




TECHNICAL DETAILS

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| WIDTH ± 1/8" 13 1/4" 337 mm | LENGTH ± 1/8" 39 3/8" 1.0 m |
| EXPOSURE 5 5/8" 143 mm | GRANULE ADHESION 0.35 g Typical Results |
| SHINGLES/SQUARE 66 3 bundles/square | SQUARES/PALLET 16 |

**NEX® POLYMER MODIFIED
ALGAE-RESISTANT
3-TAB SHINGLES**



TEST COMPLIANCE

| | |
|--|--|
| 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 |
|  |  |
|  | Compliant with CEC Title 24, Part 6 Cool Roof Requirements† |

PRODUCT USE

203 Dura-Seal™ AR is a 3-tab, algae-resistant, metric-based, asphalt shingle. The metric dimension translates to fewer shingles required per square measurement than standard-sized shingles. Dura-Seal™ AR is fortified with sustainable NEX® polymer modified asphalt technology for enhanced granule adhesion and increased weather protection. Dura-Seal™ AR *Ivory Mist* has measured radiative property values listed with the Cool Roof Rating Council, and can be used to comply with California Energy Code Title 24, Part 6 Cool Roof Requirements. Please consult Malarkey's Technical Services Department for approval of roof systems.

COMPOSITION & MATERIALS

Dura-Seal™ AR is manufactured on a non-woven fiberglass mat and coated on both sides with NEX® 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; other granules increase energy efficiency by adding solar reflectivity.

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.

FEATURES & BENEFITS

- Fortified with sustainable NEX® polymer modified asphalt technology
- Exceptional all-weather performance
- UL 2218 Class 4 impact resistance
- 3M™ Smog-Reducing Granules
- Limited 25-Year Shingle Warranty
- Algae Resistant System Warranty

PRECAUTION

For best results, Malarkey recommends Dura-Seal™ AR 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). The Dura-Seal™ AR shingle 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 of tabs 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 Dura-Seal™ AR include a Limited 25-Year Shingle Warranty, a 60 mph (97 kph) Limited Wind Warranty, and can be combined with other Malarkey products for a 70 mph (113 kph) Enhanced Wind Warranty. Dura-Seal™ AR also features a 5-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.

Dura-Seal™ AR 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: 203 Dura-Seal™ 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

CORPORATE OFFICE:

3131 N. Columbia Blvd. Telephone: 503.283.1191
Portland, OR 97217-7472 or 800.545.1191
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Effective 2/20
Supersedes all previously published data
Check for most current version
on our website.



**NEX® POLYMER MODIFIED
ALGAE-RESISTANT
3-TAB SHINGLES**

SOLAR REFLECTANCE TECHNICAL DATA

Dura-Seal™ AR Ivory Mist is listed with the Cool Roof Rating Council and has been 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 these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

| | DURA-SEAL™ AR (IVORY MIST) | |
|---|-------------------------------|-----------|
| | INITIAL | WEATHERED |
| SOLAR REFLECTANCE | 0.25 | 0.24** |
| THERMAL EMITTANCE | 0.93 | 0.93** |
| SOLAR REFLECTIVE INDEX (SRI) | 27 | 25** |
| Related Product ID Licensed Manufacturer ID: 0850 Classification: Production Line | 0850-0063 | |

***Calculated using California Energy Commission SRI Calculator Worksheet*