

Viking Synthetic Roof Underlayment

Viking Roofspec Supplier Code: DDE050

Version: 1.0

Introduction

RoofRunner™ is a synthetic polymer-based scrim-reinforced underlayment designed for use on roof decks as a water-resistant layer beneath asphalt roofing shingles. Follow finished roofing manufacturer's instructions and all local building code requirements. It has exceptional dimensional stability compared to standard asphalt felt underlayment when wet. Its stability eliminates the possibility of wrinkles caused by moisture related expansion. Standard asphalt felt can become so wrinkled when it picks up moisture that it can sometimes "telegraph" its wrinkles through to the shingles applied over it, creating visually objectionable wrinkles on the finished roof. RoofRunner's extra-large 1.2m width and 76m length helps speed application. It has a special top surface treatment that provides excellent slip resistance, even when wet. CAUTION: Walking or crawling on any roof surface can be dangerous, especially when wet or snow/ice covered.

Product Composition

RoofRunner roofing underlayment is based on a tough woven polyolefin reinforcement laminated between layers of specially formulated UV-stabilized polymer films

Properties

Roll Length	76m
Roll Width	1.21m
Thickness / nominal (microns)	178 microns
Roll size (Gross Sq m)	91.96 m ²
Roll coverage (Typical net Sq m)	91m ²
Shipping Weight (approx. kg/roll)	10.4kg

Technical Data

Typical properties of RoofRunner are shown in Table 1 below. RoofRunner is manufactured to comply with physical property requirements of ASTM D226.

Property	Data		
Product weight (gsm)	--	ASTM D5261	110
Roll Weight w/core (kg)	--	ASTM D5261	11.1
Breaking Strength (lbs)	MD CD	ASTM D5034	98 93
Tear Strength (lbs)	MD CD	ASTM D4533	18 16
Liquid Water Transmission	--	ASTM D4869	Passed
Fire Resistance with Class A Roof Shingle	--	ASTM E 108 & UL 790	Passed Class A
Moisture Vapor Transmission Rate (perms)	--	ASTM E-96	0.06
UV Exposure	--	ASTM G155 cycle 1	Passed / 3 months
COF (Top Side / walking surface)	Static Kinetic	ASTM D1894	0.41 0.39
COF (Bottom side)	Static Kinetic	ASTM D1894	0.73 0.68

Applicable Standards

RoofRunner conforms to:

- Physical requirements of ASTM D226
- ASTM E108 Class A Fire Resistance – QAI file number B1107-1
- Conforms to ICC-ES AC188
- ICC-ES ESR 4103 (Evaluation Report)
- Texas Department of Insurance (TDI) Approved Synthetic Underlayment
- Florida Approval FL21841
- Miami-Dade Product Control Approved

Limitations

Do not install RoofRunner as ice dam protection along eaves. Two layers of RoofRunner cemented together is not an equivalent to WinterGuard and, or Grace Select Underlayment. This product is not designed to be permanently exposed to sunlight or to the weather.

Installation

Deck Preparation: Provide a clean, dry and smooth deck surface by eliminating dust, dirt, loose nails and other objects. Before application to existing roofs, remove all roofing materials, and then clean the roof deck until it is free of any dirt, dust, nails, and other materials.

Standard-Slope Application Only (18° degrees and Greater): Starting at the lower edge of the roof, cover the entire deck by applying a single layer of RoofRunner parallel to the eaves, with printed side facing up. When necessary, overlap all ends (vertical laps) at least 150mm and “weather-lap” all sides (horizontal laps) at least 75mm. Offset adjacent end laps by at least 1.8 meters. Apply flat and unwrinkled, carefully fastening as described below to hold in place.

Low Slope Application (9° to <18° Slopes): The use of CertainTeed WinterGuard® Waterproofing Shingle Underlayment, or its Viking approved equivalent, * applied over the entire deck surface is required.

* For low slopes, underlayment equivalents to WinterGuard include: 1) waterproofing shingle underlayments meeting ASTM D1970; 2) in areas not prone to snow or ice, two layers of CertainTeed RoofRunner in shingle fashion (half lap) per the low-slope application instructions below:

Low slope application instructions for RoofRunner double coverage in shingle-fashion:

- Install a full 648mm starter strip along the eaves
- Install a full 1.220m wide sheet over the starter strip
- Apply each succeeding 1.220m wide courses up the roof overlapping each previous course a maximum of 570mm exposure (or 648mm overlap) in traditional “half-lap” installation or in “shingle fashion”.
- Overlap 300mm at all end lap seams and offset from adjacent end laps by at least 6 feet.

Exposure Limitations: RoofRunner is not designed to be permanently exposed to sunlight and weather or used as a waterproofing underlayment. RoofRunner is tested for UV resistance for up to 90 days; do not expose it for more than 3 months prior to installing finished roofing.

Fastening: DO NOT USE STAPLES or roofing nails! Cap nails with 25mm heads are required for installation, they can be either pneumatically driven or hand applied. Correct nailing locations are clearly indicated by the circular targets printed on the top surface. Otherwise, refer to local applicable building codes for required fastener type and fastener spacing in high wind zones.

Proper fastener spacing is 380mm On-Center (O.C.) vertically and 300mm O.C. horizontally (parallel to eaves). On vertical side/end laps install 8 fasteners equally spaced at 150mm O.C. centered in the lap to hold the underlayment in place.

Storage: Store RoofRunner rolls horizontally on the pallet or standing on end after opened, in a dry, protected area at a temperature less than 49°C.