

TECHNICAL DATA SHEET

DELTA®-DRY

Ventilated Rainscreen for Absorptive Claddings.

MATERIAL

DELTA®-DRY is a 3-dimensional rainscreen membrane made out of a special high-density polyethylene. It provides two-sided drainage and ventilation through its unique dimple and groove design. It is ideal behind absorptive claddings such as manufactured stone veneer, cement board, and conventional stucco claddings.

PROPERTIES

The structured membrane provides drainage and ventilation, as well as a complete capillary break behind the cladding. It protects the building enclosure from bulk water intrusion (i.e. wind-driven rain), and manages water leakage through the cladding. As well, DELTA®-DRY captures and drains transient moisture migrating through the wall structure. DELTA®-DRY provides an air-gap on the interior and exterior side of the membrane for drainage and ventilation. It allows water vapor, driven from the interior to the exterior of the structure, to escape through the ventilated air space between the sheathing board and the membrane. At the same time, DELTA®-DRY minimizes the potential for condensation that could cause damage within the building enclosure. The membrane provides drying potential through ventilation behind any approved exterior cladding. DELTA®-DRY impedes solar-driven moisture towards the interior of the structure, as occurs with absorptive cladding materials like adhered manufactured stone veneer, stucco, cement board siding, brick veneer, etc.

APPLICATION

DELTA®-DRY is installed outboard of the water-resistive barrier over sheathing board. The material cuts easily with a utility knife. Seams are butted together with no overlapping necessary. Exterior cladding material can be installed as usual right on top of DELTA®-DRY.



Technical Data

Product name	DELTA®-DRY	
Color	Silver-gray	
Material	High-density polyethylene, stabilized (oxidation & UV)	
Dimple height	approx. 2/5" (10.5 mm)	ASTM D1777-96
Compressive strength	93 kPa (1,946 psf) @ 8 % strain	ASTM D6364-06
Drainage efficiency	approx. 95%	ASTM 2273
Fungus resistance	Does not support fungus growth	ASTM C1338
Flame spread	210	CAN/ULC-S102.2
Smoke developed	105-190	CAN/ULC-S102.2
Water penetration resistance	118 psi (813 kPa) Watertight	AATCC 127
Water vapor transmission	22 ng/(Pa s m ²)	ASTM E96, Method A
Ventilation/Airflow	1.18 L/s @ 10Pa* 1.41L/s @ 10Pa**	ASTM E2954-14
Drainage	1.94% * 0.65% **	ASTM E2954-14
Thickness	PASS	ASTM D5199-14
Compression Strength	123.2 kPa	ASTM D5199-12
UV Exposure	PASS	ASTM D6363-06
Heat Aging	PASS	ASTM D6364-06
Mold/Fungal Growth	No Mold	ASTM D1338-14
Water Exposure	PASS	ASTM D6364-06
Vapor Permeance	0.14 perms [grains/h/ft ² /in Hg]	ASTM E96, Method A
Contact surface of rainscreen to WRB	less than 20% greater than 80% open	
Chemical properties	excellent chemical resistance, rot-proof	
Toxicity	non-toxic, non-polluting	
Temperature range	-22°F to +176°F (-30°C to +80°C)	
Weight per unit area	approx. 1.71 oz/ft ² (525 g/m ²)	ASTM D5261-92
Roll weight	approx. 18 lbs (8 kg)	
Roll length	50 ft (15.24 m)	
Roll width	3' 3" (1.0 m)	
Service life expectancy	> 20 years (at pH between 4 and 9). Do not expose to UV light for more than 30 days.	

*Test Results performed with NO DELTA®-BUG SCREEN

**Test Results performed with DELTA®-BUG SCREEN

DELTA® products support sustainable and energy-efficient building practices, including efforts toward achieving LEED® certification (LEED® for New Construction & Major Renovations, LEED® for Core and Shell, LEED® for Existing Buildings and LEED® for Homes).

For technical support, call our technical support team at 1-888-4DELTA4 (1-888-433-5824) extension 326, or visit

www.dorken.com.