



Polymeric Shake Tile Roof System

DESCRIPTION

Seneca Plus™ tiles are a rubber and plastic-based roofing tile designed to provide a cedar shake look to the roof. Seneca Plus tiles are manufactured with a state of the art formulation using recycled TPO and EPDM polymers.

Seneca Plus tiles come in 6", 9" and 12" widths, are 19" long, 3/4" thick, and are available in ten (10) colors.

INSTALLATION

It is recommended that Seneca Plus tiles be installed by professional roofing applicators to ensure a quality installation.

The following are simplified steps for installing Seneca Plus tiles. **Please refer to the Seneca Plus System Installation Guide for specifics of installation.**

1. An approved deck is covered with EcoStar's **Glacier Guard™** where specified and either EcoStar's **Aqua Guard™** and/or GAF-Elk VersaShield® underlayment as needed per building code requirements.
2. Beginning at roof eave a row of **Seneca Shake tiles** is installed as a starter row. Seneca Plus tiles **should not** be used as starter row tiles.
3. Place a row of Seneca Plus tiles directly over the starter row, covering the tile gap with a full tile.
4. Using the measurement lines begin installing tiles per specified pattern

ADVANTAGES

Seneca Plus 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 Seneca Plus 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 Seneca Plus tiles for up to 50 years.

LIMITATIONS

Color Variation - All Seneca Plus 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.

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 – Seneca Plus tiles should only be installed on a minimum of 1/2" plywood, minimum 7/16" OSB or minimum 1" tongue and groove wood decking. Seneca Plus tiles should not be applied over existing roof materials. Existing roof materials **must** be removed down to the deck, prior to installation.

Slope – Seneca Plus tiles are not recommended for slopes less than 3/12. On roofs less than 6/12 and greater than 3/12, Seneca Plus tiles must be installed with a maximum exposure of 7". On roofs greater than 6/12, Seneca Plus tiles may be installed with either a 7" or 8" exposure.

Underlayment – Prior to installation, **Aqua Guard** or VersaShield underlayment must be installed over the entire deck area, WITH THE EXCEPTION of all roof edges, valleys, ridges or hips and any roof projections. In these areas EcoStar's **Glacier Guard** or an approved equal must be applied.

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

Ventilation – Roof venting should be installed at the same time as the ridge tiles are being 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 | EPDM / TPO | |
| PRODUCT CHARACTERISTIC | Units | Results |
| Length | in. | 19 |
| Width | in. | 6, 9, 12 |
| Thickness | in. | 3/4 (nominal) |
| PHYSICAL PROPERTIES | Units | Results |
| Operating Range | °F | -25° to 200° |
| Tensile (D-412) | psi | 500 |
| Water Absorption (D-570) | | 0% by wt. |
| PACKAGING INFORMATION | CLASS C | |
| Tiles per bundle | | 24 |
| Weight per bundle | lbs. | 37 (nominal) |
| Bundles per pallet | | 36 |
| Weight per pallet | lbs. | 1332 |
| PACKAGING INFORMATION | CLASS A | |
| Tiles per bundle | | 24 |
| Weight per bundle | lbs. | 39 (nominal) |
| Bundles per pallet | | 36 |
| Weight per pallet | lbs. | 1404 |
| APPLICABLE STANDARDS | | |
| U L Listed 790 Fire Resistance | | Class A and C ratings are available |
| U L Listed 2218 Impact Resistance | | Class 4 |
| Texas Department 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. 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.



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PRODUCT TECHNICAL DATA