CRANE Composites

LIGHT TRANSMITTING ASSEMBLED PANEL

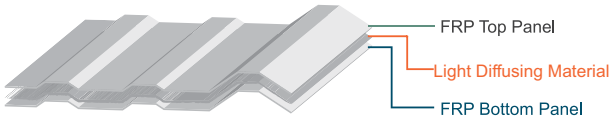
2714 technical data

REV. 4 | 02.17

Skylight/Roofing Panel

BENEFITS OF ASSEMBLED PANEL

- Help control condensation drip in high thermal applications
- High light transmission
- Easy to Install



PANEL COMPONENTS

EXTERIOR SKIN
Standard 8 oz weight, light transmitting fiberglass roof panel, available in multiple profiles.

FIBERGLASS MATTE LAYER
Helps reduce conductive heat loss.

INTERIOR SKIN
Lightweight 4 oz fiberglass panel remains free of dripping condensation under normal conditions.

POSITIVE SEALING
High quality silicone sealant prevents air leakage and separation.

SIMPLE INSTALLATION
Panels match many metal roofing shapes for easy nesting and caulking. No kid-glove handling, no special shipping or mounting procedures, no complex fastening technique as custom fittings aren't required.

PHYSICAL CHARACTERISTICS

SPECIFICATIONS
Data is derived from testing per ASTM C1363 under controlled laboratory conditions. Values describe comparative properties of products tested and do not necessarily indicate behavior in actual installations. Local wind conditions, for example, may materially affect "U" factors.

HEAT LOSS REDUCTION
Light transmitting assembled panels with fiberglass layer were compared with fiberglass panels with no layer by an independent testing laboratory, using a thermal test chamber.

THERMAL PROPERTIES

	LIGHT TRANSMITTING ASSEMBLED PANEL	SINGLE EXTERIOR SKIN
U-VALUE (BTU/ft²hr°F)	0.74	1.13
R-VALUE (ft²hr°F/BTU)	1.37	0.89

LIGHT TRANSMISSION
Assembled panels reduce electricity demand and costs by converting sunlight into soft, diffused illumination without harsh shadow areas. The degree of light transmittance depends on the color combinations selected:

LIGHT TRANSMITTANCE (ASTM - D1494)		
EXTERIOR PANEL COLOR	INTERIOR PANEL COLOR	LIGHT TRANSMITTANCE
Crystal Clear | 501	Crystal Clear	60%
Sky Green | 201	Crystal Clear	57%
	Sky Green	50%
Snowflake | 405	Crystal Clear	52%
	Snowflake	32%

LIGHT TRANSMITTING ASSEMBLED PANEL

EASY INSTALLATION

The light transmitting assembled panels match most metal roofing and siding sheets. They're installed in the planes of the roof or walls. No special installation fittings or techniques are required. However, due to the greater thickness of the panel, longer fasteners must be used.

FABRICATING RECOMMENDATIONS

Prior to working with our products, see our most current SDS at cranecomposites.com/sds.html

STORAGE RECOMMENDATIONS

Store panels properly. While a single panel is engineered to withstand exposure to sunlight and the elements, a stack of panels will trap heat and moisture, causing internal clouding and/or yellowing in the panels. To avoid this irreversible effect, panels must be stored in a dry, shaded, well ventilated area. Skids should be elevated at one end by wood spacers. Failure to comply with recommended storage procedures will void the warranty on the panels.

CAUTIONS AND SAFETY WARNINGS

DO NOT WALK ON PANELS. Crane Composites 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.

MAINTENANCE

Panels will provide a clean, aesthetically-pleasing finished installation. However, by nature, fiberglass reinforced plastic paneling may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation. If any portion of material does not provide an acceptable appearance, Crane Composites should be notified at once. Upon verification of unacceptability, that portion of material will be replaced by Crane Composites. Crane Composites' sole responsibility is for the replacement of defective materials but not for labor or other handling or installation expenses.

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CRANE Composites

A global leading provider of resilient wall and ceiling coverings. Kemlite® was established in 1954 and the company changed names to Crane Composites in 2007. Crane Composites is headquartered in Channahon, IL and all our products are manufactured in the United States. We work with hundreds of distributors, ensuring our products are easily accessible and readily available to our customers.

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