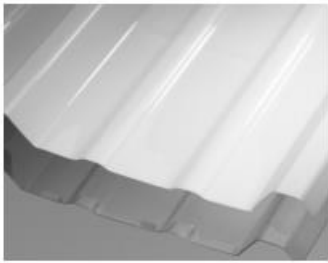
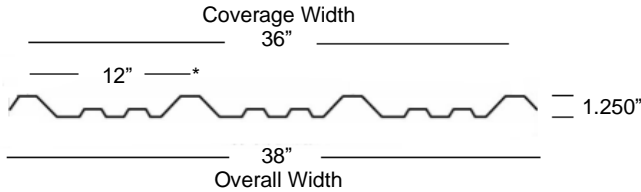



# SKYLIGHT PANEL PROPERTIES

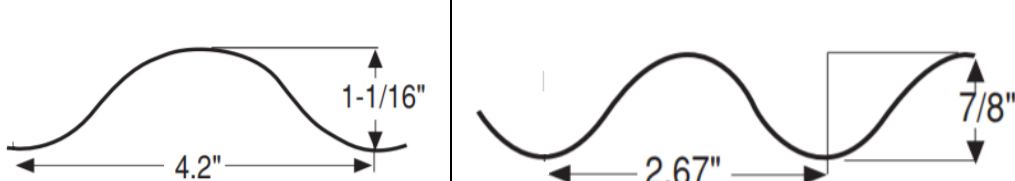
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Material	Thickness (inches)	Weight oz/ft <sup>2</sup>	Tensile Strength (psi) (Thousands)	Flexural Modulus (psi) (Thousands)	Flexural Strength (psi) (Thousands)	Impact Strength	Elongation	% Light Trans. (Clear)	% Light Trans. (White / Opal)	% Light Trans.	Deflection Temperature	Thermal Conductivity	Coefficient of Expansions	Solar Heat Gain Coefficient (Clear / White)	U-Factor (W/m <sup>2</sup> °C)	Volume Resistivity	Dielectric Strength	Dielectric Constant	Flame Spread
Polycarbonate	0.060	7	95	400	12.5	17 ft lb/in	75%	90	45	85 (Soft White)	270 F	4.2 x 104 cal/sec/cm2 (°C/cm)	3.9 x 10 <sup>5</sup> in/in F°	.85 / .35	5.11	1016 Ohm-cm (50% RH+23 ° C)	500-600 volts/mil	3.6 Khz	6
FRP	0.060	8	10	1100	25	9 ft lb/in		94	65	85 (Light Green)			2.09 x 10 <sup>5</sup> in/in F°	.83	0.14 K Factor		483 volts/mil		25

## PROFILES

<b>R-PANEL</b>		 <p>*also available in 10" on center</p>	<b>Color</b>	Poly	Clear	White / Opal	Soft White	
			FRP	Trans Clear		Trans White		
			<b>Length</b>	Up to 40' Long				
			<b>Width</b>	38" Wide				
			There is another panel very similar to this profile but has a rib on top of a rib and they're 9" on center.					

<b>U-PANEL</b>	 <p>only available in 0.30" thickness &amp; many more colors</p>	<b>Color (7.2)</b>	White	Clear	Solar Control
		<b>Length</b>	7.2" / Up to 38'		3" / Up to 24'
		<b>Width</b>	7.2" / 47 7/8"		3" / 26" or 49.6"

<b>Corrugated</b>	 <p>Only available in green</p>	<b>Color</b>	White	Clear	Solar Control	Green
		<b>Length</b>	Up to 38' Long			
		<b>Width</b>	4.2" / 42"		2.67" / 40"	

There is one more panel that is not very common, but it resembles an R-Panel, but has another "rib" or bump on top of the main ribs. The smaller ribs on the R-Panel are 1/4" tall.

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## POLYCARBONATE PANEL CHEMICAL RESISTANCE

If you cannot find your chemical on this list—please contact us directly. 800.390.2301 Polycarbonate panels are not usually recommended for use with acetone, ketones, ethers and aromatic and chlorinated hydrocarbons. The information is based on the panel manufacturers research and experience.

R – Resistant			LR—Limited Resistance		N—Not Resistant	
Chemical	Concentration %	Resistance	Chemical	Concentration %	Resistance	
Acetic Acid	10	R	Ozone	-	R	
Aluminum Chloride	Saturated	R	Perchloric Acid	10 (Concentrate)	R (LR)	
Aluminum Sulfate	Saturated	R	Phosphoric Acid	10	R	
Ammonia (Gas)	--	N	Phosphorous Pentoxide	25	R	
Ammonium Chloride	--	R	Phosphorous Trichloride	--	N	
Ammonium Fluoride	--	N	Potassium Bichromate	--	R	
Ammonium Hydroxide	--	N	Potassium Bromate	--	R	
Ammonium Nitrate	--	R	Potassium Bromide	--	R	
Ammonium Sulfate	Saturated	R	Potassium Chloride	Saturated	R	
Ammonium Sulfide	--	N	Potassium Cyanide	--	N	
Antimony Trichloride	Saturated	R	Potassium Dichromate	Saturated	R	
Aqua Regia (3 part HCl 1 part HNO <sup>3</sup> )	--	LR	Potassium Hydroxide	--	N	
Arsenic Acid	20	R	Potassium Metabisulfite	4	R	
Barium Chloride	--	R	Potassium Nitrate	Saturated	R	
Boric Acid	--	R	Potassium Perchlorate	10	R	
Bromine	--	N	Potassium Permanganate	10	R	
Calcium Chloride	Saturated	R	Potassium Persulfate	10	R	
Calcium Hypochlorite	--	R	Potassium Rhodanide	Saturated	R	
Calcium Nitrate	--	R	Potassium Sulfate	Saturated	R	
Carbon Bisulfite	--	R	Silver Nitrate	--	R	
Carbon Tetrachloride	--	N	Sodium Bicarbonate	Saturated	R	
Chlorine Gas (Dry)	--	R	Sodium Bisulfate	Saturated	R	
Chlorine Gas (Wet)	--	N	Sodium Bisulfite	Saturated	R	
Chromic Acid	20	R	Sodium Carbonate	Saturated	R	
Copper Sulfate	Saturated	R	Sodium Chlorate	--	R	
Ferric Chloride	Saturated	R	Sodium Chloride	Saturated	R	
Ferrous Sulfate	--	R	Sodium Chromate	--	R	
Hydrochloric Acid	20 (Concentrated)	R (N)	Sodium Hydroxide	--	N	
Hydrofluoric Acid	20	R	Sodium Hypochlorite	5% Chlorine	R	
Hydrogen Peroxide	30	R	Sodium Nitrate	--	R	
Hydrogen Sulfide	--	R	Sodium Sulfate	Saturated	R	
Iodine (aqueous solution)	5	R	Sodium Sulfide	Saturated	LR	
Iodine	--	N	Stannous Chloride	--	R	
Magnesium Chloride	Saturated	R	Sulfuric Acid (Gas)	--	R	
Magnesium Sulfate	Saturated	R	Sulfuric Acid	<50 (50<70)	R (LR)	
Nickel Sulfate	--	R	Trisodium Phosphate	--	R	
Nitric Acid	20	R	Zinc Chloride	--	R	
Nitrous Oxide	--	R	Zinc Sulfate	-	R	

**Polycarbonate Panels** as sold by LBK Skylight Manufacturing will be 0.060" thick polycarbonate for roof applications. This is double the industry standard of 0.030". Although 0.030" may be useful as windows or vertical glazing—for roof applications, we prefer the thicker panels. They are UV resistant which will enable them to not only block UV but retain their color and clarity over a longer period of time—will not discolor or turn brittle. They are corrosion resistant and offer an exact match to similar profile metal panels. The panels also have a CC1 rating which coincides with their Flame Spread Rating of 6. They are virtually unbreakable and are solid piece of polycarbonate which will keep them from peeling, denting or losing structural integrity.

**Fiberglass Reinforced Plastic Panels** as sold by LBK Skylight Manufacturing will be 0.060" thick. FRP panels diffuse and distribute light evenly. They are highly durable and can last twenty years or longer. As with polycarbonate panels—they are available in many profiles to fit with the corresponding metal profile. They are highly resistant to mild acids, alkalis, and most common solvents. This product conforms to ASTM D-3841-97 - Standard Specification for Glass Fiber Reinforced Plastic Panels.