



Description

InsulFoam GDL (Garage Door Laminate) is an advanced door insulation consisting of a superior expanded polystyrene (EPS) surfaced with a high-performance, impact-resistant laminate to meet your specifications. Insulfoam utilizes a proprietary high-heat-release adhesive to guard against quality issues. InsulFoam GDL is an ideal component for the insulated garage door industry. The foam core meets or exceeds the requirements of ASTM C578, Type I, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*. InsulFoam GDL has excellent dimensional stability, compressive strength and long-term thermal properties, all of which are further enhanced by the integral laminated facer. InsulFoam GDL utilizes InsulFoam I with a nominal density of 1.0 lb/ft³.

Uses

InsulFoam GDL is used in garage door applications where quality insulation with an exposed back is required. The product can be kerfed, grooved and routed for easy installation.

Advantages

- **Custom Silhouettes.** InsulFoam GDL comes in virtually any dimension and shape to accommodate your garage door needs and is available with various face-laminates including high-impact polystyrene (HIPS) and bleached liner board (BLB).
- **Smooth Finish.** InsulFoam GDL can be sanded prior to lamination to provide a smoother surface.
- **High, Long-Term R-Value.** The thermal properties of InsulFoam GDL are very stable and the R-value will not deteriorate over time. Designers are well served knowing the product's thermal properties will remain stable over the life of the door.
- **Reduce Heating and Cooling Costs.** Incorporating InsulFoam GDL into the design of garage doors will reduce heat loss or gain through the door assembly.
- **Proven Performance.** Insulfoam has produced insulation panels for the garage door industry in excess of 20 years.
- **Water Resistant.** The EPS and laminate will not readily absorb moisture from the environment.
- **Environmentally Friendly.** InsulFoam GDL contains no formaldehyde or ozone-depleting CFC's or HCFC's, may contain recycled material and the foam core is 100% recyclable.

Sizes

InsulFoam GDL is available in custom sizes to accommodate your garage door needs.



Typical Tested Physical Properties of InsulFoam I*

Property	Test Method	Value
Density (nom. pcf)	ASTM C303	1.00
C-Value (Conductance) - per inch BTU/(hr•ft ² •°F)	ASTM C518 or ASTM C177	@ 25 °F
		@ 40 °F
		@ 75 °F
R-Value (Resistance) - per inch (hr•ft ² •°F)/BTU	ASTM C518 or ASTM C177	@ 25 °F
		@ 40 °F
		@ 75 °F
Compressive Strength (psi, 10% deformation)	ASTM D161	10-14
Flexural Strength (psi)	ASTM C203	25-30
Dimensional Stability (maximum %)	ASTM D2126	< 2.0
Water Vapor Transmission (perm. In)	ASTM E96	2.0-5.0
Absorption (% vol.)	ASTM C272	< 4.0
Capillarity	–	none
Flame Spread	–	< 20
Smoke Developed		150-300

*Properties are based on data provided by resin manufacturers, independent test agencies and Insulfoam.

Note: Unless specifically approved by the door manufacturer, substitutions in glue type and EPS density are not allowed nor should the substitutions be considered an equal to InsulFoam GDL.