

BULLET SHIELD™ 1-1/4" sheet

DEFENSELITE™

Ballistic glazing - Level 3

BulletShield™ 1-1/4" ballistic grade sheet is a 1.250", 4-ply polycarbonate laminate that meets UL 752 Level 3 rating for .44 Magnum ballistic attack, HP White TP 0500 Level IV, and ASTM F 1233 Class 5. 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™ 1-1/4" 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 smearing, chemical, and graffiti attack. Applications include security doors, windows, and other areas that require these specific levels of protection. BulletShield™ 1-1/4" 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

Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows, safe rooms, and executive offices.

Typical Properties*

Property	Values
Gauge / Tolerance	1.30 in ± 5%
Weight	8.1 lbs / sq ft
Shading Coefficient	0.81
U-Value	0.51
Light Transmission	72%

*Typical properties are not intended for specification purposes

Product Performance Ratings

BALLISTIC

UL 752 Level 3 (.44 Magnum Lead Semi-Wadcutter Gas Checked, 3 rounds)

NIJ Level II, Level IIIA

FORCED ENTRY & CONTAINMENT

ASTM F 1233.08 Class 5 Body Passage

ASTM F 1233.08 Class 2.5 Contraband Passage

ASTM F 1915.03 Grade 1

H.P. White TP 0500.03 Level IV Sequence 43-44

AGENCY INFORMATION

UL File: BP6864

Combustibility Class CC1

Miami-Dade NOA #15-1014.01

Florida Building Code 2014

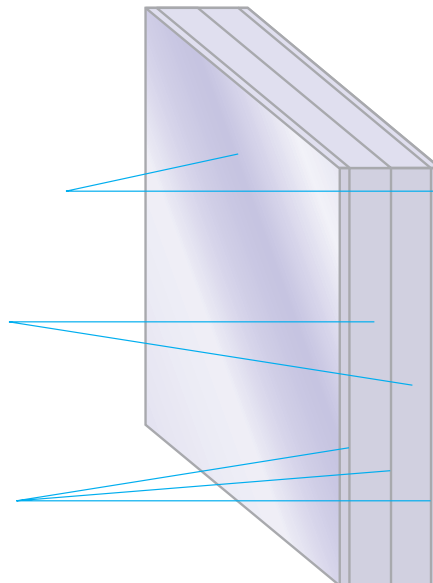
ICC-ES ESR-2728

BulletShield™ 1-1/4" Sheet Construction

1/8" DefenseLite™
AR-1 Sheet

1/2" DefenseLite™
AR-1 Sheet

Interlayer Bond



BULLET SHIELD™ 1-1/4" 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

48" x 60", 48" x 72", 38" x 78", 38" x 96", 48" x 96", 60" x 72", 60" x 96"

Product specification

BulletShield™ 1-1/4" polycarbonate laminate:

- Four-ply, clear DefenseLite™ polycarbonate sheet constructed as follows:
 - 1/8" DefenseLite™ AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 1/2" DefenseLite™ polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/2" 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.)

DEFENSELITE™