

TECHNICAL DATA SHEET

**GLASTEEL Acrylit_{GC} HIGH STRENGTH FIBERGLASS PANELS
FOR LAMINATION TO THE KBS STANDING SEAM 360 PANELS**

Product Description: Consisting of an 8 OZ. 100 % Acrylic Translucent Panel Woven Roving Strand combined with chopped strand Matrix Fiberglass Reinforcement

PHYSICAL PROPERTIES

Property	ASTM Std.	Typical Values
TENSILE STRENGTH	D638	25,772 psi.
TENSILE MODULUS	D638	1.52 X10 ⁶ psi.
FLEXURAL STRENGTH	D790	24,306 psi.
FLEXURAL MODULUS	D790	0.79 X 10 ⁶ psi.
COMPRESSIVE STRENGTH	D695	28,905 psi.
SELF-IGNITION TEMPERATURE	D1929	GREATER THAN 650 ^o F
*SMOKE DENSITY	E-84	<450
COMPRESSION MODULUS	D-695	1.5 X 10 ⁶ psi
*BURNING RATE	D-635	<2.5 in / min.
*UNIFORM BUILDING CODE CLASSIFICATION	D-635	CC2
BARCOL HARDNESS	D-2583	40-50
*LIGHT TRANSMISSION	D-1494	55-60
*U FACTOR (with Film Coefficients)	NFRC 102-2004	1.08 BTU/ Hr ft ² °F
* LINEAR THERMAL EXPANSION	D-638	1.9* X 10 ⁻⁵ IN. / IN./ ^o F
BEARING STRENGTH	D-953	24.8 ksi (3.88)
WATER ABSORBTION	D-570	0.25% @ 72 ^o F /72 hrs.
SOLAR HEAT GAIN	NFRC 201-2004	.45
*SOLAR ABSORBTANCE	E-903	77.73
*REFLECTANCE AND EMMITANCE	E-1371/E1918	.58 / .91
IZOD IMPACT	D-4812	18.59 Ft-lb / in ²
LUMINOUS TRANSMITTANCE	D 1003-07	77.18%
HAZE	D-1003-07	112.78 %

Tolerances:

PANEL WEIGHT.....	+/-	10%
RIB HEIGHT.....	+/-	1/16th
LENGTH.....	+/-	1/8th
WIDTH.....	+/-	1/8th
SQUARENESS.....	+/-	1/8th

Codes and approvals:

ASTM-D3841	"Specifications for Glass Fiber-Reinforced Polyester Plastic
Panels"UL90	STAND ALONE APPROVAL BY UL FOR ANY TRAPEZOIDAL SYSTEM
Recognized Component File	(#R5214)
ICBO#/ ICC	ER-2364

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