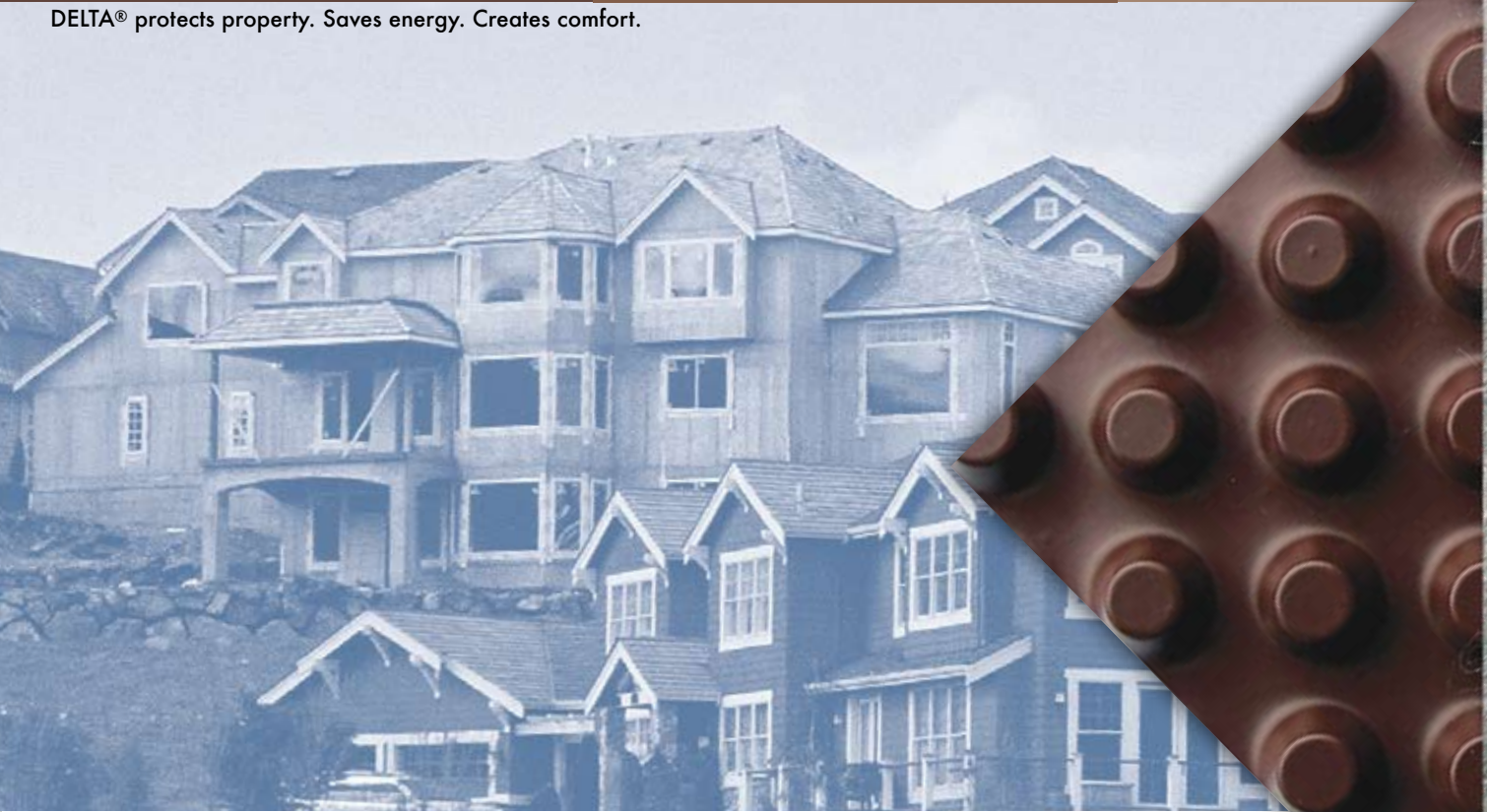


# DELTA®

DELTA® protects property. Saves energy. Creates comfort.



COSELLA DÖRKEN

# DELTA®-DRAIN

## Systems For Building Healthier Homes.™

Below grade foundation waterproofing for masonry and poured concrete structures.



PREMIUM QUALITY

■ Drainage and protection system

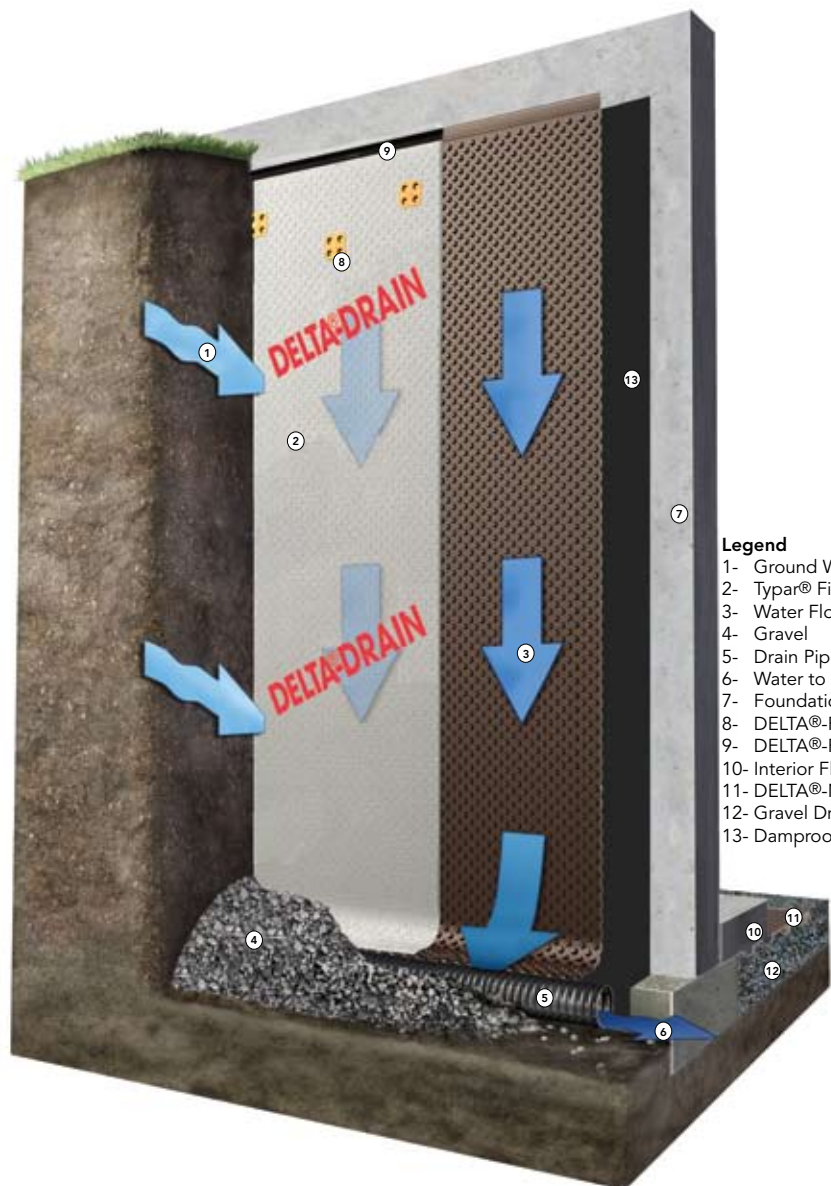
■ For relief of hydrostatic pressure

■ Outstanding performance in hillside construction/ applications

Reliable Long Term Protection

# DELTA<sup>®</sup>-DRAIN

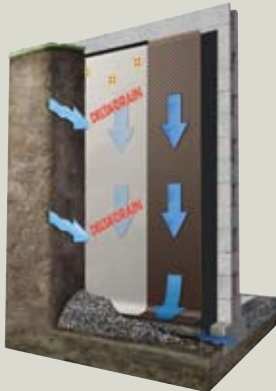
For permanently dry basements.



**Legend**

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

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



PREMIUM QUALITY





**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	
<b>CORE</b>		
Color	Brown	
Weight	ASTM D-3776-96	1.9 oz/ft <sup>2</sup> (580 g/m <sup>2</sup> )
Compressive Strength	ASTM D-1621-00	5,200 psf (250 kN/m <sup>2</sup> )
Dimple Height	ASTM D-1777-96	5/16" (8 mm)
Material	HDPE	
<b>FILTER FABRIC</b>		
	Tygar 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 (965 kPa)
Apparent Operating Size	ASTM D-4751-99	70 sieve size (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> (2460 l/s/m <sup>2</sup> )
Weight Typical	ASTM D-5261-92	4.0 oz/yd <sup>2</sup> (135 g/m <sup>2</sup> )
UV Resistance	ASTM D-4355-92	70% (500 hours)
Material	PP	
<b>COMPOSITE SYSTEM</b>		
Water Flow Rate (V)(GR=1)	ASTM D-4716-03	8.8 gal/min/ft (109 L/min/m)
Water Flow Rate (H)(GR=0.1)	ASTM D-4716-03	2.4 gal/min/ft (30 L/min/m)
Roll Size	6ft x 65.6ft (1.83m x 20m) 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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A company of the Dörken Group

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