

This technical data sheet is based upon the CSC Manu-Data® format.

August 2020

1. Product Name

Enviroshake Roofing

2. Manufacturer

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Enviroshake roof

3. Product Description

DESCRIPTION

Enviroshake is a composite roof tile that authentically emulates the look of a natural slate roofing that competes in the specialty and premium roof markets.

BASIC USE

Enviroshake composite slate tiles are used for roofing applications. Properly installed Enviroshake provide long lasting weather protection and a natural aesthetic weatherproofing system.

BENEFITS

Enviroshake gives the pleasing aesthetic of natural slate with lifetime performance and with minimal amount of maintenance.

The 2 profiles that the Enviroshake comes in are made from the 3D images of real slate tiles, to ensure the marbling, edges, thickness, and sizes are all true to nature.

They come in five tones: Onyx black, Charcoal grey, Stone grey Sage Green

(dark and light) and Plum Purple (dark and light) that weather slightly with exposure to UV, and as with natural slate, there will be variations in shading to provide a natural look on the roof.

No special tools are needed to install Enviroshake composite shake roofing.

Enviroshake comes in Gold and Standard Level warranties, with a lifetime warranty for residential applications, a 50-year warranty for commercial applications, and a 25 year warranty for Caribbean applications. See Warranty Document for more information.

LIMITATIONS

Enviroshake should not be installed over existing asphalt shingles, or OSB or roof slopes less than 2/12.

TYPES AND SIZES

Enviroshake comes in widths of 12 inch, each with a length of 20 inches.

The Stone grey tiles are bundled with white wrapping/strapping, and Charcoal tiles are bundles with green wrapping and yellow strapping bearing the Enviroshake script, labeled, and shrink-wrapped on skids (7 square/70 bundles per skid) for shipping. Each bundle contains 13 pieces of varied profiles.

There are 10 bundles to a "Square" at a 9" exposure. Ridge caps are a 12-inch-wide one-piece shake, custom formed to the specification of the roof slope and are packaged in bundles of 10 pieces using white strapping for Stone grey and yellow strapping for Charcoal grey bearing the Enviroshake script.

COVERAGE

1 square covers 100 square feet when installed at a 9" exposure. The minimum slope is 2:12. The recommended & maximum exposure is 9 inches, but Enviroshake can be installed at exposures as low as 5" or in a staggered course. There is no limit on the maximum slope.

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4. Technical Data

Copies of test procedures and results are available upon request.

Canadian Construction Materials Centre (CCMC) <i>Technical Guide Master Format Re-Evaluated October 2017</i>		International Conference of Building Officials (ICC) <i>Acceptance Criteria for Special Roofing Systems- Protocol AC07</i>		Building Materials Evaluation Commission (BMEC) Dec. 1999	
Testing Procedure	Standard	Testing Procedure	Standard	Testing Procedure	Standard
A. Physical and Mechanical Properties		1. Weatherometer	ASTM G23 ASTM G26 ASTM D790	1. Impact Testing	ASTM D2794
1. Density	ASTM D792	2. Roof classification		2. Water Absorption	ASTM D570
2. Impact Izod	ASTM D256 (Method A (1))	-fire retardant	UBC Standard 15-2 ICBO 4.9	3. Wind Resistance	ASTM D3161
3. Dimensional Stability	CGSB-37.58-M86	Accelerated weathering and ignition/burning rate tests	UBC Standard 26-6 UBC Standard 26-7 ICBO 4.9	4. Tear Strength/Nail Head Resistance	ASTM D1037
4. Water Absorption	CCMC 6.4.1	3. Wind Uplift	Any test (dynamic, static and structural calculations)	5. UV Exposure	ASTM G-53
5. Strain Energy	ASTM D5147, CCMC 64.3	4. Wind-Driven Rain	ICBO 4.3	6. Freeze Thaw	ASTM C666
6. Modulus of rupture (static bending)	ASTM D1037	5. Uplift-Bend	ICBO 4.4		
7. Ozone resistance	ASTM D1149	6. Penetration	ICBO 4.2		
B. Performance Roofing System		7. Temperature-cycling	ICBO 4.8		
1. Uplift bend	CCMC 64.4	8. Flexural strength	ICBO 3.5.2 UBC Standard 15-5		
2. Traffic load	ASTM E661, DADE PA 100-95				
3. Wind uplift	DADE PA 100-95				
4. Dynamic pressure water infiltration	DADE PA 100-95				
5. Nail pull-through	ASTM D1037				
6. Accelerated weathering	ASTM G155, CCMC 6.4.7				
7. Heat ageing	CCMC 6.4.8				
8. Freeze thaw	CCMC 6.4.9				
9. Fire (Class C and Class A available)	ASTM E108				

at temperature cycles ranging from - 40°F (-40°C) to 160°F (71°C).

- National Building Code of Canada.
- Uniform Building Code: UV Testing - 2000 hours of accelerated weathering tests are completed to ensure no evidence of change in physical properties

between every tile (including the starter row).

Using a synthetic underlayment negates the need for interweaving.

Cut tiles to fit accurately around roof projections.

Use only uncut factory edges kept flush along rake and gable ends and where ends are exposed.

Install prefinished soffits and fascia material where indicated.

Install roof ventilators and other roofing accessories where indicated.

When using a ridge venting system, drop the ridge cap slope by 1 size.

The minimum roof slope on which Enviroshake is recommended is 2:12. For more detailed installation instructions refer to the Enviroshake Installation.

APPLICABLE STANDARDS

ASTM International

- ASTM D7349/D7349M, Standard Test Method for Determining the Capability of Roofing and Waterproofing Materials to Seal around Fasteners.
- ASTM E108, Standard Test Methods for Fire Tests of Roof Coverings.

Canadian General Standards Board (CGSB)

- CGSB-37.58-M86, Membrane, Elastomeric, Cold-Applied Liquid, for Non-Exposed Use in Roofing and Waterproofing.

Florida Building Code Testing Application Standard (TAS)

- TAS-125- Test for Uplift Resistance on Roof Assemblies

Miami-Dade Construction Standards (DADE)

- DADE PA 100-[2000], Test Procedure for Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems.

Underwriter's Laboratories

- UL 2218, Impact Resistance of Prepared Roof Covering Materials, Class 4.

US Green Building Council

- USGBC: LEED® NC Version 2.2.

APPROVALS

- American Society for Testing and Materials Limited.
- California Building Materials Listing No. 4175-2114:0100
- Florida Building Code FL#16037-R2
- Miami Dade County NOA No. 19-0807.04
- National Building Code of Canada.
- Canadian General Standards Board: Stability Testing - Products are tested

ENVIRONMENTAL CONSIDERATIONS

Enviroshake composite roofing tiles are slippery when wet. Do not walk on Enviroshake composite roofing tiles while they are rain, ice, frost or snow covered.

SUSTAINABILITY CONSIDERATIONS

For information on LEED Prerequisites and Credits associated with this product, refer to the "LEED Brochure on the Enviroshake web site at <http://www.enviroshake.com> .

5. Installation

Enviroshake should be installed as a new roofing system.

Install drip edge, valley and ridge flashings, eaves protection and synthetic underlayment before installing tiles (a 36" ice and water shield membrane is used on eaves, valleys, rakes, hips and ridges). Enviroshield synthetic underlayment is a requirement to achieve Gold Level Warranty

Use double starter course at bottom edges, including vertical and high slope roof surfaces.

Fasten each tile with four 1-1/2 inch stainless steel nails minimum regardless of tile width. Although stainless steel nails are preferred hot-dipped galvanized nails are also acceptable.

Lay each consecutive row of tiles at 9-inch exposure, ensuring that there is no keyway on keyway, and that there is a 3/8" gap

6. Availability and Costs

AVAILABILITY

Order composite roof tiles 2 – 4 weeks before required delivery dates.

COSTS

Contact Enviroshake for current product costs.

7. Warranty

Enviroshake comes in Gold and Standard Level warranties with a 50-year warranty for commercial installations and limited lifetime warranty for residential installations. (Caribbean applications have a 25-year warranty)

Warranty is dependent upon installation by a Factory Trained Enviroshake Installer. Please see Warranty Document for further details.

8. Maintenance

Composite slate roofing should be regularly inspected for organic built up and

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should be removed from the roof. No special tools are required for roof maintenance.

9. Technical Services

Technical representative will visit project site as required during construction.

10. Filing Systems

- MasterFormat™ 07 31 34.
- OmniClass™
Table 21 02 10 20 90.
Table 22 07 31 34.
Table 23 13 39 21.