

TECHNICAL DATA SHEET

DELTA®-ROOF

Roof Underlayment for Ventilated Roofs

MATERIAL

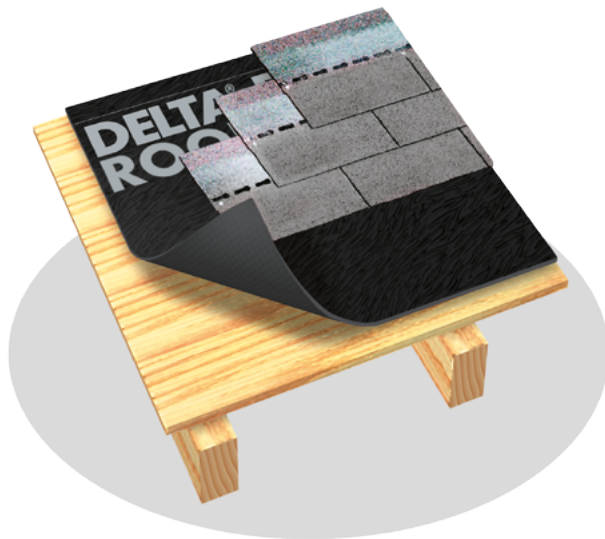
Outside layers made from spun-bonded polypropylene with an inner waterproof polymer layer and reinforcement grid.

PROPERTIES

DELTA®-ROOF provides superior protection to the roof against rain, snow, wind, and dust. The membrane is lightweight and easy to install, and far more resilient than conventional asphalt-saturated base sheet. Its strong reinforcement mesh makes this underlayment extremely tear resistant, even when exposed to high winds. DELTA®-ROOF has been designed to provide ultimate protection to ventilated pitched roofs with asphalt shingles. Its low vapor permeability helps to prevent buckling of asphalt shingles caused by solar driven moisture that would usually cause the sheathing boards to swell and expand. Its performance is unaffected by surfactants.

APPLICATION

DELTA®-ROOF is installed on the roof deck parallel to the eaves prior to the application of the final cladding system. The next course of membrane is overlapped in shingle fashion, ensuring that water is shed downwards. DELTA® Accessories complement the roof underlayment installation.



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.

Technical Data

Product name	DELTA®-ROOF	
Color	black / gray	
Water vapor transmission	0.4 g/m ² /24 h	ASTM E96-05, Proc. B
Vapor permeance	0.06 perms [grains/h/ft ² /in Hg]	ASTM E96-05, Proc. B
Breaking load	MD 147 lb/2in	ASTM D5035-06
	CD 138 lb/2in	
Elongation at break	MD 18 %	ASTM D5035-06
	CD 18 %	
Tear resistance	MD 2624 g	ASTM D1922-06a
	CD 2975 g	
Trapezoid tearing strength	MD 42 lb	ASTM D4533-04
	CD 36 lb	
Fastener pull-through force	284 N	ASTM D3462-03
Water penetration resistance	795 cm	CAN/CGSB-4.2 #26.3-95
Water impact penetration resistance	no water passing	AATCC 42-2000
Flame spread	5	ASTM E84-09
	NFPA Class A; UBC Class I	
Smoke developed	100	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	> 6.7 oz/yd ² (220 g/m ²)	CSA A220.1-06 4.4.4
Roll weight	approx. 36 lb (16 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 8 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