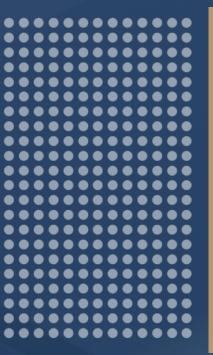
Product Selection & Installation Guide



WALSHIELD Ballistic Resistant Thermoplastic Composite Panels



UL 752 & NIJ STANDARDS FOR BALLISTIC RESISTANT PROTECTIVE MATERIALS								
UL Rating	NIJ Level	Ammunition	Velocity	No. Shots	Composite Panel	Nominal Thickness	Nominal Weight	
Level 3	Level III-A	.44 magnum lead semi-wadcutter gas checked	1350 ft/sec 411 m/sec	3	Thermoplastic Composite Panel Level 3	0.440 in 11.2 mm	3.9 lb/ft² 19.0 kg/m²	



WALSHIELD [™] Thermoplastic Composite Panels								
WIDTH	LENGTH	THICKNESS	COLOR					
48 in/122 cm	96 in/244 cm	0.44 in/11.2 mm	White, Grey, Black					

CUSTOMIZED PANEL SIZES AND COLORS AVAILABLE.

Product Selection & Installation Guide





INSTALLATION INSTRUCTIONS

Ballistic resistant panels from FSJ Tactical can be field-fabricated using simple installation methods and common carpentry tools. Proper installation is necessary to achieve optimum ballistic resistance.

- 1. Lay out the project to utilize the largest panel sizes to minimize the number of seams.
- 2. WALSHIELD[™] panels should be cut using a wood cutting blade with +/-45 degree teeth. Be sure to wear appropriate safety equipment including safety glasses and dust masks when fabricating.
- 3. Secure the panels to steel or wood framing by mechanically fastening with heavy-duty wallboard or lag screws.
- 4. When constructing walls, rest the initial course of panels firmly on the floor to avoid any unsupported panel weight on the wall framing.

- 5. Reinforce all panel seams with a minimum 4 inch (10.16 cm) batten of additional ballistic panel material. Position these batten strips to cover the seam and attach to both panels using appropriate wallboard screws.
- 6. Use overlapping butt joints when installing panels into corners.
- 7. Panels expand to absorb ballistic impact. When covering a sensitive substructure such as glass, shim the panels 3/8 inch (9.5 mm) to prevent impact shock damage.
- 8. Panels can be finished by covering with drywall, paneling, painting, or wall covering. Painting or wall covering will require the use of a suitable primer. When applicable, fire tests shall be performed on a finished wall system.





WALSHIELD[™] Thermoplastic Composite Panels are thermally formed with layers of 0°/90° unidirectional E-glass fiber reinforcements with polyolefin-based resin systems and are available for protection to UL 752 level 3. Additional protection against higher power ammunitions can be achieved by layering multiple panels; contact FSJ Tactical for information regarding your specific application.

USES AND APPLICATIONS

Ballistic resistant composite panels from FSJ Tactical are suitable for indoor and outdoor use in commercial, governmental, industrial, and residential applications:

- Military Structures
- Check Cashing
- Courtrooms
- Bonded Warehousing · Security Buildings
- Safe Rooms
- Infrastructure Facilities & Equipment
- Pawn Shops
- Police Stations
- Storm Shelters

- Banking
- Loan & Bail/Bond Offices
- Detention Facilities
- Equipment Storage
- · Judges' Chambers

