SOL-R-WALL

INSTALLATION SHEET

SOL-R-WALL INSTALLATION INSTRUCTIONS FOR MASONRY WALLS

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.
- When using Peel and Stick material remove clear backing tape and firmly press material to furring strip allowing glue to adhere the continuous length of furring strip.
- 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. When applying to metal furring strips, IIP recommends using our patent pending version of Peel of Stick Sol-R-Wall Reflective Insulation.
- To cover splices in wall cavities, overlap the materials 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

- When not using Sol-R-Wall Peel N Stick wipe metal furring strips and apply spray adhesive or double side tape on the metal fitting strips.
- 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

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

HORIZONTAL FURRING STRIPS

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 every 4" to 8". Note: When using Peel and Stick material remove clear backing tape and firmly press material to furring strip allowing glue to adhere the continuous length of furring strip.

WINDOW CAVITY

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

NON-STANDARD CAVITIES

1. Measure and cut insulation with scissors or utility knife, allowing extra length for overlap at the bottom.

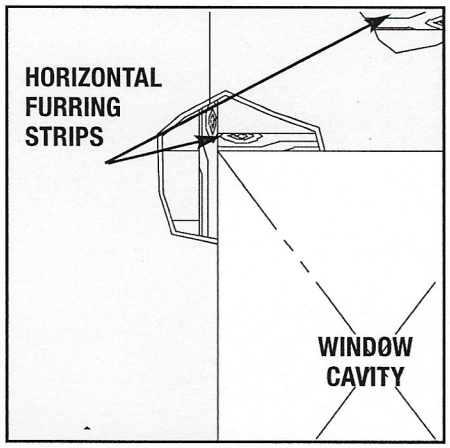
2. With foil side facing the wall, staple one of the flanges to furring strip, every 4 - 8 inches from top to bottom.

Note: for Peel and Stick repeat instructions above.

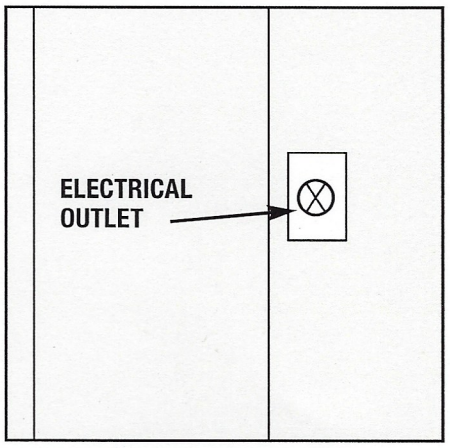
STORAGE

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.

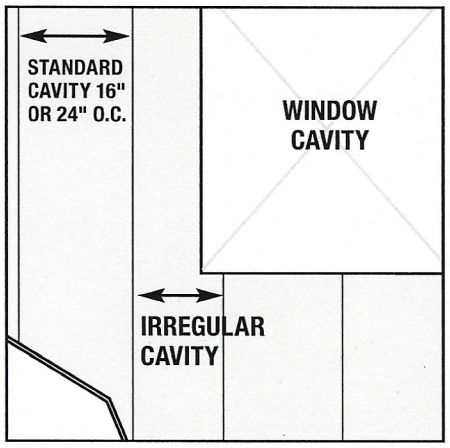
*Warranty may not be upheld if storage, installation and handling recommendations are not followed.



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



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



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

INTERNATIONAL Insulation Products, LLC

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SOL-R-WALL

SPECIFICATION SHEET

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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 R 4.1 (3/4") R 5.1 (1.5")
FACILITY JMTC
TEST REPORT
R4.1 436-04591/436-05019
R5.1 436-05002/436-04637

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

CODES & COMPLIANCE

MEETS ASTM C 1224

- 2017, 2014, 2012 Florida Building Code (FBC)
- 2017, 2014, 2012 Florida Residential Code (FRC)
- 2017, 2014, 2012 Florida Energy Conservation Code (FECC)
- 2012 International Building Code (IBC)

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.