



LAMINATED REFLECTIVE SHINGLE


Product Description

Product Use: The Ecoasis™ Sol is a solar reflective, laminated asphalt shingle. Ecoasis™ Sol features the exclusive nailing accuracy-enhancing design of *The Zone*®. The larger nailing area dramatically improves correct fastener placement. Ecoasis™ Sol 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 Technical Services for approval of roof systems.

Composition and Materials: Ecoasis™ Sol is manufactured on fiberglass mat and impregnated and coated on both sides with bitumen (asphalt) that is compounded with a fire-retardant mineral stabilizer. Ecoasis™ Sol is surfaced with embedded ceramic granules for ultraviolet protection and weatherability.

Technical Details

Specifications	Properties
Weight/ Square (nominal)	242 lbs. (109.8 kg)
Dimensions	13¼" (±½)" wide x 40" (±¼)" long (337 mm wide x 1.02 m long)
Exposure	5⅝" (142.9 mm)
Shingles/ Square	64 shingles (4 bundles/ square)
Granule Adhesion	Maximum 1 g loss
Fire Rating	Class 'A' (ASTM E108)
As manufactured, Ecoasis™ Sol meets ASTM D3018 Type I, ASTM D3161 Class F, ASTM D3462, ASTM D7158 Class H, ASTM E108 Class A, and CSA A123.5. Listed with UL, Intertek/WHI and CRRC (see pg. 2 for CRRC values), ENERGY STAR, and California Energy Code, Title 24, Part 6. ICC Approval - ESR 3150 FBC Approval - #14809	

Application

Application Procedure: All 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 by approved fasteners, and Malarkey recommends the use of corrosion-resistant nails for fastening.

Precautions: The Ecoasis™ Sol shingle requires dry storage or plastic-covered storage and protection from the weather until applied. Do not use on roofs where the slope is less than 2" (51 mm). For slopes 2" (51 mm) to 4" (102 mm), additional deck protection is recommended. The Ecoasis™ Sol 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. In high wind areas, six nails are required. Contact Malarkey for further conditions and instructions.

Technical Assistance: Malarkey has technical services assistance available. Contact Malarkey for details at (800) 545-1191 or (503) 283-1191, weekdays 7:00 am to 5:00 pm Pacific Time.

Warranty

The Ecoasis™ Sol shingle carries a Limited Lifetime Shingle Warranty with 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. Contact your roofer, local distribution center, or Malarkey for full details.

Details are available at WWW.MALARKEYROOFING.COM.

Ecoasis™ Sol 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: **280 Ecoasis™ Sol**





TECHNICAL PRODUCT DATA SHEET

Solar Reflectance Technical Data:

Ecoasis™ Sol is listed with the Cool Roof Rating Council, ENERGY STAR, and is compliant with California Energy Code, Title 24, Part 6.

Ecoasis™ Sol has tested to these radiative property values:

	Use ID number on packaging to match with corresponding rating on this label (checked box)	<input type="checkbox"/> Ecoasis™ Sol (Mesquite)		<input type="checkbox"/> Ecoasis™ Sol (Adobe)	
	Classification: Production Line	Initial	Weathered	Initial	Weathered
	Solar Reflectance	0.28	0.26	0.28	0.26
	Thermal Emittance	0.89	0.96	0.91	0.96
	Rated Product ID Number	0850-10		0850-12	
Licensed Seller ID Number: 0850	<p>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.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</p>				

	Use ID number on packaging to match with corresponding rating on this label (checked box)	<input type="checkbox"/> Ecoasis™ Sol (Agave)		<input type="checkbox"/> Ecoasis™ Sol (Tumbleweed)	
	Classification: Production Line	Initial	Weathered	Initial	Weathered
	Solar Reflectance	0.25	0.25	0.26	0.25
	Thermal Emittance	0.92	0.96	0.91	0.97
	Rated Product ID Number	0850-15		0850-17	
Licensed Seller ID Number: 0850	<p>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.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</p>				

Manufacturing location: South Gate, CA	Mesquite	Adobe	Agave	Tumbleweed
Recycled Content	0%	0%	0%	0%
Solar Reflective Index (SRI) Initial	29	30	26	27
3 Year Aged Solar Reflective Index (SRI)	29	29	28	28

*The calculator used in this calculation was the US Green Building Council (USGBC) LEED-NC 2.2 as of June, 2010. According to the USGBC Frequently Asked Questions: "Products cannot be certified; however, they can contribute to points under the rating system as a part of a successful submittal."