

SKY-BRITE (patented)
‘WINDOWS TO THE SKY’

SKY-BRITE is a design that encompasses the essentials of light transmitting panels for metal building construction.

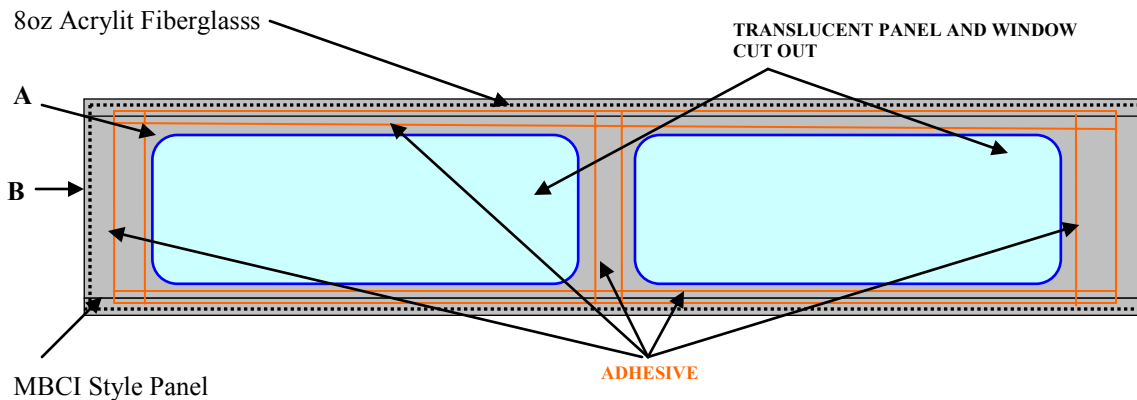
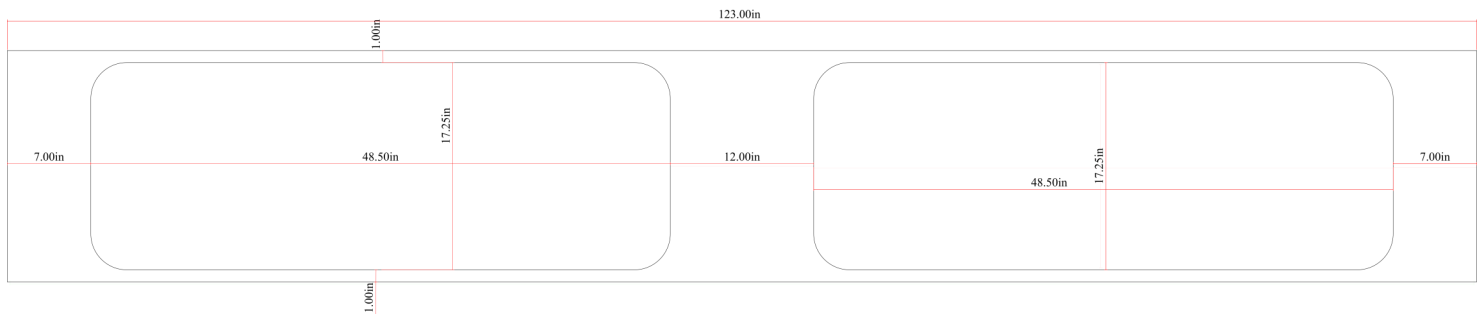
The primary problem with previous systems has been the requirement for using mechanical fastening for the assembly of units to be compatible with the metal on a roof and the translucent matrix needed to transmit light through the unit. This mechanical fastening caused the unit to have multiple penetrations that were potential leaks. No matter how diligent a manufacturer is in their manufacturing of an assembly, there are always the simple laws of Physics to overcome. One law is simply that if there is a place for water to go it will find it because it is the nearest thing to a perfect solvent that exists. Another simple premise is that unlike objects always expand and contract at different rates and like objects with different mass will expand and contract at different levels. Previously, systems always had multiple penetrations for rivets, which gave avenues for leaks. In addition there was the coefficient of linear expansion of the Metal side rail, rivet, rivet spline, washer, light transmitting media (fiberglass, acrylic, polycarbonate etc.), mastic, and support channels.

SKY-BRITE is built using only three different products with no penetrations and sufficient lapping to allow for complete perimeter sealing. The SKY-BRITE is an assembly that consists of a customer's metal panel with precision windows cut out, a translucent light transmitting panel and a very high tech bonding system that allows for free movement of the metal panel and the translucent panel. These translucent panels are designed to conform to the metal panel so as to alleviate any possibility of water penetration. The sides have a three-inch barrier, the ends have a two-inch barrier and the center has a bonding area the size of the cross support. We then finish the system by applying a second adhesive to the inner perimeter of the window cut outs.

SKY-BRITE is built as an insulated system and a non-insulated system. The benefit of the insulated system is primarily dedicated to stop condensation from migrating from the top sheet to the bottom panel.

SKY-BRITE does not require the reinforcement channels that older systems require. This is the result of the proprietary design of the laminated system.

F&F Assemblies
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SKY-BRITE is designed with concern for several inherent problems that the metal building industry has had to deal since the readmission of standing seam roofing to the market that we reside in today. Following, you will find the reasons why SKY-BRITE will replace the panels that are used today simply because it is a better approach.

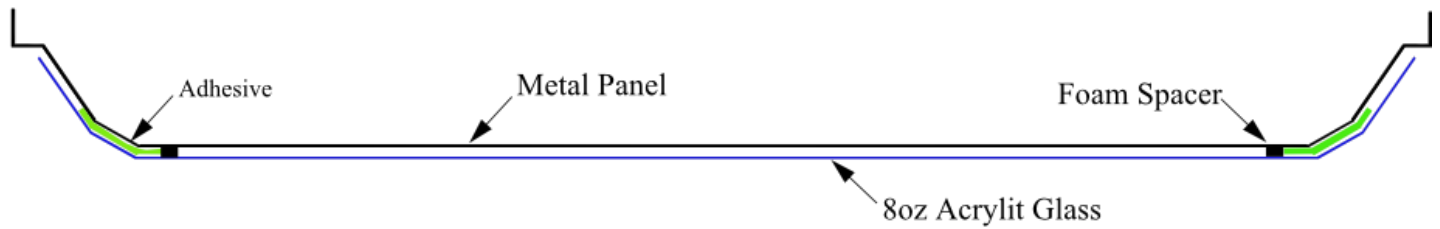
A The metal panel is cut only where the light is needed and there is adequate room on either end of the panel to lap metal to metal (A.) as well as the accommodation of the locks to be attached on either side, unobstructed, metal to metal.

B. The fiberglass panel (B.) shown outlined by the dotted line is a complete panel bonded to the bottom of the metal panel by our proprietary **adhesive**.

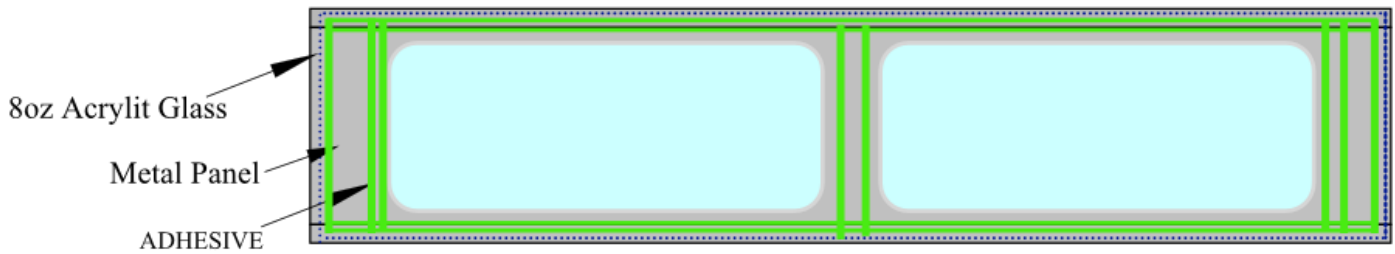
C. There is no need for UL90 reinforcing channels that always get in the way during installation, because the strength of the system is adequate without them.

D. The last but far from being the least important is that there are no fasteners, penetrations for them or any other way for these panels to leak. All areas are double or triple sealed to protect against water penetration.

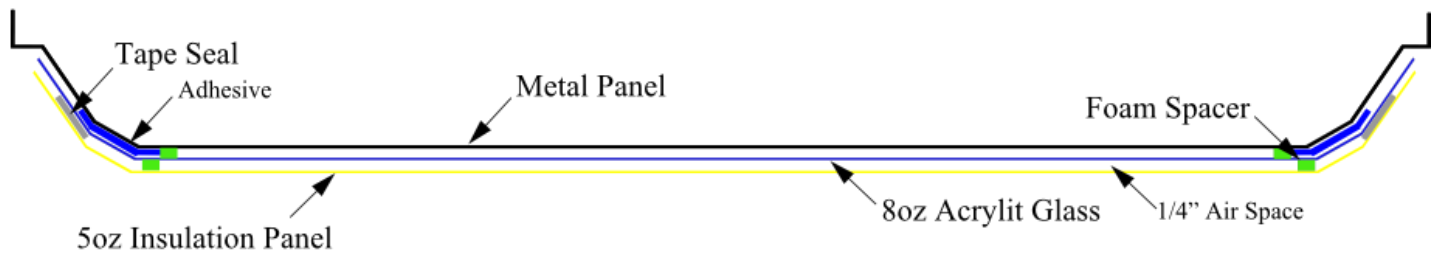
Non-Insulated Double Lok / Ultra Lok



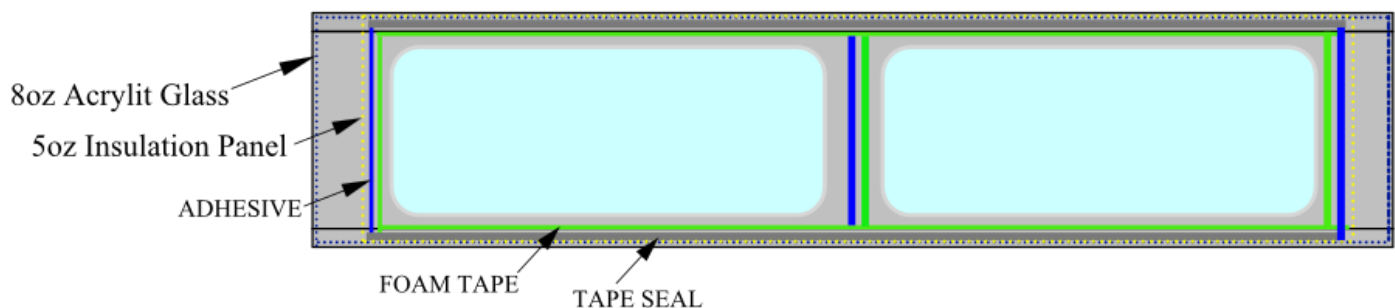
BOTTOM VIEW



Insulated Double Lok / Ultra Lok



BOTTOM VIEW



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The following specifications are specific to the **Acrylit_{GC} translucent panel only** and must be calculated as a part of the entire system when used in conjunction with the **SKY-BRITE** assembly. Values will vary when used with different proprietary metal panels.

TECHNICAL SPECIFICATIONS

PROPERTY	ASTM STANDARD	VALUE
Tensile Strength	D-638	25,772 psi.
Tensile Modulus	D-638	1.52 X 10 ⁶ psi.
Flexural Strength	D-790	24,306 psi.
Flexural Modulus	D-790	.79 X 10 ⁶ psi.
Compressive Strength	D-695	28,905 psi.
Barcol Hardness	D-2583	40 - 50
Uniform Building Code Class	Std. 52-4	CCII
Burning Rate	D-635	< 2.5” /min.
U factor non-insulated	NFRC 102-2004	1.08
Inssulated		.61
Light Transmission	ASTM D1003-07	
Haze		112%
Light Transmittance		77%

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The lifetime aesthetic way to put light into your building

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