

# TYPES OF ROOF INSULATION BOARDS

## Polyiso vs. XPS vs. EPS

### POLYISOCYANURATE

Polyiso is a closed-cell foam that is created by heating chemicals and synthetic materials into a composite material that cools into rigid-foam panels. Closed-cell foam indicates that all the cells are enclosed, not connecting with other cells or combined with air.

#### Cost

\$0.70 /sq ft.  
1 in. thickness

#### R-Value

5.5 to 8

#### Perm Rating

0.03

### EXTRUDED POLYSTYRENE

Usually defined by the blue, green or pink color, XPS falls in-between Polyiso and EPS in the range of price and performance. Extruded polystyrene consists of a blended polystyrene polymer heated and ran through an extrusion process.

#### Cost

\$0.42 /sq ft.  
1 in. thickness

#### R-Value

5

#### Perm Rating

1

### EXPANDED POLYSTYRENE

Expanded polystyrene consists of the polystyrene polymer impregnated with a foaming agent. The material expands when exposed to heat and is molded into a uniform, closed-cell insulating material.

#### Cost

\$0.26 /sq ft.  
1 in. thickness

#### R-Value

3.6 to 4.2

#### Perm Rating

5

For more information, visit [westroofingsystems.com](http://westroofingsystems.com)

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