

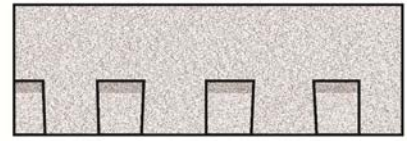
## Technical Data Sheet

### NorthGate® SBS Modified Asphalt Shingles



#### PRODUCT INFORMATION

NorthGate SBS modified asphalt shingles reflect the same high manufacturing standards and superior warranty protection as the rest of CertainTeed's line of roofing products. NorthGate shingles are built with the industry's toughest fiber glass mat base, and their strict dimensional tolerance assures consistency. Complex granule color blends and subtle shadow lines produce a distinctive color selection.



NorthGate SBS polymer modified shingles are produced with the unique NailTrak® nailing feature.

**Please see the installation instruction section below for important information regarding NailTrak.**

NorthGate algae-resistant (AR) shingles have the additional attribute of resisting the growth of algae especially in damp regions.

**Colors:** Please refer to the product brochure or CertainTeed website for the colors available in your region.

**Limitations:** Use on roofs with slopes greater than 2" per foot. Low-slope applications (2" to 4" per foot) require additional underlayment. In areas where icing along eaves can cause the back-up of water, apply CertainTeed WinterGuard® Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package.

**Product Composition:** NorthGate is an SBS polymer modified Landmark style shingle and is composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in a special tough asphaltic cement. All CertainTeed produced shingles have self-sealing adhesive strips for wind uplift resistance.

#### Applicable Standards

ASTM D3018 Type I

ASTM D3462

ASTM E108 Class A Fire Resistance

ASTM D3161 Class F Wind Resistance

ASTM D7158 Class H Wind Resistance

UL 790 Class A Fire Resistance

UL 2218 Class 4 Impact Resistance

CSA Standard A123.5

ICC-ES ESR-1389 and ESR-3537 (Portland only)

Florida Product Approval # FL5444

TDI Windstorm Resistance (Portland only)

#### Technical Data:

Weight/Square (approx.)	270 lb.
Dimensions (overall)	13 1/4" x 38 3/4"
Shingles/Square (approx.)	66
Weather Exposure	5 5/8"

#### INSTALLATION

The following is a general summary of the installation methods. Detailed installation instructions are supplied on each bundle of NorthGate shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

**Roof Deck Requirements:** Apply shingles to minimum 3/8" thick plywood, minimum 7/16" thick non-veneer (e.g. OSB), or minimum 1" thick (nominal) wood decks. The plywood or non-veneer decks must comply with the specifications of APA-The Engineered Wood Association.

**Ventilation:** Provisions for ventilation should meet or exceed current HUD Standards. To ensure adequate balance ventilation, use a combination of continuous ridge ventilation (using CertainTeed Ridge Vent products, or a comparable product with an external baffle) combined with soffit venting.

**Valleys:** Valley liner must be applied before shingles. The Closed-Cut valley application method is recommended, using CertainTeed WinterGuard Waterproofing Shingle Underlayment or its equivalent to line the valley prior to being fully covered by the shingles.

**Underlayment:**

On slopes 4" per foot or greater, CertainTeed recommends one layer of DiamondDeck® Synthetic Underlayment or Roofers' Select® High-Performance shingle underlayment, or shingle underlayment meeting ASTM D226, D4869 or ASTM D6757. Always ensure sufficient deck ventilation, and take particular care to do so when DiamondDeck or other synthetic underlayment is installed. For UL fire rating, underlayment may be required. Corrosion-resistant drip edge is recommended and should be placed over the underlayment at the rake and beneath the underlayment at the eaves. Follow manufacturer's application instructions.

On low slopes (2" up to 4" per foot), one layer of CertainTeed's WinterGuard Waterproofing Shingle Underlayment (or equivalent meeting ASTM D1970) or two layers of 36" wide felt shingle underlayment (Roofers' Select High-Performance Underlayment or product meeting ASTM D226, D4869 or ASTM D6757) lapped 19" must be applied over the entire roof, ensure sufficient deck ventilation. When DiamondDeck or other synthetic underlayment is installed, weather-lap at least 20" and ensure sufficient deck ventilation. When WinterGuard is applied to the rake area, the drip edge may be installed under or over WinterGuard. At the eave, when WinterGuard does not overlap the gutter or fascia, the drip edge should be installed under WinterGuard. When WinterGuard overlaps the fascia or gutter, the drip edge or other metal must be installed over it. Follow manufacturer's application instructions.

**Fastening (NailTrak):**

Make certain that all nails are seated flush with the granule surface of the shingles. Set pneumatic air pressure properly to ensure nails do not over-penetrate the shingle when installing Northgate. Nail into double layer in hot weather conditions if needed; as outdoor temperature increases, pneumatic air pressure should decrease.

**Low & Standard Slopes:** On low and standard slopes, four nails are required per shingle. There are three nail lines on NailTrak shingles. Position nails vertically between the upper and lower nailing-guide lines. It is acceptable to nail between either the middle and lower lines or between the upper and middle lines. Nails must be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. They are to be located 1" and 12" in from each side of the shingle (see instructions on product wraps.) Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads.

**Steep Slopes:** On slopes greater than 21" per foot, fasten each shingle with six nails and four spots of roofing cement placed under each shingle according to application instructions provided on the shingle package. Fasteners must penetrate the two-layer common bond area that is indicated by the middle and lower NailTrak lines, also illustrated on the shingle package.

**Application:** The recommended application method is the 'Five-Course, Diagonal Method' found on each bundle of shingles. In this method, shingle course offsets are 6" and 11". Instructions also may be obtained from CertainTeed. These shingles may be used for new construction or for reroofing over existing Metric-sized shingles.

**Flashing:** Use corrosion-resistant metal flashing.

**Hips and Ridges:** For capping hip and ridge, apply CertainTeed's NorthGate® Ridge (regional) or NorthGate® Accessory (regional) of a like color.

### **MAINTENANCE**

These shingles do not require maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year. Older roofs should be looked at more frequently.

### **WARRANTY**

NorthGate carries a lifetime limited, transferable warranty to the consumer against manufacturing defects. In addition, NorthGate Shingles carry 10-years of SureStart™ Protection, 15-years of algae resistance and 15-years of 110mph wind-resistance. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at [www.certainteed.com](http://www.certainteed.com)).

### **TECHNICAL SERVICE**

Complete technical support and assistance is available through CertainTeed's Technical Service Department at 800-345-1145 or your local Territory Manager.

### **FOR MORE INFORMATION**

Sales Support Group: 800-233-8990

Web site: [www.certainteed.com](http://www.certainteed.com)

See us at our on-line specification writing tool, CertaSpec, at [www.certainteed.com/certaspec](http://www.certainteed.com/certaspec).

**CertainTeed Roofing**  
20 Moores Road  
Malvern, PA 19355

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