



Niagara Slate

Class A and Class C Polymeric Tile Roof System

DESCRIPTION

Niagara Slate is a natural-looking synthetic roofing tile manufactured from post-industrial recycled materials to provide the look of natural stone slate.

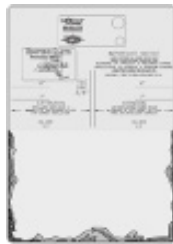
Niagara Slate comes in 10" (254 mm), 12" (305 mm) and 14" (356 mm) widths or an even mixture of all three sizes to achieve a Random-Width Blend. They are 22" (559 mm) long, 5/8" (16 mm) nominal thickness, and are available in 14 standard colors, multiple color blends and custom colors.



10" (254 mm)



12" (305 mm)



14" (356 mm)

ADVANTAGES

Niagara Slate provides the look of natural slate with these added advantages:

- High impact resistance that provides protection from hail, falling branches, foot traffic, ice and snow damage.
- The color in Niagara Slate has been added during formulation providing for color throughout the product. As with all roofing products, natural weathering will occur.
- EcoStar provides warranties for up to 50 years.

INSTALLATION

Temperature – If tiles have been stored in temperatures below 45° F (7° C), they must be restored to a temperature above 45° F (7° C) before installation. Ambient temperature should be at least 34° F (1° C) and rising.

Substrate – Niagara Slate should only be installed on a minimum of 1/2" (13 mm) plywood, minimum 7/16" (11 mm) OSB or minimum 3/4" (19 mm) tongue and groove wood decking. Niagara Slate should not be applied over existing roof materials. Existing roof materials must be removed down to the deck, prior to installation.

Slope – Niagara Slate is not recommended for slopes less than 3/12 (14°). On roofs less than 6/12 (27°), Niagara Slate must be installed with a maximum exposure of 9" (229 mm). On roofs 6/12 (27°) or greater, Niagara Slate may be installed with either a 9" (229 mm) or 10" (254 mm) exposure.

Underlayment – Glacier Guard™ or equal must be applied to all eaves, rake edges, hips, valleys, ridges and protrusions. If a Class C roof system has been specified, cover the remaining exposed deck with Aqua Guard™ or equal. If a Class A roof has been specified, GAF VersaShield® or GP Gypsum Corporation

DensDeck® roof board or equal may be used. If VersaShield is used, it must be applied over the entire roof deck, after the installation of the Glacier Guard. Gold Star Warranty requires the use of the above-mentioned EcoStar specified products.

Fasteners – Fasteners must be ring shank stainless steel. EcoStar fasteners are available in both hand-drive and pneumatic coil options. Niagara Slate tiles require a minimum of 1 3/4" EcoStar Stainless Steel Ring Shank Nails for proper installation.

Color Variation – All EcoStar tiles come with shade variation. EcoStar tiles that have been ordered and supplied to the job site under one EcoStar sales order number are blended at the factory to ensure every bundle has the correct color percentages and equal tile widths. EcoStar recommends that the installing contractor work amongst several bundles and randomly pull tiles from each bundle to ensure that random shading occurs. It is always the responsibility of the applicator to make frequent inspections from the ground or other vantage points to ensure that random shading occurs. Roofers must inspect the roof frequently to prevent customer dissatisfaction.

NOTE: If EcoStar tiles have been supplied to the job site under two or more EcoStar sales order numbers, all tiles must be blended together on-site before installation. Specific blending instructions can be found at www.ecostarllc.com on the "Resource Library" page.

EcoStar will not be held responsible for correcting the appearance of unblended installations. Natural weathering will produce further shade variations, even in tiles appearing to be identical in color when new.

Ventilation – Ventilation is recommended but not required for an EcoStar roof assembly. EcoStar advises that a ridge style venting system be utilized to ensure the best possible air movement for the benefit of deck substrate and to provide the best aesthetic appearance to the roof system. If a ridge ventilation system is not used on the project, another form of ventilation may be used.

NOTE: If a ridge vent is specified in the design of an EcoStar roof assembly with roof slopes between 3/12 and 12/12 and is attempting to achieve a Gold Star Warranty, EcoStar requires the use of EcoVent. Please refer to EcoStar EcoVent installation guidelines for further detail. For roof slopes less than 3/12 or greater than 12/12, another form of ventilation may be used, including but not limited to a ridge vent.

Please refer to the EcoStar Roof Tile Installation Guide for specifics of installation.

WARRANTIES

EcoStar warrants this product to be free of defects in workmanship and materials at the time of shipment from EcoStar's factory. See www.ecostarllc.com for available warranties.



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PRODUCT TECHNICAL DATA

PRODUCT SPECIFICATIONS

	10" Tiles	12" Tiles	14" Tiles
PRODUCT CHARACTERISTICS			
Length	22" (559 mm)		
Width	10" (254 mm)	12" (305 mm)	14" (356 mm)
Nominal Thickness	5/8" (16 mm)		
PACKAGING INFORMATION			
Tiles per bundle	10		
Tiles per bundle (Random-Width Blend)	18		
Weight per bundle:			
Class C	16 lbs. (7.26 kg)	20 lbs. (9.07 kg)	25 lbs. (11.34 kg)
Class A	19 lbs. (8.62 kg)	24 lbs. (10.89 kg)	29 lbs. (13.15 kg)
Random-Width Blend - Class C	36.6 lbs. (16.6 kg)		
Random-Width Blend - Class A	43 lbs. (19.5 kg)		
Bundles per pallet	96	72	60
Bundles per pallet (Random-Width Blend)	52		
Weight per pallet:			
Class C	1,536 lbs. (697 kg)	1,440 lbs. (653 kg)	1,500 lbs. (680 kg)
Class A	1,824 lbs. (827 kg)	1,728 lbs. (784 kg)	1,740 lbs. (789 kg)
Random-Width Blend - Class C	1,903 lbs. (863 kg)		
Random-Width Blend - Class A	2,236 lbs. (1,014 kg)		
Linear feet per bundle	8.33 ft. (2.54 m)	10 ft. (3.05 m)	11.67 ft. (3.56 m)
Linear feet per bundle (Random-Width Blend)	18 ft. (5.49 m)		
FORMULATION			
Materials	Thermoplastic Olefin		
PHYSICAL PROPERTIES (Typical)			
Operating Range	-25 °F to 200 °F (-32 °C to 93 °C)		
Tensile (D-412)	1,500 psi (10,342 kpa)		
Water Absorption (D-570)	0% by wt.		
APPLICABLE STANDARDS			
UL Listed 790 Fire Resistance	Class A / Class C		
UL 2218 Impact	Class 4		
Texas Department of Insurance	Listed		
Miami-Dade	Listed (Class A Only)		