

Product Specifications

Krinklglas® panels are easily installed using any standard or custom framing or mounting if allowance is made for expansion and contraction of the panel and the variation of thickness due to the textured panel surfaces.

A clearance of 0.015" per foot on all dimensions is recommended, which amounts to less than 3/16" in a 10' panel length. Minimum clearance should be 1/8".

For larger area installations, bowing or sheet deflection must be taken into account, especially for outdoor installations where the panel has to withstand wind forces.

The edge engagement or enlargement around the perimeter of the panels must be a minimum of 3/8" for spans under 24"; above this size, the edge engagement must be proportionately increased until a 1" stop is to be used in connection with a 4' x 10' length for exterior applications.

The two prism-like multi-faceted or textured Krinklglas surfaces provide the unique light dispersion effect, but also create up to 20% variations in the actual panel thickness in some areas. This thickness variation should be considered when inserting panels into frames, extrusions, etc.

No special glazing procedures, framing, extrusions, tape or mastic are needed with Krinklglas. Any quality, construction grade silicone sealant may be used to provide for any expansion or contraction without fear of leakage. Certain neoprene or similar gasketing can also be utilized.

Krinklglas can be cut, drilled and worked with common carpentry tools. Its fiberglass reinforcement prevents any shattering or breaking. Panels can be cut on the job site by hand, utilizing a circular, band or saber saw. For best results, use a carbide tipped or carborundum blade or any fine-toothed blade suitable for cutting metal. For bolted or floating assemblies, use a flexible strip around both sides of the inserted panel. The boltholes must be drilled with an outside diameter (O.D.) slightly larger than the O.D. of the screw or bolt thread to be used. Use a flexible neoprene type gasketing washer with the screw or bolt to provide a solid fit and to avoid stresses when the bolts or screws are tightened. Bolts or screws should be tightened only enough to prevent leakage, and must not be torqued or over-tightened.

Lab Technical Data (based on 1/8" thickness)

- Insulation Value - has a coefficient of heat transmission (U-factor) of 1.00 BTU/hr/sq. ft./in. (roughly equivalent to glass)
- Shatterproof - complies with Break Safe Characteristics of ANS Z97.1
- Tensile Strength (ASTM D-638) - 8,740
- Flexural Strength (ASTM D-790) - 17,800
- Flexural Modulus (ASTM D-790) - 721,000
- Compressive Strength (ASTM D-695) - 18,600
- Static Load (applied pressure 20"/min) - 480 lbs/sf
- General Flammability (D-635) - 0.80 in/min SPECIAL (D-635) – self extinguishing
- Dimensional Stability - -40° +266° F
- Hardness-Barcol - 40-45

- Thermal Expansion - 1.1×10^{-5} F
- Water Absorption - 0.08%
- Weight Per square foot – 14.3 oz.
- Eights - 1/8" - 0.9 lbs/sf; 3/16" - 1.35 lbs/sf; 1/4" - 1.85 lbs/sf