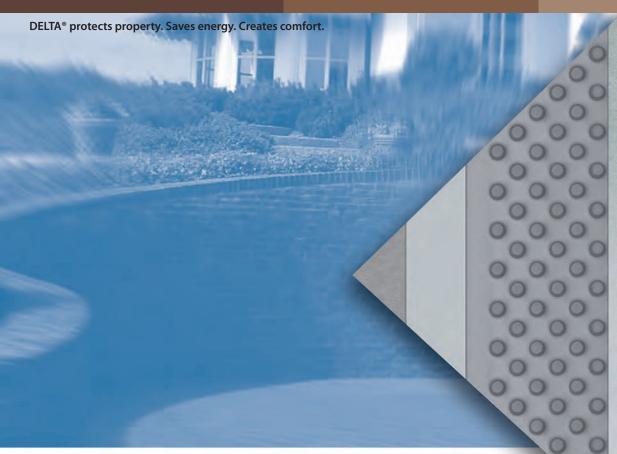
DELTA[®] System



DELTA®-TERRAXX

A powerful foundation for vertical and horizontal substrates.

Efficient protection and drainage system for basements and flat roofs. Certified under EN 13252, DIN 4095, and DIN 18195.



- Protection and drainage system
- For compressionresistant substrates
- For horizontal and vertical applications in building construction

The all-round solution for flat roofs and basement-walls? DELTA®-System, of course.



■ DELTA®-TERRAXX

A highly efficient protection and drainage system, DELTA®-TERRAXX is an all-round solution for horizontal and vertical applications on compression-resistant substrates. With its fused-on geotextile and integrated self-sealing edge, this dimpled sheet provides perfect surface drainage.

■ Horizontal applications

With DELTA®-TERRAXX, large flat roofs or ceilings of buildings and underground car parks may be utilised meaningfully and sustainably. Ideal as playgrounds, leisure facilities, or additional parking space, these areas may also be turned partially or entirely into garden roofs.

■ Vertical applications

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

2-ply sheet offering certified safety:

DELTA®-TERRAXX Safe foundation and reliable dr

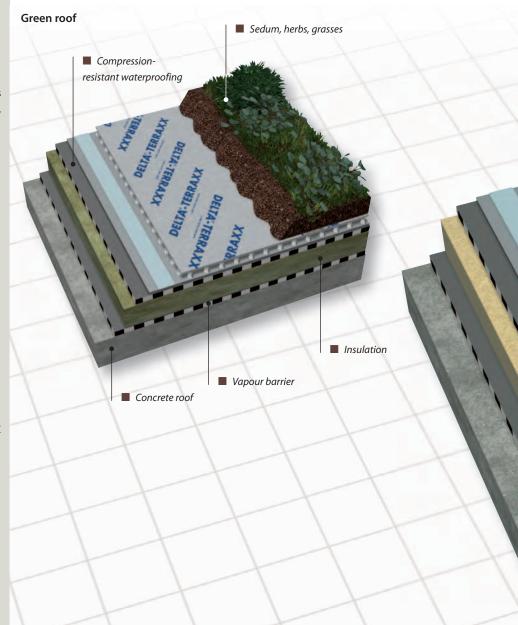
DELTA®-TERRAXX

for herbaceous roofs

In extensively planted roofs, the 2-ply DELTA®-TERRAXX sheet assumes the functions of a protection, filtration, and seepage layer: forming an extremely robust protection and drainage layer, it effectively prevents water from accumulating. Its water drainage capacity is markedly greater than that of a gravel or chip bed. Its smooth back ensures that loads are distributed evenly across

the entire surface of the waterproofing. As it is compatible with all commercial waterproofing sheets, no additional protective layer is needed. With an add-on height of no more than 9 mm, the sheet keeps the total covering height to a minimum

Moreover, DELTA®-TERRAXX is also for intensively planted roofs which, being thickly covered with soil, do not need an extra water reservoir but do need high drainage capacity.



DELTA®-Quality branded products made by Dörken.

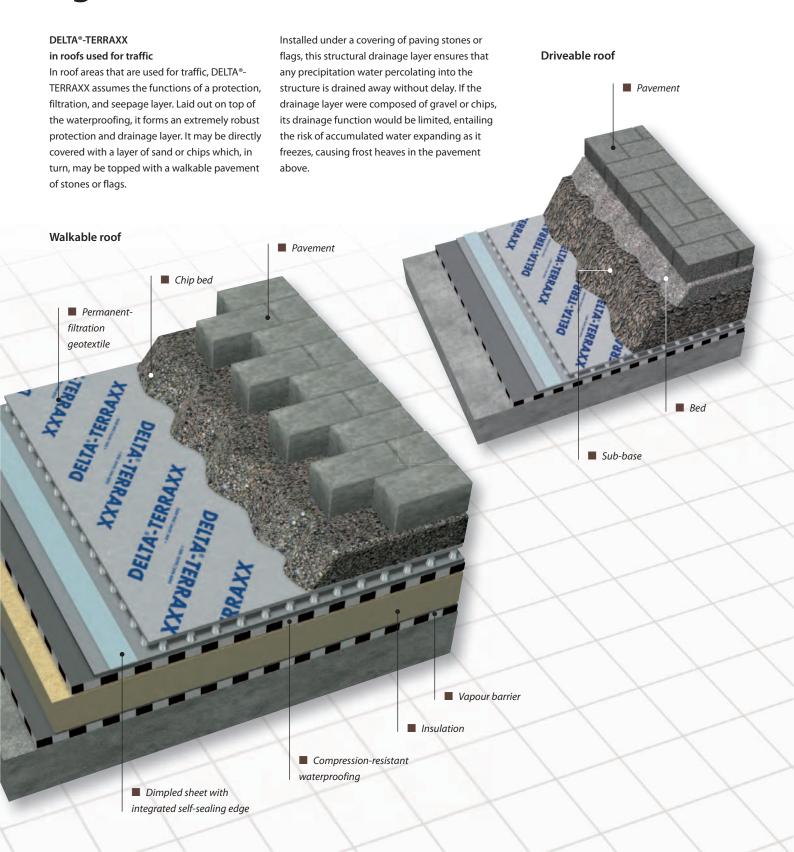


Planting soil may be applied directly.

High drainage capacity for intensive green roofs.

Sub-base being applied on top of DELTA®-TERRAXX.

ainage for flat roofs.





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

Permanent-filtration drainage

Dimpled sheet and geotextile as a compact unit.

DELTA®-TERRAXX

Reliable protection for basement-walls.

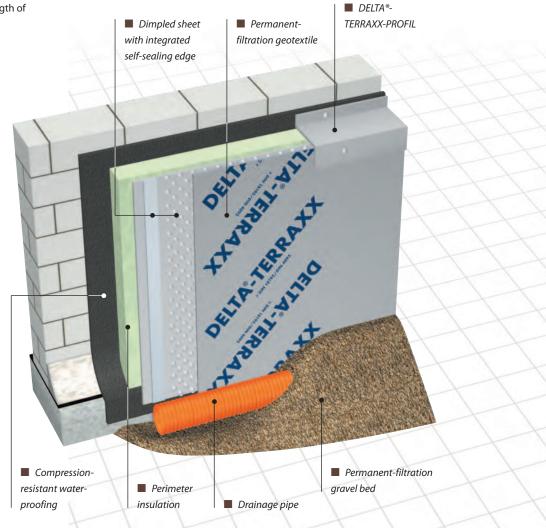
DELTA®-TERRAXX

on vertical waterproofing

For basement-walls, DELTA®-TERRAXX guarantees maximum safety from impounded, seepage, and fissure water. Facing the soil, its dimples form a structural drainage layer; the sheet exceeds the requirements of DIN 4095. The fused-on geotextile keeps the dimple structure from silting up. DELTA®-TERRAXX features the outstanding drainage capacity of 3.1 l/s \cdot m under a load of 20 kN/m² plus emergency reserves. Thanks to its width of 2.40 m, it may be wound around most basements. Applied to perimeter boards, the sheet acts as a buffer between the insulation and the soil. It may be installed at depths of up to 10 m because of its outstanding compressive strength of approx. 400 kN/m².











An ideal foundation for walkable roofs

Gives a boost to basements.

DELTA®-TERRAXX

Universal solutions for buildings.

Horizontal applications

- Perfect drainage for green roofs, parking decks, walkways, flag pavements, gravelled flat roofs, and foundations slabs.
- Permanent-filtration geotextile keeps the dimple structure from silting up.
- Water drainage capacity greater than that of a gravel/chip bed.
- High compressive strength of 400 kN/m².
- Safe for drinking water and proof against mechanical damage.
- Integrated sealing edge for easier laying.

Vertical applications

- Offers universal protection in conformance with DIN 18195 as a water-impermeable jacket for basement waterproofings in all load cases involving impounded, fissure, or seepage water.
- Protects basement-wall waterproofings and perimeter insulation boards from moisture, thus safeguarding their insulation performance.
- Reliably drains off methane gas and radon.
- May be installed at depths of up to 10 m, even in extremely wet environments.
- Absolutely rotproof and free from recycled material.
- May be installed swiftly and cost-efficiently without any additional excavation work.





Laying is easy and cost-efficient.



Perfectly protects basement-walls.

Why not profit from the DELTA®-System?

In horizontal applications: DELTA®-DRAINAGEVLIES ...

... serves as a separation and filtration cloth in the construction of pathways and terraces. DELTA®-DRAINAGEVLIES safeguards the filtration function of structural drainage systems. May also be used to stop weeds.

In vertical applications: DELTA®-THENE ...

... may be used for damp-proofing both out-doors and indoors. Imprinted with a unique grid pattern, DELTA®-THENE can be cut to size easily and precisely. When DELTA®-THENE-KÄLTEGRUNDANSTRICH is used, it may be installed at temperatures as low as - 5 °C.

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	approx. 9 mm
Compressive strength	approx. 400 kN/m ²
Air gap	approx. 7.9 l/m ²
Service temperature range	- 30 °C to + 8 °C
Tensile strength	MD 6 kN/m/CMD 6 kN/m (EN 10319)
Dynamic perforation resistance	40 mm (EN 918)
Characteristic opening size	150 μm (EN ISO 12956)
Water permeability	8 · 10-2 m/s (EN ISO 11058)
Drainage capacity, water flow capacity in the plane	3.1 · 10 ⁻³ m ² /s (EN ISO 12958) at 20kN/m ²
Roll size	12.5 m x 2.5 m
Durability	To be covered within two weeks after installation. Will endure for 25 years in natural soil having a pH value between 4 and 9 and a soil temperature < 25 °C.

DELTA®-Accessories for DELTA®-TERRAXX.

Dörken makes your life easier - systematically.

This is why you are sure to appreciate these handy DELTA®-Accessories:



DELTA®-TERRAXX-SCHRAUBEFor securely fastening DELTA®TERRAXX to perimeter insulation boards. Patent-protected.



DELTA®-NOPPENBAHNEN-PROFIL Edge-sealing strip.



DELTA®-TERRAXX-PROFILMoulding cap for use with perimeter insulation boards. Patent pending.



DELTA®-MULTI FIXXAll-round fastener for all dimpled and drainage DELTA® sheets for use on either face.



DELTA®-MS DÜBELPlastic nail plug for fastening DELTA® drainage sheets.



DELTA®-DRÄNAGEVLIESSeparation and filtration cloth.
Serves to safeguard the filtration function of surface drainage systems.

DELTA®



DELTA®-System ...

... for owners:

"... What I get is a mature problem solution provided at a fair price by the 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 basement plans in a systematic and forward-looking way."

DÖRKEN

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