

# ESJ<sup>™</sup>

ENERGY SAVER

## Single Layer Wall Install Instructions

**FOR NEW CONSTRUCTION**

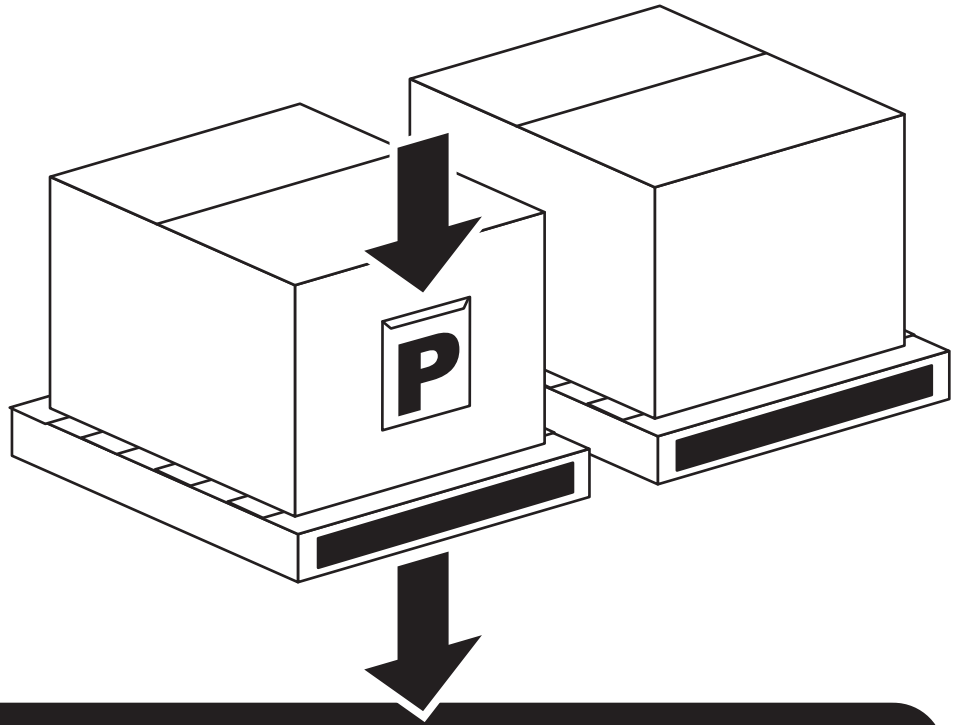
**Read the entire instructions before you begin.**

**Before you begin:**

Locate the shipping pallet that contains the Energy Saver installation packet, which will be indicated by a marked sticker.

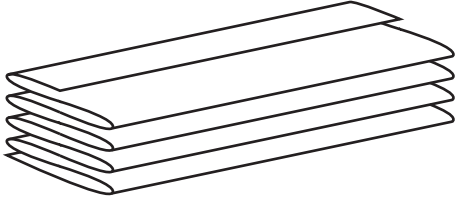
**It will contain:**

- *Jobsite Cutlist* - This should be used to inventory all Energy Saver fabric/components and unfaced insulation rolls. Additionally, it will indicate where the products are to be installed on your project.
- *Installation Instructions* - These will be used to explain the steps involved with the Energy Saver wall installation.
- *Packing Slip(s)* - This is the carrier's paperwork detailing delivered materials. Please be sure to inventory all materials and mark any shortages before signing delivery paperwork.



The pallet(s) will also contain the accessories needed for the successful completion of your Energy Saver Wall:

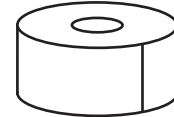
Energy Saver Fabric (bagged and labeled with size and installation locations)



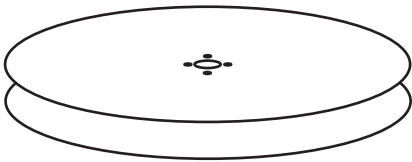
3/4" metal tek screws with washer



Patch tape



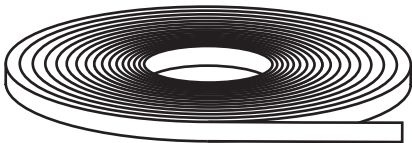
Energy Saver banding dispenser



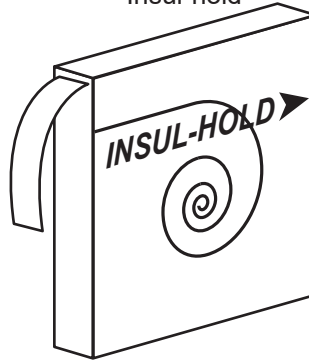
Energy Saver double sided tape



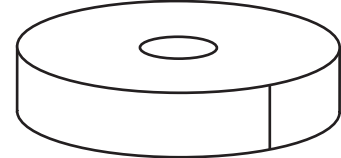
Energy Saver banding



Insul-hold



Energy Saver thermal foam tape

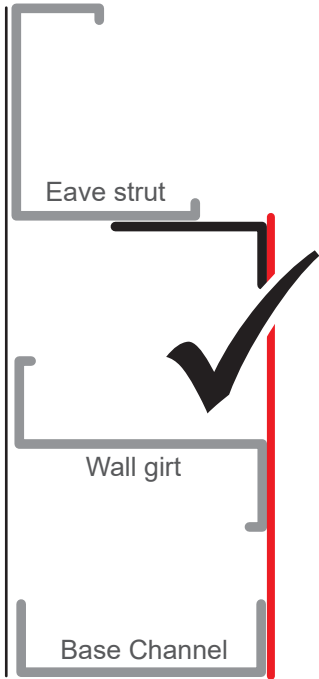


**!** The Energy Saver system is not recommended for high humidity applications and should never be used in buildings housing pools or open sources of water.

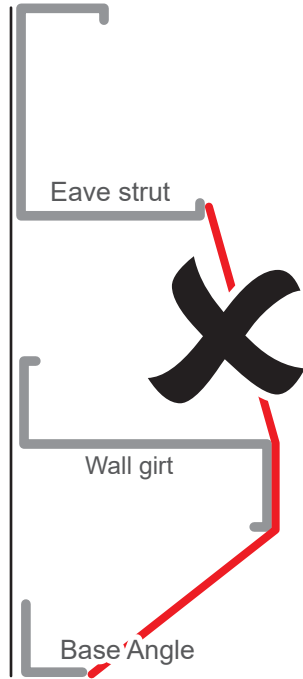
## What an Energy Saver wall does!

Providing a clean, plum and finished appearance is only part of a correctly installed Energy Saver Wall system. Properly filling the cavity must also be done to provide optimal performance.

The **facing** is plum with wall girts



The **facing** needs additional support



The **insulation** fills the cavity



The **insulation** is creating gaps



**!** We recommend using a metal angle, not supplied by Silvercote, as the most durable connection (Technical Detail SIL 800). While this angle may not be supplied as a standard part by many manufacturers it is typically available at an additional charge, or can be purchased locally.

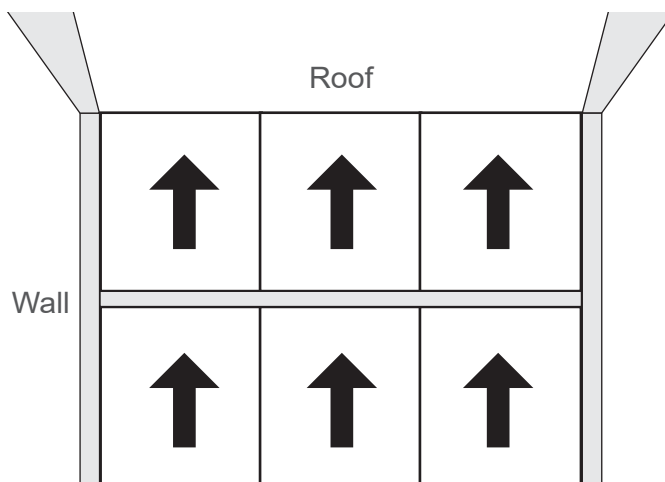
A basic method is to use the supplied banding and tape to make this connection. See Technical Detail SIL812 available at [www.silvercote.com](http://www.silvercote.com)

### STEP 1. Vertical or Horizontal Insulation Install

**1.1** Your Energy Saver wall was ordered for the insulation to be installed Vertically or Horizontally. Determine which you have.

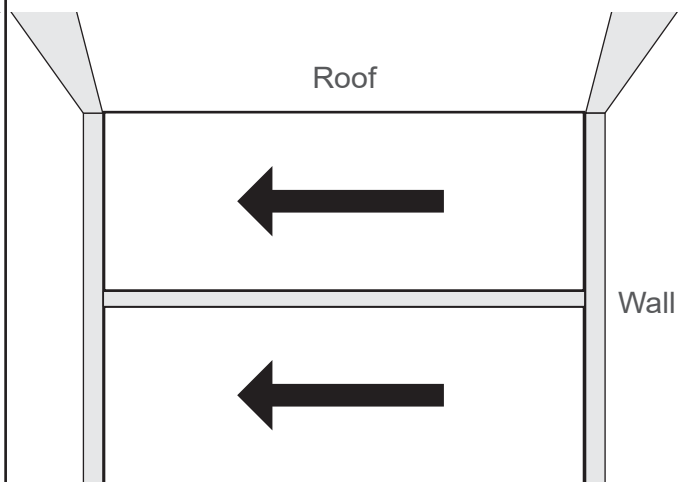
**Vertical insulation install - GO TO STEP**

**2**



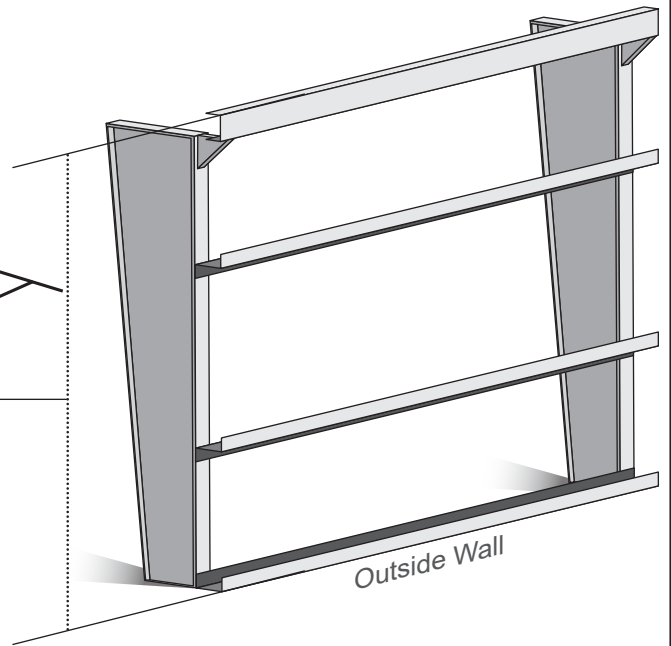
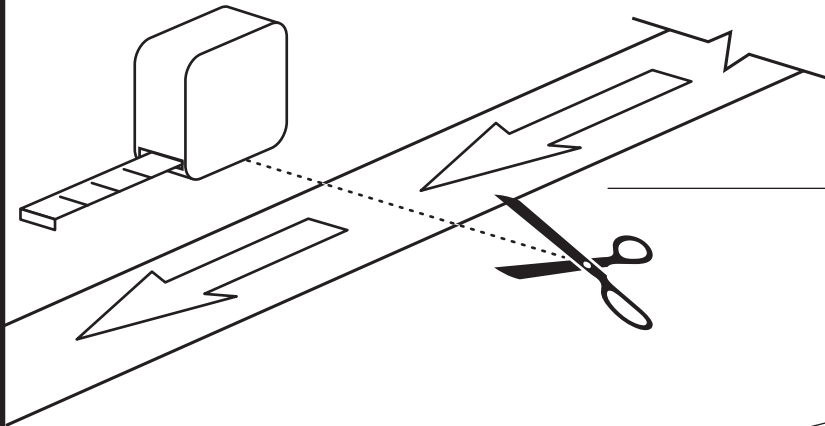
**Horizontal insulation install - GO TO STEP**

**3**



## STEP 2. Vertical Insulation Install

**2.1** Cut Insul-hold hangers to length of the eave height of the building.

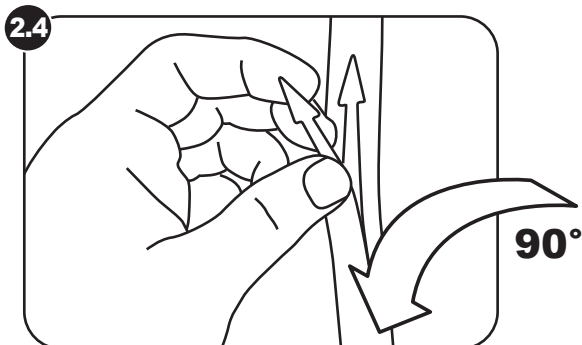


**2.2** Install Insul-hold plumb and true using  $\frac{3}{4}$ " tek screws with washers to the eave strut and base channel. Additional screws may be attached to girts if desired.

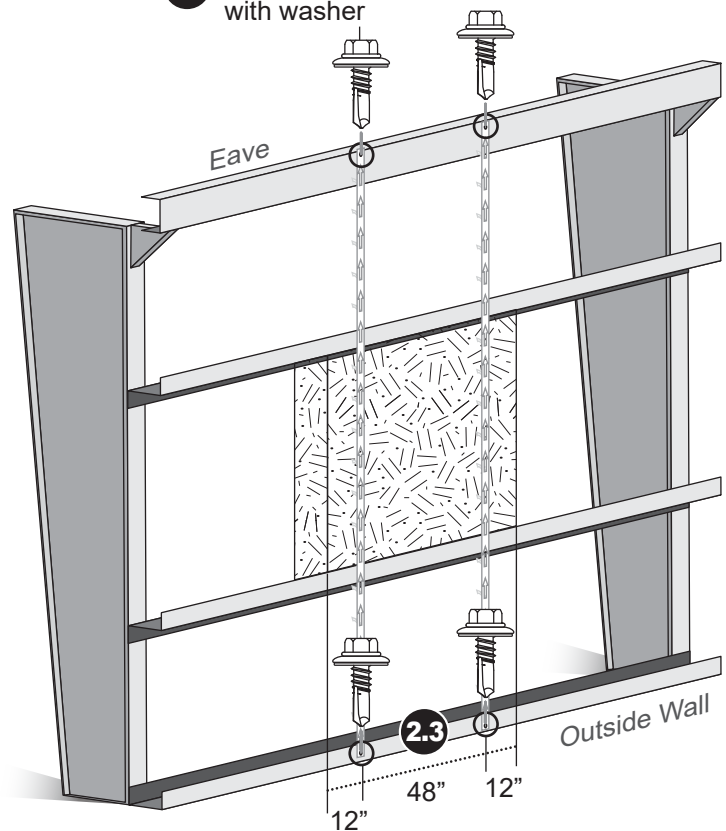
**2.2**  $\frac{3}{4}$ " tek screw with washer

**2.3** Insul-hold should be installed full height 12" edges of roll not to exceed 48" between bands ensuring 2 runs of coil per roll of insulation.

**2.4** From the inside of the building, bend arrows down to a 90 degree angle.



Bend arrows toward the inside of building



**! WARNING** - Insul-hold should support each end of insulation. Additional Insul-hold pieces may be cut and installed if needed.

## STEP 2. Vertical Insulation Install (CONTINUED)

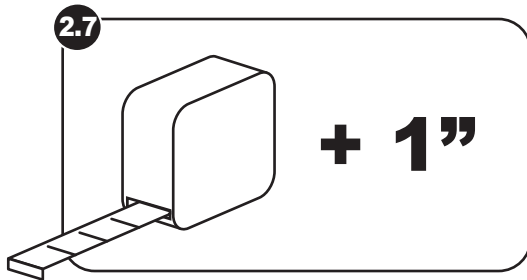
**2.5** Apply adhesive backed Energy Saver thermal foam tape (1/4" thick x 3" wide) to exterior flange of secondary structurals. Remove the paper backing

**For framed openings see the SIL810 - Door and Window Technical Detail.**

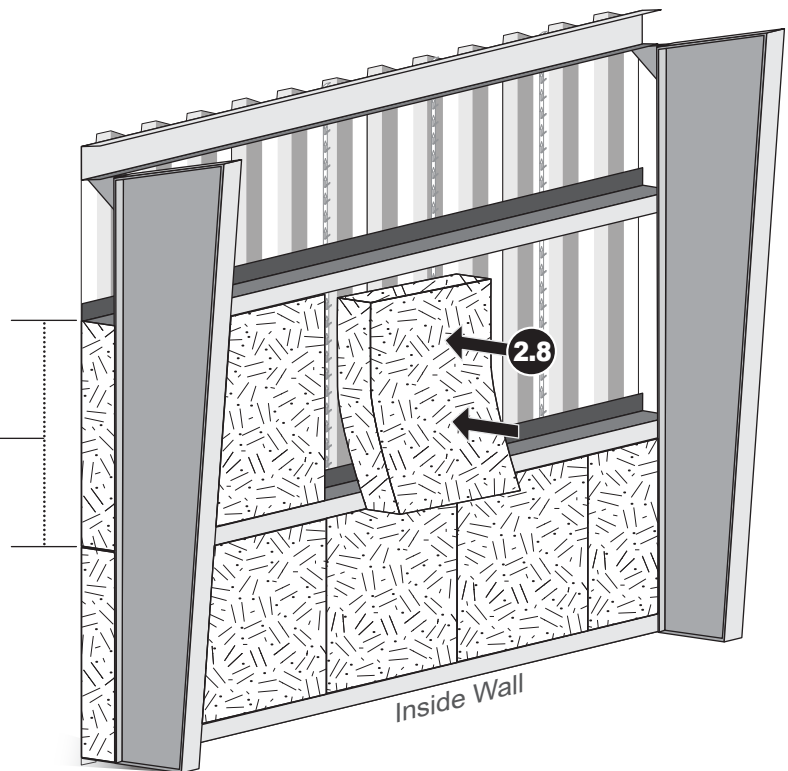
**2.6** Install wall sheeting as per the manufacturer's instructions.



**2.7** Cut supplied rolls of unfaced insulation to appropriate girt space size 1" longer than girt space to assure a friction fit.



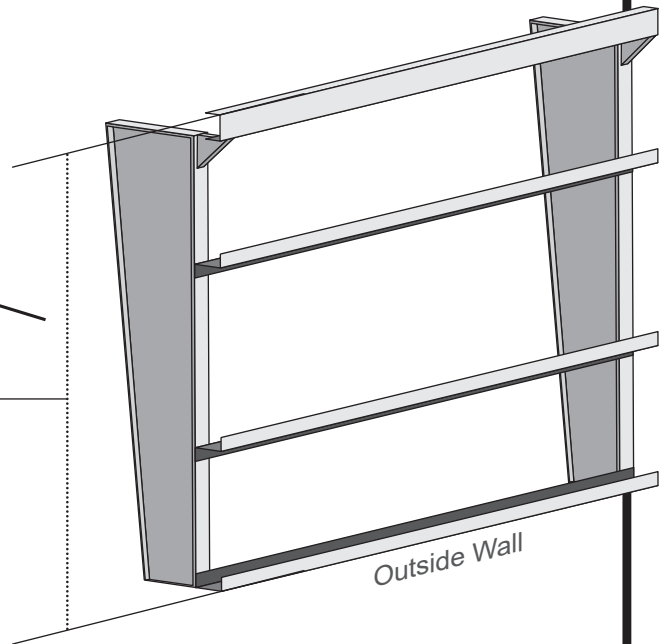
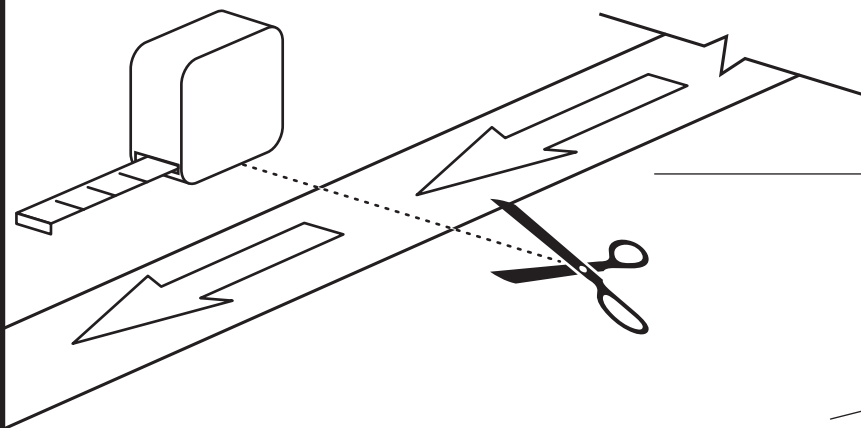
**2.8** Install insulation in the cavity impaling it on the Insul-hold arrows for support.



**Continue to STEP 4**

### STEP 3. Horizontal Insulation Install

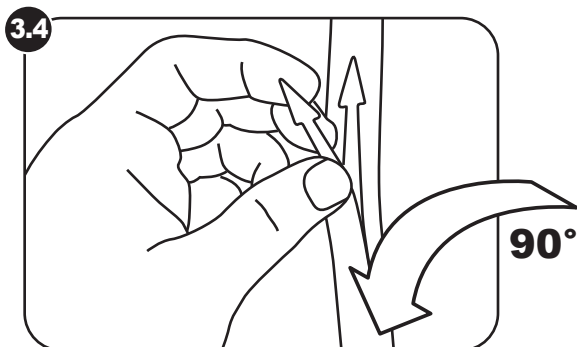
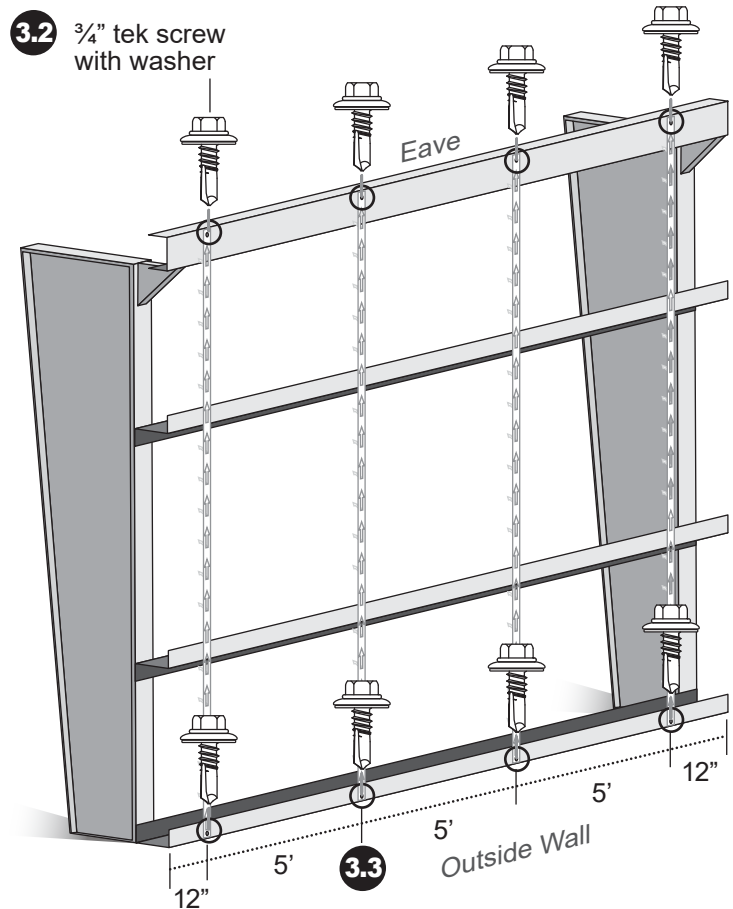
3.1 Cut Insul-hold hangers to length of the eave height of the building.



3.2 Install Insul-hold plumb and true using  $\frac{3}{4}$ " tek screws with washers to the eave strut and base channel. Additional screws may be attached to girts if desired.

3.3 Insul-hold should be installed full height 12" from the ends of the roll and then 5' on center max.

3.4 From the inside of the building, bend arrows down to a 90 degree angle.



Bend arrows toward the inside of building

**! WARNING** - Insul-hold should support each end of insulation. Additional Insul-hold pieces may be cut and installed if needed

### STEP 3. Horizontal Insulation Install (CONTINUED)

**3.5** Install Energy Saver thermal foam tape along the eave strut, base channel, each wall girt or any structural that will come into contact with the wall sheeting. Remove the paper backing.

**3.6** Install wall sheeting per the manufacturers instructions.

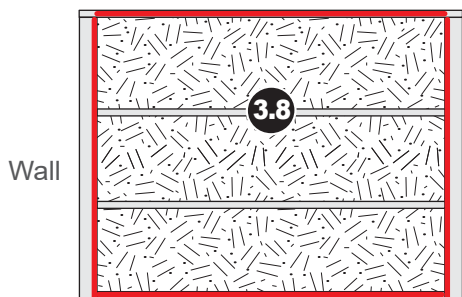
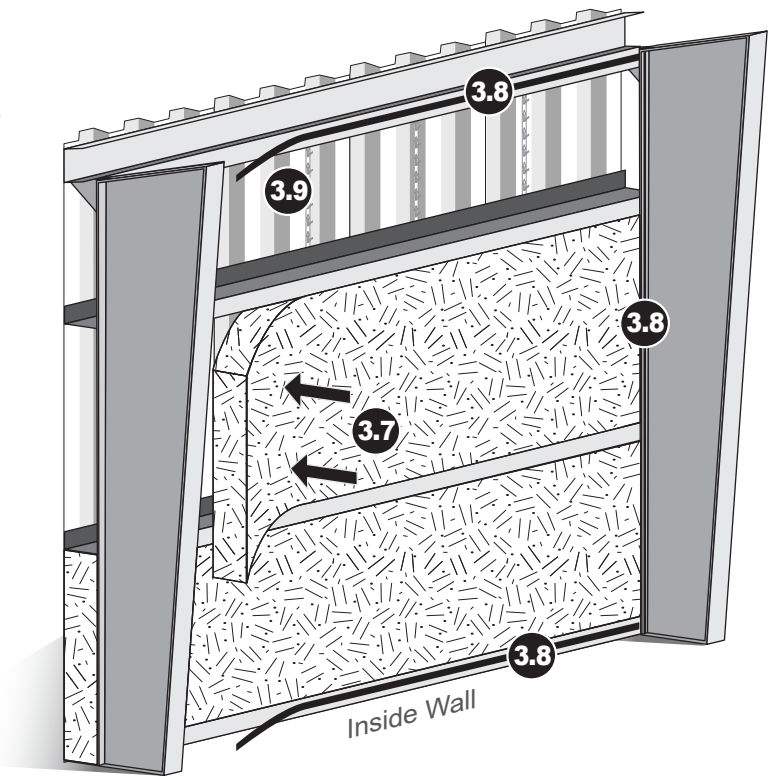


**3.7** Locate the proper width of insulation for the height of each girt space. Unroll insulation cutting to length plus 1" longer to assure a friction fit. Install cut roll into the cavity and impaling it on Insul-hold arrows.

**3.8** Apply the Energy Saver double-sided tape to the metal angle at Eave Strut, along the base channel and along the sides of the main structurals.

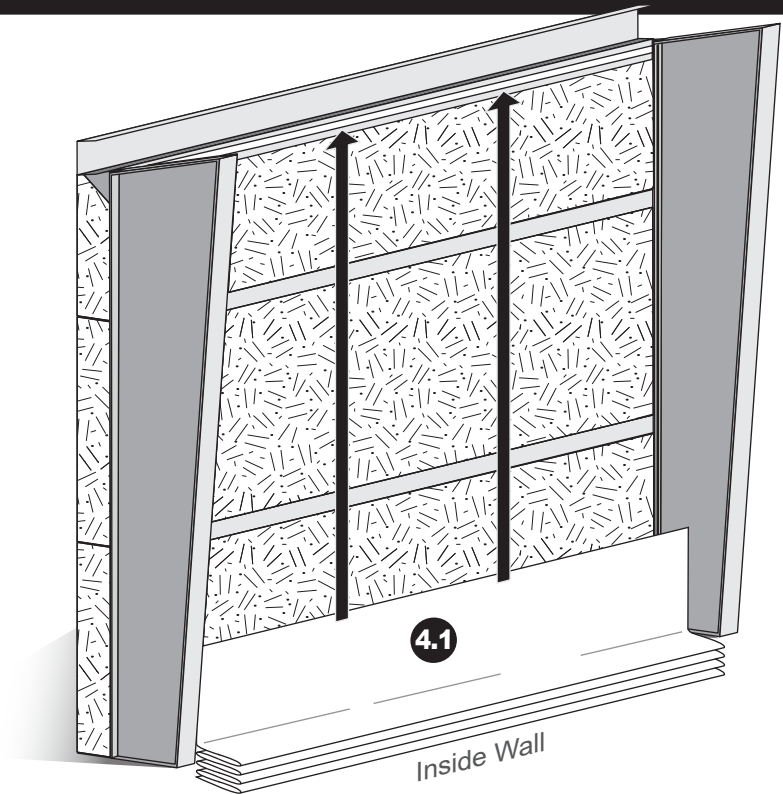
**! WARNING** - Metal angle is not provided by Silvercote.

**3.9** Remove the tape backing along the metal angle only.



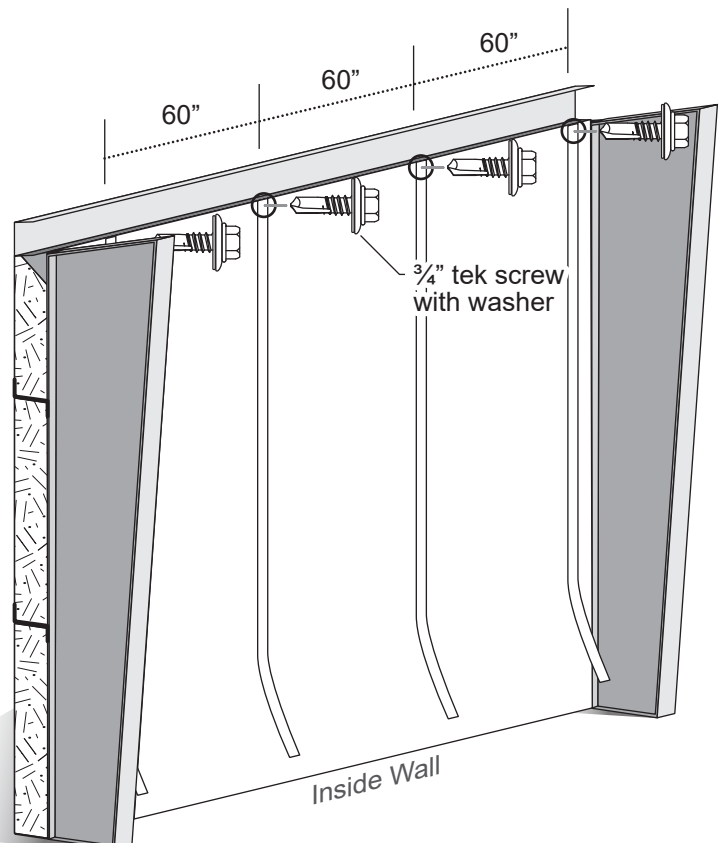
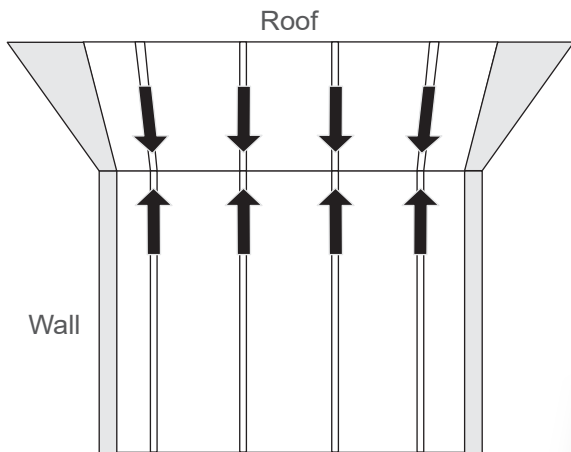
## STEP 4. Install the Energy Saver wall fabric and banding

4.1 Pull the wall fabric up toward the wall girt to the metal angle. Ensuring the fabric is square, apply the fabric to the Energy Saver double-sided tape.



4.2 Fasten  $\frac{3}{4}$ " tek screws with washers through the banding and fabric into the metal angle on 60" centers.

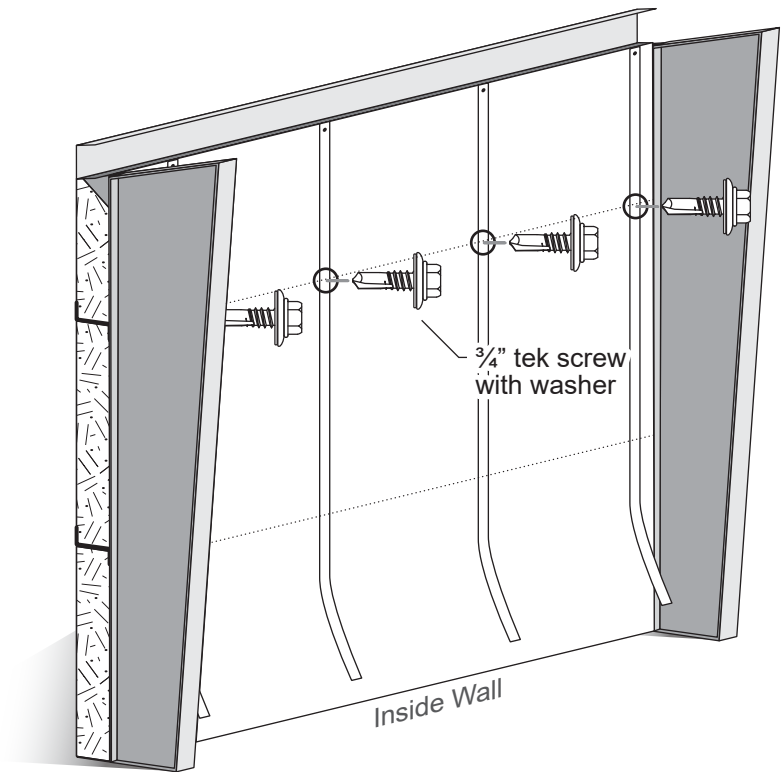
**NOTE:** If installing in conjunction with Energy Saver roof insulation it is recommended that the bands be positioned in line with the cross bands of the roof system.



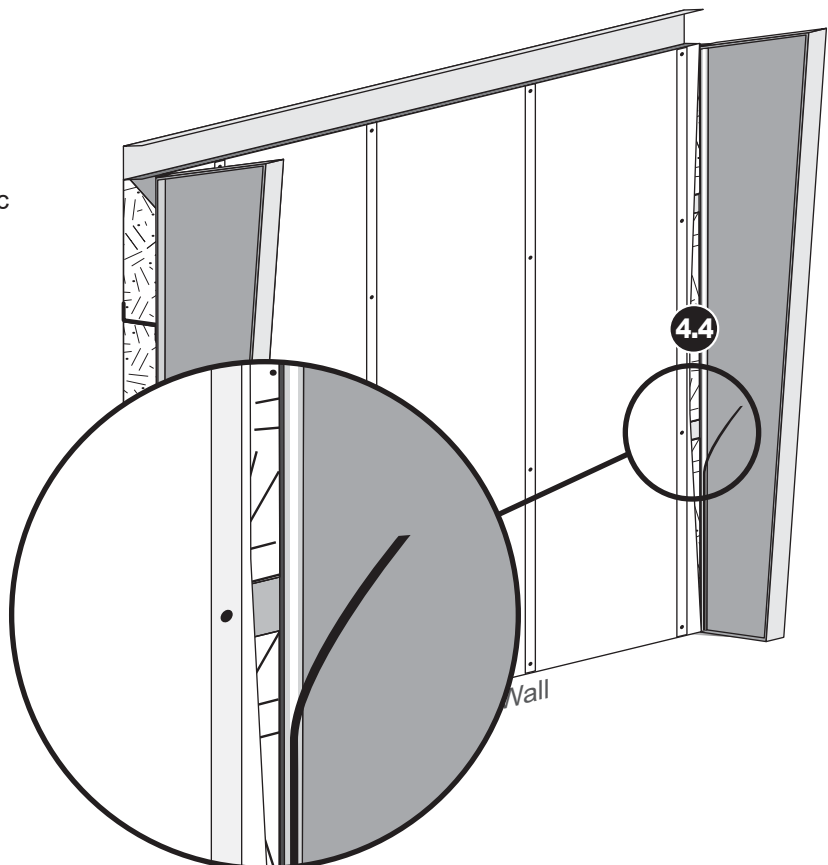


## STEP 4. Install the Energy Saver fabric and banding (CONTINUED)

- 4.3** Working your way down from the top. Smooth the Energy Saver fabric out ensuring there are no wrinkles and install  $\frac{3}{4}$ " tek screws with washers through the banding at each wall girt down to the base channel.



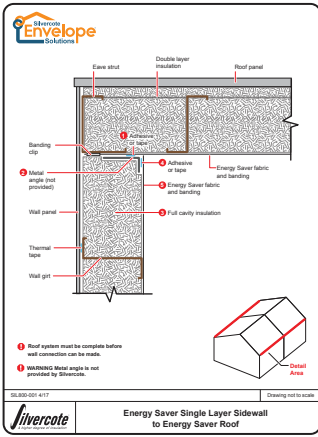
- 4.4** Gently pull the Energy Saver fabric back from the main structurals and remove the backing from the Energy Saver double sided tape. Apply the Energy Saver fabric to the tape. Press firmly to ensure the Energy Saver fabric adheres to the tape.



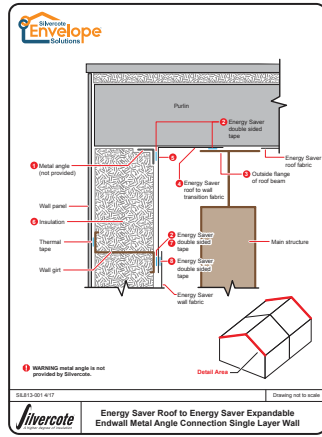
# Endwall, Sidelwall and Roof applications technical details

These can be downloaded from [Silvercote.com](http://Silvercote.com) or ask your Salesperson.

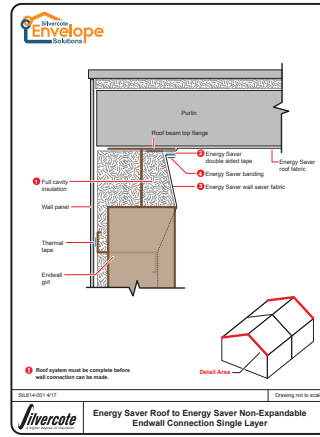
## ENERGY SAVER WALL TO ENERGY SAVER ROOF CONNECTIONS



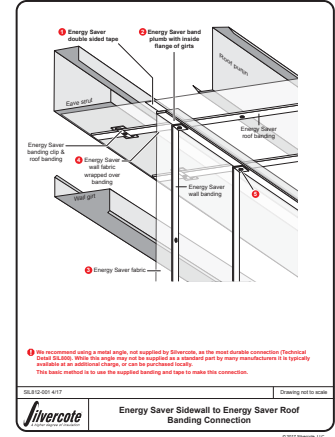
**SIL800** - Energy Saver Sidelwall to Energy Saver Roof - Angle Connection



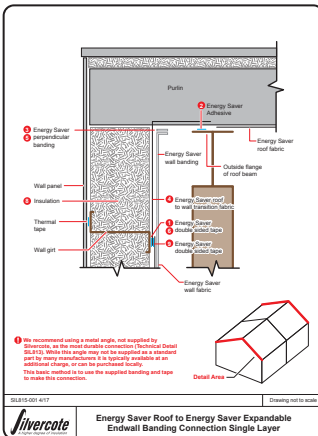
**SIL813** - Energy Saver Expandable Endwall to Energy Saver Roof Connection



**SIL814** - Energy Saver Non-Expandable Endwall to Energy Saver Roof Connection

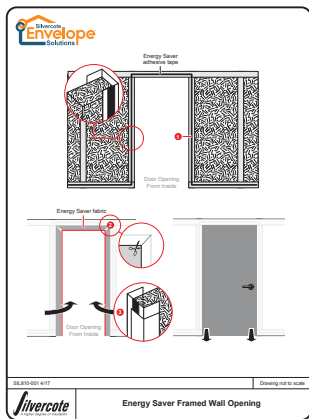


**SIL812** - Energy Saver Sidelwall to Energy Saver Roof - Banding Connection

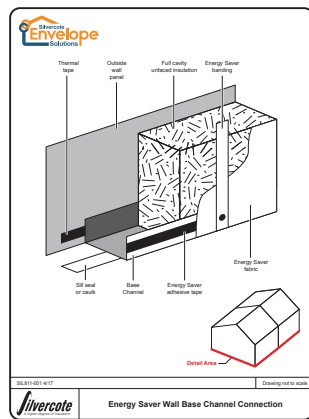


**SIL815** - Energy Saver roof to Energy Saver Expandable Endwall Banding Connection

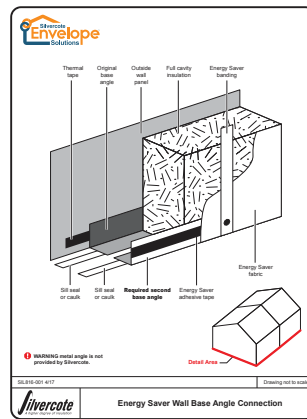
## ENERGY SAVER WALL CONNECTIONS



**SIL810** - Energy Saver Door and Window Connection



**SIL811** - Energy Saver Wall Base Channel Connection

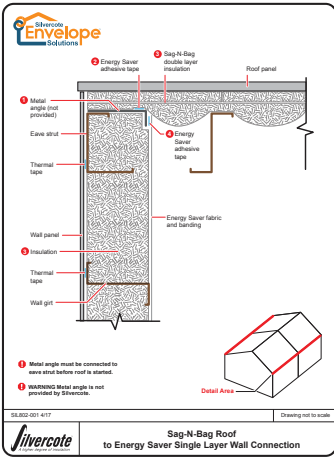


**SIL816** - Energy Saver Wall Base Angle Connection

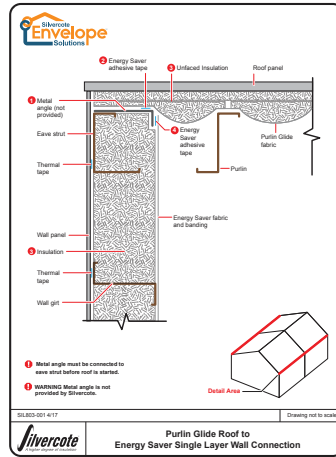
# Endwall, Sidewall and Roof applications technical details (CONTINUED)

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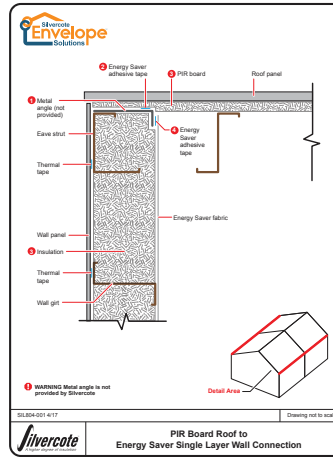
## ENERGY SAVER WALL TO OTHER ROOF SYSTEMS



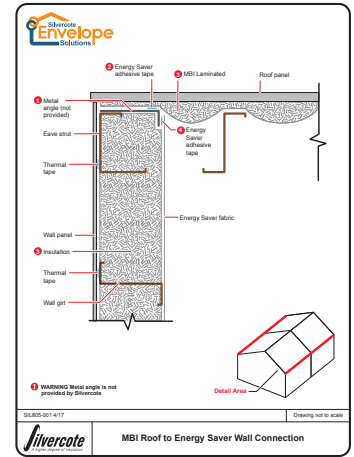
**SIL802 - Sag N Bag Roof to Energy Saver Wall**



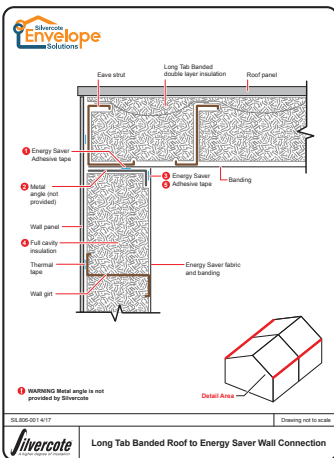
**SIL803 - Purlin Glide Roof to Energy Saver Wall**



**SIL804 - PIR Board Roof to Energy Saver Wall**



**SIL805 - MBI Roof to Energy Saver Wall**



**SIL806 - Long Tab Banded Roof to Energy Saver Wall**