



TECHNICAL DETAILS

WEIGHT/SQUARE 242 lbs. 109.8 kg	EXPOSURE 5 ⁵ / ₈ " 143 mm
SHINGLES/SQUARE 64 4 bundles/square	GRANULE ADHESION 0.45 g Typical Results
WIDTH ± 1/8" 13 ¹ / ₄ " 337 mm	LENGTH ± 1/4" 40" 1.02 m
SQUARES/PALLET 12 from OR/OK	

TEST COMPLIANCE

ASTM D7158 Class H	ASTM D3462
ASTM D3161 Class F	ASTM D3018 Type I
ASTM E108 Class A Fire Rating	CSA A123.5
ICC APPROVAL ESR-3150	FBC APPROVAL #14809
	
	CEC Title 24, Part 6 Compliant [†]

See page 2 for solar reflectance technical data.

FEATURES & BENEFITS

- Scotchgard™ protection from 3M
- Superior granular embedment
- The Zone® nailing area
- Double rain seal protection
- Limited Lifetime Shingle Warranty
- Limited & Enhanced Wind Warranties

[†] CRRC and California Energy Code Title 24, Part 6 only applies to Highlander® Dove White and Golden Amber shingles.

LAMINATED ARCHITECTURAL SHINGLES



PRODUCT USE

The Highlander® featuring Scotchgard™ is a laminated asphalt shingle used whenever superior architectural design, tensile strength, and algae- and tear-resistance in shingles is desired. The Highlander® featuring Scotchgard™ has both the Scotchgard™ Algae Resistant Shingle Protector from 3M, which is the most effective solution available against algae staining, and the exclusive nailing accuracy-enhancing design of The Zone®. The larger nailing area of The Zone® dramatically improves correct fastener placement. Please consult Malarkey's Technical Services Department for approval of roof systems.

COMPOSITION & MATERIALS

The Highlander® featuring Scotchgard™ is manufactured on a woven fiberglass mat and impregnated on both sides with bitumen (asphalt) that is compounded with a fire-retardant mineral stabilizer. Its surface is thoroughly embedded with Scotchgard™ algae-resistant granules.

APPLICATION

Shingles should be applied over a Malarkey underlayment or an approved, code-compliant substitute. Installation instructions are available on the shingle wrapper, 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 The Highlander® featuring Scotchgard™ 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]), additional deck protection is required. The Highlander® featuring Scotchgard™ has 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 greater than 21" (533 mm) per 12" (305 mm), hand-sealing underneath and six nails are required. Contact Malarkey for further conditions and instructions.

WARRANTY

Malarkey Roofing Products® offers various warranties to meet specific requirements. The warranty packages available for the Highlander® featuring Scotchgard™ include a Limited Lifetime Warranty, a 110 mph (177 kph) Limited Wind Warranty, and can be combined with other Malarkey products for a 130 mph (209 kph) Enhanced Wind Warranty. Highlander® featuring Scotchgard™ also carries a 20-year Algae Resistant Shingle warranty against algae growth. Contact your roofer, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

The Highlander® featuring Scotchgard™ 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® (Malarkey) Inventory SKU number for this product: 277 Highlander® featuring Scotchgard™ Protector from 3M

TECHNICAL ASSISTANCE:

Malarkey has technical services assistance available.
Contact Malarkey for details:
Call weekdays 7:00 am to 5:00 pm PST,
at 800.545.1191 or 503.283.1191.
technicalinquiries@malarkeyroofing.com

CORPORATE OFFICE:

3131 N. Columbia Blvd. Telephone: 503.283.1191
Portland, OR 97217-7472 or 800.545.1191
P.O. Box 17217 Fax: 503.289.7644
Portland, OR 97217-0217



LAMINATED ARCHITECTURAL SHINGLES

SOLAR REFLECTANCE TECHNICAL DATA

Highlander® featuring Scotchgard™ Dove White and Golden Amber are listed with the Cool Roof Rating Council. Highlander® featuring Scotchgard™ Dove White and Golden Amber have tested to these radiative property values:



Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

	HIGHLANDER® FEATURING SCOTCHGARD™ (DOVE WHITE)		HIGHLANDER® FEATURING SCOTCHGARD™ (GOLDEN AMBER)	
	INITIAL	WEATHERED	INITIAL	WEATHERED
SOLAR REFLECTANCE	Pending	Pending	Pending	Pending
THERMAL EMITTANCE	Pending	Pending	Pending	Pending
SOLAR REFLECTIVE INDEX (SRI)	Pending	Pending	Pending	Pending
Related Product ID Licensed Manufacturer ID: 0850 Classification: Production Line	0850-0014		0850-0024	

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Effective 6/16
Supersedes all previously published data

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