



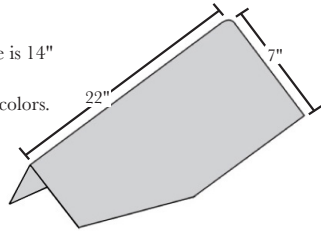
# Empire NIAGARA SLATE™

## Hip & Ridge

### DESCRIPTION

Empire Niagara Slate™ Hip & Ridge is a polymer based ridge tile designed to provide the look of natural stone slate in the ridge and hip portions of the roof. Used in conjunction with all Empire Niagara Slate roofing tiles, Empire Niagara Slate Hip & Ridge is manufactured with a state of the art formulation using virgin and recycled polyolefin polymers.

Empire Niagara Slate Hip & Ridge is 14" wide, 22" long and ¼" thick and is available in fourteen (14) standard colors.



### ADVANTAGES

Empire Niagara Slate Hip & Ridge provides the look of natural slate with these added advantages:

- High impact resistance which provides protection from hail, falling branches, foot traffic, ice and snow damage.
- Empire Niagara Slate Hip & Ridge can be installed up to 8 times faster than natural stone slate.
- The color in Empire Niagara Slate Hip & Ridge has been added during formulation providing for color throughout the product. As with all roofing products, natural weathering will occur.
- EcoStar provides warranties for Empire Niagara Slate Hip & Ridge for up to 50 years.

### LIMITATIONS

**Color Variation – All Empire Niagara Slate Hip & Ridge tiles come with shade variation.** This shade variation may occur differently from pallet to pallet. Application of the product should not begin until all material has been delivered to the project site. Because of this shade variation the applicator must take precautions to ensure that the various shades of the product are properly blended. Tiles must be taken from different pallets and bundles to ensure consistency in application. **NOTE: EcoStar will not be responsible for the improper blending and application of the product.**

Natural weathering will produce further shade variations, even in tiles appearing to be identical in color when new.

### INSTALLATION

**Exposure – Hip & Ridge tiles can be installed with a maximum 9" exposure.**

**Temperature –** If tiles have been stored in temperatures below 45° F, it is required that the tiles be brought back to an ambient material temperature above 45° F before installation.

**Substrate –** Empire Niagara Slate should only be installed on a minimum of ½" plywood, minimum 7/16" OSB or minimum ¾" tongue and groove wood decking. Empire Niagara Slate should not be applied over existing roof materials. Existing roof materials must be removed down to the deck, prior to installation.

**Fasteners –** Fasteners must be ring shank stainless steel. **EcoStar Fasteners** are available in hand drive style in 2" and 2½" lengths.

**Ventilation –** At the same time the ridge tiles are being installed, roof venting should be installed. EcoStar's **EcoVent™** ridge venting is recommended for quality attic ventilation and an improved aesthetic appearance of the EcoStar roof system.

### PRODUCT SPECIFICATIONS

FORMULATION		
Materials	Thermoplastic Olefin	
PRODUCT CHARACTERISTIC	Units	Results
Length	in.	22
Width	in.	14
Weight	lbs.	2.3 (nominal)
Thickness	in.	¼ (nominal)
PHYSICAL PROPERTIES	Units	Results
Operating Range	°F	-25° to 200°
Tensile (D-412)	psi	1500
Water Absorption (D-570)	0% by wt.	
PACKAGING INFORMATION		
Tiles per bundle	12	
Weight per bundle	lbs.	28
Tiles per pallet	900	
Weight per pallet	lbs.	2100
Linear feet per bundle	ft.	9

### WARRANTIES

EcoStar warrants this product to be free of defects in workmanship and materials at the time of shipment from EcoStar's factory. EcoStar will at its option either supply new product or refund the purchase price of any product found to be defective hereunder.

**EcoStar's limited warranties are the only warranties extended by EcoStar with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. EcoStar specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.\***

The dollar value of EcoStar's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the EcoStar material in question.

\*See [www.ecostarllc.com](http://www.ecostarllc.com) for available warranties.



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P/N-606016 ECO-EMPIRE NIAGARA Hip & Ridge PTD. This data sheet, effective 01/30/2017 supersedes all previous versions.

PRODUCT TECHNICAL DATA