

# HIGHLANDER®, HIGHLANDER® AR & HIGHLANDER®

STEEP SLOPE - RESIDENTIAL - LAMINATE - SKU: 271 / 276 / 277

#### **TECHNICAL DETAILS**

WEIGHT/SQUARE 242 lbs. 109.8 kg	<b>EXPOSURE</b> 55/8" 142.9 mm	
SHINGLES/SQUARE 64 4 bundles/square	GRANULE ADHESION 0.45 g Typical Results	
WIDTH ± 1/4" 131/4" 337 mm	LENGTH ± ¼" 40" 1.02 m	
SQUARES/PALLET		

#### TEST COMPLIANCE

12

TEST CONFLIANCE		
ASTM D7158 Class H	<b>аsтм</b> D3462	
ASTM D3161 Class F	ASTM D3018 Type I CSA A123.5	
ASTM E108 Class A Fire Rating		
ICC APPROVAL ESR-3150	#14809	







Title 24, Part 6

See page 2 for solar reflectance technical data.

#### **FEATURES & BENEFITS**

- Scotchgard  $^{\text{\tiny{M}}}$  Protection from 3M
- Algae Resistant
- Superior Granular Embedment
- The Zone® Nailing Area
- Double Rain Seal Protection
- Limited Lifetime Shingle Warranty
- Limited & Enhanced Wind Warranties
- ENERGY STAR, CRRC and California Energy Code Title 24, Part 6 only apply to Highlander® Dove White shingles.

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Effective 5/15
Supersedes all previously published data

Check for most current version on our website.

# LAMINATED ARCHITECTURAL SHINGLES



#### **PRODUCT USE**

The Highlander®, Highlander® AR and Highlander® featuring Scotchgard™ are laminated asphalt shingles used whenever increased flexibility, architectural design, tensile strength, and tear-resistance in shingles is desired. The Highlander® line features the exclusive nailing accuracy-enhancing design of The Zone®. The larger nailing area of The Zone® dramatically improves correct fastener placement. Highlander® Dove White shingles meet the required reflectance to be designated with some of the industry's leading energy conservation standards: ENERGY STAR, CRRC listing, and California Energy Code Title 24, Part 6 compliance. Please consult Malarkey's Technical Services Department for approval of roof systems.

#### **COMPOSITION & MATERIALS**

The Highlander® shingle line is manufactured on a woven fiberglass mat and impregnated on both sides with bitumen (asphalt) that is compounded with a fire-retardant mineral stabilizer. The Highlander® line is surfaced with embedded ceramic granules for ultraviolet protection and weatherability. Highlander® AR and Highlander® featuring Scotchgard™ are surfaced with 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® shingle line 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® shingle line 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. In high wind areas and on slopes greater than 12" (305 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® shingle line 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® AR features 10 years of algae resistant protection and Highlander® featuring Scotchgard™ carries a 20-year Scotchgard™ warranty against algae growth. Contact your roofer, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

The Highlander® shingle line 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 numbers for this product: 271 Highlander®, 276 Highlander® AR and 277 Highlander® featuring the Scotchgard™ Algae Resistant Shingle 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. Portland, OR 97217-7472 P.O. Box 17217

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## Highlander<sup>®</sup>, HIGHLANDER® AR & Highlander®

STEEP SLOPE - RESIDENTIAL



### LAMINATED ARCHITECTURAL SHINGLES

#### **SOLAR REFLECTANCE TECHNICAL DATA**

Highlander® Dove White is listed with the Cool Roof Rating Council. Highlander® Dove White has 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.

	INITIAL	WEATHERED
SOLAR REFLECTANCE	0.27	0.27
THERMAL EMITTANCE	0.90	0.96
SOLAR REFLECTIVE INDEX (SRI)	28	31
Related Product ID Licensed Manufacturer ID Classification	0850-0014 0850 Production Line	



Energy Star only applies to the Highlander® Dove White shingle. Energy Star is only recognized in the U.S., not in Canada.

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