

TECHNICAL PRODUCT DATA SHEET

HIGHLANDER-CS™

Note: Malarkey Roofing Products™ (Malarkey) inventory **SKU numbers** for this product:
271 Highlander-CS, 277 Highlander-CS AR with algae resistant granules.

Product Use and Composition: Highlander-CS™ is a self-sealing, oxidized asphalt laminated shingle. Highlander-CS is used when an architectural design with a 5-5/8" exposure is chosen as a water shedding roof system. Highlander-CS is available with algae resistant granules. Consult the [Malarkey Product Data Guide](#) or www.MalarkeyRoofing.com for color availability.

Application Procedure: Installation instructions are available on either the shingle wrapper or at www.MalarkeyRoofing.com. Industry recommendations are found in current NRCA and ARMA documents. Install this product over an acceptable underlayment such as **Malarkey Right Start UDL™**. Secure shingles to the deck with approved fasteners. Nailing accuracy is enhanced by featuring the exclusive design with **'THE ZONE™'**.

TECHNICAL DATA:
Typical Average Properties

Approximate Weight	242 lbs. (111 Kg) per square
Dimensions	13-1/4"(± 1/8") x 40" (± 1/4")
Exposure	5-5/8" (143 mm) (.33 m x 1 m)
Shingles per square	64 shingles (4 bundles/square)
Granule Adhesion	Max. 1.0 gram loss
Fire Rating	Class 'A'
Warranties	30-year Limited Material Warranty
	70 mph (113 kph) Limited Wind Warranty
Algae Resistance Warranty	Highlander-CS sku #277 features a 10-year AR Warranty

Highlander-CS meets or exceeds ASTM D 3018, ASTM D 3462 Type I; CAN/CSA A 123.5M90; ASTM E 108 Class 'A'; ASTM D 3161; ASTM D 7158, Class 'H'; (ANSI/UL 2390 & ASTM D 6381)

Warranty: Warranty documents may be obtained from the roofer, local distribution center or Malarkey. Deviations from Malarkey printed application procedures may affect warranty coverage.

Precautions: Until installed, Highlander-CS shingles require dry, plastic covered storage and protection from the weather. Minimum deck slope is 2":12" and for slopes between 2":12" and up to 4":12", additional deck protection is recommended or maybe required by code. Highlander-CS laminated shingles have a factory applied self-sealing strip that activates in warm weather. In cold weather or dusty/windy conditions, if shingle sealant does not activate, hand-sealing is recommended.

Technical Assistance: Malarkey has technical services assistance available. Contact Malarkey for details at (800) 545-1191 or (503) 283-1191; Weekdays 7:00 a.m. to 5:00 p.m. Pacific Time.

"The Zone" technology, US Patent nos. 6145265, 6397546. Other US and foreign patents pending.

Effective 04.08 | Supersedes all previously published data.

For most current version, go to www.MalarkeyRoofing.com