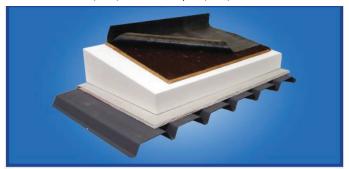


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EPS insulation can be installed quickly and easily, requiring limited labor.



Its light weight allows ease in handling and storage, and in hoisting the material onto the roof.



EPS insulation can be cut to shape with a knife or saw to assure a tight fit and eliminate heat loss channels.

## **Iowa EPS - Flat Sheet Insulation (FSI)**

#### **Product Description:**

Iowa EPS Flat Insulation is the most versatile insulation available and is engineered to provide long term stable R-Values. It 's unique production methods allow for custom thicknesses and custom R-Values providing maximum versatility in design. Iowa EPS (FSI) Flat Sheet Insulation is suitable for new construction and reroofing projects.

FSI is a sustainable choice for commercial roofing applications. FSI is 100% recyclable and new sheets are available either with or without recycled material. Compressive strengths are available between 10-60 psi with R-Values ranging from 4.1 - 4.9 per inch. It's ability to provide long term thermal value exceeds all other insulation types making it great choice for LEED projects.

#### **Advantages of Iowa EPS FSI:**

Customizable Thickness and R - Value

Economical (lowest cost insulation R-Value per dollar)

Available in several compressive strengths to meet project and budget needs

Shortest lead times and on time deliveries keeping your project on track

Multiple facer options – polyiso ShieldGuard, fire retardant slip sheet, OSB, etc.

### **Compatible with:**

**Fully Adhered roof systems** 

**Mechanically Attached roof systems** 

**Ballasted roof systems** 

May be used under TPO, PVC, and EPDM membranes

Sizes: .5-31" thick for custom thickness and R values

Available in either 4' x 4' or 4' x 8' panels

**Installation:** See Iowa EPS roofing installation document for all types roofing installation.



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# **Roofing Flat Sheet Insulation**

Property ( Types based on ASTM C578)	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV	Test Method
Density (pcf)	.9	1.15	1.35	1.8	2.4	2.8	ASTM C303
R-value - per inch (hr•ft2•°F)/BTU @ 25°F @ 40°F @ 75°F	4.3 4.1 3.8	4.5 4.2 4.0	4.8 4.5 4.2	5.0 4.8 4.3	5.0 4.8 4.4	5.1 4.9 4.5	ASTM C518 or ASTM C177
Compressive Strength (psi @ 10% deformation)	10	13	15	25	40	60	ASTM D1621
Flexural Strength (min. psi)	25	30	35	50	60	75	ASTM C203
Water Vapor Permeance (max. perm., per 1 inch)	5.0	3.5	3.5	2.5	2.5	2.5	ASTM E96
Water Absorption (max. % vol)	4.0	3.0	3.0	2.0	2.0	2.0	ASTM C272
Flame Spread	< 20	< 20	< 20	< 20	< 20	< 20	ASTM E84
Smoke Developed	< 450	< 450	< 450	< 450	< 450	< 450	ASTM E84