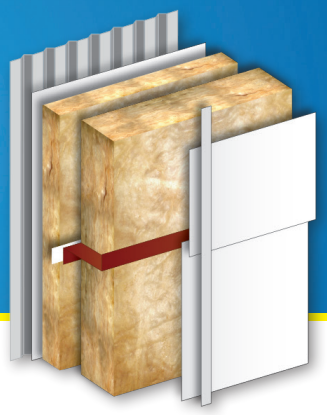


Filled Cavity – Double Layer Wall Systems Installation Instructions

Materials Required:

- *NAIMA 202 or equivalent faced fiberglass insulation - Supplied in rolls at the specified R-Value with 2-3" tabs and / or one 6" tab sealed with a suitable tape (where applicable), in widths to match girt spaces and lengths as specified*
- *NAIMA 202 or equivalent faced or unfaced fiberglass insulation - Supplied in rolls at the specified R-Value, in standard lengths and widths*
- *Lamtec Vapor Retarder - As specified*
- *Metal Banding - Supplied in coils, minimum 3/4" wide*
- *Banding Screws - Minimum 1/2" hex-head TEK screws*
- *Foam Tape - 1/8" thick x 3" wide self-adhesive (where applicable)*
- *Thermal Spacer Blocks -1" x 3" extruded polystyrene (where applicable)*
- *Other - A suitable tape, adhesive, or sealant*

Materials shall be inspected for damage, proper sizes, and quantities upon delivery and should be stored in a dry, secure manner. Notify carrier and your laminator of any damaged material, improper sizes, or shortages immediately upon delivery.

Side and End Walls:

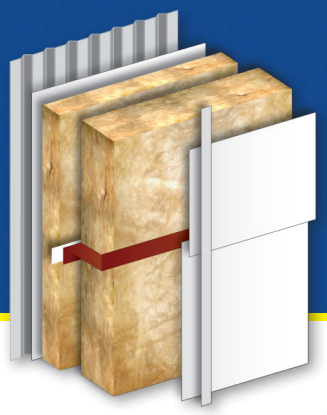
Outer Layer Installed Perpendicular to the Girts:

Prior to installing the fiberglass, either 1/8" foam tape or 1" x 3" thermal spacer blocks (where applicable) should be applied to the exterior side of the outer girt flange surfaces and any other exposed secondary framing. The thermal spacer blocks should be installed on the outside flange of the girts using double sided tape or suitable adhesive.

Once the foam tape or thermal spacer blocks have been installed, the wall insulation can be temporarily attached to the eave strut or rake angle with clamps, and rolled downward from the roof edge on the outside of the girts until it can be held in place with the wall panels. If faced, the facing should be installed to the outside, between the insulation and the wall panels.

The width of the wall insulation should extend 12" beyond the leading edge of the wall panel being installed. At the end of the wall, the fiberglass should also extend 12" beyond the last wall panel to allow for the insulation to wrap around the corner.

Adjacent and additional rolls of insulation should be installed in the same manner with edges of the fiberglass blanket butted tightly together.



Filled Cavity – Double Layer Wall Systems Installation Instructions (cont)

Faced Inner Layer Installed Between the Girts:
When girt spacing allows, the faced insulation should be installed horizontally, parallel to, and between the girts, completely filling the cavity.

The tabs should be taped to the exposed face on the inner girt flanges and sealed to the facing tab from adjacent girt space (where applicable) with a suitable tape, adhesive, or sealant to form a continuous vapor retarder. It may be necessary to peel the facing from the fiberglass at the girt flange to allow the insulation to fill the cavity.

When girt spaces are wider than the available fiberglass width, it is acceptable to install additional runs of fiberglass horizontally to completely fill the girt space.

As an alternative, the faced insulation can be installed vertically and the facing tabs sealed with a suitable tape, adhesive, or sealant.

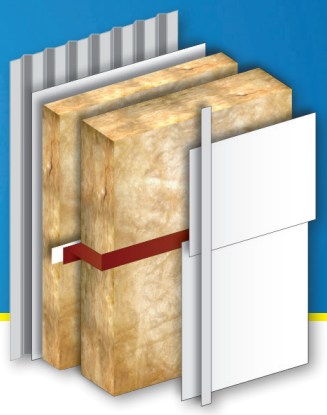
When multiple fiberglass runs are installed to fill the girt cavity, it is important that the edges of the fiberglass from adjacent runs are in direct contact with each other and that the facing tabs are overlapped and sealed with a suitable tape, adhesive, or sealant to form a continuous vapor retarder.

At the main frames and corners, the insulation should completely fill the girt cavity behind the column (where applicable). The faced insulation can be cut vertically and the facing should be sealed to the column with a suitable tape, adhesive, or sealant. When the faced insulation is installed behind the column, it is important to trim and seal the facing at the upper and lower girt intersections with a suitable tape, adhesive, or sealant.

At the building corners, the insulation should wrap completely around and the facing should be sealed to the facing on the adjacent insulation run with a suitable tape, adhesive, or sealant to maintain the continuity of the vapor retarder layer and help reduce air leakage.

NOTE:

- *As a general rule, to reduce the potential for moisture to wick into the insulation, the lower edge of fiberglass should be protected by wrapping it with a layer of facing. This can be an extension of the facing from the inner layer (or outer layer) of insulation or a separate facing layer. To help reduce air leakage, a sealant can be applied between the slab and wrapped facing.*
- *If the inner and outer layers of insulation are faced, one facing layer should be perforated or breathable (high moisture permeance) to prevent a "Double Vapor Barrier" situation. Consult local codes and architect / building engineer for vapor retarder orientation in your climate zone.*



Filled Cavity – Double Layer Wall Systems Installation Instructions (cont)

Banding:

The banding should be installed perpendicular to the girts 30” on center.

The banding should be cut long enough to run from eave or rake to the base angle.

Planning:

The banding should be positioned over the facing, pulled straight and taut and attached to the interior face of the girts with 1/2” or 3/4” TEK screws.

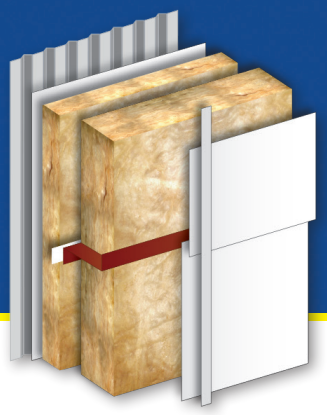
It is important to plan the installation progress of the wall panels to make certain that there is no exposed insulation at the end of the work day or at the onset of inclement weather.

Suggested Practices:

- *Only install the insulation as far out as you can cover with wall panels in one day or as weather permits.*
- *Do not leave any insulation exposed overnight; the system is not designed to be exposed to heavy rain or snow.*
- *As the erector / installer, you assume responsibility for all materials once on-site. It is in your best interest to protect the insulation from getting wet.*

Note:

These instructions are meant to be a guide; they are not the only way to install this type of system. Modifications will likely be necessary to accommodate project variables. A cross section diagram has been provided to illustrate the final installed system.



Filled Cavity – Double Layer Wall Systems Installation Instructions (cont)