

CORNING
Willow® Glass



Corning® Willow® Glass Laminates

Product Information

Corning® Willow® Glass Laminates provide a premium aesthetic surface, are chemically resistant and up to 8 times harder than traditional plastic surfaces alone. An optional printed decoration layer can offer additional design opportunities.

Benefits

- Improved scratch, chemical, and damage resistance versus plastic
- Superior surface with the natural beauty of glass
- Cutting and fabrication on-site using readily available tools
- Color-free transparency to the substrate below
- Excellent hermeticity and barrier properties

Properties

Size (maximum)	4' x 8' (1219 mm x 2438 mm)
Standard Glass Thickness	200 µm
Decoration	Solid colors, custom high resolution digital images or printed decorated layer Design freely using high-resolution screen or ink-jet printing techniques on a variety of materials
Cutting	Can be cut on site or in a factory setting using standard off-the-shelf power tools enabling precise installation and customized shapes and sizes* <ul style="list-style-type: none"> • Router cutouts and edging • Hole saw cutting • CNC • Waterjet
Lamination	Willow Glass can be bonded to a variety of materials – acrylic, polycarbonate, steel, and MDF (medium density fiber board).

Lighter Weight

Material	Weight per Area (kg/sq m)
Marble	29
Ceramic Tile	23
Willow Glass Laminate on Acrylic	8

Scratch Testing

Scratch Loads	Vickers		Knoop	
	100 gf	300 gf	100 gf	300 gf
Willow Glass Laminate (200 µm Willow Glass 25 µm OCA/SS) Scratch Width µm	20 µm	95 µm	7 µm	14 µm
Willow Glass Scratch Width µm	17 µm	65 µm	5 µm	13 µm
Tempered SLG Scratch Width µm	56 µm	337 µm	7 µm	23 µm
Metal (aluminum) Scratch Width µm	82 µm	145 µm	32 µm	53 µm
Plastic (polycarbonate) Scratch Width µm	165 µm	267 µm	52 µm	103 µm

Willow Glass Laminates have smaller scratch width and reduced scratch visibility when compared to metal, plastic, and soda-lime glass.

*Some laminates may require alternate cutting tools. Please contact willow@corning.com for more information.

Material Attribute Comparison

	Plastic Laminates	PMMA	Ceramic Tile	Marble	Porcelain	Thick Glass	Willow Glass Laminates
Sheet or Tile	S	T	T	S	T	S	S
Decoration	Color, Pattern	Color, Pattern, Image	Color, Pattern	Color	Color, Pattern	Color, Pattern, Image	Color, Pattern, Image
Texture	Rough	Gloss	Semi Gloss	Semi Gloss	Gloss	Gloss	Gloss
Mechanical (scratch, impact)	Good	Fair	Poor	Poor	Poor	Good	Good
Weight	Fair	Light	Heavy	Heavy	Heavy	Heavy	Light
Chemical Durability	Poor	Poor	Fair	Fair	Good	Good	Good
Rounded Vertical Corners	No	Yes	No	No	No	No	Yes
Field Cutouts	Yes	Yes	Yes	Yes	Yes	No	Yes

Substrate Comparison Chart

Substrate	Thin/Light	Flexible/Conformable	Cut in Field	Chemical/Abrasive Durability	Superior Transmission (no green tint)	High Temperature Resistance	Complex Decoration in Quantity	Scratch Resistance	Continuous Processing
Willow Glass	✓	✓	✓	✓	✓	✓	✓	✓	✓
Soda-Lime Glass (SLG)				✓		✓	✓	✓	
Ceramic Tile			✓	✓	✓	✓	✓	✓	
Plastic with Hardcoat	✓	✓	✓		✓				✓

Willow Glass is the only substrate that combines the best attributes of glass and plastics.



CORNING

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