



# FOIL FACED EPS



Star R Foam Sheathing is a high quality, expanded polystyrene foam insulation board with a poly—film laminate or aluminum facing that acts as the underlayment for new or retrofit siding. It combines the outstanding thermal performance of EPS with high reflective/low emissivity of the facing to reduce energy consumption of heating and cooling costs. In addition, the facers also enhance the weather protection of the wall.

## USES

- New and retrofit construction
- Masonry cavity wall insulation
- Interior insulation behind gypsum board
- Underlayment for all siding types
  - Insulation underlayment leveling board for re-siding
- Underlayment beneath roof shingles, over roof decks and in cathedral ceilings

## ADVANTAGES

- High moisture resistance
- Breathable
- Reduces Air Infiltration
- Energy Efficiency
- Easy Installation

## TESTING & PHYSICAL PROPERTIES

TEST	METHOD	TYPE I FOIL FACED
Density (Minimum) (lb/ft )	ASTM C303	0.93-0.95
Thermal Conductivity Factor (K) (Btu/hr/ft <sup>2</sup> /°F/in.) 75 °F	ASTM C518	0.260
Thermal Resistance (R) for 1-Inch Thick- ness at 75°F (ft <sup>2</sup> -hr-°F/Btu)	ASTM C518	3.86
Water Vapor Transmission (Perm. In)	ASTM E96	2.25
Water Resistance	AATCC Method 127	Pass*
Water Penetration	IBC 1403.2 Exception 2	Pass*
Weathering /UV Light Exposure	AC 71 Criteria	Pass 210 hours*
Weathering /Accelerated Aging	AC 71 Criteria	Pass*
Compressive Strength	ASTM C165	15 psi
Flexural Strength	ASTM C203	35 psi
Flame Spread**	ASTM E84	5
Smoke Development**	ASTM E84	55-90
Corner Room Burn*	UBC 26-3	For use in attics, roofs and crawl spaces as listed in ESR-1566

StarR Foam meets or exceeds the ASTM Standard C578 and the requirements of ICC ES

\*Non-perforated  
\*\*Properties based on EPS bead properties

# INSTALLATION

## INSTALLATION INSTRUCTIONS

### 1. General

- StarRFoam Foil sheathing is non-structural. Diagonal bracing (such as steel strapping) is required. Use code approved shear or corner bracing.
- Any exterior cladding must be attached through the foam and into the framing. Follow the cladding manufacturer's specifications for nail type and penetration depth.
- Thermal plastic insulation is combustible and should be protected from flame and other heat source. It should be applied according to the applicable building code, including the requirement for a 15 minute thermal barrier between itself and the interior of the building. Avoid contact with such heat sources as chimneys, heater vents and steam pipes.
- StarRFoam Foil sheathing is not a nailing base.

### 2. Window flashing

- Flash rough openings with peel and stick or as recommended by the cladding manufacturer.
- Set the nailing flange in silicone sealant and fasten to the framing per the window manufacturer.

### 3. Installation on Framing

- Fasten boards vertically with long joints in contact with one another and directly on a framing member over the exterior sides of the studs. The four foot width allows the ends to butt to each other at the studs.
- Face the Foil side out, in the same manner as conventional fiberboard.
- 24" o.c. framing required a horizontal brace at mid height to support the sheathing.

### 4. Fasteners

- 7/16" head roofing nails, 4" oc or 3/4" crown staples 8" o.c. using 50 lb pressure with staples (at least 1" longer than the thickness of the material.)
- Do not over-drive the fasteners

### 5. Installation of Exterior siding.

- Install the exterior cladding within a reasonable time.
- Follow siding manufacturer's specification for nail type and depth of penetration. Shingles or vertical siding should be nailed to previously attached horizontal furring strips.
- Shingle or Shake Siding: Install plywood furring strips over the insulation and into the framing and attach the in accordance with the manufacturer's installation.
- Cavity Wall and Masonry: Place StarRFoam Foil Sheathing between wall ties with long edges horizontal and ends and edges butted. Install against a back-up wall allowing 1/2" minimum air space.

- Storage: Store AP sheathing flat on pallets elevated above the floor or ground and standing water. If stored outdoors, keep dry by covering completely with a waterproof tarpaulin.

