Canyon Shake Battenless

INSTALLATION GUIDE

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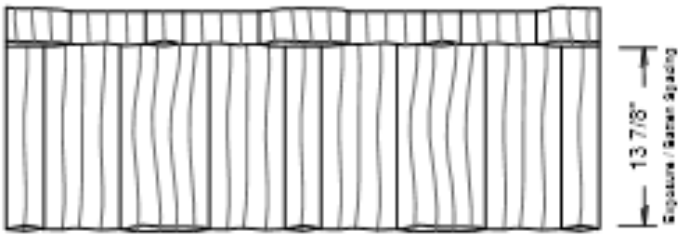
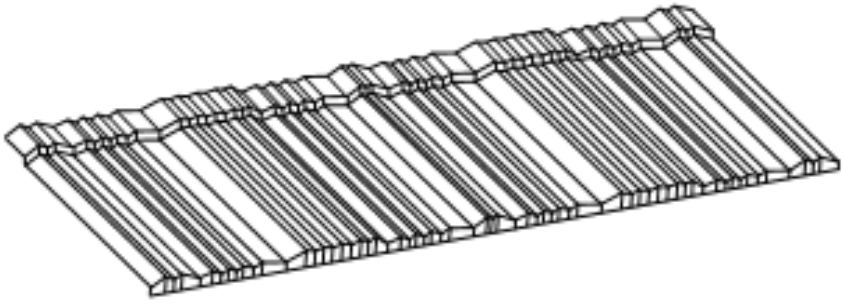


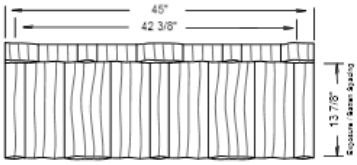


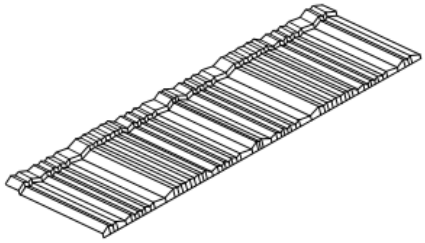
INSTALLATION NOTIFICATION

The installation procedures demonstrated in this manual are recommended methods for the installation of the Gerard Canyon Shake battenless roofing system. They are not the only ways to install a Gerard system but are acceptable methods for the standard installation of the Gerard product. Contractors and installers should at all times use their professional judgment, and modify and tailor details to fit their specific installation and to meet local codes and ordinances. Due to the fact that Gerard has no control over the actual installation of the product, Gerard assumes no liability for incorrect installation of its product or any personal injury that may occur while installing such product. Nor does Gerard express nor imply any warranty related to the installation of the product. Gerard's liability with regards to the Gerard product is limited exclusively to its standard written lifetime limited warranty. Therefore, Gerard recommends that only professional roofing contractors, who have completed the Gerard Factory Training Program, should install the Gerard roofing system. Although a contractor has completed the factory training course, Gerard does not guarantee the success of the installation.

Canyon Shake Battenless

Gerard Canyon Shake





Actual Size= 45”x 16.5”

Exposure= 42 3/8”x 13 7/8”

Weight= 5.83lbs. per panel

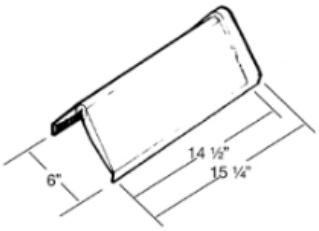
Panels per square (100 sq. ft.) =

24.5 pcs

Weight per square=

140 lbs.

Gerard Shake Cap



Actual Size= 15 1/4”x 6”

Exposure= 14 1/2"x 6”

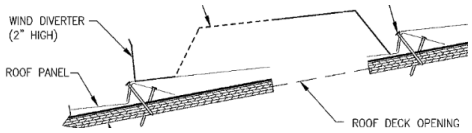
Weight per cap= 1lb.

Canyon Shake

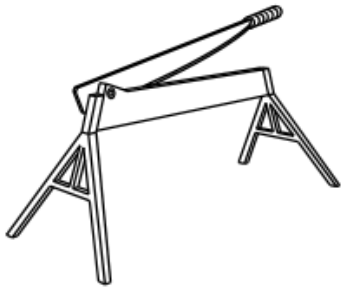
The Canyon Shake panel is designed to emulate the traditional hand-split wood shake. The profile gives a rugged wood shake appearance and adds strength making it a very walkable stone coated steel roof. The minimum install pitch for Canyon Shake is a 3” rise in a 12” run.

Canyon Shake Battenless

Parts and Accessories

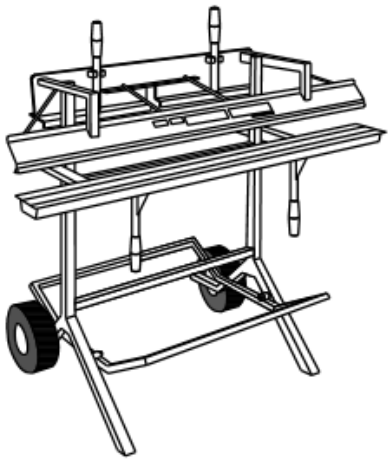
Guardian Valley (stone coated)	
Eave Metal (3.5" fascia or 5" fascia)	
Z-Bar 3" or 5"	
Wind Soffit (used at ridge vent)	
EZ Vent	
Rigid Vent (at eave)	As provided by Gerard (or similar to Cor-a-vent) ¾" Cor-a-vent (used at eave detail)
Ridge Vent	As provided by Gerard (or similar to Python) 3" Python (used at fascia or ridge)
Fasteners	As provided by Gerard¾" Stitch Screw 2 ½" Panel Screws (fasten panels to structure) 2 3/8" Ring Shank Nails (optional panel fastening) 3 ½" Ring Shank Nails (for battens)

Canyon Shake Battenless



Tile Cutter

This tool is used to cut the panels both in length and width. The legs are removable for ease of handling; the cutter adjusts for left or right handed use. The blade is reversible and able to be sharpened.



Shake Brake

The brake can perform multiple tasks:

1. Make half panel bends up and down.
2. Bend full panels across the width
3. Bend flat stock and modify existing flashing.
4. Complete taper bends for trimless details.

General Safety Notes:

The safety tips provided here are for general awareness of the user. Gerard Roofing Technologies assumes no liability or responsibility for incorrect use of the products or any personal injury that may be caused as a result of use.

- Select an open area and establish a safe working perimeter to set up tools. Instruct anyone in the vicinity of the safe working area.
- Inspect each tool before each use. Do not use a tool that is not in good working condition. Regularly maintain tools for best performance.
- Wear personal protective equipment.
- Be aware of “pinch points” and keep hands and clothing away from such.
- Use the correct tool for the job.

Canyon Shake Battenless

General Information

Storage
Product must be kept covered, well ventilated and dry until installed. If the stacked tiles become wet, they should be immediately separated and dried. Please refer to MCA minimum performance guidelines for more detailed standard practice information relating to site storage of metal roofing.

Roof Traffic
The Battenless tiles by Gerard are installed from the eaves up. When walking on the installed tiles, walk on the front edge of the low sections where the two rows come together and are attached. Avoid stepping on side laps.

Footwear
When it is required to walk on the Gerard tiles, rubber soled athletic type shoes or similar soft soled footwear is recommended to avoid damage to the finished product and to provide grip for safety.

Roof Pitch
The Gerard tile is designed to be installed from a minimum of 4:12 pitch up to a vertical face in all climates and down to 3:12 pitch in warm weather climates. For slopes under 3:12, the tiles act only as a decorative roof covering. In this type of installation please consult our technical department (1-800-237-6637) and the local building officials.

Underlayment
The use of underlayment is generally required by most building codes. When installing the Gerard products in a battenless application over existing asphalt shingles, a code compliant underlayment should be used to separate the bottom of the Gerard panel from the abrasive surface of the shingle. The exception to this condition will be in areas of extreme weather conditions where the underlayment should be of a type required by the local building code and official.

Galvalume
The Gerard Stone Coated Steel Roof System is produced exclusively from long lasting Galvalume Steel. The Galvalume coating will react unfavorably if in direct contact with lead or copper in a wet environment. Rain water run-off from copper roofs onto a Gerard Roof should be avoided as the run-off can be aggressive in nature and may attack the finishes. Only approved fasteners should be used. Please consult the technical department for recommendations.

Pressure Treated Battens
The use of copper based pressure treated lumber should NOT be used when installing Gerard roofing products. The use of such will void the lifetime limited warranty offered by Gerard. Any questions call our technical department at 1-800-237-6637.

Use of Fasteners in Saltwater Areas
All exposed fasteners used for the installation of Gerard Roofing products within one mile of non-freshwater properties must be stainless steel.

Severe Weather Conditions
If the area to which the Gerard panels are to be installed is prone to severe ice, snow, water or wind, additional measures may be required. Please contact the Gerard technical department for more detailed procedures 1-800-237-6637.

Installation Labor
A minimum two-man crew is recommended from start to finish. This will provide a cost effective, quality installation. A qualified two-man crew is generally able to install a minimum of one square (100 sq. ft.) per hour under normal circumstances.

Canyon Shake Battenless

Best Installation Sequence

When installing a battenless system:

1. Begin with code compliant underlayment (minimum #30 felt)
2. Install wood framing at eaves, rakes, hips and ridges
3. Install appropriate size fascia/drip trim
4. Chalk lines as indicators of level and even spacing for panel courses
5. Install panel from the bottom up insuring that courses are straight
6. Lay field panels with the correct offset/stagger to cover major areas of the structure quickly (including sub-panel for pipe flashings)
7. Install the detail panels at hips, rakes, valleys and ridge
8. Install trim and flashing
9. Caulk and seal all flashings and penetrations
10. Touch-up any areas that may be required

Canyon Shake Battenless

Roof Preparation

*Gerard Canyon Shake Panels can be installed over composition shingle or over solid sheathing (solid sheathing will require code approved underlayment).

1. **Re-roof over composition shingles, the procedures are as follows:**

    1. Cut back existing shingles flush with the perimeter of the roof.
    2. Remove existing drip edge.
    3. Remove hip and ridge cap.
    4. Dry-in with a minimum #30 felt underlayment in proper “shingle” method as per manufacturer.

2. **New Construction or full Removal of existing roof, procedures as follows:**

    1. Remove all existing roofing materials to deck. Ensure deck is to local code.
    2. Install new minimum #30 felt underlayment according to local code requirements and manufacturer specifications. #30 equivalent synthetic underlayment is acceptable.
    3. Install valley materials including water barrier underlayment.
    4. Install ice and water shield at all valleys, rakes and eaves.

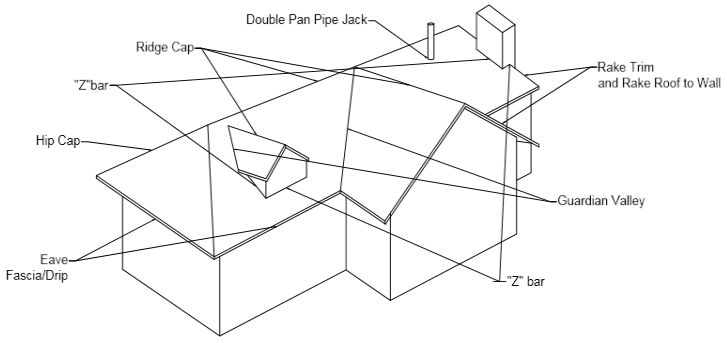
Notes:

1. Make sure deck attachment is to code but at a minimum 8d x 2 3/8” Ring Shank Nails spaced 6” O.C.

2. Minimum underlayment should be ASTM D226 Type II #30 felt fastened according to code.

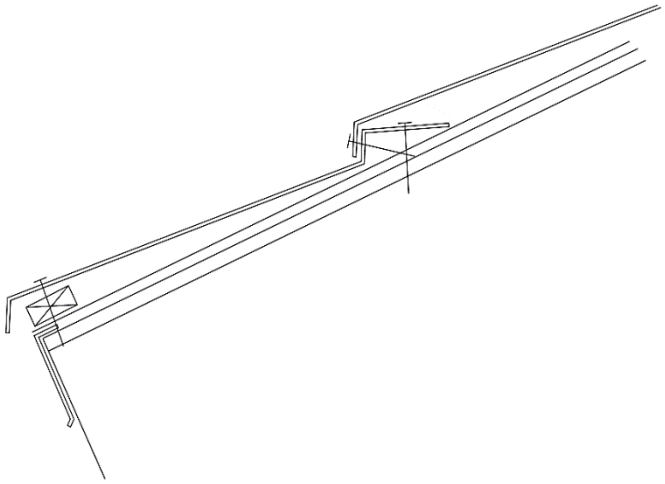
3. Where fire barrier is required UL listed fire barrier with valid evaluation report is approved when installed according to code and ICC report.

4. Local building codes govern.



Canyon Shake Battenless

Eave Detail

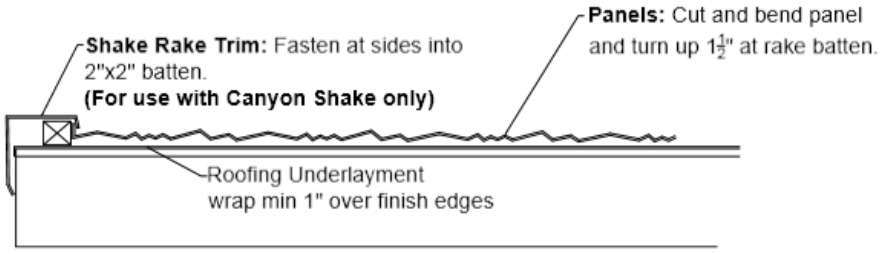


At the eave:

1. Install Eave Metal (3 ½" or 5" fascia metal, "t-style" drip edge, or apron style drip edge)
2. Install dry-in material **on the top** of the Eave Metal
3. Install rigid vent material or nominal 1"x 4" with ring shank nails 16" on center at fascia to maintain proper alignment of panel
4. Install Canyon Shake panel with fastener of sufficient length to penetrate decking by a minimum of ¾"
5. Seal and chip fasteners that penetrate the top surface of the panel (fastener locations at bottom panel)
6. Fasten panels as required

Canyon Shake Battenless

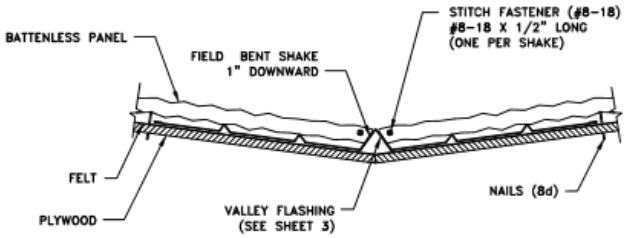
Rake Trim Detail



1. Install 2”x2” rake batten. Inside edge of rake batten should measure 3” from the rake fascia
2. Fasten rake batten into decking with ring shank nails or screws
3. Cut Canyon Shake panel to the correct length. **DO NOT CUT PANEL WITH SAW OR GRINDER**
4. Fold Canyon Shake up at the rake batten minimum 1 ½”
5. Install Shake Trim tight to the Canyon Shake turn up (for a tighter fit the Trim may be formed at the “hugger” bend to square the cap)
6. Fasten caps with two fasteners in the rake and one into the rake batten on the top of the cap. Make certain to seal and granule coat the fastener that is in the top of the cap
7. Fasten panels as required

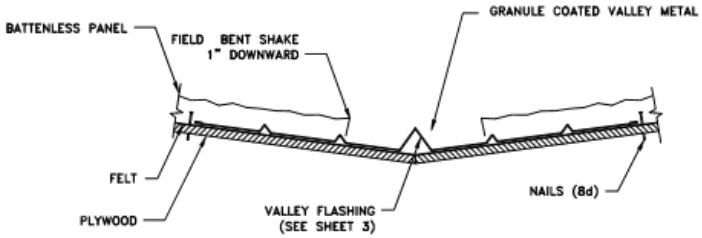
Canyon Shake Battenless

Valley Trim Detail



VALLEY DETAIL

SCALE: 3"=1'-0"



OPEN VALLEY DETAIL

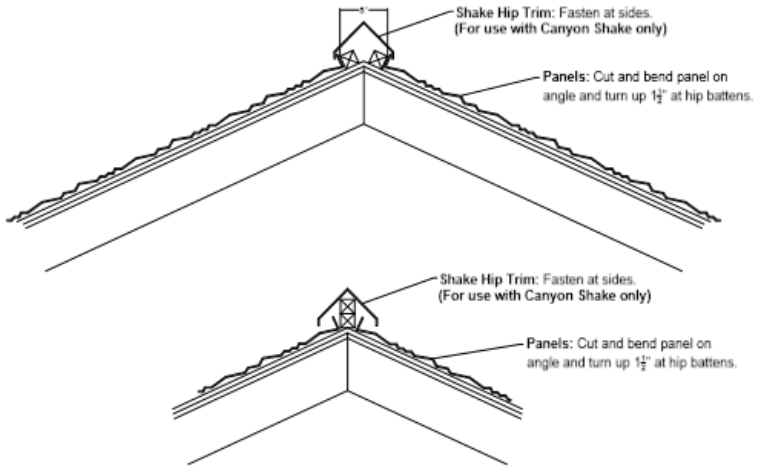
SCALE: 3"=1'-0"

At the valley intersection:

1. Lay Guardian Valley centered on the valley
2. Fasten Guardian Valley 24" O.C. each side. Fastener to be into the hemmed edge
3. Cut and bend (1 ¼") Canyon Shake panel to the correct length and angle to match valley angle. **DO NOT CUT PANEL WITH SAW OR GRINDER**
4. Install the Canyon Shake panel
5. In high wind zones, a foam closure is to be used installed at the first water rib (see full manual)
6. Fasten panels as required (a ¾" stitch screw should be used at the panels positioned over the valley pan. DO NOT penetrate the valley inside of the last water channel)

Canyon Shake Battenless

Hip Trim Detail

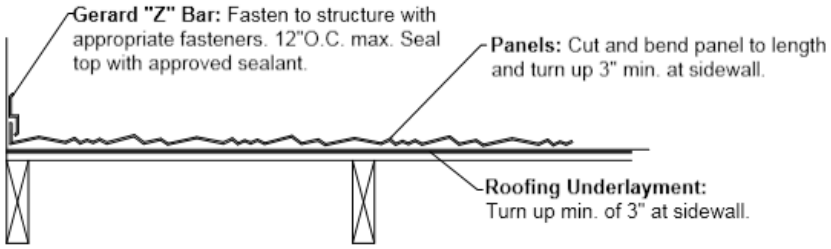


At the hip intersection:

1. Position two (2) nominal 2”x2” battens centered 5” apart on the sheeting joint
2. Fasten batten to the structure 12” on center
3. Cut and bend (1 ¼”) Canyon Shake panel to match hip angle. **DO NOT CUT PANEL WITH SAW OR GRINDER**
4. Shape and install Shake Trim with panel screws into the 2”x2” (Optional use of Gerard Granite Ridge Hip and Ridge may be used with a single batten)
5. Fasten panels as required
6. Optional: Stack two (2) nominal 2” x2” battens on the hip point and fasten to structure 12” O.C.

Canyon Shake Battenless

Wall Trim Detail

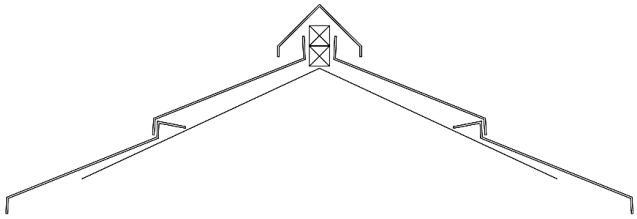


At the wall intersection:

1. Cut and bend (minimum 1 ½") Canyon Shake panel to the correct length. **DO NOT CUT PANEL WITH SAW OR GRINDER**
2. Fasten panels as required
3. Install "Z" bar to wall with appropriate fastener for wall structure
4. Caulk the top of the "Z" bar with gun grade polyurethane sealant
5. Optional: the "Z" bar may be used as a reglet ledge for siding to install over the top of the seal leg. To perform this, the caulk bead edge will need to be flattened

Canyon Shake Battenless

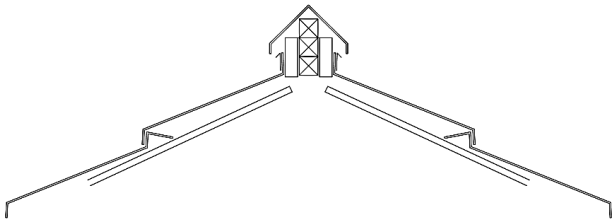
Non-Vented Ridge Detail



At the ridge:

1. Stack two (2) nominal 2”x2” on the ridge and fasten to the structure
2. Bend and cut Canyon Shake panel to size needed. **DO NOT CUT PANEL WITH SAW OR GRINDER**
3. Install Shake Cap, fastening into the 2”x2” on each side
4. Fasten panels as required

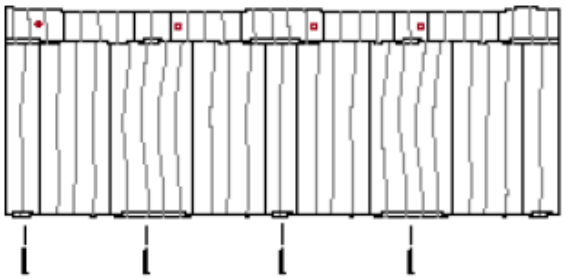
Vented Ridge Detail



1. Make certain that appropriate opening is provided in roof decking
2. Stack three (3) nominal 2”x2” on the ridge and fasten to the structure. Number of battens varies with roof pitch
3. Install vent material to stacked 2”x2”s
4. Bend and cut Canyon Shake panel to size needed. **DO NOT CUT PANEL WITH SAW OR GRINDER**
5. Install Wind Soffit to bent panel (panel may be formed to create wind soffit)
6. Install Shake Cap, fastening into the 2”x2” toward the top bend on each side (2) maintaining air space
7. Caulk and chip fasteners
8. Fasten panels as required

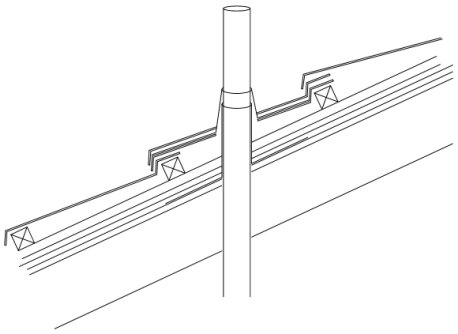
Canyon Shake Battenless

Standard Panel Fastener Locations



For high wind fastening locations please consult the Gerard Technical Staff

Double Pipe (Sandwich) Pipe Flashing



1. If dry-in state is required, a sub-pipe jack may be installed with dry-in material
2. Install minimum #30 felt under batten system
3. Install one Canyon Shake panel with a hole of sufficient size to fit easily around pipe
4. Size and form granule coated steel pipe boot and seal it to under-panel
5. Cut the second panel tightly to the boot
6. Set the panel over the boot
7. Caulk and chip the hole and top of the boot

NOTE: other flashing methods are available. Contact technical support or review full Installation Manual.