




**TECHNICAL DETAILS**

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

**NEX® POLYMER MODIFIED  
ALGAE-RESISTANT  
3-TAB 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>UL RATING</b> 2218 Class 4
	
	<b>ICC APPROVAL</b> ESR-3150

**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](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.

See page 2 for solar reflectance technical data.

**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.

† CRRC and California Energy Code Title 24, Part 6 only applies to Dura-Seal™ AR *Ivory Mist* shingles.

**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](http://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](mailto: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



**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
<b>SOLAR REFLECTANCE</b>	0.25	0.24**
<b>THERMAL EMITTANCE</b>	0.93	0.93**
<b>SOLAR REFLECTIVE INDEX (SRI)</b>	27	25**
Related Product ID <b>Licensed Manufacturer ID: 0850</b> <b>Classification: Production Line</b>	0850-0063	

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