Dynamic Insulating Glass Unit (IGU)

View Dynamic Glass is a new generation of intelligent windows that uses electrochromic technology to adjust tint in response to external conditions and user preference. The dynamic insulating glass unit (IGU) contains an electrochromic coating to switch between clear and tinted on demand. The IGU can be configured with a range of sizes, shapes, colors and inboard lite options.

Benefits

View Dynamic Glass uses electrochromic technology to switch between clear and tinted states on demand.

- Glare reduction
- Unobstructed views and natural daylighting
- Energy savings
- Contributes to LEED and other green building rating systems

Features

- 4 preset states from 1% to 58% visual transmission
- Solar heat gain coefficient range of 0.09 to 0.41
- Fully automated control or manual control with a range of user interface options
- Maximum size of 72" x 120"

3rd party testing and certification

- ASTM E-2141: Durability of Absorptive Electrochromic Coatings
- SGCC (ANSI Z97.1, CPSC 16 CFR 1201)
- IGCC/IGMA (ASTM E-2190)

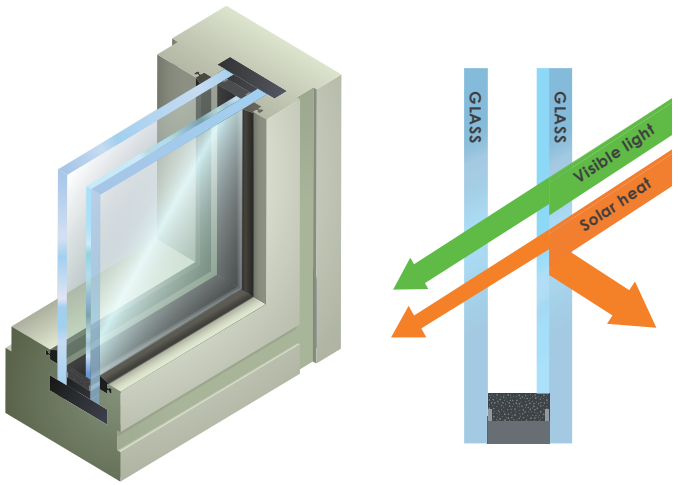
Warranty

- Standard insulating glass unit (IGU)— 10 years from date of delivery by View
- Please refer to standard warranty terms for more details

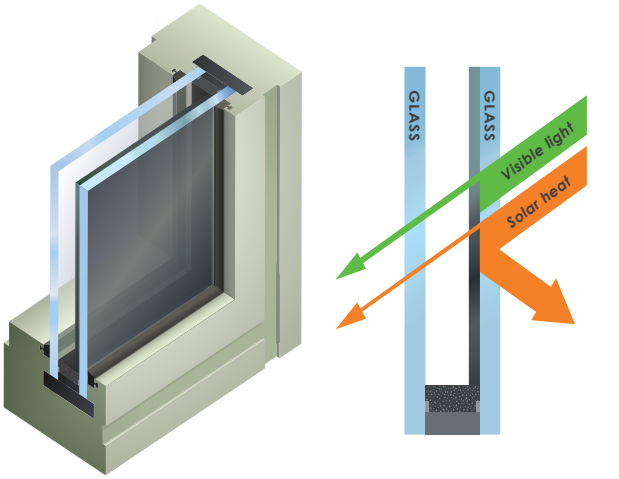
Framing requirements

- Integrates into typical applications and framing system types
- Framing systems need to allow enough space in glazing pocket and framing channels to run system wiring
- Hole size for connector to pass through is 7/16" minimum
- For Structural Silicone Glazing (SSG) applications, View IGUs will be shipped with EdgeBlack applied along the long edges of the IGU on surface 1.

CLEAR STATE



TINT STATE



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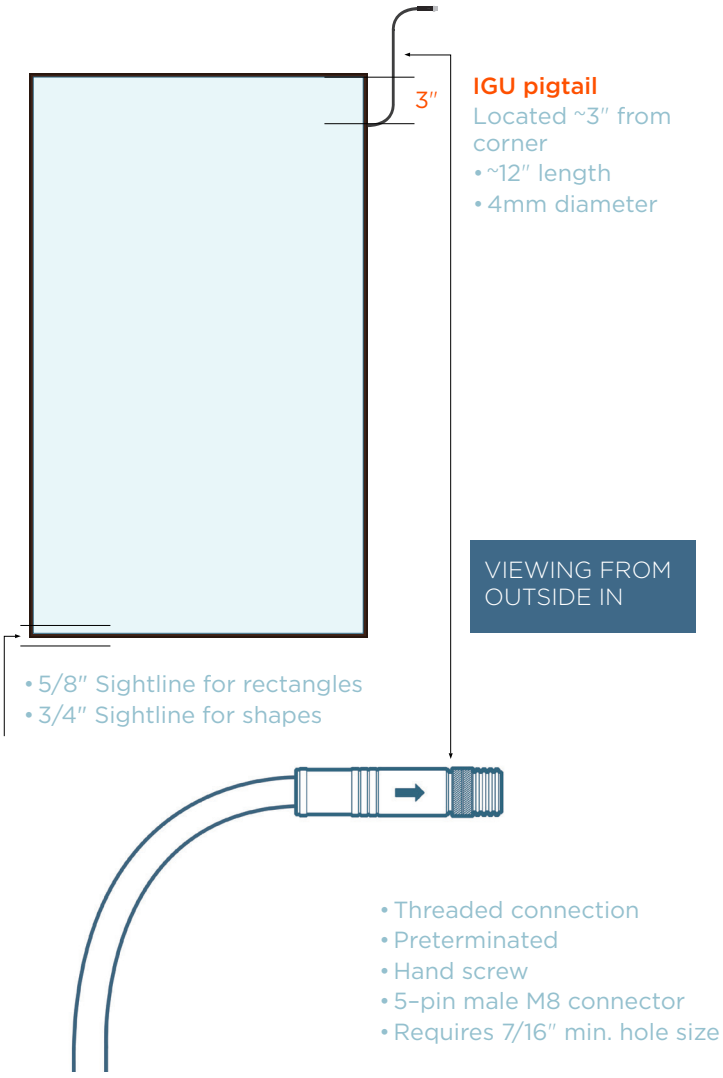
VIEW DYNAMIC GLASS - Standard Options (other configurations available on request)		
Type	Dual pane / Triple pane	
Shape	Squares, rectangles Trapezoids and triangles	
Dimensions	Maximum 72″ x 120″ (1,828mm x 3,048mm) Minimum 14″ x 14″ (356mm x 356mm) Maximum overall thickness 2″ (52mm)	
Outboard Lite	Thickness Strength Color Coating	1/4″ (6mm) Tempered, Heat Strengthened Clear Dynamic coating on surface 2
Inboard Lite	Thickness Strength Color	6mm / 5mm / 4mm Clear 6mm SolarBlue, SolarGray Tempered, Heat Strengthened, Annealed Clear, SolarBlue, SolarGray
Inboard Laminate	Thickness Strength Interlayer 	6mm / 5mm / 4mm for each pane in laminate Tempered, Heat Strengthened Clear / 0.06″ PVB / Clear Clear / 0.09″ PVB / Clear Clear / 0.09″ SGP / Clear
Spacer Materials and Thickness	Foam Super Spacer® T-Spacer™ (black) ½″, ⅝″ (12.7mm, 15.9mm)	
Gas Fill	>90% Argon, <10% Air 100% Air*	
Seal	Primary Secondary	PIB Silicone



- Other sizes, colors, and thicknesses available based on specification.
- An IGU installed 2,500 ft above sea level will include 100% air and an open capillary tube installed on the corner closest to the pigtail running down several inches through the secondary seal.
- The inner ply of a tinted laminated lite is colored.
- View Dynamic Glass transitions from the long edges of the glass inward to the center. Transition speed varies by the size.
- Any tempered lite with a base dimension > 84″ will exhibit vertical roll wave distortion rather than horizontal roll wave distortion.
- Using a spark-type analyzer to measure gas content within the IGU will damage the electrochromic coating and void the warranty.
- The overall thickness of the IGU may vary within the glass thickness tolerance stated in ASTM C1036 and the air space thickness tolerance stated in ASTM E2190.
- Dynamic coating meets or exceeds specifications for scratches, pinholes, and defects stated in ASTM C1376.

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Each View Dynamic Glass makeup contains four performance values corresponding to the electrochromic (EC) tint level of the glass, ranging from the clear state (Tint 1) to the fully tinted state (Tint 4). Lead times may vary for non-standard configurations.

			Transmittance (%)			Reflectance (%)					
Double Pane IGU Configurations		EC Tint Level	Visible	UV	Solar	Visible Out	Visible In	Solar Out	U-Value (Btu/h-ft2F)	Solar Heat Gain Coefficient	Sound Transmission Class Rating (dB)
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	58	4	34	15	18	15	0.29	0.41	
Inboard Lite	**6mm clear**	Tint 2	40	3	21	12	17	12	0.29	0.28	35
Cavity	1/2" (12.7mm)	Tint 3	6	1	2	9	16	11	0.29	0.11	
Gas Fill	90% argon	Tint 4	1	0	1	10	17	12	0.29	0.09	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	50	3	22	14	14	18	0.24	0.33	
Inboard Lite	**6mm clear with low-e SN68 on #3**	Tint 2	35	2	15	11	13	12	0.24	0.24	35
Cavity	1/2" (12.7mm)	Tint 3	5	1	2	9	12	11	0.24	0.08	
Gas Fill	90% argon	Tint 4	1	0	0	10	13	12	0.24	0.07	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	57	4	32	15	18	15	0.23	0.39	
Inboard Lite	**6mm clear with low-e i89 on #4**	Tint 2	40	3	20	12	17	12	0.23	0.27	35
Cavity	1/2" (12.7mm)	Tint 3	6	1	2	9	16	11	0.23	0.09	
Gas Fill	90% argon	Tint 4	1	0	1	10	16	12	0.23	0.07	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	37	2	20	14	10	14	0.29	0.39	
Inboard Lite	**6mm SolarBlue**	Tint 2	26	2	13	11	10	12	0.29	0.27	35
Cavity	1/2" (12.7mm)	Tint 3	4	1	2	9	10	11	0.29	0.10	
Gas Fill	90% argon	Tint 4	1	0	0	10	10	12	0.29	0.09	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	55	0	30	15	17	15	0.28	0.41	
Inboard Lite	**6mm clear / 0.060" PVB / 6mm clear**	Tint 2	39	0	19	12	16	12	0.28	0.28	39
Cavity	1/2" (12.7mm)	Tint 3	5	0	2	9	15	11	0.28	0.10	
Gas Fill	90% argon	Tint 4	1	0	1	10	16	12	0.28	0.09	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	54	0	29	15	16	14	0.28	0.40	
Inboard Lite	**6mm clear / 0.090" PVB / 6mm clear**	Tint 2	38	0	18	12	15	12	0.28	0.28	42
Cavity	1/2" (12.7mm)	Tint 3	5	0	2	9	15	11	0.28	0.10	
Gas Fill	90% argon	Tint 4	1	0	0	10	15	12	0.28	0.09	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	29	2	18	14	9	14	0.29	0.39	
Inboard Lite	**6mm Solargray**	Tint 2	21	1	11	11	8	12	0.29	0.26	35
Cavity	1/2" (12.7mm)	Tint 3	3	0	1	9	8	11	0.29	0.10	
Gas Fill	90% argon	Tint 4	1	0	0	10	8	12	0.29	0.09	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	28	1	13	14	8	14	0.29	0.38	
Inboard Lite	**6mm Pacifica**	Tint 2	20	1	9	11	8	12	0.29	0.26	35
Cavity	1/2" (12.7mm)	Tint 3	3	0	1	9	7	11	0.29	0.10	
Gas Fill	90% argon	Tint 4	1	0	0	10	8	12	0.29	0.09	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	45	3	17	14	13	14	0.29	0.38	
Inboard Lite	**6mm Azuria**	Tint 2	32	2	12	11	12	12	0.29	0.27	35
Cavity	1/2" (12.7mm)	Tint 3	4	1	2	9	12	11	0.29	0.10	
Gas Fill	90% argon	Tint 4	1	0	0	10	12	12	0.29	0.09	
Triple Pane IGU Configurations											
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	52	3	28	18	22	16	0.21	0.37	
Inboard Lite	**6mm clear x 2**	Tint 2	37	2	18	13	21	12	0.21	0.25	39
Cavity	1/2" (12.7mm) x 2	Tint 3	5	1	2	9	21	11	0.21	0.09	
Gas Fill	90% argon x 2	Tint 4	1	0	0	10	21	12	0.21	0.07	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	44	2	19	17	17	17	0.14	0.30	
Inboard Lite	**6mm clear x 2; SN68 low-e on #5**	Tint 2	32	2	13	13	16	13	0.14	0.21	39
Cavity	1/2" (12.7mm) x 2	Tint 3	4	0	2	9	16	11	0.14	0.06	
Gas Fill	90% argon x 2	Tint 4	1	0	0	10	16	12	0.14	0.05	
Outboard Lite	6mm clear FT with EC coating on #2	Tint 1	26	2	14	17	10	16	0.21	0.35	
Inboard Lite	**6mm Solargray with 6mm Clear Center**	Tint 2	19	1	9	13	10	12	0.21	0.24	39
Cavity	1/2" (12.7mm) x 2	Tint 3	3	0	1	9	9	11	0.21	0.08	
Gas Fill	90% argon x 2	Tint 4	1	0	0	10	10	12	0.21	0.07	

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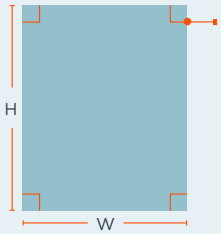
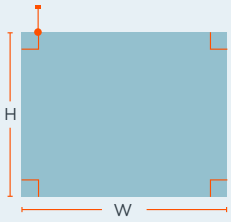
SHAPES CATALOG

- All drawings are viewing surface 1
- Each angle ≥ 30˚. Trapezoids must have two right angles
- Pigtail exit indicated by and cannot be moved.
- Pigtail is approx. 3″ from indicated corner
- Each dimension ≤ 120″ and ≥ 14″
- Either W or H must be ≤ 72″

RECTANGLE



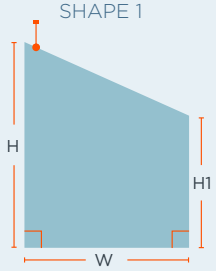
H > W



W > H

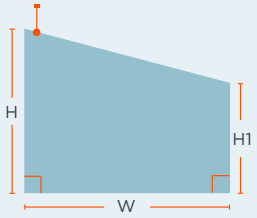
TRAPEZOID

SHAPE 1



H > W H1 < H

SHAPE 1



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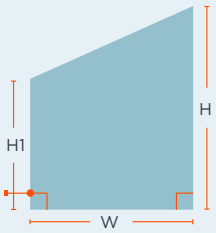
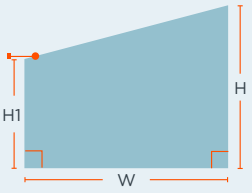
SHAPE 2



H > W H1 < H

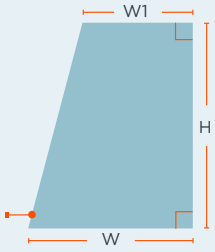
SHAPE 2



W > H H1 < H

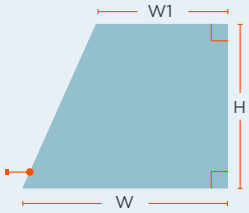
TRAPEZOID

SHAPE 301



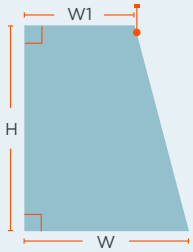
H > W W1 < W

SHAPE 301



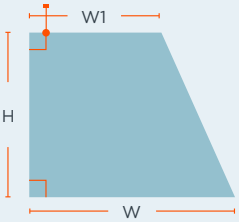
W > H W1 < W

SHAPE 302



H > W W1 < W

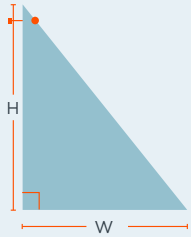
SHAPE 302



W > H W1 < W

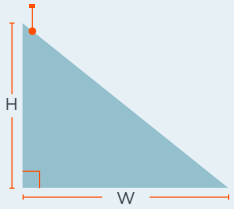
TRIANGLE

SHAPE 45



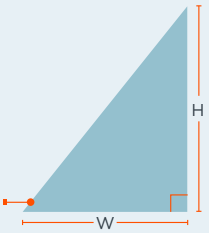
H > W

SHAPE 45



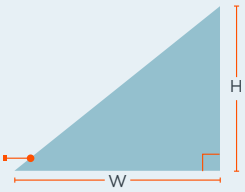
W > H

SHAPE 46



H > W

SHAPE 46



W > H

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