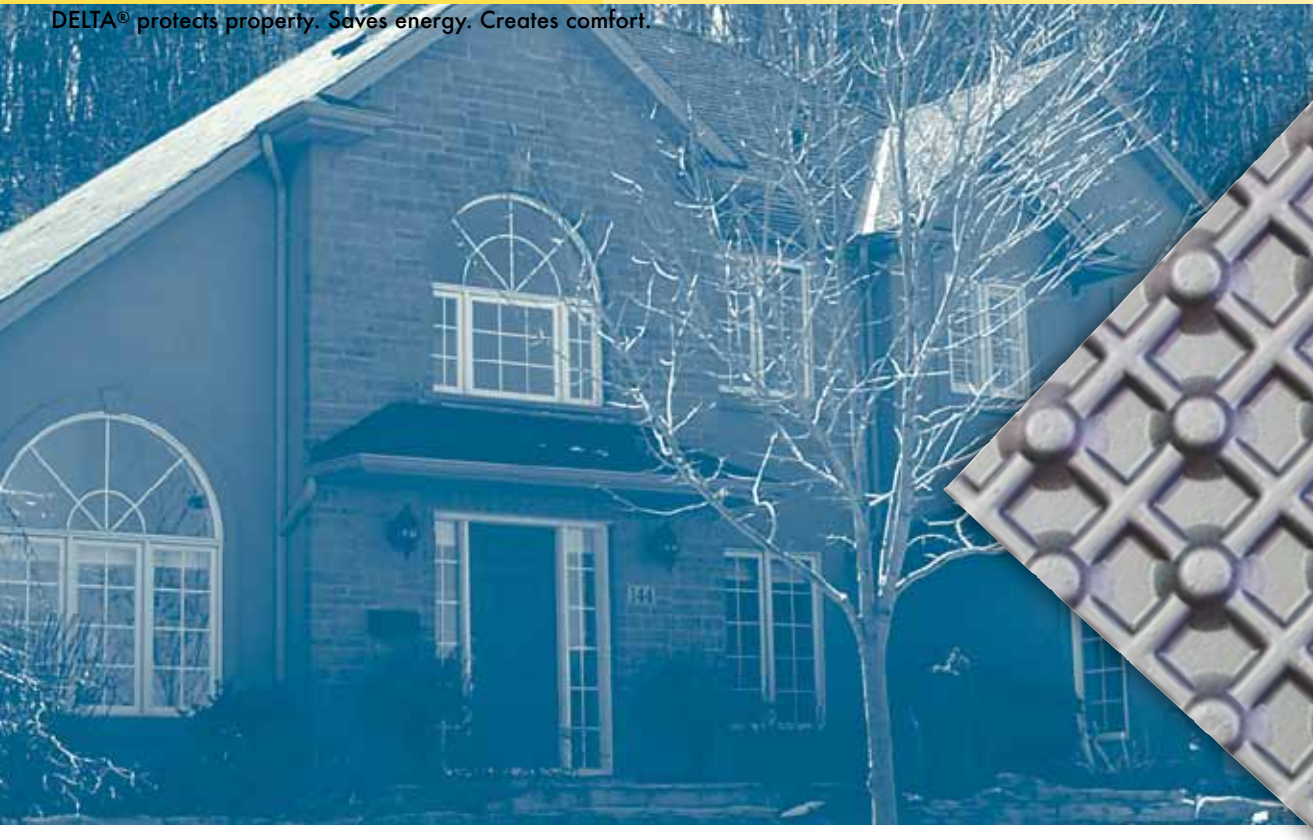
DELTA®

DELTA® protects property. Saves energy. Creates comfort.



COSELLA DÖRKEN

DELTA®-DRY

PREMIUM QUALITY

Ventilated Rainscreen For Residential & Commercial Construction.

- For protection of homes against the elements of weather
- For the control of moisture in wall construction
- For ventilation and drying of the building enclosure

DELTA®-DRY

Ventilated Rainscreen For Residential & Co

PREMIUM QUALITY

ommercial Construction.

It is well known that moisture can be a major source for trouble in construction. In building envelopes and wall cavities moisture can cause mold, mildew, and major decay, whether the origin of moisture is rainwater that passes the exterior cladding, or condensing vapor from the interior. DELTA®-DRY provides a unique approach to manage both moisture from inside and outside in order to protect the wall cavity against moisture damage.

DELTA®-DRY is an impermeable membrane made out of a special high-density polyethylene that provides two-sided drainage through its dimple and groove design. The structured membrane provides a protective weather resistive barrier with complete capillary break for residential and commercial building structures. It protects the building from water intrusion behind the exterior cladding (i.e. wind driven rain) by draining it back out to the exterior. DELTA®-DRY allows water vapor, driven from the interior to the exterior, to escape through the air space between exterior sheathing board and membrane, while minimizing the potential for condensation that could cause damage in the wall cavity.

Due to the double sided dimple structure of the membrane, breathability is provided on both sides of the product, allowing moisture to escape behind siding, brick veneer, or any other approved exterior cladding. At the same time, DELTA®-DRY impedes solar-driven moisture towards the interior of the structure as it occurs with conventional stucco, brick veneer, or any other absorptive cladding material. In addition, the membrane helps to save energy by reflecting radiation heat - keeping heat outside in the summer, and warmth inside in the winter.

DELTA®-DRY is designed to be installed on the exterior sheathing board (OSB) as a substitute for conventional sheathing membranes (i.e. building paper). It may also be installed over breather type sheathing membranes or building paper. Top and bottom edge of the membrane are ventilated (allows for air movement). The material is easy to cut with a utility knife. Seams are simply overlapped (shingled) by approximately 3 inches. Window and door cut-outs are to be wrapped with a self-adhesive flashing material along the bottom sill and the side jambs. Exterior cladding material can be installed as usual right on top of DELTA®-DRY. For further details please check the installation instructions.

The performance of this innovative weather resistive barrier has been validated through testing at the University of Waterloo and Oak Ridge National Laboratory.

Properties	Test Method	Test Results*
Core	High Density Polyethylene stabilized against oxidation and UV light	
Material Thickness	ASTM D1777-96 (2002)	0.55 mm (0.022")
Overall Thickness	ASTM D1777-96 (2002) Measured @ 2.0 kPa	7.53 mm (0.3")
Roll Size		1 m x 15.24 m (3'3" x 50') **
Basis Weight	ASTM D5261-92 (2003)	475 g/m^2 (1.56 oz/ft^2) Roll - 7.2 kg (16 lbs)
Compressive Strength	ASTM C695-02a Compressive Strength @ % Strain	5.08 kPa @ 10% 10.98 kPa @ 15% 19.77 kPa @ 20% 30.43 kPa @ 25% 42.02 kPa @ 30%
Surface Burning Characteristic	CAN/ULC-S102.2 • Flame Spread • Smoke Development	210 105 - 190
Water Vapor Transmission	ASTM E96/ E96M-05 (Method A) • Water Vapor Permeance • Perms	 22 ng / (Pa·s·m^2) 0.385 perms
Water Penetration Resistance	AATCC 127-1995	118 psi
Water Ponding	CCMC 07102, Section 6.4.5	Pass (no water seepage)

* independent test reports available upon request
** other sizes available upon request

Excellent Water Resistance
DELTA®-DRY protects the building from water intrusion by providing a secondary plane of moisture resistance to resist inward moisture transport.

Full Capillary Break
DELTA®-DRY is an impermeable membrane that provides a full capillary break.

Outstanding Drainage Capability
DELTA®-DRY has a unique dimple and groove design that provides a drainage path on both sides of the membrane, redirecting any water penetrating past the exterior cladding back to the outside

Exceptional Drying Characteristics
DELTA®-DRY provides for rapid drying on both sides of the membrane by allowing air movement through the cavity.

Pressure Moderation
DELTA®-DRY reduces water penetration into and through the cladding by providing a key element to allow for pressure moderation behind the exterior cladding.

Stops Solar Driven Moisture
DELTA®-DRY impedes inward diffusion of moisture from absorptive exterior claddings like brick veneer, or conventional stucco.

Saves Energy
DELTA®-DRYreflects radiant heat - keeping heat outside in the summer, and warmth inside in the winter.

Combined Breathability & Drainage
DELTA®-DRY is suitable for use behind any conventional cladding, including all sidings, brick veneer, stucco systems, stone facades, etc.

Extremely Durable
DELTA®-DRY withstands the rigors of construction, and performs for the life of the structure.

Performance Tested
DELTA®-DRY's performance has been tested and confirmed by the University of Waterloo and Oak Ridge National Laboratory.

Approved by the Building Materials Evaluation Commission
- BMEC Authorization No. 05-06-310

DELTA®

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DELTA®-DRY

Ventilated Rainscreen For Residential & Commercial Construction.

The information printed in this brochure reflects product information and specifications at the date of printing. The manufacturer reserves the right to make changes when necessary.

Member NAHB National Association of Home Builders

Canadian Home Builders' Association

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