

Enviroshingle™

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Installing

Enviroshingle® APPLICATION INSTALLATION GUIDELINE

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Warning: Do not proceed with installation of the Enviroshingle™ roof until you have thoroughly read these instructions and reviewed the installation diagrams. If you have any questions or concerns related to the installation procedures outlined below, please call our toll free number (1.866.423.3302) for assistance BEFORE starting your project. Enviroshake Inc. is not responsible for any costs incurred by the customer associated with improper installation procedures.

Enviroshingle™ bundles are packaged 14 pieces per bundle – 10 bundles = 100 square feet when installed at a 5" maximum exposure. As a rule, Enviroshake Inc. recommends adding 10% to "take-offs" for simple roof structures, and more for complicated roofs. Aged Cedar **Enviroshingle™** will come with skids wrapped in green wrap with a white top and **Enviroshingle™** tape. Silvered Cedar **Enviroshingle™** will come in white wrap with a green top and **Enviroshingle™** tape.

- **Enviroshingle™** is designed to replicate the look of natural weathered perfection milled cedar. No two shingles are exactly alike and will vary in thickness (+/- 20 %) and shading due to the unique materials and manufacturing process employed by Enviroshake Inc.
- Do NOT stack material or another skid on top of ridge caps.
- Storage and transportation shingles may cause some shingles to lift upwards slightly. A tolerance level of ½ inch is acceptable. To assist in helping the shingles lay down you can Nail where indicated by the inverted V mark "Λ" on the nailing strip of shingle – Enviroshingle is designed to be installed at a **5" exposure**.
- IF THERE IS ANY SHINGLE DAMAGED OR OUTSIDE THE ABOVE TOLERANCE DO NOT INSTALL ON FLAT ROOF SURFACES. USE IN VALLEYS, CORNERS, ETC, WHERE CUTTING IS REQUIRED.
- **You do not need to be split the shingles prior to installation** – you can nail down without splitting (4 nails per) and this will give you the desired look of a split shingle course. If you need to split – this can be accomplished by snapping by hand in a quick motion – or by taking a knife and scoring the crease in the keyway and snapping. The nailing pattern on a split shingle is 1 nail in the inverted V mark "Λ" and another nail 2-3 inches vertically above the first nail.
- **Enviroshingle™** bundles are factory shuffled, with two different profiles.

- As a composite product that is manufactured to replicate the look of a “weathered” cedar roof, the shingles will fade over time once installed, and will demonstrate a variance of grey color shades from dark grey to light grey similar to an aged cedar roof. This is an ongoing process over time and the transition will vary between regions and will vary between individual shingles. Over time this will even out, but there may still be variations so as to maintain the “weathered” look. Despite being factory shuffled, the installer should still be aware of color variations between bundles and skids when installing, as some additional shuffling may be required on site to avoid patching.

The installer should be aware of potential color variations between die lots when installing. The installer should ensure that the date codes on the back of the bundles are from the same time frame, if there are bundles with different date codes they should be set aside and used on a defined roof area where there is enough material to cover this area or as a starter row to avoid having a potential sight line on the roof where the old and new product join. Never mix old product from another project with new product on a new project. Do not start a roof area unless you have confirmed that you have enough product on site to finish the area. If you run out of material you will need to hand shuffle the old material with the new material to avoid the potential for a sight line on the roof caused from a tone variation in the two die lots. For this reason, always leave the smallest roof area to the last to finish. Upon finishing each roof area the contractor should stand back to view the roof and ensure that there are no visually un appealing aesthetics caused by the installation, prior to proceeding to the next roof area.

Failure to do so and to install product with colour variation will leave the contractor liable for the labor and material required to fix such a problem.

Due to the manufacturing process some shakes may have unfilled top corners. This material is acceptable as Enviroshake **does not need head lap** and this does not affect the performance or wind rating of Enviroshake. (Miami Dade tested to 185 mph)

Do not begin installation until you have received your order in its entirety.

Enviroshake Inc. recommends that snow guard devices be installed in conjunction with **Enviroshingle™** in areas where there is a significant risk of snowfall accumulation and the possibility that a build-up of snow could slide off the roof causing inconvenience or harm to life and property. Please consult with your roofing contractor regarding the risk factor in your area and the appropriateness of installing these devices on your home.

The following is intended as a guide to the installation of **Enviroshingle™** Where applicable, local building code requirements will always take precedence and must be adhered to.

Caution – Do not walk on an Enviroshingle™ roof when moisture/frost is present as surface will be slippery and greatly increases the risk of a slip and fall.

GUIDELINES

Enviroshingle™ is typically installed in straight, single courses at a 5” exposure, however **Enviroshingle™** can be installed at exposures as low as 4” or in staggered courses.

It is required that on every second row you break the first shingle at the first keyway (from the left or right) to prevent keyway on keyway, and ensure a random look. To properly adhere the split shake, nail the first nail in the inverted V mark “^” and another nail 2-3 inches vertically above the first nail. When breaking the shingle profile, snap quickly to encourage a cleaner edge or use a knife to score the material prior to snapping.

- **Enviroshingle™** requires a minimum 3/8” space gap between all shingles.

- Minimum 1 ½ " large head roofing nails are required. They can be hot dipped galvanized roofing nails or stainless steel roofing nails. **Enviroshake Inc.** recommends stainless steel nails. A power-nailer is suitable for use in installation. Nail where indicated by the inverted V mark "Λ" on the nailing strip of shingle
- Nails must be fully covered by shingles and not visible in joints.
- Where applicable, only a "pure silicon" sealant should be used to cover up exposed nail heads or to seal joints on ridge caps. The sealant should be colour matched to the weathered light grey colour of **Enviroshingle™**.
- Every **Enviroshingle™** receives 4 nails
- It is important that the head of the nail not be driven below the top surface of the shingle at any time. If you are using a power-nailer, adjust the setting to prevent this situation from occurring –very important during cold weather installations.
- **Enviroshingle™** should not be installed in temperatures beyond -20 degrees C / -4 degrees F
- The joint (keyway) between 2 shingles in one course should never be closer than 1 ½" to a joint below or above it.
- Shingles must be cut in order to fit properly around vents, in valleys, and beside flashing. Shingles should be cut with a circular saw for straight lines or with a jig saw for curves.
- **Always use an uncut factory edge along rake/gable ends.**
- **Synthetic underlay is required.**
- 36" ice/water barrier membrane is used on eaves, valleys, rakes, hips and ridges
- Ridge caps are installed at a maximum of 9" of exposure and are fastened with 2 nails (min. 2 1/2"). When using ridge caps with ridge vents the slope of the ridge cap should be 1 less than the roof slope (ie. if it's a 7/12 slope on the roof and you're installing over a ridge vent - order 6/12 ridge caps).
- Shuffled loads are like "die lots". Enviroshake Inc. recommends that the installer DOES NOT start one elevation with one shuffled lot# and finish with another. It is recommended that any leftover material then be used for starters or hips and ridges, OR shuffle them in with the next lot to be applied.
- Enviroshake Inc. recommends that the installer complete one roof section at a time with shuffled material before moving on to the next section.

INSTALLING Enviroshingle™

Underlayment

Before applying the synthetic or ice and water underlayment, nail metal drip edge along the eaves. Ice/water barrier material (36 in.) is then installed along the eave of the roof. Cover the **entire** roof deck with a synthetic underlay with the bottom edge of the underlay overlapping the ice and water barrier by 4". After the underlay is laid, nail drip edges along the rakes. Cap nail the top edges of the underlay strips into the roof deck every 3 feet, or as required by weather conditions.

Starter Course (Always gap the starter row, as you would do the entire roof- 3/8" gap between the starter row shingle)

Enviroshingle™ is typically installed in straight, single courses. Cut the shingle in half on the nail bar line, and use the thin end (the tail, with the uncut edge exposed) as the starter row, and then use the butte end of the shake for the finishing row at the top. It is important for the first course of shingles to be straight. To align, the shingle needs to be even with the drip edge and nail down. Place another shingle the same way at the other end of the eave. Tack a string to the butt end of both shingles and align the butts of the intervening shingles on the string.

To insure that your courses remain straight, **snap a chalk line every course (do not use red chalk)** and space shingles at a minimum of 3/8" apart. Apply a second course of shakes directly over the starter course so **the edge of the second course is even with the edge of the starter course**. The joint between 2 shingles in one course should never be closer than 1½" to a joint below or above it. This also applies to shingles with simulated joints.

Valley

Use 24" wide W-flashing (heavy gauge) in the valleys. Copper is recommended for added longevity, however galvanized or painted aluminum is acceptable. Apply ice and water barrier material (36") in the valley and along the rakes prior to installing the flashing. When nailing shingles along valleys, be sure to nail no further than 2" into valley. To keep shingles along the valleys straight, use a 1" x 4" board as a guide. Place the board in the valley, one side flush against the center. Lay the last shingle of the course at the valley over the 1 x 4, mark a line across the shingle where it passes the board and cut. This will provide an ample space for runoff on both sides of the valley.

NOTE: Enviroshake Inc. requires that all installers review the Installation Guide Manual prior to commencing installation. FAILURE TO DO SO MAY VOID WARRANTY IF THE INSTALLATION GUIDE INSTRUCTIONS ARE NOT FOLLOWED. All installers still need to watch for colour variation with the bundles/skids at the site and further shuffle the material accordingly if this is the case.

INSTALLING MULTI-TONE Enviroshingle™

To create the Multi-Tone look, 50% AC- Aged Cedar **Enviroshingle™** is used, and 50% SC- Silvered Cedar **Enviroshingle™** is used. The skids will arrive on site with the SC **Enviroshingle™** being in a white wrap with a green top, and AC **Enviroshingle™** being in a green wrap with a white top. The bundles will be marked with SC having white straps, and AC having green straps. The CCMC sticker on the back of every bundle will also state whether the bundle is the AC or SC SKU. All bundles need to be shuffled on site, and every shingle needs to be broken along the preformed keyway. Once the pieces are broken they are to be installed in an alternating pattern of 1 AC shingle, followed by 1 SC shingle as you move down the course. IE. 1 SC, 1 AC; 1 SC, 1 AC; 1 SC, 1 AC etc. Additionally, each subsequent row should start with the opposite colour. IE.

SC, AC, SC, AC, SC, AC
AC, SC, AC, SC, AC, SC
SC, AC, SC, AC, SC, AC

All split shingles required 2 nails per piece. The nailing pattern on a split shingle is 1 nail in the inverted V mark "Λ" and another nail 2-3 inches vertically above the first nail. **The required gapping of 3/8" between every shingle must be maintained.** Enviroshake recommends using AC-Aged Cedar **Enviroshingle™** ridge caps with a Multi-Tone **Enviroshingle™** roof.

SPEC SHEET – Enviroshingle™
A Composite Cellulosic Fibre and Polymer
Engineered roofing Material

Colour:

Silvered Cedar, Aged Cedar, Multi-Tone. Within six to twelve months (with exposure to UV) the product will “weather” similar to a cedar roof. Variation in weathering is expected as with a natural perfection cedar shingle roof.

Contour:

The exposed surface is striated, 5” exposure, up from the butt end to the nailing strip (nailing points indicated by inverted V mark “Λ”) and is flat and smooth to the tapered end. The underside of the **Enviroshingle™** is flat with hollow recesses.

Dimensions:

Enviroshingle™ comes in widths of 20”, with a length of 12”. Each bundle is comprised of 14 **Enviroshingles’** that have the appearance of random widths that can be further separated by breaking them along the simulated key-way. Each **Enviroshingle** is tapered and measures approximately ½” at the butt end and narrows to approximately 1/8” (resembling a milled cedar perfection shingles). The silvered cedar **Enviroshingles’** are bundled with white strapping, the aged cedar shakes are bundled with green strapping bearing the **Enviroshingle™** script, labeled and shrink-wrapped (Silvered Cedar in white wrapping, Aged Cedar in Green Wrapping) on skids (7 square/skid) for shipping. Each bundle contains 14 pieces of 2 different profiles. There are 10 bundles to a “square” at a 5” exposure. Ridge/Hip caps are a 12” wide one-piece shake, custom formed to slopes of 3/12 through 16/12 and installed at the recommended maximum 9” exposure.

Coverage:

10 bundles (1 square) covers 100 square feet for the manufacturer recommended 3/12 slope (or greater) at the recommended 5” exposure. To determine the number of ridge or hip caps required for a particular pitch, divide the total linear feet by .75 (i.e. 15 feet of ridge/hip divided by .75 equals 20 caps). Ridge/hip caps are sold in bundles of 10.

Installation:

The installation of the **Enviroshingle™** is basically the same as applies to installing wood shingles. Normal code requirements must be applied regarding material standards, fastening, and flashing at intersections when installing the **Enviroshingle™** as the roof covering in a roof covering system. Regular 1 ½ ” (min) large head roofing nails are required. They can be hot dipped galvanized roofing nails or stainless steel roofing nails. **Enviroshake Inc.** recommends stainless steel nails. A power-nailer is suitable for use in installation.

Weight:

Enviroshingle™ weighs approximately 260 lbs per Square. (100 square feet of coverage at 5" exposure)

Storage:

Do not stack more than 2 skids high. Caps **cannot** be double stacked.

**Enviroshake Inc.
Limited Lifetime Warranty**

Product Warranty: Subject to the exclusions, conditions and limitations set forth in this Warranty, Enviroshake, Inc. ("Company") warrants that its roofing products (the "Product") will be 100% free from defects in design or manufacture that cause peeling, separating, splitting, cracking, flaking, rusting or rotting.

Effective Date: This Warranty applies to all Product purchases made as of January 1, 2013.

Warranty Claimant: A claimant is the registered owner at the time that the Product is installed ("Owner") or a subsequent registered owner ("Transferee") who has complied with the transfer provisions of this Warranty.

Warranty Period: This Warranty commences on the date of the manufacture of the Product which is date marked on the back of Product. The warranty period is as follows: (a) Single Family Detached Residences ("Properties"): lifetime warranty for original owner and for Transferee 50 years pro rated per Warranty Coverage outlined below; (b) Other Structures ("Structures") : fifty (50) years; and (c) Special Location Properties ("Special Location"): twenty Five (25) years for Properties and Structures south of latitude 25 degrees north.

Warranty Coverage: (a) Properties and Structures: (i) During the first five (5) years, the Company shall, in its sole and absolute discretion, provide replacement product for the Nonconforming Product only. The Company will not be responsible for any other costs, including, removal of the Nonconforming Product, any metal or flashing work, underlayment or disposal expenses. ("Excluded Costs"). (ii) After the fifth anniversary, the Company shall supply partial replacement Product in accordance with the following formula: the number of months remaining on the fifty (50) year Warranty divided by six (600) hundred. The Company will not be responsible for any labour or Excluded Costs. The replacement Product shall be FOB Chatham Ontario plant; (b) Special Location: The Company will supply partial replacement Product in accordance with the following formula: the number of months remaining on the twenty five (25) year Warranty divided by three (300) hundred. The Company will not be responsible for any labour or Excluded Costs. The replacement Product shall be FOB Chatham Ontario plant.

Warranty Registration: The Original Owner must, within 30 days of the purchase of the Product, complete and return the warranty registration card to the Company at P.O. Box 1462, Chatham, Ontario Canada N7M 5W8 ("Company Address") or complete the warranty card on-line at www.enviroshake.com. The Company will send the Owner a Warranty Certificate within thirty (30) days. In the event that the Warranty is not registered, the Company shall be relieved of all of its obligations.

Warranty Transfer: This Product Warranty is fully transferable to a Transferee or between Transferees, provided that the Owner or Transferee registered their Warranty and complied with the terms and conditions of this Warranty. The warranty period, regardless of the number of transfers, is as follows: (a) Properties: Fifty (50) years; (b) Structures and Special Location: The balance of the remaining Warranty period. The Transferee

must, within 45 days of the date of the transfer, send to the Company (a) written notice of the transfer; (b) a copy of the Owner's Warranty Certificate and (c) a \$100 transfer fee, payable to the Company. The cancelled cheque will be the Transferee's proof of transfer. In the event that the Company is not notified of the transfer, the Company shall be relieved of all obligations to the Transferee in this Warranty.

Warranty Claims: If an Owner or Transferee has a claim under this Warranty, it must deliver to the Company, within 30 days (a) written notice of its claim with a description of the Nonconforming Product and photos ; (b) a copy of its Warranty Certificate; (c) the name and address of the Certified Installer who installed the Product; and (d) such further information and documentation as the Company may require to process the claim and make a determination.

Warranty Exclusions: This Warranty does not cover (a) Product color variation claims; (b) Any damage to or defect in the Product, directly or indirectly, wholly or partly attributable, to the misuse, abuse or neglect of the Product, including any damage to the Product resulting from any alterations or modifications of the Product (whether by the addition of chemicals, solvents, paints, stains or otherwise); the removal of any material or substance applied to and/or accumulated on the Product after installation; or combining the Product or incorporating it into other structures or using the Product for any purpose other than a roof covering; (c) Any damage to the Product caused by inadequate ventilation of the roofing system or caused by the installation of the Product in a manner contrary to the Company's recommended practices or the applicable building code; (d) Any damage to the Product caused by vandalism, improper storage by the Owner or its agents; acts of God, fire or accidental damage by the Owner or its agents or any third parties; and (e) Any damage to the Product from tornados, ice and water build up, acid rain, lightning, falling objects; environmental or wildlife causes; or an accumulation of organic debris in the keyways which restricts the ability of the shake to expand and contract.

Conditions and Limitations: (a) The Product must be installed by a Certified Installer. A list of Certified Installers is available through the Company; (b) The Company shall, in its sole and absolute discretion, determine if the Product is defective and unfit for the purpose intended; (c) The Company's liability and the Owner or the Transferee's exclusive remedy is limited to this Warranty. The Company's obligation under this Warranty shall in no event exceed the original cost of the Product; (d) The Company shall not be liable for any incidental, consequential or special damages of any kind; and (e) This Warranty is specifically provided in lieu of all other express or implied warranties, including implied warranties of merchantability or fitness for a particular purpose.

Applicable Law and Dispute Resolution: (a) This warranty shall be governed by and construed in accordance with the laws of the Province of Ontario and any applicable federal laws of Canada; and (b) All claimants hereby irrevocably attorn to the jurisdiction of the Courts of the Province of Ontario and agree that all disputes or claims of any kind, including, claims under this Warranty or in contract or tort, shall be brought in Windsor, Ontario, which Courts shall have exclusive jurisdiction to determine all disputes or claims. At the option of the Company may, which must be exercised within 30 days of written notice of a claim, refer the claim to arbitration to be heard by a single arbitrator. The arbitration shall be conducted in accordance with the Ontario Arbitration Act and the arbitration shall take place in Windsor, Ontario. The parties shall share the costs of the arbitration equally, including, the arbitrator's costs and there shall be no appeal from the arbitrator's decision.

General: (a) Written Notice shall be sent by registered mail to the Company's Address; (b) This Warranty shall not be modified or extended and no person is authorized to change this Warranty in any way or grant any other Warranty; (c) The Company reserves the right to cancel and/or modify this Warranty without notice at any time; however, all fully paid warranties shall remain in force until their expiration; and (d) If any provision of this Warranty is held to be invalid, void or unenforceable, the remaining provisions shall nevertheless continue in full force. The company is not liable for any product with a manufacturing date prior to February 28, 2010.