

SPECIFICATION SHEET

1. CLASSIFICATION

ROOF COVERING AND ROOF DECK CONSTRUCTION-Underlayment SHINGLES, ROOF TILES & ROOF COVERINGS - 07300

2. PRODUCT NAME

RoofTopGuard II, High Performance Roofing Underlayment

3. MANUFACTURER

RKW Finland Ltd.
PO Box 22, FIN-28601 PORI, Finland • www.rooftopguard.com

4. PRODUCT DESCRIPTION

RoofTopGuard II is a 5-ply, 100% asphalt and asbestos free, high strength per formance roofing underlayment used on steep sloped roofs beneath composite, metal, clay, concrete, slate, wood and other roofing materials. RoofTopGuard II is a woven HDPE with a polyethylene film laminated with black LDPE on one side and in addition a nonwoven polypropylene layer is laminated with LDPE on the other side of the woven HDPE. RoofTopGuard II is approved as an alternate replacement for Type 15 or Type 30 asphalt roofing felt. RoofTopGuard II measures 60" wide and comes in 200' rolls weighing 43 lbs per roll. The coverage per roll is 9 1/4 squares. RoofTopGuard II is gray in color which helps reduce heat loads on attic structures.

5. APPROVALS

Metro Dade County: Passed PA 104-95 Testing - NOA No.12-0426.01
Exp.06/14/17
ICC-ES: Approval #ESR-2928
CAN/CSA: A220.1
Florida Building Code: FL 12145

6. INSTALLATION

RoofTopGuard II must be installed above properly ventilated spaces (follow local building code) as it is considered a vapor barrier. RoofTopGuard II is laid horizontally (parallel) to the eave with the printed side up, and with 4" horizontal laps and 6" vertical laps. (The use of a slip sheet is not required underneath metal roofing.) RoofTopGuard II must be attached to the structural Roof Deck Material using Plastic or Steel Cap roofing nails, having a minimum of 1" diameter cap, spaced at 12" on vertical and 15" on horizontal. All Plastic, or Steel Caps, must be attached flush with the underlayment surface and nails must be fastened at a 90 degree angle to the deck. Prior to loading the roofing materials onto the RoofTopGuard product it is recommended that a roof jack, with planks, toe boards, or a strong platform be secured to the underlying roofing deck to prevent slippage of stored materials on steep sloped roofs (greater than 4 : 12 pitch). See OSHA regulations (Standard 29 CFR), fall protection systems criteria and practices – 1926.502. For batten secured applications, the use of plastic cap roofing nails required only to secure the underlayment and prevent blow off until the batten system is installed. Where seams or joints require sealant or adhesive, use only a high quality, low solvent asbestos free plastic roofing cement meeting ASTM D-4586 Type 1 (Asbestos Free), Spec SS-153 Type 1 (Asbestos Free). Installing final roofing within 6 months from initial underlayment application is recommended.

7. TECHNICAL SERVICES

RoofTopGuard II provides a 50 year limited material warranty. For warranty and technical information, go to www.rooftopguard.com.

8. MAINTENANCE

None when installed in accordance with manufacturer's recommendations

TECHNICAL DATA/TESTING

TEST	CRITERIA	RESULTS
PA 104 Dimensional Stability	Tested at 180°F for six hours	No tears, cracks shrinking or wrinkling
ASTM D1938	General requirement is 3.5 pounds	Average result of 16.14 in one direction and 13.18 the other
ASTM D2523 Breaking strength (new)	General requirement is 20 pounds	Average result of 96.79 in one direction and 86.82 the other
ASTM D2523 Breaking strength (after UV exposure)	General requirement is 85% of new	Average result of 88% in one direction and 85% the other
ASTM D2523 Breaking strength (after heat aging)	General requirement is 85% of new	Average result of 98% in one direction and 91% the other
ASTM D2523 Elongation (new)	General requirement is minimum 25%	Average result of 29% in one direction and 27% the other
ASTM D2523 Elongation (after UV exposure)	General requirement is 85% of new	Average result of 86% in one direction and 87% the other
ASTM D2523 Elongation (after heat aging)	General requirement is 85% of new	Average result of 87% in one direction and 91% the other
ASTM D570 Water absorption	General requirement is maximum 3%	Average result of 2.4%
ASTM D1970 Cold flexibility (new)	Tested at 5° Fahrenheit	No cracking
ASTM D1970 Cold flexibility (aged)	Tested at 5° Fahrenheit	No cracking
ICBO EM AC48 Ultraviolet resistance	200 hours at 135 to 140°F	No peeling, chipping, cracking, flaking, pitting or other damage
PA 104 Accelerated aging	25 days of weather cycle	No visible damage; passes breaking strength and elongation tests
ICBO EM AC48 Cyclic elongation	100 elongation attempts after storing product at -20°F for 7 days	No cracking
PA 104 Puncture resistance	Five 1-lb puncture point drops each to new and aged product	No puncture
PA 104 Slippage resistance	Stacks of concrete and clay tiles	No tears, slippage, or pulling away from fasteners
ASTM D4518 Static friction	Control was 30-lb felt with a friction factor of 0.59 wet and 0.72 dry	Performs similarly with a Friction Factor of 0.49 wet and 0.82 dry
ASTM E331 Water penetration		No leakage found around fasteners when secured per instructions
ASTM E108, ICBO AC207 Class "A" fire rating	UL 790 Burning brand test Intermittent flame test	Passed 4 Class "A" Passed 2 Class "A"
ASTM D1204-08 Linear Dimensional Changes	Should not exceed 3% after 85°C/24 h	Length 1,5 % and width 2,1 %
ASTM E96-05 Water Vapor Transmission	Should not exceed 70 gram per square meter in 24 hours	0,6 grams per square meter in 24 hours

Testing Conclusion: RoofTopGuard II meets or exceeds criteria set by Metro Dade County, ICBO, BOCA, ICC-ES and CAN/CSA. RKW Finland Ltd is ISO 9001-2008 certified



Contact

RKW Danafilms, Inc.
Business Unit Westborough
5 Otis Street/P.O. Box 624
Westborough, Massachusetts 01581
Phone +1-508-366-8884 • Fax +1 508-898-0106
www.rooftopguard.com • www.rkw-group.com

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MATERIAL SAFETY DATA SHEET (MSDS)

1. PRODUCT IDENTIFICATION, COMPOSITION AND USE

PRODUCT NAME:	ROOFTOPGUARD II
Composition:	Woven HDPE with a polyethylene film is laminated with black LDPE on one side and in addition a nonwoven polypropylene layer is laminated with LDPE on the other side
Product Use:	Intended for use as a roofing underlayment
Manufacturer:	RKW Finland LTD. PO Box 22, Ulasoorintie 185, FIN-28601 Pori, Finland
Telephone:	+358 2 517 88 99
Fax:	+358 2 517 88 90

2. HAZARDOUS INGREDIENTS/WARNINGS

The product is chemically inactive and is biologically inert. It is not a skin irritant.

RoofTopGuard II underlayment's raw materials and additives contain no asbestos or asphalt products.

This declaration is based on individual approvals obtained by the suppliers of RKW Finland Ltd's raw materials and ingredients.

To avoid danger or suffocation, the product should be kept away from babies and children.

This product is not considered dangerous to the environment.

3. FIRE HAZARD

This product burns, but is not classified as flammable. Flash point is approximately 350° Celsius (662° F).

The final products at complete combustion are carbon dioxide and water. At incomplete combustion with reduced oxygen supply, carbon monoxide, which is highly toxic, may form.

As for many other compounds, like wood, paper and other products from oil other decomposition products like various hydrocarbons, acids and aldehydes may also form, but only in very small quantities.

4. FIRE FIGHTING

Water in a spread jet, dry chemical, foam and carbon dioxide can be used.

5. HANDLING

The product is stable under normal conditions of use, storage and transportation. For safe installation, it is recommended to follow installation instructions given by the manufacturer/seller.

6. WASTE HANDLING

The product can be used as landfill, or incinerated, as required.



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