1. **Product Name**

Enviroshake® Roofing

2. **Manufacturer**

Enviroshake® Inc.
650 Riverview Drive
Chatham, Ontario, N7M 5W8
Canada
Phone: 1-(519) 380-9265
Toll Free: (866) 423-3302
FAX: 1-(519) 380-0689
e-mail: info@enviroshake.com
URL: http://www.enviroshake.com

3. **Product Description**

**DESCRIPTION**
Enviroshake is a composite roof shake that authentically emulates the look of a natural hand split cedar shake that competes in the specialty and premium roof markets.

**BASIC USE**
Enviroshake composite shakes are used for roofing applications. Properly installed shakes provide long lasting weather protection and a rustic aesthetic look weatherproofing system.

**BENEFITS**
Enviroshake gives the pleasing aesthetic of cedar shakes with lifetime performance and with minimal amount of maintenance.

The 6 profiles that the Enviroshake comes in are made from the 3D images of real cedar shakes, to ensure the wood grains, thickness, and sizes are all true to nature.

They come in three tones: Silvered Cedar, Aged Cedar, and Multi-Tones that weather with exposure to UV, and as with cedar, 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 with a lifetime warranty for residential applications and a 50 year warranty for commercial applications.

**LIMITATIONS**
Enviroshake® should not be installed over existing asphalt shingles.

**TYPES AND SIZES**
Enviroshake® comes in widths of 12 inch, (pre-molded 4 to 8 inch, 8 to 4 inch and 6 to 6 inch profiles) each with a length of 20 inches. Each shake is taperd and measures approximately ½ inch at the butt end and narrows to approximately an 1/8 inch (resembling a hand-sawn cedar shake)
The SC shakes are bundled with white wrapping/strapping, and AC shakes are bundles with green wrapping/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 SC and green strapping for AC bearing the Enviroshake® script.

**COVERAGE**

1 square covers 100 square feet when installed at a 9” exposure. The minimum slope is 3:12 although under special circumstances a lower slope installation can be carried out. Refer to the Enviroshake Low-Slope Installation Guide for further details. 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.
### 4. Technical Data

Copies of test procedures and results are available upon request.

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</thead>
<tbody>
<tr>
<td><strong>A. Physical and Mechanical Properties</strong></td>
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<tr>
<td>2. Impact Izod</td>
<td>ASTM D256 (Method A (1))</td>
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<td>UBC Standard 15-2 ICBO 4.9</td>
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<td>3. Dimensional Stability</td>
<td>CGSB-37.58-M86</td>
<td>Accelerated weathering and ignition/burning rate tests</td>
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<td>4. Water Absorption</td>
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<td>3. Wind Uplift</td>
<td>Any test (dynamic, static and structural calculations)</td>
<td>4. Tear Strength/Nail Head Resistance</td>
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<td>5. Strain Energy</td>
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<td>4. Wind-Driven Rain</td>
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<td>6. Modulus of rupture (static bending)</td>
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<td>7. Ozone resistance</td>
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<td>6. Penetration</td>
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<td><strong>B. Performance Roofing System</strong></td>
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<td>1. Uplift bend</td>
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<td>8. Flexural strength</td>
<td>ICBO 3.5.2 UBC Standard 15-5</td>
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<td>3. Wind uplift</td>
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<td>4. Dynamic pressure water infiltration</td>
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<td>5. Nail pull-through</td>
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<td>6. Accelerated weathering</td>
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<td>8. Freeze thaw</td>
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Enviroshake® used in commercial application
Enviroskate composite roofing shingles are slippery when wet. Do not walk on Enviroskate composite roofing shingles 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 Enviroskate web site at http://www.enviroskate.com.

5. Installation

Enviroskate should be installed as a new roofing system.

Install drip edge, valley and ridge flashings, eaves protection and self sealing synthetic underlayment before installing shingles (a 36” ice and water shield membrane is used on eaves, valleys, rakes, hips and ridges).

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

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

Lay each consecutive row of shakes at 9-inch exposure, ensuring that there is no keyway on keyway, and that there is a 3/8” gap between every shake.

Using a self sealing synthetic underlayment negates the need for interweaving.

Cut shakes to fit accurately around roof projections.

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

Install ridge caps over eaves protection at ridges.

Install prefinished soffits and facia material where indicated.

Install roof ventilators and other roofing accessories where indicated.

The minimum roof slope on which Enviroskate is recommended is 3:12. It is possible, however, to apply Enviroskate successfully to solid sheathed roofs of lower slope providing a special method of application is followed. The prescribed method provides a double roof on which the Enviroskate is applied to a lattice-like framework embedded in a bituminous surface coating.

A torch-on or similar approved waterproof membrane should be applied over the roof deck. Consult your local building official for approved products in your area. With the final torch-on application 2 x 4 spacers of preserved treated lumber are embedded in the bituminous coating. These spacers are installed over the rafters and extend from eave to ridge. Check with your local building official for their preference in your area.

Next, 1 x 4 or 1 x 6 inch nailing strips, spaced according to weather exposure selected for Enviroskate, should be nailed across the spacers to form a lattice-like nailing base. For example, if Enviroskate is to be installed at a weather exposure of 9 inch, the nailing strips would also be spaced at 9 inch on the centers. When 1 x 4 inch spaced sheathing is installed at 9 inch on center, additional 1 x 4 inch boards must be installed.

Finally Enviroskate is applied in the normal manner with a starter course at the eave.

For more detailed installation instructions refer to the Enviroskate Installation Guide.

6. Availability and Costs

AVAILABILITY

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

COSTS

Contact Enviroshake Inc. for current product costs.

7. Warranty

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 certified Enviroshake Inc. installer.

8. Maintenance

Composite shake roofing should be regularly inspected for minor weathering damage and broken shingles replaced as necessary. 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.

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### Enviroshake vs. Cedar: A Cost Comparison

<table>
<thead>
<tr>
<th>Year</th>
<th>Enviroshake</th>
<th>Fire Retardant Treated Cedar</th>
<th>Non Treated Cedar</th>
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<td>Year 5</td>
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<td>Total Spent after 50 years</td>
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**NOTES:**

- Taxes (PST & GST) have not been figured into costs as both are constants
- This represents an average roof of a 4/12 pitch, and does not include tear off of existing shakes or dump fees
- Above does not include additional materials required (underlay, drip edge, valleys, nails, vents, ridge caps, and flashing)
- Roofs with steeper pitch, gables, dormers etc. will have a higher installation cost that would be representative for both cedar and Enviroshake cost models.