



Empire Shake Aspen Blend

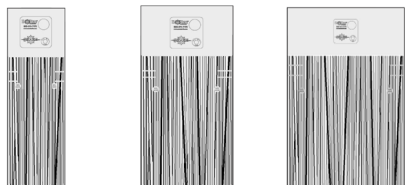
Polymeric Shake Tile Roof System

PRODUCT TECHNICAL DATA

DESCRIPTION

Empire Shake Aspen Blend is a polymer based Class A and C roof tile designed to provide the look of natural cedar shake. Empire Shake tiles are manufactured with a state of the art formulation using virgin and recycled polyolefin polymers.

Aspen Blend refers to a mixture of 2/3 Empire Shake and 1/3 Empire Shake Plus. Aspen Blend tiles come in 6" (152 mm), 9" (229 mm) and 12" (305 mm) widths. Empire Shake Aspen Blend tiles are 20" (508 mm) long, and either 3/8" (10 mm) or 3/4" (19 mm) nominal thickness, and are available in fourteen (14) standard colors.



6" (152 mm) 9" (229 mm) 12" (305 mm)

ADVANTAGES

Empire Shake Aspen Blend provides the look of wood shake with these added advantages:

- High impact resistance providing protection from hail, falling branches, foot traffic, ice and snow damage.
- The color in Empire Shake Aspen Blend tiles 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 Shake Aspen Blend tiles 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 Shake Aspen Blend 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 Shake Aspen Blend should not be applied over existing roof materials. Existing roof materials must be removed down to the deck, prior to installation.

Slope – Empire Shake Aspen Blend is not recommended for slopes less than 3/12 (14°). On roofs less than 4/12 (18°) and greater than 3/12 (14°), Empire Shake Aspen Blend must be installed with a 7" (178 mm) exposure. On roof slopes 4/12 (18°) or greater Empire Shake Aspen Blend may be installed with either a 7" (178 mm) or 8" (203 mm) exposure. On roofs 6/12 (27°) or greater, Empire Shake Aspen Blend may be installed with a 7" (178 mm), 8" (203 mm) or 9" (229 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 Shake 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 Shake Aspen Blend Installation Guide for specifics of installation.

PRODUCT SPECIFICATIONS

PRODUCT CHARACTERISTICS	
Length	20" (508 mm)
Width	6" (152 mm), 9" (229 mm), 12" (305 mm)
Nominal Thickness	Shake: 3/8" (10 mm), Plus: 3/4" (19 mm)
PACKAGING INFORMATION	
Tiles per bundle	Shake: 16, Plus: 8
Weight per bundle	39 lbs. (17.69 kg)
Bundles per pallet	48
Weight per pallet	1,875 lbs. (850 kg)
Linear feet per bundle	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 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.