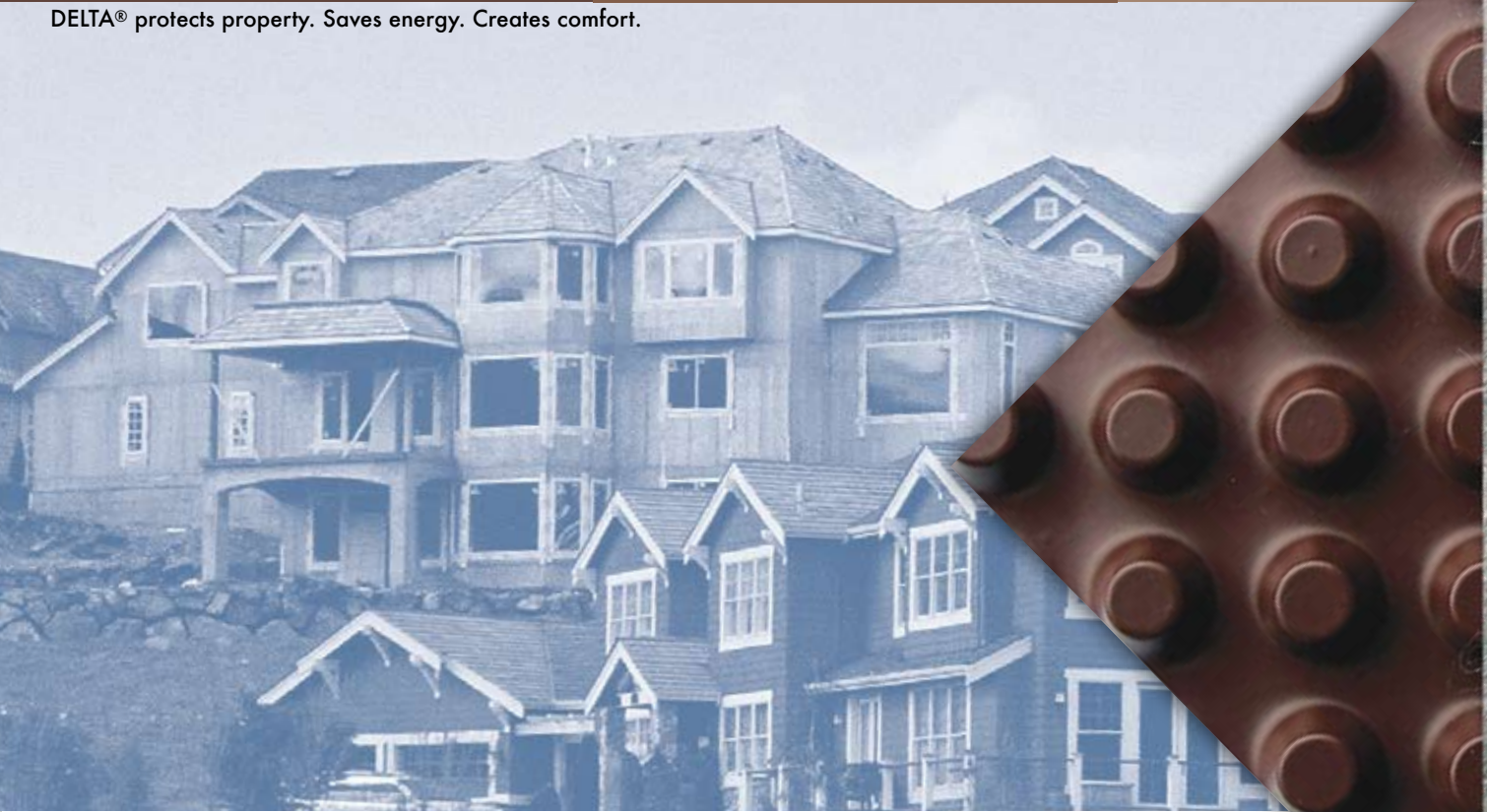


# DELTA®

DELTA® protects property. Saves energy. Creates comfort.



COSELLA DÖRKEN

# DELTA®-DRAIN

PREMIUM QUALITY

## Systems For Building Healthier Homes.™

Below grade foundation waterproofing for masonry and poured concrete structures.



■ Drainage and protection system

■ For relief of hydrostatic pressure

■ Outstanding performance in hillside construction/ applications

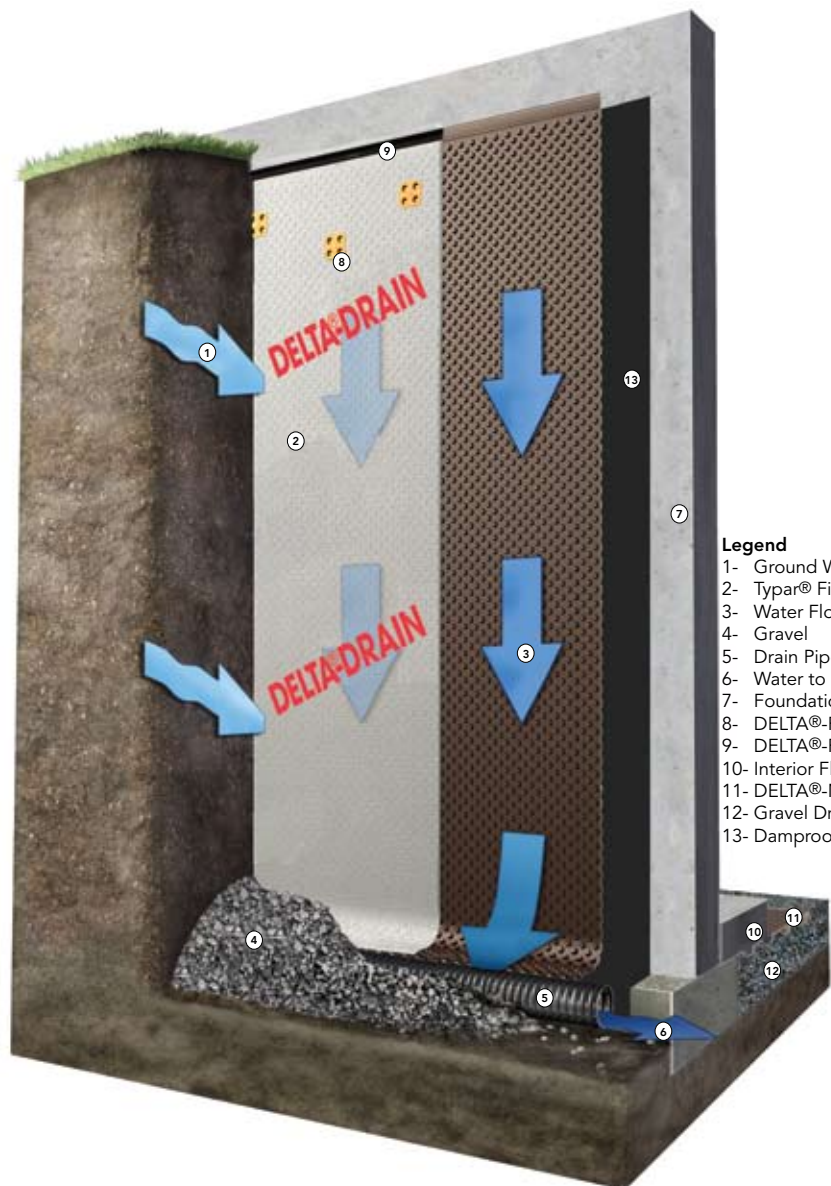
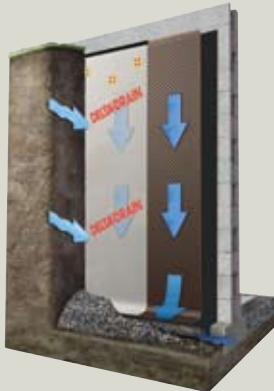
Reliable Long Term Protection

# DELTA<sup>®</sup>-DRAIN

For permanently dry basements.

PREMIUM QUALITY

DELTA<sup>®</sup>-DRAIN is a highly effective drainage membrane on poured concrete as well as block foundations.



**Legend**

- 1- Ground Water Seepage
- 2- Typar<sup>®</sup> Filter Fabric
- 3- Water Flow Through Core
- 4- Gravel
- 5- Drain Pipe
- 6- Water to Collector Pipe/Sump
- 7- Foundation Wall
- 8- DELTA<sup>®</sup>-FAST<sup>™</sup>ner
- 9- DELTA<sup>®</sup>-FLASH
- 10- Interior Floor
- 11- DELTA<sup>®</sup>-MS Underslab
- 12- Gravel Drainage Layer
- 13- Dampproofing/Waterproofing



**DELTA®-DRAIN** is a premium drainage system used when homes are built into **steep hillsides** or in areas of a high water table. These conditions require more rapid drainage of ground water and relief of hydrostatic pressure. DELTA®-DRAIN is used with damproofing or waterproofing on all foundations.

### Product Description

DELTA®-DRAIN is an effective method to control the flow of damaging soil moisture and hydrostatic pressure through cracks and gaps in below grade structures. DELTA®-DRAIN is an essential element of a complete waterproofing system.

### Function

DELTA®-DRAIN is comprised of a multi-layer geocomposite combining a high density polyethylene core with a geotextile, bonded to the core for lasting durability. DELTA®-DRAIN creates an essential path for the vertical and horizontal drainage of

soil moisture and filtering of soil particles while offering hydrostatic pressure relief.

### Applications

- Hillside Construction
- Retaining Walls
- Residential and small commercial foundations

### Benefits

DELTA®-DRAIN has been successfully used in a wide variety of exterior applications where redirection of ground water and pressure relief are primary concerns.

DELTA®-DRAIN's large sizes make installation faster. Extra height and width means less material overlap, less seams, less labor, which leads to an important point: - less cost.

DELTA®-DRAIN is used in conjunction with damproofing or waterproofing

### Advantages

DELTA®-DRAIN is a convenient and environmentally sound subsurface drain board that is specially designed for easy use and versatile applications.

High flow capacity ensures effective drainage for residential and light commercial foundations.

DELTA®-DRAIN also enhances/protects waterproofing and relieves hydrostatic pressure buildup against foundation walls.

### Evaluation Reports (Certifications)

Drainage Layer – CCMC # 13209-R

Dampproofing – CCMC # 13208-R



## Technical Data

| Properties                  | Test Method  |  |
|-----------------------------|--|--|
| CORE                        |  |  |
| Color                       | Brown  |  |
| Weight                      | ASTM D-3776-96   | 1.9 oz/ft <sup>2</sup><br>(580 g/m <sup>2</sup> )    |
| Compressive Strength        | ASTM D-1621-00   | 5,200 psf<br>(250 kN/m <sup>2</sup> )                |
| Dimple Height               | ASTM D-1777-96   | 5/16" (8 mm)   |
| Material                    | HDPE   |  |
| FILTER FABRIC               |  |  |
|                             | Tyvar 3401   |  |
| Grab Tensile                | ASTM D-4632-91   | 130 lbs (580 N)                                      |
| Elongation                  | ASTM D-4632-91   | 60%  |
| Trapezoidal Tear            | ASTM D-4533-91   | 60 lbs (267 N)                                       |
| Puncture Resistance         | ASTM D-4833-00   | 41 lbs (182 N)                                       |
| Mullen Burst                | ASTM D-3786  | 140 psi<br>(965 kPa)                                 |
| Apparent Operating Size     | ASTM D-4751-99   | 70 sieve size<br>(0.21mm)                            |
| Permittivity                | ASTM D-4491-99   | 0.7 sec <sup>-1</sup>                                |
| Water Flow Rate             | ASTM D-4491-99   | 60 gpm/ft <sup>2</sup><br>(2460 l/s/m <sup>2</sup> ) |
| Weight Typical              | ASTM D-5261-92   | 4.0 oz/yd <sup>2</sup><br>(135 g/m <sup>2</sup> )    |
| UV Resistance               | ASTM D-4355-92   | 70% (500 hours)                                      |
| Material                    | PP   |  |
| COMPOSITE SYSTEM            |  |  |
| Water Flow Rate (V)(GR=1)   | ASTM D-4716-03   | 8.8 gal/min/ft<br>(109 L/min/m)                      |
| Water Flow Rate (H)(GR=0.1) | ASTM D-4716-03   | 2.4 gal/min/ft<br>(30 L/min/m)                       |
| Roll Size                   | 6ft x 65.6ft (1.83m x 20m)<br>8ft x 65.6ft (2.45m x 20m) |  |
| Roll Weight - 6ft/1.83m     | 60lbs (27.2 kg)  |  |
| Roll Weight - 8ft/2.45m     | 73lbs (33.3 kg)  |  |

# DELTA®

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DELTA®-branded quality products manufactured by Cosella-Dörken.