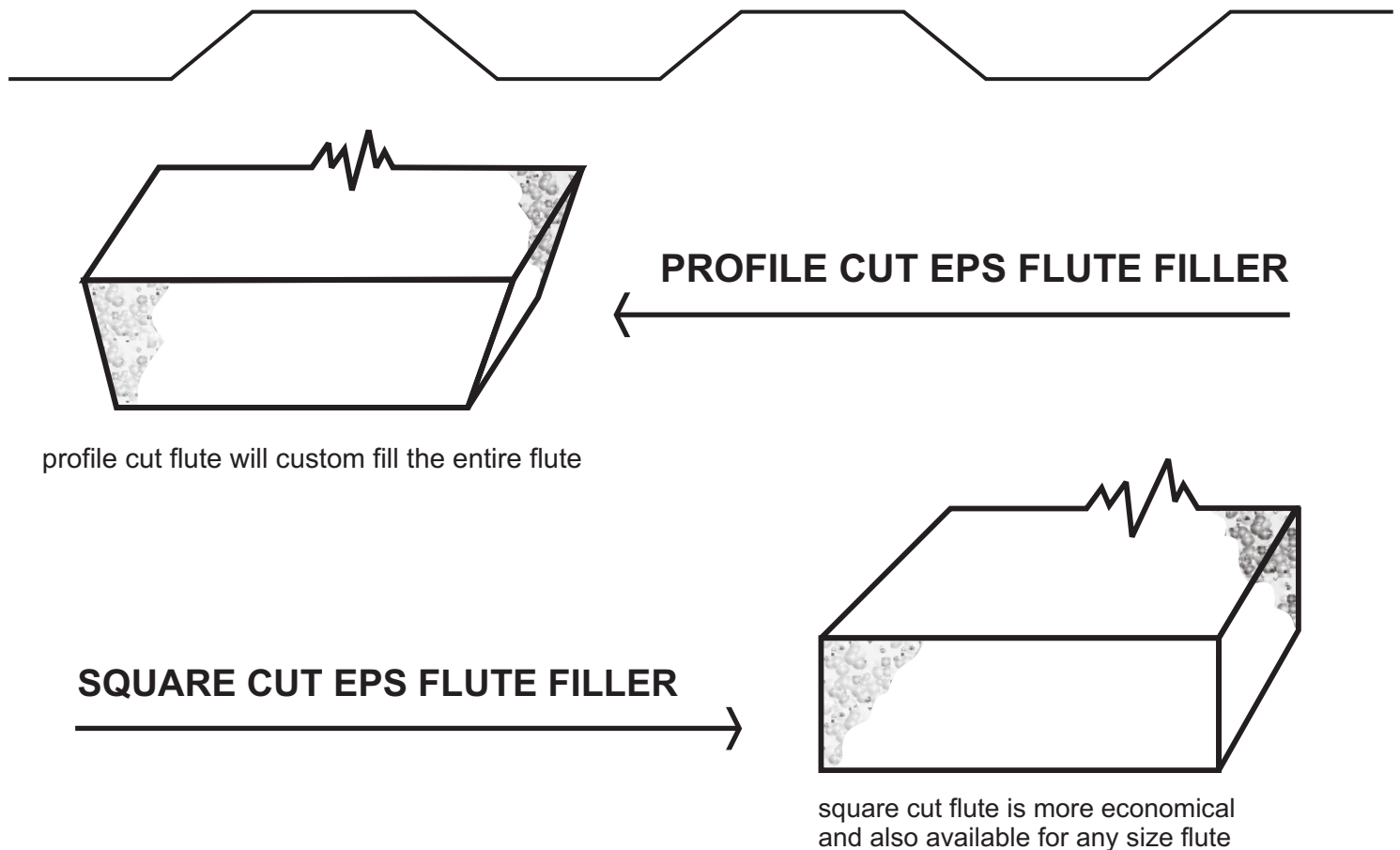


# **FMI-EPS FLUTE FILLER**



profile cut flute will custom fill the entire flute

square cut flute is more economical  
and also available for any size flute

**FMI-EPS Flute Filler** is a cost-effective, durable method to level your metal roof decks and stop energy loss. EPS Flute Filler insulation acts as a void filler and is designed to be installed over the existing metal roof. It provides a level and uniform insulated substrate that is installed prior to the new roof system.

#### **FMI- EPS Flute Filler Advantages:**

- + Increase the R-Value of the new roof assembly
- + NO Long-Term R-Value loss or Insulation Thermal Drift.
- + NO ozone depleting CFC's, HCFC's, HFC blowing agents, dyes or formaldehyde
- + Lightweight and high strength
- + Superior moisture resistance

#### **FMI-EPS Flute Filler Benefits:**

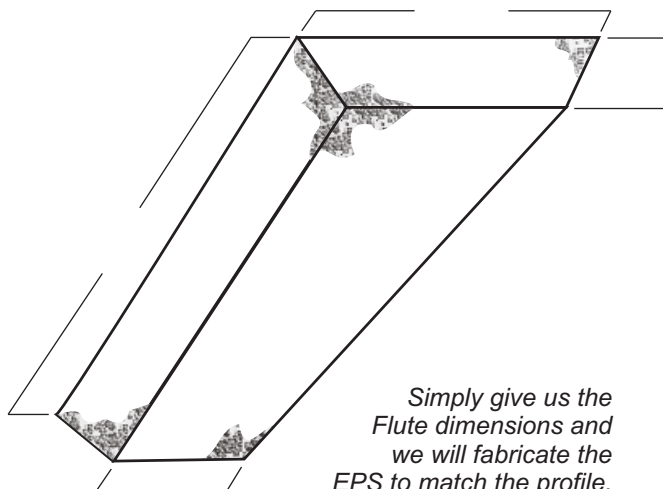
Increasing the effective thermal design at a cost-effective price is among the highest priorities in the construction industry. FMI-EPS Flute Filler insulation is available in a wide range of profiles, densities and thicknesses to provide energy efficiency, structural integrity at a cost-effective price. For over 35 years, EPS Insulation has a proven performance record, it lowers your energy costs and saves you money. EPS offers the **Best Insulating Value Per Dollar** than any material available today. You can pay more for other insulation products, but why?

## FMI-EPS Flute Filler Shapes and Sizes:

Profile Cut or Square Cut EPS Flute Filler is available to match the profile and depth of the metal flutes on your building. No Profile is too difficult to produce. If you can draw it, we can produce it. EPS Flute Filler Insulation is easy to install and will provide the necessary solid support under the new roof system. FMI-EPS Flute Filler insulation is an economical way to fill voids in profile or sloped roof decks and still provide superior insulation value to the project.

EPS (Expanded Polystyrene) Insulation is a moisture resistant closed cell foam insulation.

EPS offers outstanding flexibility in design and is ideal for most construction needs.



**Technical Data**      **EPS Flute Filler Insulation meets or exceeds physical and thermal property standards for ASTM C 578**

Physical Properties	Type I	Type VIII	Type II	Type IX	Type XIV
*R-Value per 1 inch 75 ± 2 F      F.ft <sup>2</sup> .h/Btu 40 ± 2 F	3.85 4.17	3.92 4.25	4.17 4.55	4.35 4.76	4.35 4.76
Compressive Strength at 10% psi	10.0	13.0	15.0	25.0	40.0
Coefficient of Thermal Expansion	0.000035	0.000035	0.000035	0.000035	0.000035
Moisture Resistance	<4.0	<3.0	<3.0	<2.0	<2.0
Water Vapor	5.0	3.5	3.5	2.5	2.5
Max. Service Temperature	167 / 180	167 / 180	167 / 180	167 / 180	167 / 180
Density nom./min.	0.90 / 1.00	1.15 / 1.25	1.35 / 1.50	1.80 / 2.00	2.40 / 2.40

\*R means resistance to heat flow. The higher the R-value, the greater the insulating power.

Federal Trade Commission requires using the R-Value publication at 75°F temperature when calculating R-Values of all insulations. Aged R-Values of alternative products should be compared to determine long-term benefit. Some types of insulation lose their R-Value over time.

FMI-EPS has a flame spread index of 20 and a smoke developed index of 150-300 when tested in accordance with ASTM E84/UL 723 for densities from 0.7 - 2.0 lb/ft<sup>3</sup>.

### Insulation Consideration:

- **DO NOT COMPARE** polyisocyanurate conditioned R-Values by RIC-TIMA and PIMA to EPS R-Values as per ASTM C-578.
- Ask for a **20 year 100% R-Value Warranty**.
- EPS Insulation offers the **Best Insulating Value Per Dollar** than any material available today.

### Features:

- **Low Moisture Absorption:** EPS' moisture absorption is low. Moisture takes the path of least resistance and travels around individual beads rather than through them; the non-interconnecting cell structure prevents capillary absorption. Moisture absorption rates decrease as density increase, but is still minimal.
- **Permeability:** EPS has a low permeability, but is not considered a vapor barrier.
- **Inert:** EPS experiences no physical or chemical breakdowns over time. No nutrient value to animals, insects, organisms. No nutrient value to bacterial growth including mold.
- **No Leachates:** EPS will not contaminate the surrounding environment.
- **Design Flexibility:** EPS can be fabricated into various shapes and sizes as needed.

### Design Cautions:

- **Flammability:** EPS is combustible and should not be exposed to flame or other ignition sources. EPS should be covered with a thermal barrier or otherwise installed in accordance with applicable code requirements.
- **Solvent Damage:** EPS is susceptible to damage by petroleum based solvents and their vapors. Protect with vapor barrier covering and or use compatible adhesives when applicable.
- **Ultraviolet Damage:** Extended exposure to sunlight causes minor discoloration and surface dusting. Shield EPS from direct sunlight for prolonged periods of time.



The information in this bulletin is presented in good faith, and is believed to be accurate. All statements are made without warranty expressed or implied.

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