



TECHNICAL DETAILS

WEIGHT/SQUARE 350 lbs. 158.8 kg	EXPOSURE 5¾" 146 mm
SHINGLES/SQUARE 65 5 bundles/square	GRANULE ADHESION 0.35 g Typical Results
WIDTH ± ¼" 19¼" 489 mm	LENGTH ± ¼" 38¼" 972 mm
SQUARES/PALLET 6 from OR/CA/OK	

ELEGANT HEAVYWEIGHT FLEXOR™ SBS POLYMER MODIFIED, SOLAR REFLECTIVE DESIGNER 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
CSA A123.5	
	CEC Title 24, Part 6 Compliant

See page 2 for solar reflectance technical data.

FEATURES & BENEFITS

- Solar reflective shingles in four colors
- Flexor™ SBS polymer modified asphalt
- Extreme weather protection
- Superior granular embedment
- All-weather flexibility
- Rain seal protection
- Easy application
- Scotchgard™ protection from 3M
- Limited Lifetime Shingle Warranty
- Limited & Enhanced Wind Warranties

PRODUCT USE

The Windsor® Ecoasis™ line of elegant, heavyweight designer shingles are solar reflective and fortified with Malarkey's Flexor™ SBS polymer modified asphalt technology for increased flexibility, extreme weather protection, and superior granule adhesion. The shingles have a 5¾" exposure, and Windsor® Ecoasis™ Scotchgard™ features Scotchgard™ Protector for added protection against black streaks caused by algae.

COMPOSITION & MATERIALS

Windsor® Ecoasis™ shingles are manufactured on fiberglass mats, impregnated and coated on both sides with Flexor™ SBS polymer modified asphalt compounded with a mineral stabilizer, and surfaced with 3M™ Cool Roofing Granules for increased solar reflectance and thermal emittance. Windsor® Ecoasis™ Scotchgard™ also has algae resistant, ceramic granules. All carry a Class 'A' fire rating.

APPLICATION

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 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 Windsor® Ecoasis™ 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]), additional deck protection is required. Windsor® Ecoasis™ shingles have 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 21:12 (21" [533 mm] per 12" [305 mm]) and greater, hand-sealing of tabs and nine nails are required. Contact Malarkey for further conditions and instructions.

WARRANTY

Windsor® Ecoasis™ shingles each carry a Limited Lifetime Warranty, a 110 mph (177 kph) Limited Wind Warranty, and can be combined with other Malarkey products for 140 mph (225 kph) Enhanced Wind Warranties. Windsor® Ecoasis™ with Scotchgard™ also features Malarkey's full 20-year Algae Resistant Shingle warranty against algae growth. Contact your roofing contractor, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

Windsor® Ecoasis™ shingles 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 numbers for these products: 286 Windsor® Ecoasis™ and 287 Windsor® Ecoasis™ featuring Scotchgard™ Protector from 3M

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

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

ELEGANT HEAVYWEIGHT
FLEXOR™ SBS POLYMER
MODIFIED, SOLAR REFLECTIVE
DESIGNER SHINGLES



SOLAR REFLECTANCE TECHNICAL DATA

Windsor® Ecoasis™ and Windsor® Ecoasis™ with Scotchgard are listed with the Cool Roof Rating Council. They have 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 that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

	WINDSOR® ECOASIS™ (WILLOW WOOD)		WINDSOR® ECOASIS™ (FROSTED GRANITE)	
	INITIAL	WEATHERED	INITIAL	WEATHERED
SOLAR REFLECTANCE	0.20	Pending	0.21	Pending
THERMAL EMITTANCE	0.93	Pending	0.91	Pending
SOLAR REFLECTIVE INDEX (SRI)	20	Pending	21	Pending
Related Product ID Licensed Manufacturer ID: 0850 Classification: Production Line	0850-0035		0850-0036	

	WINDSOR® ECOASIS™ SCOTCHGARD (TUMBLEWEED)		WINDSOR® ECOASIS™ SCOTCHGARD (AGAVE)	
	INITIAL	WEATHERED	INITIAL	WEATHERED
SOLAR REFLECTANCE	0.26	Pending	0.29	Pending
THERMAL EMITTANCE	0.92	Pending	0.94	Pending
SOLAR REFLECTIVE INDEX (SRI)	28	Pending	32	Pending
Related Product ID Licensed Manufacturer ID: 0850 Classification: Production Line	0850-0033		0850-0034	

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