

## 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.

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.

## 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

- 2020, 2017, 2014, 2012 Florida Building Code (FBC)
- 2020, 2017, 2014, 2012 Florida Residential Code (FRC)
- 2020, 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.