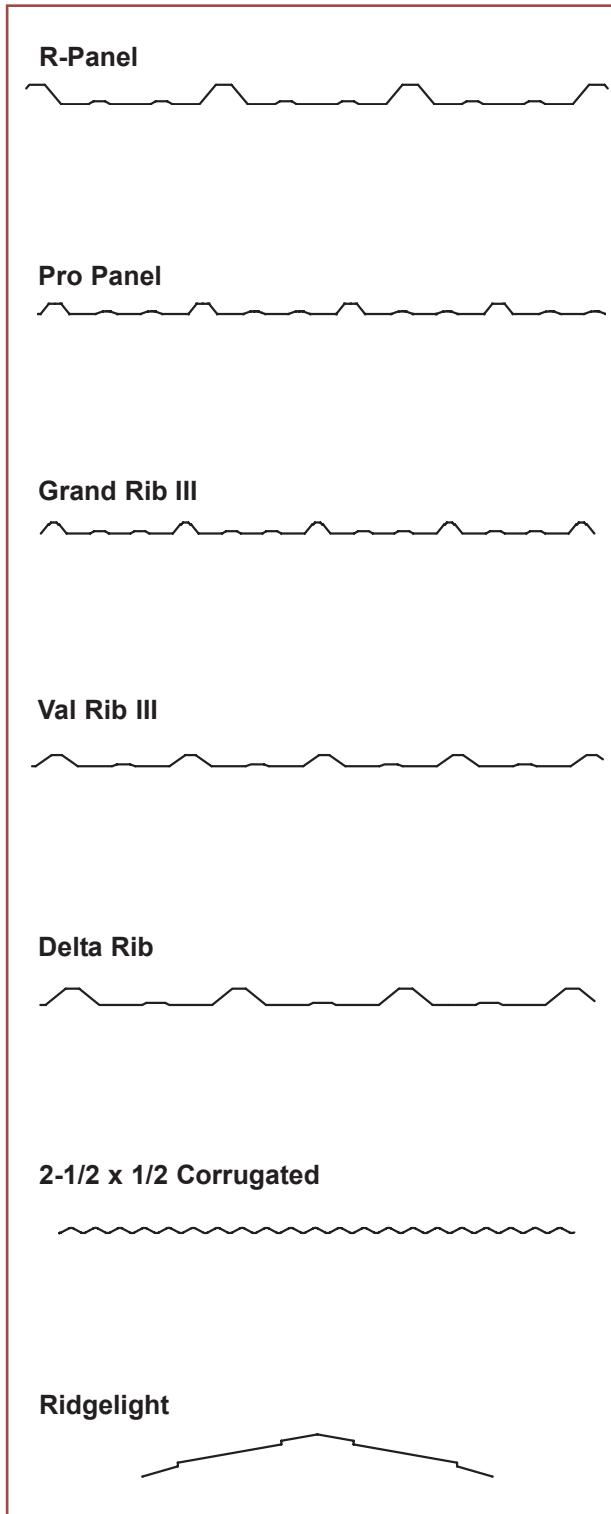


FRP Metal Building Daylighting Systems

HIGH PERFORMANCE FRP, TRANSLUCENT ROOF AND WALL PANELS



Daylighting Systems frp panels are manufactured by Kemlite Company, Inc. whose expertise in the fiberglass composite panel industry is over 50 years strong. We pride ourselves on the extensive range of profiles, surfaces and formulations that we offer.

You can count on Lascolite® and Sequentia Everlite® frp panels to let natural daylight and passive solar heat IN, reducing your energy costs, while keeping the weather OUT.

Lascolite and Sequentia Everlite frp panels are easy to install, formulated for high strength, and resistant to heat, cracking, crazing and harsh chemicals. Ultraviolet screening agents are also added for long lasting translucency through years of trouble free performance.

CHOOSE THE DAYLIGHTING SYSTEMS FRP PANEL THAT FITS YOUR NEEDS

CHOICE OF SURFACES

Daylighting Systems frp panels can be manufactured in over 500 different profiles, a wide range of colors, and various surface finishes. We offer a smooth finish for easy cleaning and a pebbled surface for glare reduction, increased weather resistance and a pleasing effect.

CHOICE OF PERFORMANCE

Daylighting Systems frp panels are formulated from specially designed raw materials in a continuous process that assures constant quality and predictable engineering properties. The polyester resins in our panels are specially formulated to resist cracking, crazing, and other effects of weather and environment. Properly installed and maintained, fiberglass reinforced plastic panels will retain their translucency through years of service, backed by a 10 year commercial limited warranty.

Standard panels are produced with general purpose resin and contain UV stabilizers to protect the panels from the harmful rays of the sun, providing years of dependable service for the metal building industry. This panel formulation provides the foundation for our other panels that are specially designed to provide enhanced performance to meet your specific needs.

Acrylic Modified panels contain an acrylic monomer to enhance weatherability in applications involving exposure to sunlight, assuring clarity. Panels are available in all standard corrugations, widths and colors.

Fire Rated panels are produced with a fire-rated formula that contains specially modified resins and other additives to reduce the spread and intensity of flames. See fire resistance comparison chart. Due to the nature of the formulation, the fire-rated panel will tend to display different weathering and UV performance than a non fire-rated panel.

Gel Coat panels are made with a thick, flexible gel coating chemically bonded to the surface to protect the panels and increase their weather resistance and service life.

High-Strength panels have over 800% greater tear resistance than ordinary translucent frp panels. These panels contain a woven cloth fiberglass reinforcement that protects tears from developing into a body-sized hole, keeping the unwary worker safe from possible fall through and injury. Available in all panel profiles and formulations.

COLOR AND LIGHT TRANSMISSION

Daylighting Systems frp panels can be formulated in a number of custom colors and light transmission variations to satisfy your special requirements. Opaque panels are also available.

	Light Transmittance	Solar Energy Transmittance
Clear, 5 oz	90%	81%
Skylight Green, 8 oz	89%	74%
Frost, 8 oz	85%	60%
Green, 8 oz	74%	64%
Orchid White, 4 oz	83%	54%
Snowflake, 8 oz	64%	24%
Solar White, 5 oz	50%	21%

-Colors shown are the most widely used in translucent applications
 -Percentages of transmission shown are nominal values with a tolerance of + or -5%
 -Methods of test: Light transmittance per ASTM D1494
 Solar energy transmittance per ASTM E424

STORAGE/MAINTENANCE

Store panels properly: While a single panel easily withstands exposure to sunlight and the elements, a stack of panels will trap heat and moisture, causing internal clouding in the panels. To avoid this irreversible effect, panels must be stored in a dry, shaded, well ventilated area. Preferably, store on end or on edge. Skids should be elevated at one end by wood spacers. Failure to comply with recommended storage procedures will void the warranty on the panels. Request technical bulletins on storage (Form 2654) and maintenance (Form 2655).

SAFETY

DO NOT WALK ON PANELS. Daylighting Systems frp panels are not intended to support the undistributed weight of workers. Roofing ladders or 1"x 12" planks, or equivalent means of protection must be used during any work on roofs. Provide fall protection in accordance with OSHA standard 29 CFR 1910 [see paragraph 1910.23(a)(4) and (e)(8)]. Compliance with this regulation as well as any other local, state or federal safety requirements is the responsibility of the building owner, contractor and/or erector.

FIRE RESISTANT COMPARISONS

References to flammability of Daylighting Systems frp panels reflect laboratory tests which compare burning characteristics of building products. These references do not imply that the panels will not burn. Flash temperatures as low as 650°F (343°F) can ignite them. All fiberglass panels will burn under proper conditions and certainly in a full scale fire. Once ignited, they may burn rapidly, releasing dense smoke. For appropriate precautions, request "Fire Safety Guidelines for Use of FRP Panels", Society of the Plastics Industry.

TRANSLUCENT PANEL PRODUCT	NOMINAL WEIGHT	IGNITION D1929		FLAME D635	RATION PER E-84		CLASSIFICATION PER STANDARD UBC & D3841
		FLASH	SELF		FLAME SPREAD	SMOKE	
Standard, Acrylic Modified	4 - 12 oz/ft ²	>650°F	>900°F	<2.5 in/min	—	<450	Type CC2
FR25 Fire Resistant	6 - 8 oz/ft ²	>650°F	>900°F	ATB <5 sec AEB <0.5 in	25 (UL Listed)	<450	Type CC1
FR25 Fire Resistant	12 oz/ft ²	>650°F	>900°F	ATB <5 sec AEB <0.5 in	25 (UL Listed)	>450	Type CC1

ATB - Average Time of Burning; AEB - Average Extent of Burning

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