

INSTALLATION

Reflective Insulation is easily installed using a tape measure, scissors or a utility knife, a staple gun and duct or foil tape.



TO INSTALL

- Measure and cut insulation with scissors or utility knife, allowing extra length for overlap at the bottom.
- With foil side facing the wall, staple one of the flanges to furring strip, every 4 - 8 inches from top to bottom.
- Attach the insulation to the other furring strip and staple flange. During the installation process, the pleats in the foil should create an air pocket between the two layers that forms the barrier to heat transfer.
- For optimum effectiveness, insulation should fit snugly around wall outlets. Gaps around outlets or at seams should be taped securely. Foil must not make contact with the opposite side of the wall cavity.
- Tears in the material should be repaired with tape.
- Metal furring strips should be wiped with a clean cloth prior to installation. Use two-sided tape or spray adhesive to secure the insulation as described above.
- To cover splices in wall cavities, overlap the material or cut a square, and butt the pieces together.
- For irregularly shaped cavities that are more narrow than the standard widths, pull insulation over the top of the furring strip. For cavities that are wider than 16", use the 24" wide material. For cavities wider than 24", install an additional furring strip.
- For horizontal spaces above and below windows, install insulation horizontally as outlined above.

INSTALLATION TIPS

SPLICES

Treat wall splices with overlapping Sol-R-Wall pieces or cut Sol-R-Wall material to fit side by side and tape seam so that the material is seamless.

OPENINGS

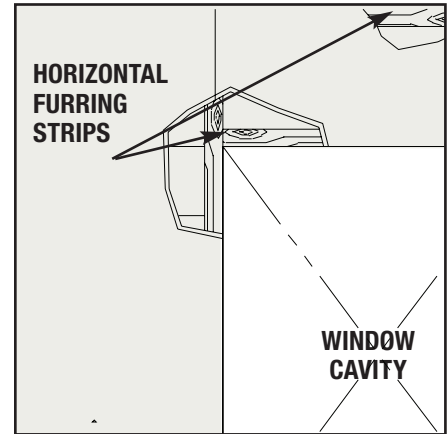
As shown in the diagram, make sure material is installed tightly around all openings. Tape may be applied to secure the edges of the Sol-R-Wall.

NOTES

- Tears and rips must be taped.
- Wipe metal furring strips and apply spray adhesive or double stick tape on the metal furring strip(s). This step will secure the insulation temporarily (until the wall board is installed).
- Recommended review: ASTM C727 -12 for Standard Practice for Installation and Use of Reflective Insulation.

WALLS FURRED 16" & 24" ON-CENTER

1. Hold printed side of the Sol-R-Wall with the foil side facing the masonry.
2. Staple at the top of the furring strip on one side only until completed to the length of the panel. Staple every 4" to 8".
3. Trim the Sol-R-Wall and allow enough length to overlap the bottom horizontal furring strip.
4. Grasp the staple tab on the opposite side and lightly pull to expand the material. Staple to the other furring strip. Repeat the procedure for the entire length of the wall, stapling every 4" to 8".
5. Staple the top and bottom horizontal furring strips every 4" to 8".



Sol-R-Wall can be installed horizontally on horizontal furring strips only.

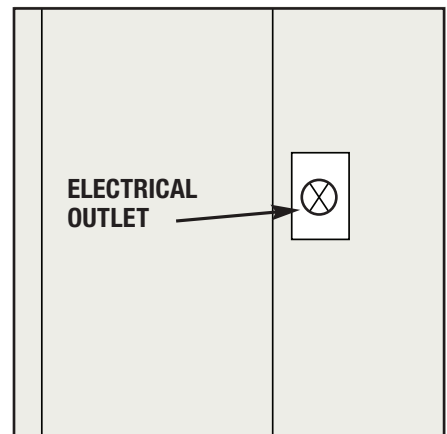
NON-STANDARD CAVITIES

Cavities *less* than the standard widths:

1. Follow steps 1-3 as noted above.
2. Start at the top. Hold the other side of the insulation and pull over the top of the other furring strip. Use this procedure the entire length of the wall; pull and staple every 4" to 8". Trim excess material.

Cavities *wider* than the standard widths

When the cavity is wider than 24" install another furring strip. If the cavity is wider than 16" O.C., use 24" wide material using the steps above. See diagram to the right.



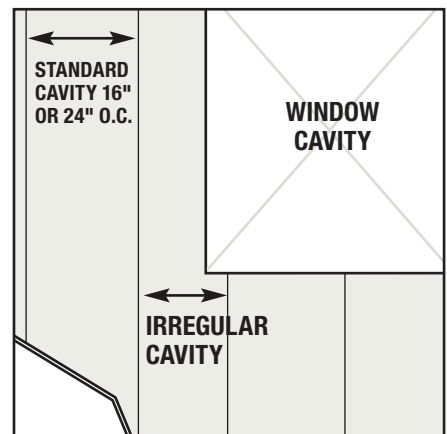
Install Sol-R-Wall tightly around all outlets and openings. Use tape as needed.

STORAGE

Sol-R-Wall should be stored in a covered building. It is best to be kept off the floor, away from exposure to water. Measures should be made to store material if extreme weather is present.

*Warranty may not be upheld if storage, installation and handling recommendations are not followed.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of SOL-R-WALL Insulation listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame-spread or smoke-developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the sales office nearest you for current information.



Apply 24" wide insulation on non-standard cavities that are 16" or more (O.C.).

RADIANT HEAT REFLECTION

SOL-R-WALL Insulation is a perfect extension of our full line of formaldehyde-free insulation. When installed in a concrete or masonry wall, reflective foil insulation provides resistance to solar heat gain in hot, sunny climates. Which means homeowners save on cooling costs in the summer.

HOW DOES IT WORK?

The secret is in the pleats. When SOL-R-WALL Insulation is properly installed, the reflectivity and low emissivity of the aluminum facing help block radiant energy so overall heat transfer is reduced. The specially engineered pleats expand to form air pockets between the layers of paper and aluminum. These spaces restrict air movement, thereby reducing convection and thwarting heat transfer.

PRODUCT DESCRIPTION

SOL-R-WALL Insulation has an inside layer made of aluminum foil. The outer layer is natural kraft paper. When installed on 1" x 2" furring strips spaced 16" to 24" on center, a second reflective air space is formed.

PACKAGING

SOL-R-WALL Insulation is packaged in lightweight rolls for easy carrying.

GENERAL NOTES

For additional installation information, please see ASTM C-727, "Standard Practice for Installation and use of SOL-R-WALL Insulation in Building Constructions".

SHORT FORM SPECIFICATIONS

All insulation shown on drawings or specified herein shall be "SOL-R-WALL Insulation".

LIMITATIONS OF USE

Check applicable building codes.

APPLICATIONS

SOL-R-WALL Insulation provides remarkable radiant-heat resistance for furred-out concrete or masonry walls in new construction or retrofitted homes. It can also be used as a radiant heat deflector for attic floors.

SOL-R-WALL Insulation complies with Florida Building Code requirements for concealed applications.

TEST DATA

SPECIFICATION COMPLIANCE

ASTM C 1224
(Standard specification for Reflective Insulation)

R-VALUE hr.ft. °F/Btu

RESULT 4.1 (3/4")

FACILITY JMTC

TEST REPORT 436-04591

FURRING / STUD SPACING

RESULT 16" O.C. / 24" O.C.

ASTM C 1371 Surface Emittance

RESULT 0.04

FACILITY JMTC

TEST REPORT T15-036

ASTM E 96 Water Vapor Permeance

RESULT >10

FACILITY JMTC

TEST REPORT P-03-174

ASTM E 84 Flame Spread (Foil Side)

RESULT 0

FACILITY JMTC

TEST REPORT F-15-032

ASTM E 84 Smoke Development (Foil Side)

RESULT 25

RATING Class A

FACILITY JMTC

TEST REPORT F-15-032

ASTM E 84 Flame Spread (Kraft Side)

RESULT 0

RATING Class A

FACILITY JMTC

TEST REPORT F-15-032

ASTM E 84 Smoke Development (Kraft Side)

RESULT 60

RATING Class A

FACILITY JMTC

TEST REPORT F-15-032

ASTM C 1338 Mold & Fungi Resistance

RESULT PASS

FACILITY Microlab

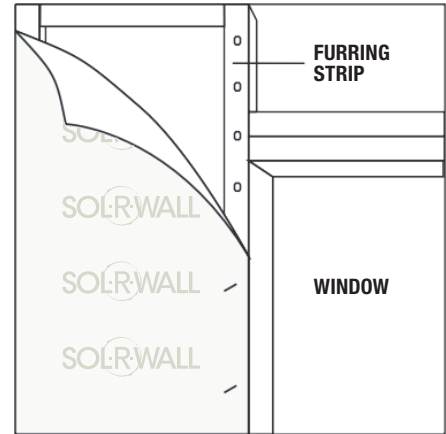
TEST REPORT 63569

ASTM C 1224 Section 9.5

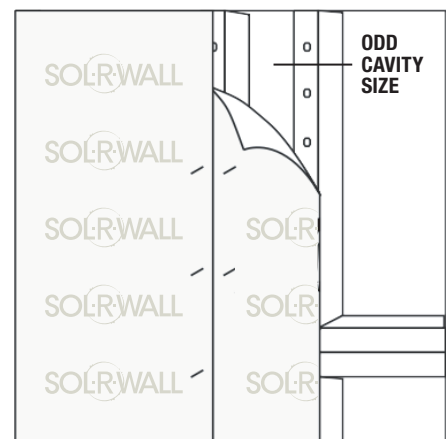
Adhesive Performance

RESULTS BLEEDING NONE

FACILITY JMTC



Installs easily around windows.



Easily fits irregular cavities.

PERFORMANCE ADVANTAGES

- **Thermal Efficiency**
Proper installation provides effective resistance to heat transfer with an R-value of 4.1.
- **Fits Standard Width Cavities**
Width expanded construction allows a perfect fit for furred-out walls 16" to 24" as well as irregularly sized wall cavities.
- **Durable**
Micro-perforations allow the product to breathe and resist moisture build-up.
- **Non-Corrosive**
Does not accelerate corrosion of pipes, wiring or metal studs.

CODES & COMPLIANCE

MEETS ASTM C 1224

- 2014 & 2012 Florida Building Code (FBC)
- 2014 & 2012 Florida Residential Code (FRC)
- 2014 & 2012 Florida Energy Conservation Code (FEEC)
- 2012 International Building Code (IBC)

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