



## **PRODUCT INFORMATION BULLETIN**

### **INSTALLATION AND MAINTENANCE PROCEDURES FOR FIBERGLASS ARMOR/BALLISTIC PANELS**

**Fiber-Tech Fiberglass Ballistic Panels** have been used in a wide variety of applications in military, residential, commercial and industrial markets. They can be used in security walls, safe havens, safe rooms, panic rooms, and as a blast resistant protection barrier in walls and ceilings.

#### **A. PANEL INSTALLATION**

1. Ballistic Panels can be installed as wallboard and covered with drywall to provide unnoticeable intruder protection. They are extremely versatile and can be painted, taped and floated, textured, or used behind a standard gypsum drywall installation. Optional polyester gel coats can also be custom applied during Fiber-Tech proprietary manufacturing process.
2. Fiber-Tech Ballistic Panels can be cut and drilled using ordinary carpenter's tools. Cutting can be achieved by using traditional carpentry tools such as a circular, table, panel or saber saw. For best results a carbide "grit edge" or diamond blade should be used. For drilling holes, high speed carbide tipped twist drill bits should be used at slow speeds.
3. Fiberglass Ballistic panels installation can be easily accomplished by the use of adhesives, screws or bolts. Fiber-Tech's ballistic panels are manufactured with polyester resin and are compatible with most commercial/industrial adhesives. It is recommended that adhesives be tested on the panel and substrate prior to general installation to confirm proper compatibility and bond.
4. If you are bonding, laminating, or painting the fiberglass panels it is recommended you lightly sand the glossy resin finish.
5. To provide superior protection, butt joints require a minimum 4 inch wide batten strip backing of the same product to provide for 2 inches of overlap in both directions. This is necessary to provide uninterrupted wall or overhead protection. Unlike many manufacturers, Fiber-Tech is not limited to 4' x 8' dimensions. Ask about Fiber-Tech's capabilities to produce custom sizes which can reduce the required number of batten strips and therefore reduce the labor & material to properly install.
6. No fasteners should be tightened to the point that cracking of either panel surface (exterior or interior) develops.
7. For exterior applications where the panel will be exposed to extreme weather, all fasteners into and through the fiberglass reinforced panel (FRP) should be sealed to prevent moisture entry. Although water will not deteriorate the fiberglass panel, exposure to freeze/thaw cycles can cause minor surface checking.

## **B. INSTALLATION HEALTH & SAFETY PRECAUTIONS:**

1. As with all construction projects, proper safety protection is required. Fiber-Tech strongly recommends all applicable local, state, and federal guidelines be strictly followed. OSHA should always be consulted for specific job site requirements.
2. Cotton or leather gloves should be used to provide protection from cuts and abrasions associated with handling, drilling and cutting fiberglass materials.
3. Dust/particle masks or respirators provide protection against severe dust caused by drilling and cutting fiberglass panels.
4. Protective clothing should be worn to provide protection from fibrous dust.
5. Protective eye-wear should always be used when drilling and cutting any construction material.

## **C. LONG-TERM SAFETY PRECAUTIONS:**

1. If a panel has been exposed to gun fire, shrapnel, and/or explosive blasts to the panel, the panel should be thoroughly inspected. If any damage is found the panel should be replaced.
2. If you have any doubt the originally installed panel has been compromised, the panel should be replaced.

### **FOR YOUR PROTECTION**

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