



# UltraVue®

## Laminated Glass

### You Asked. We Delivered!

Tru Vue introduces UltraVue® Laminated Glass. Designed with Tru Vue's exacting specifications and commitment to quality, this new addition gives you another high-performance option in Tru Vue's already extensive offering of glazing choices.



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#### **Anti-Reflective –**

Minimizes mirror-like reflections for optimal viewing

#### **Crystal Clear –**

Water white, low iron glass

#### **99% UV protection –**

For the display of light-sensitive objects where light is not filtered at the source

#### **Safety & Security –**

Minimizes risk of injury and safeguards artwork in the event the glazing is broken or damaged

# UltraVue® Laminated Glass

## Facts & Specifications

Anti-Reflective • Crystal Clear • 99% UV Protection • Safety & Security

### Size Availability

Size	Thickness		Approx wt/Lite		Area/Lite		Crate Qty	Approx wt/Crate		Approx area/Crate	
	mm	in	lbs	kgs	sq ft	sq m		lbs	kgs	sq ft	sq m
63"x 85" (2159 x 1600 mm)	4.4	0.18	100	45	37.2	3.46	20	2000	907	744	69
63"x 85" (2159 x 1600 mm)	6.4	0.25	144	65	37.2	3.46	15	2160	980	558	52
72"x 120" (3048 x 1829 mm)	6.4	0.25	244	111	60	5.57	5	1450	658	300	28

Additional sizes / thicknesses available Spring 2014

### Product Information

PHYSICAL TRAITS	Substrate	Water white, low iron glass
	Thickness Tolerances	+/- 0.3 mm (0.012")
	Border Area	Each sheet contains a 15mm (0.6") perimeter border (Border Area) that is subject to inherent processing conditions which may cause the optical and cosmetic performance to be non-conforming in that area
	Interlayer	PVB
PERFORMANCE DATA	UV Protection 300-380 nm ISO 18902, ASTM E169-04	(300 - 380 nm): ≥ 99%
	Light Transmission MIL-C-14806A, MIL-C-675C	≥ 98%
	Light Reflection/Double sided MIL-C-14806A, MIL-C-675C	≤ 1.2%
PROPERTIES & SPECIFICATIONS	Tensile Strength (ASTM D-412)	3220 psi
	Humidity Resistance MIL-C-48497A para 4.5.3.2	No deterioration of coating after 48 hours @ 50 °C, 95% RH
	Corrosion Resistance (Salt Fog) ASTM B117-03	48 hr. No deterioration 50 °C, 95% RH, after exposure for 7 - 24 hr cycles (168 hours), the coating shows no damage - <b>Passed</b>
	RoHS Compliance 2011/65/EU	Dangerous substance testing: presence of Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Hex-Cr) - <b>Passed</b>
	Photographic Activity Test (PAT) ISO 18916 & ISO 18902	ISO 18916 Silver Image Interaction • Gelatin Staining • Mottling of Image • Interaction Detector Overall Performance - <b>Passed</b> ; ISO 18902 Overall Performance - <b>Meet</b> ; Photo-safe per ISO 18902 section 3.9
	Coating Adhesion (Snap Tape) ASTM D3359-08	The coating shows no damage after snap removal of tape
	Solubility MIL-C-48497A	After a 24-hour immersion of exposure at room temperature °F / 16-32 °C the anti-reflection coating shows no deterioration in the following solutions: • Distilled Water • Saline Solution (170 gm of NaCl per 3.8 liters of water) • Acetone • Ethyl Alcohol • Isopropyl Alcohol • Coffee • Coke
	Outgassing Oddy Test	Passed
	Accelerated Aging (Q Sun Xenon Arc Test) ASTM G155-05, ISO 105-B02	Anti-reflective, UV protection, and light transmission remain unchanged after 2000 hours (estimated to be approximately 100 years) of Q-sun Xenon arc testing at exposure intensity of 100,000 Lux
	Swinging Punch Bag Test (ANSI Z97.1-2009 & CPSC 16 CFR 1201)	Both 4.4mm and 6.4mm meets the impact and boil test requirements for ANSI Class B and CPSC Category I rating. (18 inch/457mm impactor drop height)
	Pendulum Tire Drop Test (EN 12600:2002)	4.4mm meets Classification 2(B)2 (450mm/17.7inches impactor drop height); 6.4mm meets Classification 1(B)1 (1200mm/47.2inches impactor drop height)
	Moh's Hardness	6
	Coefficient of Thermal Expansion ASTM D-696	8.9 x 10 <sup>-6</sup> mm/mm / °C (4.9 x 10 <sup>-6</sup> in/in / °F)
TEMPERATURE & FLAMMABILITY	Flammability Self-Ignition Temp (ASTM D1929)	750 °F / 399 °C
	Max Continuous Service Temp	170 °F / 77 °C
	Min Continuous Service Temp	-20 °F / -29 °C
	Softening Point	720-730 °C (1328 - 1346 °F)