

# BULLET SHIELD™ 1/2" sheet

# DEFENSELITE™

## Containment grade

BulletShield™ 1/2" 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. BulletShield™ 1/2" 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 BulletShield™ 1/2" products incorporate DefenseLite™ polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary DefenseLite™ AR hardcoat that facilitates cleaning and resists marring, chemical, and graffiti attack. BulletShield™ 1/2" 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 facilities, safe rooms, government buildings, and executive offices.

## 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

### BALLISTIC

H.P. White TP 0500.03, Level A  
ASTM F 1233-08, Level HG1

### 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

### AGENCY INFORMATION

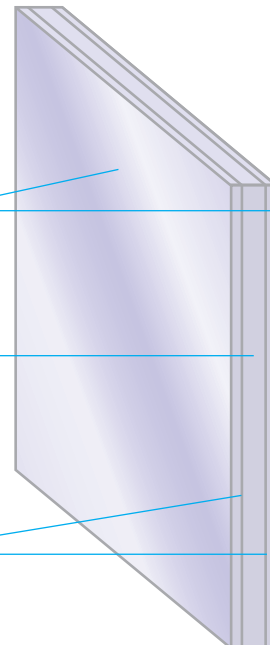
Combustibility Class CC1  
Miami-Dade NOA #15-1014.01  
Florida Building Code 2014

## BulletShield™ 1/2" Sheet Construction

1/8" DefenseLite™ AR-1 Sheet

1/4" DefenseLite™ Sheet

Interlayer Bond



# BULLET SHIELD™ 1/2" sheet

## Glazing recommendations

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected BulletShield™ laminate are recommended
- BulletShield™ 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

BulletShield™ 1/2" polycarbonate laminate:

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

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by BulletShield™.

Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

With respect to health, safety and environment precautions, the relevant Safety Data Sheets (SDS and product labels must be observed prior to working with our products.)