

DURO-FAST[™] ROLLED FLUTE FILL

Description:

Duro-Fast[™] Rolled Flute Fill is used as a flute filler within R-Panel metal retrofit roof systems. Comprised of 24 individual flute fill panels held together with a 2.5 mil resin-and-polyester film, the Rolled Flute Fill can be rolled out to quickly cover a large area.

Rolled Flute Fill is a premium insulation consisting of a closed-cell, lightweight and resilient expanded polystyrene (EPS). It meets or exceeds the requirements of ASTM C 578, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*.

- Available in Type I, 1.0 pcf (16 kg/m³) density. Higher densities may be ordered.
- Provides long-term thermal insulation value.
- Does not contain CFCs or HCFCs.
- Moisture resistant.
- 100% recyclable.
- Refer to Table 1 for physical properties.

Recommended Uses:

- Flute filler **only** within R-Panel metal retrofit roof systems.

Roll Dimensions and weight:

- Full roll: 4 x 24 feet (1.2 x 7.3 m).
- 24 individual panels : 1.25 x 8.75 x 48 inches (31.8 x 222.3 x 1,219.2 mm) spaced at 12-inch (305 mm) intervals.
- 96 square-foot (8.9 m²) coverage.
- 7.3 pounds (3.3 kg) per roll.

Storage:

- Rolled Flute Fill must be protected from open flame and kept dry at all times.
- Store elevated (at least 3 inches(76 mm)) and completely covered with a weatherproof covering such as a tarpaulin.
- Do not use Rolled Flute Fill which is wet or damaged.

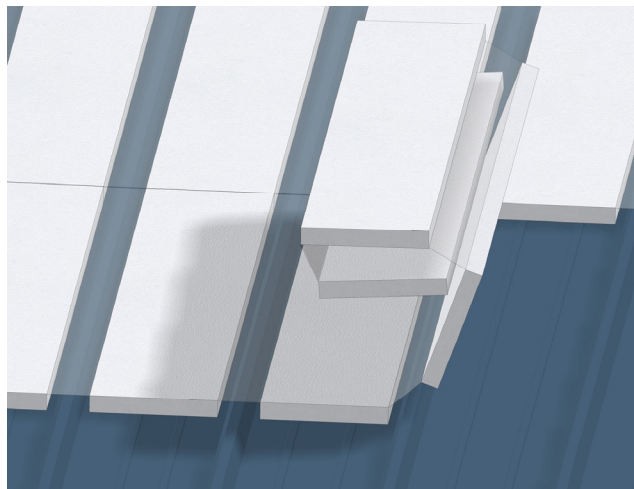
Limitations:

- Duro-Last will not be responsible or liable for any defects or problems related to building or roof design by others, to deficiencies in construction, to dangerous conditions on the job site, or to improper storage, handling or installation by others.

Panel Attachment:

Mechanically Fastened

- Fasten the Rolled Flute Fill with enough approved Duro-Last fasteners and plates as necessary to hold in place until it is covered with an approved rigid board insulation or cover board.



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Installation:

- Refer to Detail Drawing 8005 for rigid board insulation and cover board requirements above the Rolled Flute Fill.
 - Any product used above the Rolled Flute Fill must have a spanability rating of no less than 1-1/4 inches.
- Rolled Flute Fill must be kept dry before, during and after installation. Install only as much flute filler as can be covered the same day with completed roofing.
- Abut Rolled Flute Fill edges together.

TABLE 1. TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Type I
Density (nominal)	ASTM C 303	1.00 pcf (16 kg/m ³)
R-Value (per inch) @25 °F @40 °F @75 °F	ASTM C 518 or C 177	4.35 4.17 3.85
Compressive Strength (10% deformation)	ASTM D 1621	10 psi (68,948 Pa)
Flexural Strength	ASTM C 203	25 psi (172,369 Pa)
Dimensional Stability	ASTM D 2126	≤ 2.0%
Water Vapor Permeance (at 1 inch thick)	ASTM E 96	5.0 perm
Water Absorption	ASTM C 272	3.0%
Flame Spread	ASTM E 84	< 20
Smoke Developed	ASTM E 84	150 - 300