

OPTICLEAR-AR2-WW SPEC SHEET

2 SIDED ANTI-REFLECTIVE
WATER WHITE GLASS



APPLICATIONS

- Major Studios
- Premium Large Format
- Entertainment Centers
- Post-Production
- Major Cinema Theaters
- Home Theater
- Gaming Venues
- 3D Projection

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ANTI REFLECTIVE GLASS

DESCRIPTION

The quality of the projected image is your most important asset. OptiClear™ Water White Projection Port Glass (OptiClear™) is the material of choice for theater projection ports where maximum transmission, on-screen contrast, an ideal color rendering is critical. Preserve your investment in digital and 3D cinema by using the product most recommended by digital and 3D projection system manufacturers. Now available with an affordable, advanced hydrophobic coating for easy cleaning (See Paragraph 6.0) Must meet acoustic isolation goals using thicker or dual-paned (aka double glazing) glass? It is critical to start with the highest transmission, lowest loss of light available. We start with exceptionally clear water white glass and then apply durable multi-layer broadband anti-reflection coatings to both sides. The result is a colorless port glass with the highest transmission and lowest surface reflection available.



AVAILABILITY

Each piece of OptiClear™ is custom fabricated to your exact measurement specifications.
Most products can be shipped within 24 hours!
Available Sheet Thickness: 6mm & 10mm

TRANSMISSION

99% + visible transmission, OptiClear™ is the highest visible transmission port glass product available.

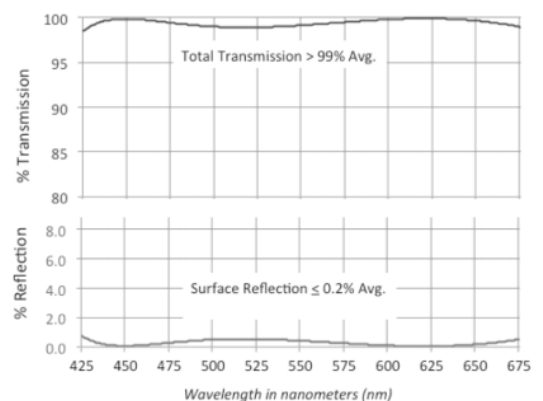
COLORLESS

Produced at a dedicated glass coating factory for optimal process control & consistency, each lot is visibly identical. OptiClear™ the low iron glass is visibly colorless as shown by the edge photo:

REFLECTED LUMINANCE

The human eye perceives some wavelengths of light more strongly than others. The brightness, also called reflected luminance, is a measure of the level of sensation a person perceives resulting from the reflection from a surface. OptiClear™ is typically < 0.4% Reflected Luminance and < 0.2% average Reflectance from 425nm - 675nm.

Optical Transmission: > 99% Visible Transmission
Surface Reflection: < 0.2% Reflection from 425nm - 675nm



OptiClear™ Water White

Standard Soda Lime

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HYDROPHOBIC

Our proprietary hydrophobic coating is a new affordable advancement that can be added to OptiClear™ to create an undetectable water and dust repellant surface that lasts for the lifetime of the product in normal use. The hydrophobic coating bonds with the glass to create a barrier against dirt - repelling dust, grease and liquid. In most cases, the glass can be cleaned with a simple wipe of a microfiber cloth.



3D POLARIZED LIGHT

This year, new technologies in laser & 3D applications require port glass to be tested for polarization. These tests have been introduced by 3D manufacturers to ensure area of light path on glass has least polarizing effects. Recommended glass thickness for 3D application is 6mm and under. When ordering for port glass for a 3D system, please specify to architect/engineer/purchasing agent to ensure correct glass will be ordered.



ENVIRONMENTAL DURABILITY

OptiClear™ passes all standard durability tests for anti-reflection coatings for the application. See chart partial test listing.

Test Parameter	Specification	Outcome
Adhesion	Mil-C-675C Para 4.5.12	Pass
Abrasion	Mil-C-675C Para 4.5.10	Pass
Humidity	24 Hours per Mil-C-675C Para. 4.5.8	Pass
Chemical	24 Hours NaCl per Mil-C-675C Para 4.5.7	Pass
Temperature	-65°F to +160°F per Mil-C-14806A Para. 3.11.3	Pass

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PROTECTIVE WRAPPING

Immediately following anti-reflection coating application and glass inspection, OptiClear™ is covered with a wrapping paper to protect both surfaces from damage during storage, shipping and handling. The paper is residue-free, and easily removable after installation. All sheets of OptiClear are shipped standard wrapped for protection.

FRAMING

Framing options are available in both standard & custom sizes. Glass angles differentiate based on the projector placement.



SHIPPING

All shipments are packaged with the utmost care to ensure safe delivery. Customers may elect to use their own shipping accounts. All shipments are F.O.B. Lake Forest CA, 92630. Shipping is available globally.

INSTALLATION

Installation varies from project to project and can be dependent on projector angle and acoustic considerations. Call us for a recommendation for your specific project. Check our website for updated facts and installation notes.

CONTACT

For more details, project guidance & pricing information please contact us directly!



CLEANING

In normal applications, dusting with a dry microfiber cloth is usually sufficient. Heavier contamination can be removed with a 70% solution of isopropyl alcohol & water. Gently wipe the glass. Do not use regular paper towels as these may contain grit. Avoid harsh cleaners containing ammonia.