



TECHNICAL DETAILS

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| WIDTH ± 1/8" 19 1/4" 489 mm | LENGTH ± 1/8" 38 1/4" 972 mm |
| EXPOSURE 5 3/4" 146 mm | GRANULE ADHESION 0.35 g Typical Results |
| SHINGLES/SQUARE 65 5 bundles/square | SQUARES/PALLET 6 |

TEST COMPLIANCE

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| ASTM D7158 Class H | ASTM D3462 |
| ASTM D3161 Class F | ASTM D3018 Type I |
| ASTM E108 Class A Fire Rating | UL RATING 2218 Class 4 |
| CSA A123.5 | ICC APPROVAL ESR-3150 |
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| FBC APPROVAL #14809 | ICC-ES ACCEPTANCE AC438 |

FEATURES & BENEFITS

- Sustainable NEX® asphalt technology
- Exceptional all-weather performance
- Superior granular embedment
- Scotchgard™ Protector from 3M for algae protection
- 3M™ Smog-Reducing Granules
- UL 2218 Class 4 impact resistance
- Limited Lifetime Shingle Warranty
- Limited & Enhanced Wind Warranties

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 for added protection against discoloration and black streaks caused by algae. Windsor® Scotchgard™ Protector has a 5 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, algae protection, and now, 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, 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 algae growth and staining. 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 for additional product information and availability.

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



Scotchgard and the Scotchgard Protector logo, including the 3M logo are all trademarks of 3M.

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.
technicalinquiries@malarkeyroofing.com

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