

# Tuffak Hygard BR750 PRODUCT DETAILS

TUFFAK HYGARD BR750 LAMINATE IS A TWO-PLY TUFFAK POLYCARBONATE SHEET AND ACRYLIC SHEET FOR SECURITY APPLICATIONS THAT REQUIRE UL LISTED LEVEL 1 BULLET RESISTING GLAZING. TUFFAK HYGARD BR750 LAMINATE FEATURES ABRASION AND UV RESISTANT SURFACES FOR EXTENDED SERVICE LIFE IN HARSH ENVIRONMENTS.

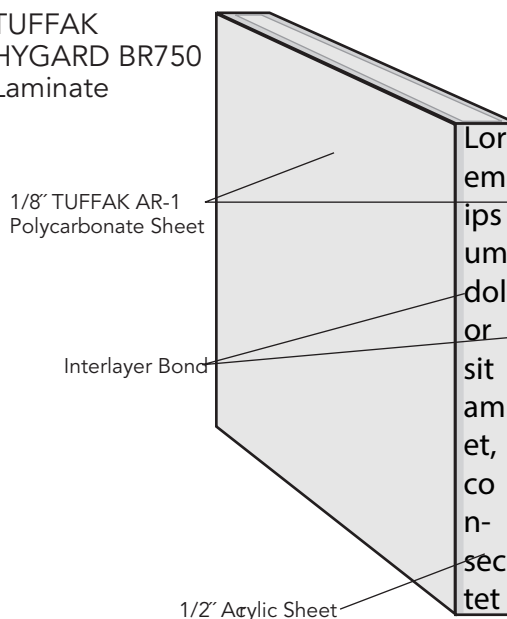
## APPLICATIONS

Tuffak Hygard BR750 laminate is used as bullet-resistant glazing in a wide variety of security applications. Installations include 24-hour convenience stores, specialty retailers, banks, government and detention facilities, as well as other cash transaction areas.

## Typical Physical Properties

Gauge/Tolerance	.780 ± 8%
Weight	5.1 lbs./s.f.
Shading Coefficient	.89
% Light Transmittance	88% (clear)
Colors	Standard: Clear Custom Colors on request
Sheet Sizes	Standard: 38" x 96"    48" x 60" 48" x 96"    48" x 72" 60" x 96" Custom Sizes on request

TUFFAK HYGARD BR750 Laminates



## BALLISTICS RATING

UL752 Level I MP5A 9mm  
H.P. WHITE TP0500.02 Level B Ballistics (9mm)

## Glazing Information

- Use of structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected Tuffak Hygard Laminate is recommended.
- Size Tuffak Hygard laminates to allow for a minimum of 1" 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.

## Cleaning Instructions

- Rinse with clean water to remove abrasive dust and dirt.
- Wash with soap or mild detergent using a sponge or soft cloth. Do not scrub.
- Rinse once more. Dry with soft cloth or chamois to prevent water spots.
- To remove labels, stickers, or grease, rub gently with a cloth wetting thoroughly in VM& P naphtha or isopropyl alcohol. Wash and rinse. Do NOT use razor blades, scrapers, or squeegees.

## Product Specification

TUFFAK HYGARD BR750 laminate:  
Two-ply, clear MAK ROLON polycarbonate sheet and acrylic sheet constructed as follows:

- 1/8" TUFFAK polycarbonate sheet with high AR abrasion-resistant surface
- Polyurethane bonding interlayer
- 1/2" Acrylic sheet
- Polyurethane bonding interlayer
- 1/8" TUFFAK polycarbonate sheet with high AR abrasion-resistant surface

Material shall have a flexural strength of at least 13,500 psi per ASTM D-790; and shall have AR (high performance abrasion-resistant) surfaces for enhanced service life and resistance to marring. Material shall exhibit a self ignition temperature of 1077°F and a flash ignition temperature of 872°F (ASTM D-1929), and conform with ICBO & BOCA Model Building Codes as a CC-1 rated Approved Light Transmitting Plastic.