



# Majestic Niagara Concrete

*Polymeric Concrete Tile Roof System*

PRODUCT TECHNICAL DATA

## DESCRIPTION

Majestic Niagara Concrete is a rubber and plastic based Class C roof tile designed to provide the look of a flat concrete roof tile. Majestic Niagara Concrete is manufactured with a state of the art formulation using recycled polyolefin polymers.

Majestic Niagara Concrete is 12" (305 mm) wide, 22" (559 mm) long, 3/4" (19 mm) nominal thickness, and are available in fourteen (14) standard colors.



12" (305 mm)

## ADVANTAGES

Majestic Niagara Concrete provides the look of a flat concrete roof tile with these added advantages:

- High impact resistance that provides protection from hail, falling branches, foot traffic, ice and snow damage.
- The color in Majestic Niagara Concrete has been added during formulation providing for color throughout the product. As with all roofing products, natural weathering will occur.
- EcoStar provides warranties for Majestic Niagara Concrete for up to 50 years.
- Direct to deck application
- Lightweight - Roof Tile Loading company services not required

## 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** – Majestic Niagara Concrete 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. Majestic Niagara Concrete should not be applied over existing roof materials. Existing roof materials must be removed down to the deck, prior to installation.

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

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

**Color Variation** – All Niagara Concrete 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](http://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 Niagara Concrete Installation Guide for specifics of installation.**

## PRODUCT SPECIFICATIONS

|                                      | 12" Tiles                      |
|--------------------------------------|--------------------------------|
| <b>PRODUCT CHARACTERISTICS</b>       |                                |
| Length                               | 22" (559)                      |
| Width                                | 12" (305 mm)                   |
| Nominal Thickness                    | 3/4" (19 mm)                   |
| <b>PACKAGING INFORMATION</b>         |                                |
| Tiles per bundle                     | 10                             |
| Weight per bundle                    | 20 lbs. (9.07 kg)              |
| Bundles per pallet                   | 72                             |
| Weight per pallet                    | 1,440 lbs. (653 kg)            |
| Linear feet per bundle               | 10 ft. (3.05 m)                |
| <b>FORMULATION</b>                   |                                |
| Materials                            | Thermoplastic Olefin           |
| <b>PHYSICAL PROPERTIES (Typical)</b> |                                |
| 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.                      |
| <b>APPLICABLE STANDARDS</b>          |                                |
| UL Listed 790 Fire Resistance        | Class C                        |
| UL 2218 Impact                       | Class 4                        |
| Texas Dept. of Insurance             | Listing Pending                |

## 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](http://www.ecostarllc.com) for available warranties.