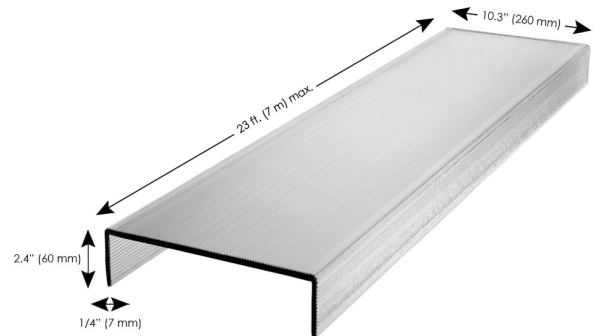


Solar™ Channel Glass (Ultra-Brilliant Low-Iron or Regular)



Application:

Interior, Exterior

Composition:

Regular or optically-clear (low-iron) glass, including up to 40% post-consumer recycled glass

Installation:

Approx. ¼"-thick lightweight glass in channel form is relatively easy to install, especially with the smart design of Bendheim's channel glass wall systems. No specialized training is required. Any competent commercial glazier with curtainwall or storefront installation experience can handle the channel glass installation. Cranes are not required, as individual glass channels are lightweight. The channels can be glazed on site or pre-assembled at the glazier's shop using Bendheim's unique unitized channel glass systems.

Approx Dimensions:

Length = up to 23 ft. (7 m); glass is fabricated to specified length. Width = 10.3" (260 mm). Flange depth = 2.4" (60 mm). Thickness = 0.28" (7 mm). Maximum size depends on wind loads, glass safety option, and other factors. Custom sizes may be available, please inquire.

Approx Weight:

Approx. 5 lbs/ft² (24.5 kg/m²) for a single layer of channel glass (single-glazed configuration)

Safety Options:

Standard, Tempered

Maintenance:

Bendheim glass is easy to maintain. We suggest cleaning with warm water and a lint free cloth (terry cloth). Conventional non-abrasive glass cleaners may also be used.

Performance Characteristics:

- **Visible Light Transmittance (VLT)** = 77% for double-glazed, uncoated, ultra-clear (low-iron) channel glass / 72% for double-glazed, uncoated, clear (regular) channel glass
- **STC Rating** = STC 34 to STC 38 | Note: STC 34 is based on test of Bendheim I-41 conventional interlocking double-glazed channel glass wall system with push-in gaskets. Wet-sealed I-60 channel glass system is projected to reach STC 38. Compare to STC 33 for a typical interior wall (1/2" drywall on each side, wood studs, no insulation) and STC 39 for a typical insulated interior wall (1/2" drywall on each side, wood studs + fiberglass insulation)

Testing:

Bendheim tempered safety channel glass is 100% heat soak tested (test is recommended for all exterior tempered glass applications), and Safety Glazing Council certified. It meets the requirements for ANSI Z97.1 & the Consumer Product Safety Commission CPSC 16FR, Part 1201 – Safety Standard for Architectural Glazing Materials. Heat soak testing minimizes the risk of spontaneous tempered glass breakage as a result of nickel sulfide inclusions.

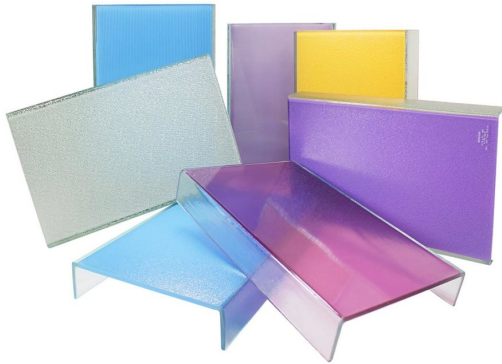
Potential Leed Credit:

- EA Credit 1: Optimize Energy Performance
- MR Credit 4: Recycled Content
- IEQ Credit 7.1: Thermal Comfort
- IEQ Credit 8.1: Daylight & Views: Daylight 75% of Spaces
- IEQ Credit 8.2: Daylight & Views: Views for 90% of Spaces

Options & Customizations:

Aesthetic & Thermal Performance Options

- Available in ultra-low-iron glass, featuring superior clarity & brilliance, or regular-iron glass (approx. 30-40% post-consumer content)
- Sand-Blast & DuraEtch® Options: sand-blasted 2nd surface and durable, fritted Dura-Etch® (simulated acid etch) obscure views, diffuse light, and protects against glare
- Fritted Colors: a rich palette of hundreds of colorfast, scratch resistant, translucent & opaque colors
- Thermal Performance Coatings: Low-E & Azur (special production)
- Thermal Insulation Interlayers: Okapane (acrylic tubes) & Thermolight 100 (fiberglass)



Fritted colors



Low-E thermal performance coating



Azur thermal performance coating



Channel glass wall with Thermolight 100 insulation