

## DELTA<sup>®</sup>-THENE/DELTA<sup>®</sup>-GEO-DRAIN Quattro

### Installation Instructions

#### DELTA<sup>®</sup>-THENE

- 1. Surfaces should be smooth, compression-resistant, free from dust, and stable. Floor slab joints should be fillet-shaped. Mineral surfaces should be primed with DELTA<sup>®</sup>-THENE-GRUNDANSTRICH. Apply the primer so that it covers the entire surface and allow to dry. DELTA<sup>®</sup>-THENE-KÄLTEGRUNDANSTRICH should be used whenever temperatures range between +5°C and -5°C:
- 2. Before applying DELTA<sup>®</sup>-THENE, seal all details such as inside or outside corners, pipe sleeves, and fillet joints with strips cut from the material or ready-made strips such as DELTA<sup>®</sup>-THENE-BAND T 300 so that all critical areas are covered by two layers of material after the application of DELTA<sup>®</sup>-THENE. Strips should be approximately 30cm wide.
- 3. Unroll DELTA<sup>®</sup>-THENE, cut the sheet to length, and pull the paper backing away from the front edge. Attach DELTA<sup>®</sup>-THENE from top to bottom, avoiding air pockets and working from the middle of the sheet towards the edges. Press home firmly. Sheet overlaps should be 10cm wide.
- 4. Outside corners should first be covered by a strip of material 30 cm wide. Alternatively, fold sheets from each side around the edge so that a strip c. 15cm wide is left on the other side. Overlaps, joints, and end seals should be checked and pressed home carefully.
- 5. Top edges should be secured by mechanical means, such as clout nails spaced 50cm apart.
- 6. In addition, upper edges should be protected by DELTA<sup>®</sup>-BAND, edge sealing strips, or plaster bars. Before applying DELTA<sup>®</sup>-BAND, mineral surfaces should be primed with DELTA<sup>®</sup>-THENE-GRUNDANSTRICH. Edge sealing strips and plaster bars should be mounted directly after sheet application.

#### DELTA<sup>®</sup>-GEO-DRAIN Quattro

- 1. If the waterproof coating is no more than 1.9m high, apply the 2m sheet straight off the roll. On higher coatings, apply the sheet vertically from top to bottom. Use a carpet knife to cut the sheet to the requisite length across the roll.
- 2. The micro-perforated slip film should face the waterproofing, while the permanent-filtration geotextile should face the soil. If the exact level of the ground surface is not known, attach the sheets approximately 10cm above the upper edge of the waterproof layer. After backfilling, trim the sheets in parallel with the surface of the soil. At the bottom, sheets should end at the drain pipe, which should be surrounded on all sides by a layer of permanent-filtration aggregate at least 15cm thick.
- 3. If the ground level is known, sheets may be attached using DELTA<sup>®</sup>-GEO-DRAIN-CLIPs arranged along a horizontal line, after which the DELTA<sup>®</sup>-NOPPENBAHNEN-PROFIL may be latched on.
- 4. Detach the micro-perforated slip film from the edge of the overlapping sheet and push it behind the smooth overlap of the sheet installed previously. Remove the strip that covers the adhesive tape and glue the two dimpled sheets together.
- 5. Before attaching a sheet to a corner, crease it along the line of the edge. Place any plastic light wells directly on top of the sheet. Window openings can be cut out later. When light wells have already been installed, cut the sheet precisely along the lower edge and make one vertical cut in the middle.

■ Protection and waterproofing system

■ Drainage

■ For vertical application in building construction

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## Request for Tender DELTA<sup>®</sup>-THENE/DELTA<sup>®</sup>-GEO-DRAIN Quattro

Item No.	Qty.	Specifications	Price/Unit	Price Total
1	..... m <sup>2</sup>	<p><b>DELTA<sup>®</sup>-THENE</b> (made by Dörken GmbH &amp; Co. KG, 58311 Herdecke, Germany) cold-setting self-adhesive waterproofing sheet system to be delivered and installed in conformance with the manufacturers' current instructions to seal vertical surfaces, inclusive of all outside preparatory and finishing work required for protection from soil moisture and underground water seepage.</p> <p>Weight approx. 1.6 kg/m<sup>2</sup>            Roll width 1 m            Roll length 5 m, 20 m            Installation temperatures + 5 °C to + 30 °C (air and soil)</p>		
2	..... kg	<p><b>DELTA<sup>®</sup>-THENE-GRUNDANSTRICH</b> (made by Dörken GmbH &amp; Co. KG, 58311 Herdecke, Germany) ready-to-use primer to be delivered and applied to any mineral substrate in conformance with the manufacturers' instructions. Allow to dry afterwards.</p> <p>Consumption approx. 0.2 to 0.3 kg/m<sup>2</sup> depending on the substrate            Drying time approx. 1,5 h            Can size 5 kg/10 kg/20 kg</p>		
3	..... kg	<p><b>DELTA<sup>®</sup>-THENE-KÄLTEGRUNDANSTRICH</b> (made by Dörken GmbH &amp; Co. KG, 58311 Herdecke, Germany) special winter primer for DELTA<sup>®</sup>-THENE down to -5 °C to be delivered and applied.</p> <p>Consumption approx. 0,3 kg/m<sup>2</sup>            Drying time 1-2 h            Can size 10 kg</p>		
4	..... m <sup>2</sup>	<p><b>DELTA<sup>®</sup>-GEO-DRAIN Quattro</b> (made by Dörken GmbH &amp; Co. KG, 58311 Herdecke, Germany) four-ply protection and drainage system with integrated self-adhesive edge to be delivered and expertly installed on vertical masonry waterproofing. To be installed and mechanically attached in conformance with the manufacturers' instructions (e.g. with clout nails, DELTA<sup>®</sup>-GEO-DRAIN CLIPs, or wall plugs). Sheet overlaps must be adequate. Overlaps must be covered by a double layer of filter cloth. The filter cloth must face the soil.</p>		
5	..... m	100-milimetre drain pipe to be delivered and installed.		
6	..... m	B 32 graded aggregate to be delivered and filled in as a drainage bed.		
7	..... m	DELTA <sup>®</sup> -NOPPENBAHNEN-PROFIL to be delivered and installed to protect the upper edge after backfilling.		