



Insulation & Shading Values for 3form Materials

INSULATION AND SHADING VALUES FOR 3FORM PANELS

Insulative values of different materials are a function of both the convective properties (U-values and shading coefficients) and the conductive properties (thermal conductivity). The overall insulation values of an application are also dependent upon the system assembly size, material, aesthetic choices, and surface finishes.

3form insulation and shading testing was conducted in accordance with the following:

ASTM E 903; "Standard Test Method for Solar Absorbance, Reflectance and Transmittance of Materials Using Integrating Spheres."

ASTM E 891-87; "Tables for Terrestrial Direct Normal Solar Spectral Irradiance Tables for Air Mass."

ASTM E 408-71; "Standard Test Method for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques."

KODA XT

COLOR	FINISH	GAUGE (in)	U-VALUE (Btu/h-ft ² -°F)		RHG (Btu/ft ²)	SC	SHGC	% REJECTED	% TRANSMITTANCE		% REFLECTANCE	
			WINTER	SUMMER					VISIBLE	SOLAR	VISIBLE	SOLAR
Crystal Clear	SS/SS	1/4	0.91	0.83	198	0.93	0.81	19	82.4	76.1	8.9	8.6
Crystal Clear	SS/SS	1/2	0.78	0.72	186	0.92	0.80	20	74.1	70.0	8.5	8.5
Crystal Clear	Pat/Pat	1/2	0.78	0.72	186	0.93	0.81	19	76.1	71.8	8.8	8.7
Cobalt	SS/SS	1/2	0.78	0.72	169	0.83	0.72	28	29.8	55.2	5.9	7.5
Noir	SS/SS	1/2	0.78	0.72	132	0.64	0.56	44	19.7	22.8	5.8	5.8
Glow	SS/SS	1/2	0.78	0.72	185	0.91	0.79	21	72.8	68.6	8.4	8.3
Ghost	SS/SS	1/2	0.78	0.72	93	0.45	0.39	61	5.7	10.9	33.7	27.8

RHG - Relative Heat Gain

SC - Shading Coefficient

SHGC - Solar Heat Gain Coefficient

% Rejected - % Total Solar Energy Rejected

Finish Codes:

SS - 3form Sandstone Texture

Pat - 3form Patent Texture

Pol - Polished Texture

For more information, please visit www.3-form.com or call 800.726.0126



VARIA

COLOR	FINISH	GAUGE (in)	U-VALUE (Btu/h-ft ² -°F)		RHG (Btu/ft ²)	SC	SHGC	% REJECTED	% TRANSMITTANCE		% REFLECTANCE	
			WINTER	SUMMER					VISIBLE	SOLAR	VISIBLE	SOLAR
Clear	SS/SS	1/4	0.97	0.93	202	0.95	0.82	18	85.6	78.0	7.7	7.1
Clear	SS/SS	3/8	0.90	0.87	198	0.93	0.80	20	83.4	76.1	7.4	6.9
Clear	SS/SS	1/2	0.80	0.80	193	0.91	0.78	22	82.3	74.3	7.4	6.8
Pure White	SS/SS	1/4	0.96	0.97	86	0.36	0.31	69	20.3	19.6	36.4	32.9
C3 Ghost	SS/SS	1/2	0.78	0.72	103	0.50	0.44	56	11.4	16.7	27.5	24.9

Finish Codes:

SS - 3form Sandstone Texture

CHROMA

COLOR	FINISH	GAUGE (in)	U-VALUE (Btu/h-ft ² -°F)		RHG (Btu/ft ²)	SC	SHGC	% REJECTED	% TRANSMITTANCE		% REFLECTANCE	
			WINTER	SUMMER					VISIBLE	SOLAR	VISIBLE	SOLAR
Clear	Vellum/ Vellum	1/2	0.82	0.81	168	0.78	0.67	33	68.6	60.4	7.0	5.4
Clear	Vellum/ Vellum	1	0.65	0.65	153	0.72	0.62	38	65.7	55.8	8.0	6.7
C3 Ghost	Vellum/ Vellum	1/2	0.75	0.70	111	0.54	0.47	53	14.7	19.1	28.0	20.7

Finish Codes:

Renew - 3form Vellum

GLASS

COLOR	GAUGE (in)	U-VALUE (Btu/h-ft ² -°F)		RHG (Btu/ft ²)	SC	SHGC	% REJECTED	% TRANSMITTANCE		% REFLECTANCE	
		WINTER	SUMMER					VISIBLE	SOLAR	VISIBLE	SOLAR
Pressed Glass C3 Ghost	7/16	0.99	0.90	94	0.40	0.35	65	10.6	18.5	39.2	28.6
Poured Glass Clear	3/4	1.01	1.00	167	0.76	0.66	34	82.2	55.9	8.1	5.3

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