## Guaranteed Permanent Protection



■ Prime coat.

■ Layer 1: Dimpled sheet – high-capacity drainage layer.

■ Layer 2: Permanent-filtration geotextile – prevents clogging of the dimple structure.

■ DELTA®-BAND edge seal.

■ DELTA®-THENE.

■ Integrated self-adhesive edge.

■ Drainage pipe.

■ Permanent-filtration gravel drain rock.

PREMIUM QUALITY



NOPPENBAHNEN-PROFIL with DELTA®-GEO-DRAIN CLIP.

Maximum security when installed on perimeter insulation boards.

Integral system composed of dimpled sheet and geotextile.

# ction. Reliable Drainage.

## DELTA®-TERRAXX ...

- ... guarantees universal protection from hydrostatic water pressure, seepage, and artesian water as per DIN 18195 when applied as a second waterproof layer on cellar waterproof sealings.
- ... conforms to DIN 4095. Guarantees permanent filtration drainage.
- ... protects perimeter insulation boards from moisture, safeguards insulation performance, and effectively separates the perimeter insulation from the soil.
- ... has less emissivity and, consequently, enhanced heat transmission resistance due to its silver surface.
- ... prevents construction physics problems in buildings made of waterproof concrete.
- ... reliably drains off methane and radon gas.
- ... can be installed swiftly straight from the roll without additional excavation work thanks to its two-ply structure.
- ... is 2.40 m wide, which fits the height of most cellars. Sheets may be installed transversally, which speeds up the process by as much as 50 %.
- ... has self-adhesive overlapping edges.
- ... is absolutely rot-proof and free of any recycled material.
- ... may be installed at depths of up to 10 m because of its high compressive strength.
- ... may be used even in extremely wet environments because of its large drainage capacity.



DELTA®-TERRAXX offers permanent-filtration draining.



## Here are the benefits of the DELTA® system:

### DELTA®-TERRAXX ...

... features a dimpled sheet which acts as a surface drainage layer. Laminated on to the dimpled sheet, a layer of compression-resistant permanent-filtration geotextile prevents the dimple structure from being clogged up by sludge, thus guaranteeing optimum drainage in the long run.

### DELTA®-THENE ...

... may be used for damp proofing outside and inside surfaces. Imprinted with a unique grid pattern, DELTA®-THENE can be cut to size easily and precisely. DELTA®-THENE may be installed at temperatures as low as -5 °C in combination with its special low-temperature primer.

Needless to say, we have a range of perfect accessories, of which you find additional information on the next page.

# DELTA®-TERRAXX

## Technical Data Overview:

Dimpled sheet material	High-density polyethylene
Geotextile material	Polypropylene
Dimple height	9 mm approx.
Compressive strength	400 kN/m <sup>2</sup> approx.
Air gap between dimples	7.9 l/m <sup>2</sup> approx.
Service temperature range	-30 °C to +80 °C
Roll size	12.5 m x 2.4 m
Geo-composite for application in drainage systems	D + F
Tensile strength	MD 6 kN/m/CMD 6 kN/m (EN 10319)
Dynamic perforation	40 mm (EN 918)
Characteristic opening size	150 µm (EN ISO 12956)
Water permeability	8 · 10 <sup>2</sup> m/s (EN ISO 11058)
Water flow capacity in the plane	3.1 · 10 <sup>3</sup> m <sup>2</sup> /s (EN ISO 12958) at 20 kN/m <sup>2</sup>
Durability	To be covered within 2 weeks after installation. Will endure for 25 years in natural soil having a pH value between 4 and 9 and a soil temperature of 25 °C max.

# DELTA®-Accessories for DELTA®-TERRAXX.

Dörken makes your life easier – systematically.

You are sure to appreciate these handy DELTA®-Accessories:



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



**DELTA®-NOPPEN-BAHNEN-PROFIL**  
Edge-sealing strip.



**DELTA®-TERRAXX-PROFIL**  
Edge-sealing strip for use with perimeter insulation boards. Patent pending.



**DELTA®-TERRAXX-SCHRAUBE**  
For safely attaching DELTA®-TERRAXX to perimeter insulation boards: Patent-protected.

DELTA® is a registered trademark of Ewald Dörken AG, Herdecke, Germany.

# DELTA®



### 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."

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**A company of the Dörken Group.**

#### ■ Standard requests for tender

for all DELTA®-products may be obtained from [www.doerken.de](http://www.doerken.de) or on a **free CD-ROM**. **Detailed installation instructions** for all DELTA®-products are available on the internet as PDF files for you to print out and save.

