

TECHNICAL PRODUCT DATA SHEET

TECHNICAL DETAILS

WIDTH ± ¼"	LENGTH ± %"
13¼"	381/4 "
337 mm	972 mm
EXPOSURE	GRANULE ADHESION
5 ³ /4"	0.35 g
146 mm	Typical Results
shingles/bundle	bundles/pallet
22	24

70' 21.3 m

TEST COMPLIANCE

ASTM	UL RATING
D3462	2218
	Class 4



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[™] Protector from 3M for algae protection
- 3M[™] Smog-Reducing Granules
- Limited Lifetime Shingle Warranty



NEX[®] POLYMER MODIFIED WINDSOR® STARTER SHINGI FS

STEEP SI OPE



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 laver of underlayment is required (IBC & IBC have an exception for a single laver 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

- RESIDENTIAL - STARTER SHINGLES - SKU: 212 WINDSOR" Scotchear

DSO

TER SHINGLE



TECHNICAL ASSISTANCE:

Malarkev 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. technicalinguiries@malarkeyroofing.com

CORPORATE OFFICE:

Portland, OR 97217-0217

Telephone: 503.283.1191 3131 N. Columbia Blvd. Portland, OR 97217-7472 or 800.545.1191 P.O. Box 17217

Fax: 503.289.7644

Supersedes all previously published data Check for most current version on our website.

Effective 1/22

Scotchgard and the Scotchgard Protector logo, including the 3M logo are all trademarks of 3M.

WWW.MALARKEYROOFING.COM

STEEP SLOPE - RESIDENTIAL - STARTER SHINGLES - WINDSOR® STARTER - SKU: 212

Page 1 of 1