

DELTA® protects property. Saves energy. Creates comfort.

TECHNICAL DATA SHEET

DELTA®-VENT S / PLUS

Vapor Permeable Roof Underlayment

MATERIAL

DELTA®-VENT S is a vapor permeable 3-layer synthetic roof underlayment. Its two outer layers are made of a high strength spun-bonded polypropylene (PP) fabric. They are thermally bonded to a highly vapor permeable, watertight polymeric middle layer. The fabric layer on the lower side protects the roof underlayment against damage (e.g. roughly sawn sheathing). The matte gray color of DELTA®-VENT S prevents blinding glare during installation.

PROPERTIES

DELTA®-VENT S is a highly vapor permeable roof underlayment, allowing moisture within the roof enclosure to escape through the membrane via diffusion. Its high permeability and air-tightness make it an ideal membrane for energy-efficient construction. The product is watertight and protects the roof enclosure from wind-driven rain. DELTA®-VENT S is very light-weight and tear-resistant. This membrane withstands the rigors of jobsites, as well as tough wind and weather. Its performance is unaffected by surfactants.

APPLICATION

DELTA®-VENT S is installed on the roof deck prior to the application of the final cladding system. DELTA® Accessories complement the roof underlayment installation. DELTA®-VENT S is also available in the PLUS version with a self-adhesive edge.



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.cosella-dorcken.com.

Technical Data

Product name	DELTA®-VENT S	
Color	gray	
Water vapor transmission	820 g/m ² /24 h	ASTM E96-05, Proc. B
Vapor permeance	120 perms [grains/h/ft ² /in Hg]	ASTM E96-05, Proc. B
Breaking load	MD 76 lb/2in	ASTM D5035-06
	CD 47 lb/2in	
Elongation at break	MD 25 %	ASTM D5035-06
	CD 65 %	
Tear resistance	MD 1078 g	ASTM D1922-06a
	CD 1588 g	
Trapezoid tearing strength	MD 22 lb	ASTM D4533-04
	CD 15 lb	
Fastener pull-through force	133 N	ASTM D3462-03
Water penetration resistance	643 cm	CAN/CGSB-4.2 #26.3-95
Water impact penetration resistance	no water passing	AATCC 42-2000
Water permeability	no water passing	CSA A220.1-06
Long term sag	no sag	CSA A220.1-06
Flame spread	25	ASTM E84-09
	NFPA Class A; UBC Class I	
Smoke developed	105	ASTM E84-09
	NFPA Class A; UBC Class I	
Air permeance	< 0.02 l/(s x m ²) @ 75 Pa	ASTM E2178
Temperature range	-40 °F to +176 °F (-40 °C to +80 °C)	
Mass per unit area	> 4.4 oz/yd ² (150 g/m ²)	CSA A220.1-06 4.4.4
Roll weight	approx. 24 lb (11 kg)	
Roll length	164' (50 m)	
Roll width	4' 11" (1.5 m)	
Maximum UV (sunlight) exposure	Always cover as soon as possible. Maximum exposure 6 week.	
DELTA® Accessories	DELTA®-MULTI BAND 2" x 82' DELTA®-FLEXX-BAND 4" x 33' DELTA®-THAN 310 ml cartridge	

ICC ESR-2625 DELTA® Synthetic Roofing Underlayments

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