



TUFFAK AND HYGARD WITHSTANDS EXTREME THREATS WITH NO COMPROMISE TO AESTHETICS OR PERFORMANCE

PLASKOLITE HAS BUILT A REPUTATION FOR QUALITY POLYCARBONATE MATERIALS

With a complete line of monolithic, containment, forced entry, and ballistic rated polycarbonate products, Plaskolite is committed to supplying high quality glazing materials for security glazing applications.

TUFFAK polycarbonate sheets maintain an aesthetically pleasing, glass-like appearance. These polycarbonate products offer a first line of defense against attack or unlawful entry and give time for law enforcement officials to gain control. Their performance has been tested by accredited, independent laboratories and the abrasion resistant hard coat provides excellent resistance against chemical attack.

The TUFFAK and HYGARD* Advantage vs Glass and Glass-Clad Products

- » Reduced Weight: Approximately 50% lighter than glass laminate of the same thickness
- » Will not spall, spider web or white-out under attack, maintaining a clear line of site to provide an extra level of security
- » TUFFAK 15, TUFFAK AR and HYGARD products feature a hard coat that resists abrasion, chemical, and graffiti attack
- » TUFFAK AR offers a 7-year warranty against Yellowing, Loss of Light Transmission and Breakage
- » TUFFAK 15 offers a 15-year warranty against Yellowing, Loss of Light Transmission and Breakage
- » HYGARD products offer a 7-year limited warranty – See website for details

*Please see product data sheet for additional information

See page 2 for security tests, ratings and certifications

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Security Tests & Product Ratings Overview

Containment and Forced Entry Test Ratings							Ballistic Test Ratings		
Product	Gauge Inches	Lbs./SF	UL 972	ASTM F 1233	ASTM F 1915	HPW TP-0500	HPW TP-0500 Level	UL 752 Level	NIJ 0108 Level
OP	0.236	1.47							
OP	0.375	2.34							
OP	0.500	3.12							
AR1	0.118	0.736							
AR	0.236	1.5	X		4				
AR	0.375	2.3	X		3				
AR	0.500	3.1	X	2.0 BP* / 1.4 C*	3	I			
CG 375	0.390	2.4	X	2.8 BP / 1.5 C	3	I	A		
CG 500	0.530	3.3	X	3.2 BP / 1.5 C	1	I	A		
CG 750	0.780	4.9	X	3.5 BP / 2.4 C	1	II	B		
BR 750	0.780	5.1	X				B	1	
BR 1000	1.050	6.5	X	5 BP / 2.4 C	1	IV		2	
BR 1250	1.300	8.1	X	5.0 BP / 2.5 C	1	IV		3	II / IIIA
MS 1250	1.300	8.1	X					6	

* BP - Body Passage; C - Contraband

As with any security glazing, performance of HYGARD products is based on use in appropriate framing systems.

For information on glazing system suppliers and full details on performance, test results and agency listings, visit www.plaskolite.com.

Typical regulatory code compliance and certifications

Applicable products

ANSI Z97.1 American National Standard for Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test, Class A, Unlimited	AR / 15 / GP / OP / HYGARD
CPSC 16 CFR 1201 Category I and Category II: Safety Standard for Architectural Glazing Materials	AR / 15 / GP / OP / HYGARD
Florida Building Code High Velocity Hurricane Zone Classified <u>Miami-Dade</u>	AR / 15 / HYGARD
ICC-ES Evaluation Report #ESR-2728	AR / 15 / HYGARD
Combustibility Class CC1	AR / 15 / GP / OP / HYGARD
UL 972 Burglary Resistant File #BP2126	AR / 15 / GP
UL 746C: Suitability for Outdoor Use, UL File #E87887	AR / 15
AAMA 501.8: Resistance to Human Impact of Windows Systems Intended for Use in Psychiatric Applications	AR / 15