



Hygard® CG500 sheet

Containment grade

Hygard® CG500 containment grade sheet is a 0.500", 3-ply polycarbonate laminate that meets ASTM F 1233-08 Class 1.4 for contraband passage and Class 2.8 for body passage. Hygard® CG500 also meets HP White TP 0500 Level A (.38 Special) and ASTM F1233-08, Level HG1 (.38 Special) for ballistics. 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, and graffiti attack. Hygard CG500 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

Applications

Jails, detention centers, psychiatric hospitals, reception areas, convenience stores, check cashing

Typical Properties*	
Property	Values
Gauge / Tolerance	0.522 in ± 5%
Weight	3.3 lbs / sq ft
Shading Coefficient	0.90
U-Value	0.74
Light Transmission	83%

*Typical properties are not intended for specification purposes

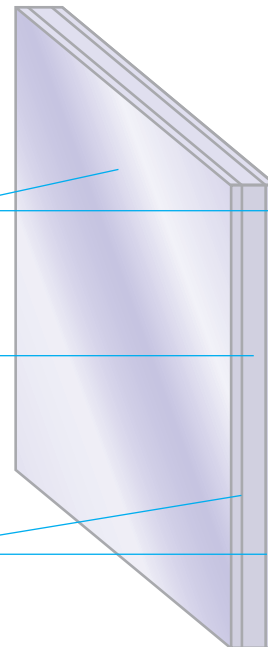
Product Performance Ratings
<p>BALLISTIC H.P. White TP 0500.03, Level A ASTM F 1233-08, Level HG1</p>
<p>FORCED ENTRY & CONTAINMENT ASTM F 1233.08 Class 1.4 (contraband passage) and Class 2.8 (body passage) ASTM F 1915.03 Grade 1 H.P. White TP 0500.03 Level 1 Sequence 15</p>
<p>AGENCY INFORMATION Combustibility Class CC1 Miami-Dade NOA 10-0329.03</p>

Hygard® CG500 Sheet Construction

1/8" Makrolon® AR-1 Sheet

1/4" Makrolon® Sheet

Interlayer Bond



Hygard® CG500 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

Standard sheet size

38" x 96", 48" x 96", 60" x 96"

Product specification

Hygard CG500 polycarbonate laminate:

- Three-ply, clear Makrolon® polycarbonate sheet constructed as follows:
 - 1/8" Makrolon AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 1/4" Makrolon polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/8" Makrolon AR-1 abrasion resistant surface

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