



DELTA®-MS DRAIN

The innovative sheet for dry cellar walls.

Dimpled sheet with an integrated drainage layer. Simple and cost-efficient foundation for dry cellar walls. Improved performance, improved protection.



New!

■ Protection and drainage system for vertical applications

■ For subgrade external walls

■ Building construction/rehabilitation

Cellar wall protection and drainage rolled into one? DELTA® has a convincing, cost-efficient solution!

Optimum relief for cellar waterproofings:

DELTA®-MS DRAIN

Enhanced waterproofing protection. Drainage



■ DELTA®-MS DRAIN

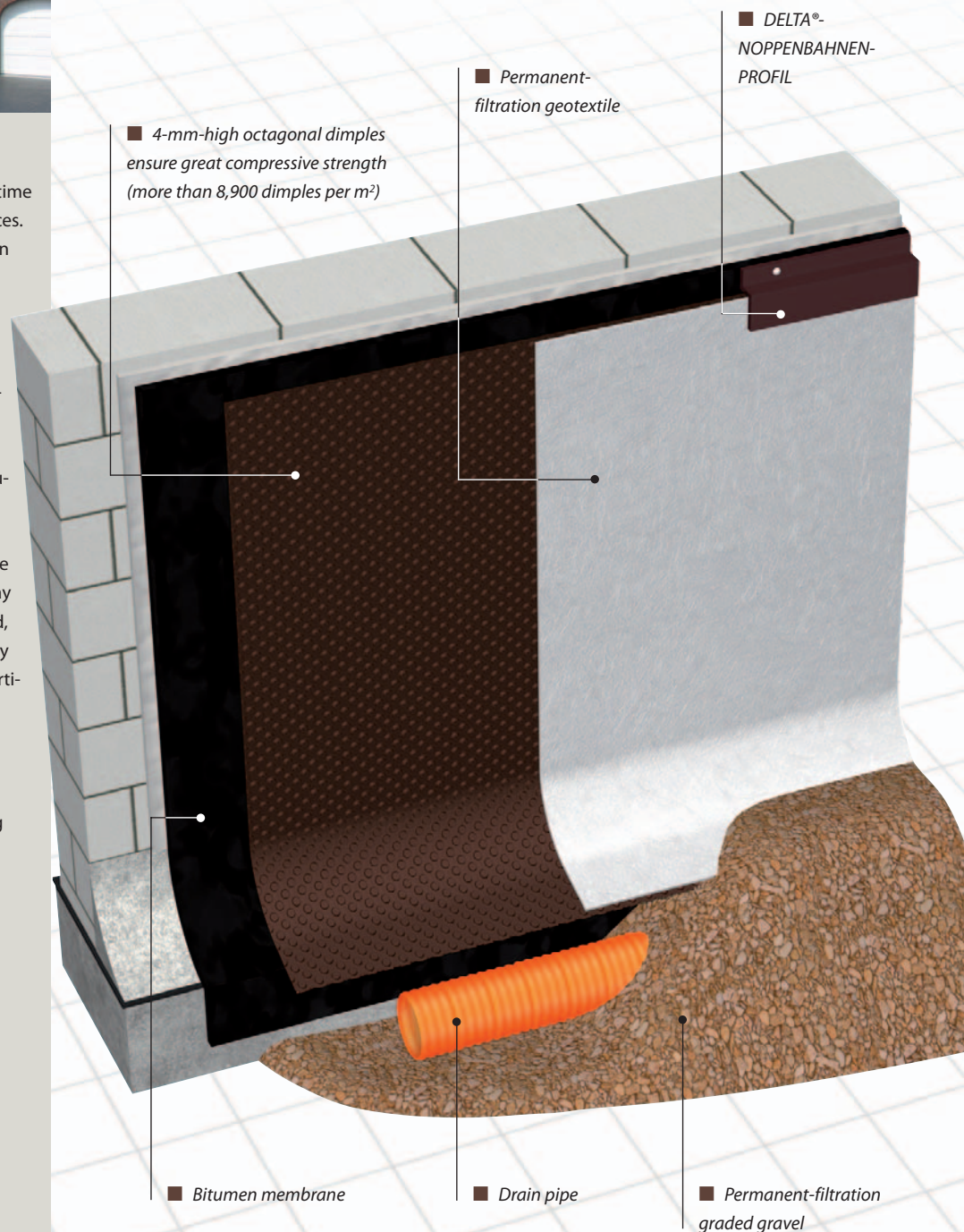
Dimpled sheets have been used for a long time to protect cellar walls from outside influences. Now, Dörken presents DELTA®-MS DRAIN, an innovative dimpled sheet that doubles as a drainage layer!

■ Developed from the proven DELTA®-MS sheet, this product further enhances waterproofing protection because its contact area is four times larger than that of a normal dimpled sheet, which improves the distribution of pressure on the waterproofing bitumen coating/sheet by the same factor. An integrated layer of hydrophilic geotextile ensures that intruding water is drained away swiftly and permanently. Attractively priced, DELTA®-MS DRAIN is easy to put up and very easy to handle – the ideal protection for vertical cellar walls.

■ DELTA®-Accessories

When working with DELTA®-MS DRAIN, you should take advantage of the following DELTA®-Accessories:

- DELTA®-NOPPENBAHN-PROFIL
- DELTA®-HAFTNAGEL
- DELTA®-MS DÜBEL
- DELTA®-TERRAXX-SCHRAUBE



BASIC QUALITY



DELTA®-MS DRAIN can be put up quickly and simply.

These external cellar walls are optimally protected.

Integrated geotextile ensures reliable water drainage.

Additional function included. Vastly improved pressure distribution.

DELTA®-MS DRAIN ...

- ... is a dimpled sheet made of special PE for compression-resistant surfaces.
- ... features an integrated water-permeable geotextile for drainage.
- ... has a drainage capacity of 1.0 l/s · m, more than three times the maximum water volume of 0.3 l/s · m which, according to DIN 4095 (drainage for building protection), might occur under unfavourable circumstances.
- ... features more than 8,900 dimples per m² which extremely improves pressure distribution compared to the c. 1,100 dimples of similar sheets.
- ... has 55 % of its surface in contact with the waterproofing; in normal dimpled sheets, it is no more than 6.5 to 13 %.
- ... has a particularly high compressive strength of 300 kN/m² thanks to its innovative, 4-mm-high octagonal dimples.
- ... sustainably protects perimeter insulation from waterlogging.
- ... is safe for drinking water, resistant to bacterial, alkaline, and chemical attack as well as root penetration, and rot-proof in soil.
- ... is designed for installation depths of up to 8 m.
- ... is particularly tightly wound to save transport expenses.



DELTA®-MS DRAIN compared



So far:

The dimples of many dimpled sheets press against the bitumen coating of cellar walls – a severe stress on the waterproofing.



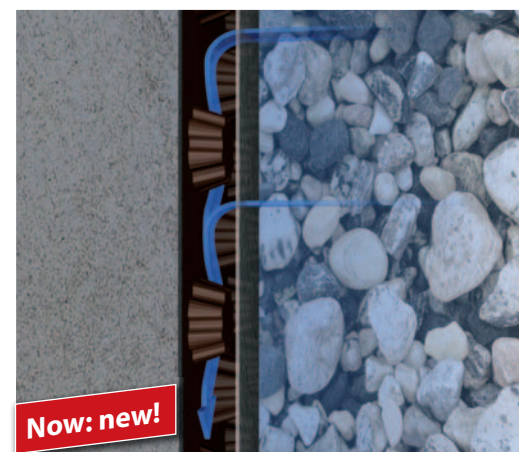
Now: new!

In DELTA®-MS DRAIN sheets, dimples and geotextiles face outward – a great improvement in pressure distribution.



So far:

Dimpled sheet without drainage function – intruding water cannot easily drain away.



Now: new!

Through its high-performance drainage function, DELTA®-MS DRAIN offers an optimum escape for intruding water.

Conclusion: DELTA®-MS DRAIN offers everything users and craftsmen need to protect cellar walls in the best possible way. Satisfy yourself now about its advantages!

Benefit from this innovative DELTA®-Sheet!

Two layers – one complete system:

Layer 1: whereas the dimples of conventional dimpled sheet press against the bitumen coating, the dimples of DELTA®-MS DRAIN face outward, relieving pressure on the waterproofing.

Layer 2: filtering out fine-grained soil particles, the fused-on water-permeable geotextile keeps the system of channels between the dimples from silting up so that water may drain away freely to the drain pipe below.

Needless to say, we have a range of perfect accessories.

For detailed information about the DELTA®-System, consult the DELTA®-System guides.

DELTA®-MS DRAIN

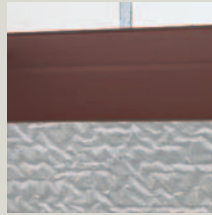
Technical data overview:

Material	Dimpled high-density polyethylene sheet with a fused-on hydrophilic polypropylene geotextile.
Dimple height	approx. 4 mm
Air gap	approx. 2.6 l/m ²
Characteristic opening size (EN ISO 13433)	approx. 0,6 mm
Compressive strength	approx. 300 kN/m ²
Drainage capacity	approx. 1,0 l/s · m
Service temperature range	-30 °C to +80 °C
CE-conformability	DIN EN 13252
Roll size	2 m x 30 m
Pallet package	6 rolls (360 m ²)

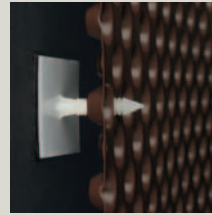
DELTA®-Accessories for DELTA®-MS-DRAIN.

Dörken makes your life easier – systematically.

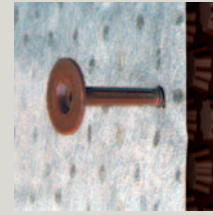
This is why you are sure to appreciate these handy DELTA®-Accessories:



DELTA®-NOPPEN-BAHNEN-PROFIL
Moulding cap. To protect perimeter insulation boards we recommend using DELTA®-TERRAXX-PROFIL.



DELTA®-HAFTNAGEL
Adhesive pin to facilitate arranging overlaps.



DELTA®-MS DÜBEL
Plastic percussion plug for fastening sheets where nails cannot be used.



DELTA®-TERRAXX-SCHRAUBE
For securely fastening DELTA®-MS DRAIN 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 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 cellar plans in a systematic and forward-looking way."



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■ Standard requests for tender as well as detailed installation instructions for all DELTA®-Products may be obtained at www.doerken.com as pdf files for you to print out and save.