



Empire Slate

Polymeric Slate Tile Roof System

PRODUCT TECHNICAL DATA

DESCRIPTION

Empire Slate is a polymer based Class A and C roof tile designed to provide the look of natural stone slate. Empire Slate is manufactured with a state of the art formulation using virgin and recycled polyolefin polymers.

Empire Slate comes in 10" (254 mm) and 12" (305 mm) widths. They are 18" (457 mm) long, 1/4" (6 mm) nominal thickness, and are available in fourteen (14) colors and five (5) designs.



12" (305 mm) Traditional 10" (254 mm) Traditional Beaver Tail Chisel Point Beveled Edge

ADVANTAGES

Empire 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 Empire 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 Empire Slate 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 – Empire 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. Empire Slate should not be applied over existing roof materials. Existing roof materials must be removed down to the deck, prior to installation.

Slope – Empire Slate is not recommended for slopes less than 3/12 (14°). On roofs less than 4/12 (18°) and greater than 3/12 (14°), Empire Slate must be installed with a maximum exposure of 6" (152 mm). On roofs 4/12 (18°) or greater, Empire Slate tiles may be installed with either a 6" (152 mm) or 7" (178 mm) exposure. On slopes of 6/12 (27°) or greater, Empire Slate (Traditional tiles only) can be installed at an 8" (203 mm) exposure. Chisel Point tiles may only be installed with a 6" (152 mm) exposure.

Underlayment – Prior to installation, **Glacier Guard™** underlayment should be applied to all rakes, valleys, ridges, hips, eaves and any protrusions. **Aqua Guard™** is then applied over the remaining deck surface. For Class A fire rated assembly, **GAF VersaShield**, or EcoStar-approved alternate, should be used instead of **Aqua Guard™** and should cover the entire roof deck, including the areas covered by **Glacier Guard™**.

Fasteners – Fasteners must be ring shank stainless steel. **EcoStar Fasteners** are available in either hand drive style or pneumatic coil.

Color Variation – All Empire Slate 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 and do not need to be blended onsite before installation. It is always the responsibility of the applicator to make frequent inspections from the ground or other vantage point to ensure that random shading occurs. EcoStar will not be held responsible for correcting the appearance of non-random installations. 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 – The use of ridge venting systems is highly recommended. Mushroom cap style vents may be used, but ridge venting provides better venting and improves the aesthetic appearance of the roof system.

Please refer to the Empire Slate Installation Guide for specifics of installation.

PRODUCT SPECIFICATIONS

	10" Tiles	12" Tiles
PRODUCT CHARACTERISTICS		
Length	18" (457 mm)	
Width	10" (254 mm)	12" (305 mm)
Nominal Thickness	1/4" (6 mm)	
PACKAGING INFORMATION		
Tiles per bundle	20	
Weight per bundle	33 lbs. (15 kg)	41 lbs. (18.6 kg)
Bundles per pallet	80	70
Weight per pallet	2,640 lbs. (1,197 kg)	2,870 lbs. (1,302 kg)
Linear feet per bundle	16.67 ft. (5.08 m)	20 ft. (6.1 m)
FORMULATION		
Materials	Thermoplastic Olefin	
PHYSICAL PROPERTIES		
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 and C	
UL 2218 Impact	Class 4	
Texas Dept. of Insurance	Listed	
Miami-Dade	Listed	

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.