

## INSTALLATION INSTRUCTIONS:

**CONSTRUCTION:** RoofAquaGuard BRE is a strong multilayer breathable sheet material, with outer layers of Polypropylene, an inner layer of micro-porous Polyethylene film, including reinforcement mesh. RoofAquaGuard BRE is a four-layer vapor permeable roofing underlay for use on pitched roofs. The slip-resistant "Shoe-Grip" top surface offers excellent foot traction. RoofAquaGuard BRE has a Peel & Stick tape on the horizontal laps. RoofAquaGuard BRE is LIGHT, STRONG AND SAFE. Made and proven in Europe.

**VENTILATION:** RoofAquaGuard BRE can be installed above non ventilated cold or warm roof applications (follow local building code) as it is considered a roofing underlayment.

**ROOF PITCH:** RoofAquaGuard BRE should not be used on slopes less than 2:12.

**LAYING METHOD:** RoofAquaGuard BRE 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.)

**FASTENING METHOD:** RoofAquaGuard BRE can be attached to the structural Roof Deck Material using Plastic Cap Staples, or roofing nails, having a minimum of 1" diameter cap, spaced at 12" on vertical and 14" 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. Follow the nailing pattern, which is marked by X's on the product.

**BATTEN APPLICATION:** For batten secured applications, the use of plastic cap roofing nails is required only to secure the underlayment and prevent blow off until the batten system is installed. DO NOT USE STAPLES TO SECURE BATTENS!

**TILE INSTALLATION:** For tile installations use a pressure sensitive, double sided tape such as MFM. Double Bond tape acting as a self-sealing gasket or an SBS peel and stick foil faced tape, or double sided tape approximately 2" in width, placed underneath the batten (parallel with the batten) to help seal any gaps between the underlayment and the battens.

**SITE PROTECTION:** Prior to loading the roofing materials onto the RoofAquaGuard BRE 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 (Standards-29 CFR), Fall Protection Systems Criteria and Practices-926.502.

**FINAL INSTALLATION:** Installing final roofing within 4 months from initial underlayment application is recommended.

### PRECAUTIONS AND LIMITATIONS

- Always wear fall protection when working on a roof deck.
- All underlayments can be slippery when wet, or covered by frost.
- Follow maximum recommended exposure guidelines when exposing underlayments to sunlight.
- Do not fold underlayments over the roof edge unless it is protected by flashing material.
- Do not install underlayments directly on old roof cladding.
- Check with the Manufacturer of Metal Roofing, for any special requirements when underlayment is installed under metal roofing which does not have proper ventilation.
- Underlayments are air and vapor barriers, therefore always provide proper roof insulation and ventilation.
- Repair holes, tears, and damage to membrane with a round patch of membrane extending past the damaged area 6 inches.

### SAFETY, STORAGE AND HANDLING

- Read all product labels and Material Safety Data Sheets (MSDS) for proper handling and disposal.
- Deliver all materials in manufacturer's unopened packages.
- Palletized material should be stacked only two high.
- Store all materials under cover.
- Avoid prolonged storage above 32°C (90°F).



**All material must be installed in compliance with applicable codes and ordinances**

### Marketing, Sales & Technical Support:

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### Manufactured for:

**NORDIC WATERPROOFING INC.**

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04361 Tuusula, Finland



## A Truly Breathable, Microporous Underlayment RoofAquaGuard BRE

A very strong, multilayer, breathable, mechanically fastened Synthetic Roofing Underlayment for use on pitched roofs

- Constructed around a "Microporous" Film that combines a Weather Barrier with excellent Breathability properties and additional reinforcement mesh
- Superior Non-Abrasive Surface and Excellent Walkability Characteristics
- Allows moisture to evaporate without letting in water or wind
- One of the best Breathable Synthetic Underlayment Products on the market using proven European Technology
- Suitable for Non-Ventilated Cold or Warm Roof Applications
- Hydrophobically Treated
- Microporous film is engineered with special polymer chemistry that uses less filler than conventional Microporous films and is thus truly breathable
- UV stable up to 4 months without final roof cover
- Excellent stability at High Temperatures
- PPE membranes are totally recyclable
- Limited 35 Year Warranty



**BREA**



**ROOFAQUAGUARD LIMITED WARRANTY**

Nordic Roofing Inc. ("Manufacturer") warrants to the buyer ("Buyer") of the Manufacturer's synthetic roofing underlayment product ("Product") that the Product will not prematurely deteriorate to the point of failure because of weathering for a period of 35 years from the sales invoice date ("Warranty Period") only if installed in a workmanlike manner strictly in accordance with and for the purpose stated in Manufacturer's installation instructions.

This warranty does not cover leaks or damage caused by any penetrations (including penetrations by fasteners or objects placed on the roof), or by animals, vandalism, fire, abusive conditions, inadequate or faulty structural design, structural defects, building alterations, natural forces such as tornados, hurricanes, earthquakes, other acts of nature, or any other cause beyond Manufacturer's control. This warranty covers the Product material only. Flashings, adhesives and other accessories used in the roofing system are not covered by this warranty. This warranty does not cover any costs or expenses associated with testing, repair, removal, or replacement of the Product.

To make a warranty claim, Buyer must, within 15 days from the date that the claimed defect in the Product was discovered: (1) Give Manufacturer written notice of the defect including, without limitation, detailed descriptions of how the Product was used, the defect and how and when the defect was discovered; (2) Deliver to Manufacturer field samples or digital pictures of the Product legibly showing the Product production codes and digital pictures showing the defect. To be effective, any such notice, samples and pictures must be sent by registered or certified mail to Manufacturer addressed as follows:

Nordic Roofing Inc.  
c/o Nemco Industries Inc.  
4655 Caulfeild Dr  
West Vancouver, BC V7W 1E9  
Canada

Manufacturer shall, at its sole option, and as Buyer's sole remedy, either, repair, refund the purchase price of, or provide replacement for, that portion of the Product which has been proven to be defective in a manner covered by this warranty. The value of these remedies shall be determined solely by the Manufacturer based upon the current prices for the Product prorated by the number of remaining months of the unexpired Warranty Period. The maximum pro-rated value for repair or refund shall not exceed the original Product purchase price. Any such replacement or refund shall constitute the limit of Manufacturer's liability or obligation for any defective Product. Buyer shall pay all handling and transport costs in connection with any warranty claim.

This warranty shall become void if any person not expressly authorized by Manufacturer performs any repairs or alterations within the Warranty Period or if Buyer fails to give notice of defect within the time and in the manner described above.

The warranty set forth herein is Manufacturer's sole and exclusive warranty for the Product. This warranty shall be the Buyer's exclusive remedy for any use of the Product against Manufacturer or its distributors or sales representatives. No representative of the manufacturer has authority to give any warranties except as stated herein. THERE ARE NO WARRANTIES EITHER EXPRESSED OR IMPLIED, EITHER AT COMMON LAW OR BY STATUTE INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES UNDER THE SALE OF GOODS ACT [RSBC 1996] C.410, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH MODIFY THE WARRANTY CONTAINED IN THIS DOCUMENT. MANUFACTURER SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES ARISING FROM THE USE OF THE PRODUCT, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS, DAMAGES TO THE STRUCTURE OR ITS CONTENTS, PERSONAL INJURY OR PUNITIVE DAMAGES, BASED ON ANY THEORY OF LAW WHATSOEVER.

No modification of this warranty or waiver of its terms shall be binding on either party unless approved in writing by an authorized representative of the party. This warranty may not be modified by any course of dealing or performance, trade usage or failure to enforce any term of this warranty. Buyer may not assign or permit any other transfer of this warranty without Manufacturer's written consent. If any of the terms contained herein are unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. No action for breach of this warranty may be commenced more than one year after the accrual of the cause of action. This warranty is the complete, final and exclusive agreement of the parties with respect to the quality or performance of the Product and any and all warranties for the Product. All legal aspects of this warranty including, without limitation, its interpretation, the rights and duties of the parties under this warranty and conflict of laws shall be governed by and construed in accordance with the laws of British Columbia, Canada, and the parties submit and attorn to the jurisdiction of the courts of the province of British Columbia.



**ROOFAQUAGUARD BREA (BREATHABLE ROOFING UNDERLAYMENT SPECIFICATION DATA)**

CHECKED CHARACTERISTICS	NORM (RELEVANT STANDARD)	VALUE	UNIT OF MEASURE	CONVERTED UNIT OF MEASURE
Product Code	KU0044	Roll Size	1.5m x 50m	59' x 164' (806 sf/roll)
No of Layers		Meltblown/fleece/grid combination	4	4
Weight Mass Per Unit Area	EN 1849-2 (TAS 104-95)	175 ± 5%	175 g/m <sup>2</sup> (13 kg/roll)	28.7 lb/roll
Thickness	EN 1849-2 (TAS 104-95)	0.8 ± 5%	0.75 mm	30 mil (0.03")
Tensile Strength (longitudinal)	EN 123311-1 (AC 38)	MD: 310±15% CD:340±15%	460N/5cm	52 lbf/in
Tensile Strength (transverse)	EN 123311-1 (AC 38)	MD: 310±15% CD:340±15%	400N/5cm	45 lbf/in
Elongation at Break wet strength longitudinal			20%	20%
Nail Tearing Strength (longitudinal)	EN 12310-1	MD: 190±15% CD:200±15%	350 N	39 lbf
Nail Tearing Strength (transverse)	EN 12310-1		375 N	42 lbf
UV Resistance	EN 13589-1 (AC 38)	4 months WDD=810 ± 15% 23°C 50-93%	4 months	4 months
Water Vapour Transmission Property	EN 13859-1 (AC 38)	RH	1043 g/m <sup>2</sup> -24h	*see chart below
Water Vapour resistance	BS 3177		0.18MNs/g	
Water Column			>3000mm H <sub>2</sub> O	118.1 in
Resistance to Temperature	EN 13859-1 (AC 38)		-40°C to 80°C	-40°F to 176°F
Approvals				ICC ESR #3021
Approvals				Miami Dade NOA #09-0915.10
Approvals				FL #13054

**\*chart**

TEST RESULT SUMMARY	METRIC UNITS		IMPERIAL UNITS	
Water Vapor Transmission	43	g/hr.m <sup>2</sup>	62	grns/hr.ft <sup>2</sup>
	1034	g/day.m <sup>2</sup>	1479	grns/day.ft <sup>2</sup>
Water Vapor Permeance	8333	ng/Pa.s.m <sup>2</sup>	146	perms
Water Vapor Permeability	4	ng/Pa.s.m	9530	Perm inch

**4-LAYER CONSTRUCTION**

