

TECHNICAL DETAILS

WIDTH ± 1/8" 13 1/4" 337 mm	LENGTH ± 1/8" 38 1/4" 972 mm
EXPOSURE 5 3/4" 146 mm	GRANULE ADHESION 0.35 g Typical Results
SHINGLES/BUNDLE 22	BUNDLES/PALLET 24
LINEAR COVERAGE 70' 21.3 m	

TEST COMPLIANCE

ASTM D3462	UL RATING 2218 Class 4
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FEATURES & BENEFITS

- Required with Windsor® shingle installation
- Available in Windsor® colors to match
- Sustainable NEX® asphalt technology
- Exceptional all-weather performance
- UL 2218 Class 4 impact resistance
- Scotchgard™ algae protection
- 3M™ Smog-Reducing Granules
- Limited Lifetime Shingle Warranty



**NEX® POLYMER MODIFIED
WINDSOR® STARTER SHINGLES**



PRODUCT USE

The 212 Windsor® Starter is a NEX® polymer modified asphalt starter shingle manufactured for use with designer Windsor® shingles. It provides the same increased flexibility, higher tensile strength, all-weather performance, and premium impact resistance as Windsor® shingles, plus features Scotchgard™ Protector from 3M™ against algae staining.

COMPOSITION & MATERIALS

Windsor® Starter is manufactured on a non-woven fiberglass mat and impregnated 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. Windsor® Starter is blended to match Windsor® shingle colors.

APPLICATION

Windsor® Starter shingles should be applied over a Malarkey underlayment (or an approved, code-compliant substitute) and under the first course of Windsor® shingles. Malarkey requires installation of our Smart Start™ starter shingles first, followed by the Windsor® Starter. 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. 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.

PRECAUTION

For best results, Malarkey recommends Windsor® Starter 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). On slopes 21:12 (21" [533 mm] per 12" [305 mm]) and greater, hand-sealing underneath and six (6) nails are required. Contact Malarkey for further conditions and instructions.

WARRANTY

Required with Malarkey Windsor® shingles, Windsor® Starter carries the same Limited Lifetime Warranty, a 110 mph (177 kph) Limited Wind Warranty, and can be combined with other Malarkey products for a 140 mph (225 kph) Enhanced Wind Warranty. In addition, Windsor® Starter also carries Malarkey's Limited Lifetime Scotchgard™ Protector Warranty against algae growth. Contact your roofing contractor, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

The Windsor® Starter 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: 212 Windsor® Starter 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 Pacific Time
at 800.545.1191 or 503.283.1191.
technicalinquiries@malarkeyroofing.com

CORPORATE OFFICE:

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on our website.