



## TECHNICAL PRODUCT DATA SHEET

## TECHNICAL DETAILS

WIDTH  $\pm \frac{1}{8}$ "  
19 $\frac{3}{4}$ " [489 mm]

LENGTH  $\pm \frac{1}{4}$ "  
38 $\frac{3}{4}$ " [972 mm]

EXPOSURE  
5 $\frac{3}{4}$ " [146 mm]

GRANULE ADHESION  
0.35 g [typical results]

SHINGLES/SQUARE  
65 [5 bundles/square]

SQUARES/PALLET  
6

## TEST COMPLIANCE

ASTM D7158 CLASS H

ASTM D3462 ASTM D3161 CLASS F

ASTM D3018 TYPE I

ASTM E108 CLASS A FIRE RATING

UL 2218 CLASS 4 CSA A123.5

ICC APPROVAL - ESR-3150

ICC-ES AC438

FBC APPROVAL - #14809



## FEATURES & BENEFITS

- Sustainable NEX® asphalt technology
- Exceptional all-weather performance
- Superior granular embedment
- Scotchgard™ Protector from 3M for algae resistance\*
- 3M™ Smog-Reducing Granules
- UL 2218 Class 4 impact resistance



Scotchgard is a trademark of 3M.

Effective 10/25  
Supersedes all previously published data.

Check for most current version at  
[WWW.MALARKEYROOFING.COM](http://WWW.MALARKEYROOFING.COM)

# WINDSOR® SCOTCHGARD™ PROTECTOR

NEX® Polymer Modified  
Heavyweight Designer Shingles

## PRODUCT USE

The 285 Windsor® Scotchgard™ Protector is a unique, open-tab shingle fortified with sustainable NEX® polymer modified asphalt technology and manufactured for the premium designer market. It provides increased flexibility, higher tensile strength, tear and impact resistance, plus features Scotchgard™ Protector from 3M to help protect against discoloration and black streaks caused by blue-green algae.\* Windsor® Scotchgard™ Protector has a 5 $\frac{3}{4}$ " exposure, one of the largest in the industry. Please consult Malarkey's Technical Services Department for approval of roof systems.

## COMPOSITION & MATERIALS

Windsor® Scotchgard™ Protector is a mineral-surfaced, self-sealing shingle, made with a NEX® polymer modified bitumen [asphalt] coating on fiberglass reinforcement, and carries a Class 'A' fire rating. Its surface incorporates an innovative combination of ceramic granules that provide varied color, weatherability, protection from blue-green algae, and even smog reduction.\*

## APPLICATION

Shingles should be applied over a Malarkey underlayment or an approved, code-compliant substitute. Installation instructions are available on the shingle wrapper by scanning the corresponding Quick Response [QR] code, on our website at [WWW.MALARKEYROOFING.COM](http://WWW.MALARKEYROOFING.COM), or by contacting your local Malarkey representative. Industry standards are found in NRCA manuals. Shingles should be attached to decking with approved fasteners, and Malarkey recommends the use of corrosion-resistant nails for this purpose. Staples are not allowed.

## PRECAUTION

For best results, Malarkey recommends Windsor® Scotchgard™ Protector shingles be protected from the weather and stored in a cool, dry, well-ventilated area until applied. Do not double-stack pallets. Do not use on roofs where the slope is less than 2:12 [2" [51 mm] per 12" [305 mm]]. For slopes 2:12 up to 4:12 [4" [102 mm] per 12" [305 mm]], a double layer of underlayment is required [IBC & IRC have an exception for a single layer of ASTM D1970 underlayment in lieu of a double layer]. Windsor® Scotchgard™ Protector shingles have a factory-applied self-sealing strip that activates in warm weather. When applied in cold weather or windy locations, hand-sealing is recommended but not required if sealant activates. On slopes 21:12 [21" [533 mm] per 12" [305 mm]] and greater, hand-sealing of tabs and nine nails are required. Contact Malarkey for further conditions and instructions.

## WARRANTY

The Windsor® Scotchgard™ Protector shingle carries a Limited Lifetime Warranty, a 110 mph [177 kph] Limited Wind Warranty, and can be combined with other Malarkey products for a 140 mph [225 kph] Enhanced Wind Warranty. Windsor® featuring Scotchgard™ Protector also carries Malarkey's Limited Lifetime Scotchgard™ Protector Warranty against the growth of blue-green algae.\* Contact your roofing contractor, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

Windsor® Scotchgard™ Protector and other Malarkey products are available throughout North America and Pacific Rim countries.

Visit [WWW.MALARKEYROOFING.COM](http://WWW.MALARKEYROOFING.COM) for additional product information and availability.

Note: Malarkey Roofing Products® Inventory SKU number for this product: 285 Windsor® Scotchgard™ Protector

\*The algae protection warranty applies only to blue-green algae [*Gloeocapsa magma*]. The warranty does not extend to, and expressly excludes, all other forms of algae, mold, mildew, lichens, moss, or any other biological growths. Coverage is subject to the specific terms, conditions, and limitations set forth in the applicable warranty documentation.

**TECHNICAL ASSISTANCE:**  
Malarkey has technical services assistance available.

Contact Malarkey for details:  
Call weekdays 7:00 am to 5:00 pm Pacific Time at  
800-545-1191 or 503-283-1191.

[malarkey.technicalinquiries@amrize.com](mailto:malarkey.technicalinquiries@amrize.com)

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