



TECHNICAL SPECIFICATIONS

MYOTECH: DIRECT-TO-SUBSTRATE DIGITAL PRINTING

MYODO starts with the best, most premium glass, alongside our proprietary MYOTECH™ solution, to provide superior quality, durability, and design flexibility in our architectural glass products.

PRODUCT FEATURES

- Premium, low-iron (super clear, also known as Starphire) architectural glass. Available in a variety of monolithic and laminated options, as well as annealed or tempered.
- Razor sharp image quality and high resolution - 1440 DPI.
- Vivid color renditions with full CMYKLcLm + White.
- Durable, timeless product suitable for interior and exterior applications.
- Large format printing allows for panels up to 60" x 96" (1620mm x 2530mm).
- Made-to-order size arrive ready to install. Custom made-to-order sizes arrive ready to install, including specified drilling, edging, and trimming.
- Eco-friendly ink and environmentally friendly drying processes ensure a virtually odorless, nickel-free, and low VOC product that is GREENGUARD Gold Certified (UL 2818).



GLASS TYPES

MYODO uses low-iron, annealed glass (often known as super clear or Starphire) as what is considered the "standard" product. Low-iron glass is made by using a *truly* clear float glass with lowered iron content, reducing the green tint typical in lower-grade options to achieve optimum clarity and greater light transmission (as outlined in figure 2b). This superior clarity also allows accurate reflection of color and image without an undesirable green tint, providing a perfect canvas for design flexibility.

GLASS PANEL TYPES

- **Monolithic Glass:** A single sheet of MYODO's low-iron glass. Monolithic Glass can be left clear, or back-painted to allow for an opaque (3% transparency) product. More on this below.
- **Laminated Glass:** Often known as safety glass, laminated panels consist of two or more layers of glass held in place by high-strength PVB interlayers. It is considered safety glass because the interlayers keep the overall product intact if shattered. Its innate dampening effect also offers a much higher sound isolation rating, and blocks incoming UV radiation.

→ **Single-Laminated Glass:** A patented glass manufacturing process that uses the same PVB interlayer as regular laminated glass, only along the backside of a single sheet of glass. Single-Laminated Glass offers many of the same physical characteristics as safety glass, but is lightweight and relatively inexpensive. It is most commonly used in installations where the back of the panel is hidden, such as light fixtures and ceilings, and is even able to be applied to other substrates.

Panel Type	Superior Clarity	Shatter Resistant	Temperable	Interlayer	Pattern Cut	Drillable	Edge	Anti-Reflective
Monolithic	x		x		x	x	x	x
Laminated	x	x	x	x	x	x	x	x
Single-Laminated	x	x	x	x	x	x	x	x

TREATMENT + FABRICATION OPTIONS

MYODO Architectural Glass offers annealed, strengthened, or fully tempered glass. Additional standard glass fabrication options may be specified, including surface finish, lamination opacity, edge and corner finishing, pre-drilling, and insulating options.

EDGE OPTIONS

- ◆ Seamed
- ◆ Flat polished
- ◆ Pencil polished
- ◆ Beveled

CORNER OPTIONS

- ◆ Sharp
- ◆ Dubbed
- ◆ Radius

GLASS SIZE, WEIGHT AND TOLERANCE

MYODO offers custom sheet sizes up to 60" x 96" (1620mm x 2530mm), with a thickness range of 1/8" (3mm) to 1" (24mm).

PANEL SIZE TOLERANCE

Nominal Thickness	Monolithic	Laminated
¼" (6.0mm) or less	+/- 1.6mm (1/16")	+5.6mm, -1.6mm
¼" ~ ½" (6.0mm~12mm)	+/- 3.2mm (1/8")	+6.3mm, -3.2mm
> ½" (12.0mm)	+/- 6.4mm (1/4")	+7.9mm, -3.2mm

*For nonsymmetrical laminated glass contact the MYODO Technical Help.

THICKNESS TOLERANCE + WEIGHT SPECIFICATION

Thickness (mm)	Monolithic		Laminated	
	Tolerance (mm)	Weight (lb/ft) ²	Tolerance(mm)	Weight(lb/ft) ²
3.0mm (1/8")	2.7~3.3	1.5	Not available	
5.0mm (3/16")	4.7~5.3	2.5	Not available	
6.0mm (1/4")	5.7~6.3	3.0	5.9~7.6	3.0
8.0mm (5/16")	7.4~8.6	4.0	Not available	
10.0mm (3/8")	9.4~10.6	5.1	9.9~12.6	5.1
12.0mm (1/2")	11.2~12.8	6.8	11.8~14.6	6.8
15.0mm (9/16")	14.2~15.8	8.0	Not available	
17.0mm (5/8")	Not available		15.8~18.2	8.0
19.0mm (3/4")	17.8~20.2	10.2	Not available	
20.0mm (13/16")	Not available		19.8~23.2	11.1
24.0mm (1")	Not available		23.0~28.6	13.6

THERMAL INSULATION + OPTICAL VALUES (CLEAR, LOW IRON)

Thickness (mm)	Visible Light		UV %	Solar Energy				U-Value		Shading Coefficient
	%	Reflectance Outdoor %		Reflect %	Absorb %	Direct %	Total Heat %	Winter Nighttime W/m ²	Summer Daytime W/m ² K	
3	91	8	89	8	2	90	91	5.91	5.33	1.04
5	91	8	87	8	3	89	90	5.83	5.26	1.03
6	91	8	86	8	4	88	89	5.79	5.23	1.03
8	91	8	84	8	4	88	89	5.72	5.17	1.02
10	90	8	83	7	6	87	8	5.65	5.11	1.02
12	90	8	80	7	7	86	88	5.57	5.04	1.02
15	90	8	78	7	8	85	88	5.47	4.95	1.01
19	90	8	77	7	10	83	86	5.34	4.85	0.99

PRODUCT PREPARATIONS + INSTALLATION

DIGITAL IMAGE SUBMISSION REQUIREMENTS

- Client must provide the original vector files, when possible, unless otherwise stated in design contract. Raster images are also acceptable (pending resolution adherence, below). Supported file types are: EPS, PDF, JPEG, TIFF, AI, and PSD.
- A 2mm bleed tolerance and edge alignment will be added if not already specified in the original file submission.

- Recommended resolution:
 - ◆ Interior viewing of less than 3 feet (or 1 meter): **300 dpi (or higher)**
 - ◆ Exterior viewing between 6-50 feet (or 2-15 meters): **150 dpi (or higher)**
- Any client-submitted design files must be shown to scale and include glass sizes and edge conditions. *
- MYODO is able to provide additional design services to create or optimize your digital image. These services are subject to an additional, hourly rate. *
- MYODO factors in scale based upon complexity and size of the project when determining any additional design charges. *
- Clients must submit a declaration verifying their right to reproduce the provided image.
- All digital print mock-ups must be approved and signed by the project designer. A waiver letter may be signed and submitted in advance to MYODO in lieu of a signed mock-up.

* **TIP:** For assistance with design or image optimization, contact MYODO Technical Help.

INSTALLATION PREP

- Clients must always provide accurate field measurements before ordering glass made-to-size.
- Prepared openings for glazing must be correctly sized and within tolerance requirements.
- Installation site must have a functioning weep system installed.
- Minimum required face and edge clearances must be strictly followed.
- Do not install panels until the installation site has been prepared correctly.

DELIVERY AND TRANSPORTATION

- All product crates will be inspected upon arrival.
- Glass panel sheets are delivered with polyethylene foil sheet interleaving – MYODO recommends maintaining the same interleaving between all subsequent processing steps.
- All labels must be removed promptly. Elevated temperatures may cause labels to leave a permanent residue if left on panels for an extended period of time.
- Avoid any physical treatment of the product that may cause stress or scratches, such as sliding the glass sheets.
- MYODO glass must be installed and handled by a certified Glazier or General Contractor. It is recommended that installers refer to the appropriate GANA Glazing Manuals for safe glass handling guidelines. MYODO is able to supply a complete list of local, certified installers if needed.

HANDLING / CUTTING

- Handlers must always wear clean rubber or gummed gloves to avoid leaving trace residue such as dirt or dust on the coating. Conventional cotton or leather gloves are not acceptable.
- All work and cutting surfaces must be thoroughly cleaned before placing glass.
- Single-coated glass must be placed coated-side up on the work or cutting surface.
- All cutting tools must be freshly sharpened to reduce risk of scratching or damage.
- In the event of damage, immediately remove and clean surface before replacing glass.
- Glass must be cut dry or with the smallest possible dose and atomization of an evaporating cutting oil, such as .
- Avoid using high-lubrication cutting fluids, which can leave irremovable residue.
- Handlers and installers may reference the GANA Glazing Manuals for any additional guidance.

STORAGE + MAINTENANCE

STORAGE DURATION

- MYODO glass can be stored for a maximum of twelve months indoors and two months outdoors in a dry environment.
- Glass must be installed no later than the maximum allowed storage time.

RACKS + PACKS

- Transport / packaging racks are not designed to be used for storage.
- Glass must be stored on racks with spacers between the packs.
- Glass must be interleaved with polyethylene foil. Do not use paper.
- Do not store sheets horizontally due to the risk of glass sticking together.
- Different dimensions of glasses must be separated by polyethylene foil or cork.

STORAGE ENVIRONMENT

- Glass packs must be stored in a location and manner that protects them from the risk of chemical or mechanical damage.
- Fluctuations in temperature or humidity may cause condensation on the glass and must be avoided.

- Environment must be fully dry and protected from potential sources of water.
- Ambient air in the storage location must be free of pollution from corrosive elements such as chlorine or sulphur. For example, this prohibits any proximity to heat engines or industrial battery-charging points.

CLEANING

- Use only ammonia-free glass detergents and dry, soft cotton or microfiber cloths.
- Rags, paper, glass-planes, and other cleaning detergents increase the risk of scratches and are extremely discouraged.
- Never use blades or abrasives that may scratch, damage, or risk glass print integrity in any way.

LIABILITY

MYODO does not accept liability for faults arising after delivery or during handling, processing, or installation in the case that the procedures outlined in this document are not rigorously followed. Additionally, clients must adhere to the following guidelines, as well as all requirements outlined by the appropriate GANA Glazing Manuals.

- All handlers must use appropriate handling equipment at all times.
- Packaging must be treated with caution. When applicable, crates must be opened in a controlled environment, with proper equipment.
- Glass must be transported and stored in a vertical (long edge) position. Transporting glass in its crate is preferable, when possible.
- Glass racks must be positioned on perfectly level ground.
- Glass grabs must be perfectly centered.
- All rubber surfaces for vacuum lifters must be thoroughly cleaned before attaching to glass. MYODO recommends using clean suction cup caps (from cotton) to effectively avoid surface damage.

LIMITED WARRANTY

MYODO warrants the quality of our digital print architectural glass ink and coating for a period of five years from the date of manufacture for indoor applications (warranties for exterior applications are currently under development. This warrants against defects in ink or coating such as peeling, cracking, or deterioration of the image under normal conditions and provided that the installation site has adhered to the protocols outlined in this document.

While MYODO takes every precaution to control print and color uniformity throughout fabrication, there is a minimum industry standard for minor print defects, such as smudges, bubbles, or dust. These must not be visible from a five-foot (1.5 meter) or more viewing range.

In the event that a digital print product defect is reported to and verified by MYODO, MYODO will replace the digital print panel without charge, FOB nearest shipping point to the place of installation or, at MYODO's option, refund the purchase price of the glass.

MYODO's sole responsibility is to replace defective material only. MYODO will not cover any costs associated with the removal of an existing product and/or replacement of the product.

This warranty does not cover damages caused by misuse (handling, installation, or cleaning practices), improper design, neglect, or accidents.

This warranty is nontransferable.

If the glass is insulated, the applicable warranty from the separate manufacturer applies.