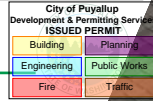




## TECHNICAL PRODUCT DATA SHEET

## TECHNICAL DETAILS



WIDTH  $\pm 1/8$ "  
13 $3/4$ " [337 mm]

LENGTH  $\pm 1/4$ "  
38 $7/8$ " [0.99 m]

EXPOSURE  
5 $5/8$ " [143 mm]

GRANULE ADHESION  
0.35 g [typical results]

SHINGLES/SQUARE  
66 [3 bundles/square]

SQUARES/PALLET  
16

## 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 3 CSA A123.5

ICC APPROVAL - ESR-3150

ICC-ES AC438

FBC APPROVAL - FL36890



## FEATURES &amp; BENEFITS

- Sustainable NEX<sup>®</sup> asphalt technology
- Superior granular embedment and tear resistance
- Larger nailing area of The Zone<sup>®</sup>
- Double rain seal protection
- Algae-resistant
- 3M<sup>™</sup> Smog-Reducing Granules



Effective 08/23  
Supersedes all previously published data.

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

# HIGHLANDER<sup>®</sup> AR

## NEX<sup>®</sup> Polymer Modified Architectural Shingles

## PRODUCT USE

Full-Size legible color report is required to be provided by the Permittee on site for all Inspections

PRRF20240868

242 Highlander<sup>®</sup> AR is a laminated, algae-resistant asphalt shingle fortified with sustainable NEX<sup>®</sup> polymer modified asphalt technology for enhanced granule adhesion and increased weather protection. Highlander<sup>®</sup> AR also features the exclusive nailing accuracy-enhancing design of The Zone<sup>®</sup>, a larger nailing area that dramatically improves correct fastener placement. Please consult Malarkey's Technical Services Department for approval of roof systems.

## COMPOSITION &amp; MATERIALS

Highlander<sup>®</sup> AR is manufactured on a non-woven fiberglass mat and coated on both sides with NEX<sup>®</sup> polymer modified bitumen [asphalt] that is compounded with a fire-retardant mineral stabilizer. Its surface incorporates an innovative combination of ceramic granules that provide varied color, weatherability, algae protection, even smog reduction.

## APPLICATION

Shingles should be applied over a Malarkey underlayment or an approved, code-compliant substitute. Installation instructions, in three languages, 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 Highlander<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> offers various warranties to meet specific requirements. The warranty packages available for Highlander<sup>®</sup> 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<sup>®</sup> 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.

Highlander<sup>®</sup> 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<sup>®</sup> Inventory SKU number for this product: 242 Highlander<sup>®</sup> AR

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

**CORPORATE OFFICE:**  
3131 N. Columbia Blvd. Portland, OR 97217-7472  
P.O. Box 17217 Portland, OR 97217-0217

**TELEPHONE:**  
503-283-1191 or 800-545-1191

**FAX:** 503-289-7644

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