

**TECHNICAL DETAILS**

<b>WIDTH ± 1/8"</b> 13 1/4" 337 mm	<b>LENGTH ± 1/4"</b> 40" 1.02 m
<b>EXPOSURE</b> 5 5/8" 143 mm	<b>GRANULE ADHESION</b> 0.45 g Typical Results
<b>SHINGLES/SQUARE</b> 64 4 bundles/square	<b>SQUARES/PALLET</b> 14 from OK

## LAMINATED ARCHITECTURAL SHINGLES



**TEST COMPLIANCE**

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

**PRODUCT USE**

The 276 Highlander® AR is a laminated asphalt shingle used whenever architectural design, tensile strength, and algae- and tear-resistance in shingles is desired. Highlander® AR features 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**

Highlander® AR is manufactured on a non-woven fiberglass mat and impregnated on both sides with bitumen (asphalt) that is compounded with a fire-retardant mineral stabilizer. Its surface incorporates a combination of ceramic granules that provide varied colors (6), 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](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.



**FEATURES & BENEFITS**

- High quality, traditional roofing asphalt
- Larger nailing area of The Zone®
- Double rain seal protection
- 3M™ Smog-Reducing Granules
- Limited Lifetime Shingle Warranty
- Limited & Enhanced Wind Warranties
- Algae Resistant System Warranty

**PRECAUTION**

For best results, Malarkey recommends Highlander® AR 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). Highlander® AR 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 Highlander® AR 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 also features a 10-year Algae Resistant System Warranty from Malarkey. Contact your roofer, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

The Highlander® AR 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: 276 Highlander® AR

**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](mailto:technicalinquiries@malarkeyroofing.com)

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Check for most current version on our website.