



Hygard® CG750 sheet

Containment grade

Hygard® CG750 containment grade sheet is a 0.750" thick, 3-ply polycarbonate laminate that is tested to ASTM F 1233 Class 2.4 and H.P. White TP 0500 Level B Ballistics (9 mm Luger). Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force and ballistic impacts, an advantage in maintaining visibility of a threat during an attack. All Hygard® products incorporate Makrolon® polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary Makrolon® AR hardcoat that facilitates cleaning and resists marring, chemical attack, and graffiti. Hygard® CG750 sheet has a seven (7) year Limited Product Warranty against coating failure, delamination, yellowing, and hazing. The terms of the warranty are available upon request.

Applications

Security doors, windows, jails, detention centers, psychiatric hospitals, reception areas, convenience stores, check cashing centers or facilities

Typical Properties*

Property	Values
Gauge / Tolerance	0.780 in +/- 5%
Weight	4.9 lbs / sq ft
Shading Coefficient**	0.87
U-Value**	summer/winter 0.63/0.68 Btu/hr-ft ² -°F
Light Transmission	77%

*Typical properties are not intended for specification purposes

**1989 ASHRAE conditions

Product Performance Ratings

BALLISTIC

H.P. White TP 0500.03, Level B, 9 mm Luger

FORCED ENTRY & CONTAINMENT

ASTM F 1233 Class 2.4 (contraband passage) and Class 3.5 (body passage)

ASTM F 1915 Grade 1

H.P. White TP 0500 Level II Sequence 26

AGENCY INFORMATION

Combustibility Class CC1

Florida Building Code 2017, 6th Ed.

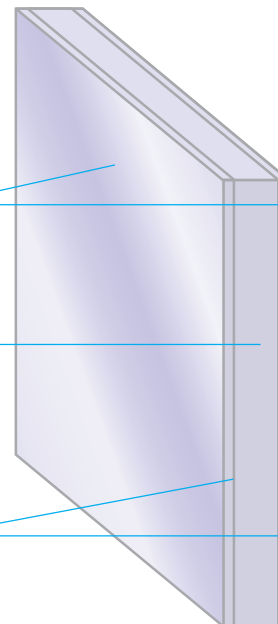
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Hygard CG750 Sheet Construction

1/8" Makrolon® AR-1 Sheet

1/2" Makrolon® Sheet

Bonding Interlayer



Hygard® CG750 sheet

Glazing recommendations

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected Hygard® laminate are recommended
- Hygard® laminate should be cut to allow for a minimum of one (1) inch edge engagement in the frame, with sufficient rabbet depth for material expansion (approx. 1/16"/ft.)
- Use wet or dry sealants/gaskets that are compatible with polycarbonate
- Remove protective masking after glazing operations are completed and before prolonged exposure to direct sunlight, moisture, or high temperature
- See glazing details on sheets.covestro.com

Product specification

Hygard® CG750 polycarbonate laminate:

- Three-ply, clear Makrolon® polycarbonate sheet constructed as follows:
 - 1/8" Makrolon® AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 1/2" Makrolon® polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/8" Makrolon® AR-1 abrasion resistant surface

wash away surface residue, grit and grime.

- Using a soft microfiber cloth or moist non-abrasive sponge, gently wash with a mild diluted soap or detergent.
- Rinse thoroughly with lukewarm, clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth.

Tech tip:

The edges of coated polycarbonate sheet are not protected with an abrasion and chemical resistant hard coating. Do not allow cleaning solutions and solvents to pool along the edges for any length of time. Always rinse edges thoroughly with generous amounts of lukewarm clean water.

