



# GRANDBEAM<sup>®</sup>

## INSTALLATION INSTRUCTIONS



Rt. 3, Box 632  
Idabel, OK 74745  
Phone: 800-926-8509  
Fax: 800-289-6007

2402 Industry Way  
Cedar City, UT 84720  
Phone: 800-432-2725  
Fax: 800-380-4784

55 Lamb Loop  
Tifton, GA 31793  
Phone: 800-749-8144  
Fax: 800-632-2725

26 gauge GrandBeam is suitable for both roofing and siding applications.  
29 gauge GrandBeam is suitable for siding applications only and is not recommended for roofing applications.

Note: Specifications subject to change without notice or obligation to make changes in products previously purchased.

## Metal Frame Carport or Shed Not Incorporating Eave Overhang Or Soffit Box

When a carport or shed does not incorporate a Soffit Box, the roof panels simply follow the contour of the structures frame and wrap around the eave location. This produces a unique panel installation, which begins at the ridge location rather than the eave. All flashing and trim that fit over the rafters of the structure should be in place before installing the panels. Do not fasten these flashings through the top of the rafter due to interference with the panels.

1. Begin panel placement approximately 3" to 3 ½" down slope from the center of the ridge. After the panel has been determined to be square, install #12-14x1" HWH SDST screw with sealing washer through each flat of the panel and into every rafter location. The correct location for the fastener is in the flat part of the panel, directly before the rise of the panel rib. Do not place fasteners in the lower flat (at first rib) of the panel at this time. If more than one panel is needed per course, complete the course using the standard GrandBeam sidelap detail.
2. Install the next panel or course making sure that the correct GrandBeam panel endlap is being achieved. The lower portion of the GrandBeam panel will have to be lifted slightly, giving the panel being installed, the ability to fit under the lower rib of the previously installed panel. The bottom hem of the previously installed panel should fall over the anti-siphon channel of the panel being installed. With this accomplished, the under-lapping panel can be fastened down with the exception of the lowest rib. With this panel securely in place, now the lower rib of the overlapping panel can be fastened in place.

3. Continue steps 1 and 2 for the remainder of the roof allowing the panel to follow the contour of the structure's frame at the eave location. If it is desired to continue the panels down the sidewall, do so using the same technique as step 1 and step 2.
4. With all of the panels in place the ridge cap can be fastened to the upper leg of the GrandBeam panel. Install #14-14x1" Stitch Screws every 12 inches on center to secure the ridge cap.

## Metal Frame Carport Incorporating Eave Overhang or Soffit Box

1. Install eave flashing using #12-14 x 1" HWH SDST screw with sealing washer. Drive fastener through eave flashing into support every 24" or at every support location. Only install fasteners into fascia leg of eave flashing. Do not place fasteners through upper leg of eave flashing due to possible interference with the panel. Upper leg of the flashing will be secured when panels are installed.
2. Install the gable flashing(rafter flashing), if required, using #12-14 x 1" HWH SDST screw with sealing washer every 24" o/c. Do not install fasteners on the top of the rafter due to possible panel / fastener interference.
3. With the eave and gable (rafter) flashing in place, the first GrandBeam panel can be installed. Panel placement should begin at the eave working up-slope toward the ridge. Place the first panel so that the panel hem overhangs the eave by approximately 1"- 2". Once the panel has been determined to be square, place a #12-14x1" HWH SDST screw with sealing washer through each flat of the panel and into the rafter. The correct location for the fastener is in the flat part of the panel, directly before the rise of the rib. Continue this fastening technique across the entire length of the panel at every rafter. This first panel will require an additional fastener at the eave location. This fastener will hold the panel flat and secure at the eave. If more than one panel is needed per course, complete the course using the standard GrandBeam sidelap detail.
4. After the first panel has been secured, the next panel can be installed. Attention needs to be given to correctly endlap the GrandBeam panel. The hem of the panel being installed needs to be placed over the edge of the previously installed panel's anti-siphon channel. After determining that the panel being installed is square, a single #12-14x1" HWH SDST screw should be placed in each panel flat,

directly before the rise in the panel rib. Be sure that all fasteners are going into the rafters. Fasteners should be placed at every rafter/support location. Repeat this step for all remaining panels with the exception of the final panel installation.

5. The installation of the final panel (**the panel closest to the ridge**), can be accomplished using two different methods based on the building width and roof pitch.

**Method 1:** Install the final panel following the same procedure as that of the previously installed panels. If the top of the panel extends beyond the ridge area, trim excess before securing the panel.

**Method 2:** In some cases trimming of the final panel can be avoided by shifting the final panel down, creating an overlap of one full rib. Fasten the panel using the same steps as that of the standard panel overlap.

6. With all of the panels securely in place, the J or gable trim can be installed to finish off the edges of the GrandBeam panel's at the gable ends. This trim should be fastened into each rib of the GrandBeam panel using #14-14 x1" type A stitch screw with sealing washer.

7. After all panels and trim have been installed, the ridge cap can be fastened in place. The ridge cap is installed using #14 -14 x 1" type A stitch screws, every 12" o/c on both sides of the ridge. The fasteners should pass through the ridge cap and into the GrandBeam panel directly above the anti-siphon channel. If the top of the panel has been trimmed, it no longer retains the anti-siphon channel. If this is the case, fasten the ridge cap into a convenient panel location every 12" o/c on both sides of the ridge.



## **Corporate Office**

3449 Hempland Road, Lancaster, PA 17601

## **Additional Locations**

Rout 24 West, Gridley, IL 71744

308 Alabama Blvd., Jackson, GA 30233

Route 3, Box 632, Idabel, OK 74745

2402 Industry Way, Cedar City, UT 84720

658 Boekel Road, Rathdrum, ID 83858

1820 East 26<sup>th</sup> Street, Marshfield, WI 54449

55 Lamb Loop, Tifton, GA 31793

[www.fabral.com](http://www.fabral.com)

e-mail address: [fabinfo@fabral.com](mailto:fabinfo@fabral.com)