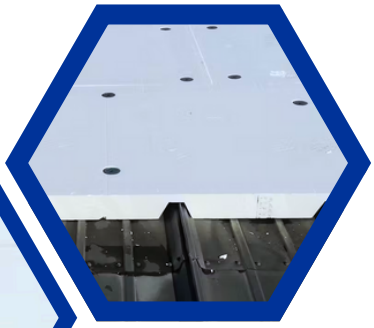
CELLOFOAM®
Building Insulation Products

Laminated Flute-Filled Combo Board

Single Layer System Combines EPS Flute Fill & Laminated Coverboard



APPLICATIONS

- Used in mechanically attached and metal retrofit projects
- May be part of Class A fire rated roof assembly

WHY FLUTE-FILLED COMBO BOARD?

- Cut to fit nearly any metal deck or steel roof profile
- Provides additional insulation above the flutes, allowing a direct overlay of roofing membranes
- Combines the flute fill, insulation, and the cover board or slip sheet to save installation time and labor costs
- Negates the need for a separate, expensive, and heavy coverboard or an FR slip sheet
- Dimensional stability
- Moisture resistant
- EPS contains no formaldehyde or ozone-depleting CFCs or HCFCs

Sizes

- Available in 4 x 8 ft boards up to 6 in. thick
- Minimum thickness above the rib of 1 in.
- Density: 1.0, 1.25, 1.5, and 2.0 lb/ft3

CODE APPROVALS

- Meets or exceeds ASTM C578
- Underwriters Laboratory Listed, UL ER7260
- UL classified TGFU.R7260 for fully adhered ballasted, and mechanically attached roofing assemblies

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FLUTE-FILLED COMBO BOARD FACER OPTIONS

- Fire Rated Composite (FR) - enhances the overall fire performance of many conventional commercial roof systems. RhinoBond friendly. Minimum thickness above rib - 1.0" PE 1.5"
- Polyester (TSU) - allows direct application of PVC roofing membranes

EPS TYPICAL PHYSICAL PROPERTIES

Cellofoam® EPS Typical 1 Physical Properties		Units	ASTM Test	ASTM C578 Type			
				Type I	Type VIII	Type II	Type IX
Density (Nominal)		lb/f³	C303 or D1622	1.0	1.25	1.5	2.0
Density (Minimum)		lb/f³		0.90	1.15	1.35	1.80
Thermal Resistance							
R-Value²	**at 25 °F**	(°F ft² hr) / Btu per inch	C177 or C518	4.35	4.54	4.76	5.00
	at 40 °F			4.17	4.25	4.55	4.76
	at 75 °F			3.85	3.92	4.17	4.35
Compressive Strength at 10% deformation		psi	D1621	10 - 14	13 - 18	15 - 21	25 - 33
Flexural Strength		psi	C203	25 - 30	30 - 38	40 - 50	50 - 75
Water Vapor Permeance 1.0 in. thickness		perm.	E96	2.0 - 3.0	1.5 - 2.8	0.9 - 2.5	0.6 - 1.5
Water Absorption by total immersion		volume %	C272 or C1763	< 1.5	< 1.5	< 1.5	< 1.5
Capillarity		--	--	none	none	none	none
Dimensional Stability maximum		change %	D2126	< 0.5	< 0.5	< 0.5	< 0.5
Coefficient of Thermal Expansion		in/(in °F)	D696	0.000035	0.000035	0.000035	0.000035
Fungus & Bacterial Resistance		-	C1338	Will not support bacterial or fungus growth; no food value			

1 Typical physical properties are based on data provided by resin manufacturer, independent test agencies, and Cellofoam North America Inc. All data is for plain, unlaminated EPS foam.
2 R means resistance to heat flow. The higher the R value, the greater the insulating power.

*Please consult local building codes and membrane manufacturers for system requirements.

Warning: This product is combustible and if exposed to a fire of sufficient heat and intensity may burn rapidly. It should not be left exposed or inadequately protected. Protect Cellofoam® expanded polystyrene from exposure to hydrocarbons, coal tar pitch, solvents, and solvent fumes. Consult specific instructions and applicable building codes for use of this product.