GlasticShield™ Fabrication and Installation Instructions

PROTECTIVE WEAR

Gloves - cotton or leather gloves to provide protection from cuts and abrasions associated with handling, drilling or cutting fiberglass materials. Nitrile/Latex gloves can be worn under the cotton or leather gloves to prevent skin irritation.

Dust or Particle masks or respirators to provide respiratory protection against dust generated during cutting or drilling of fiberglass materials. OSHA's Respiratory Protection Standard 29 CFR 1910.134 should be followed.

Safety Glasses with sideshields should be used for all operations.

General Protective Wear to be worn over clothing to provide protection from dust that can settle in the clothing or on the skin.
A polymeric coated apron or other body covering should is recommended when regular work clothing can become e covered with the fiberglass dust. All dirty clothing can be cleaned using standard methods, and should be cleaned before reuse.

The above listed items should be worn if workers will be cutting, sanding or drilling GlasticShield materials.

Ventilation – Circulating fans or dust collection equipment are useful in reducing localized airborne dust. Dust collection that can be attached directly to the saw/cutting device is best. Ordinary woodworking dust collection can be used.
Dust from the fabrication of panels can be disposed of by ordinary means.

Fabrication and Installation:

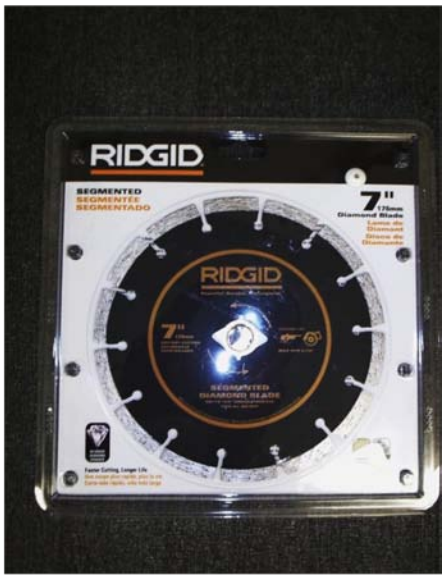
GlasticShield composite panels can be cut and drilled using ordinary carpenter's tools.

Drilling:
GlasticShield panels can be drilled using high speed drills at low speeds for low volume drilling. For larger volume hole drilling, or drilling of thick panels, a cobalt or carbide tipped drill should be used.

Fastening GlasticShield panels may be attached using self-tapping drywall screws. When attaching a panel to a stud wall on which drywall will be the exterior surface, first use enough screws to hold the GlasticShield panel in place. Then finish with a complete screw pattern through the drywall to the studs when hanging the drywall over the GlasticShield panels.

Pre-drilling holes will be necessary for panels over 1" in thickness. Countersink holes may also be necessary when applying a covering other than drywall over the GlasticShield panels.

Of course common bolts or similar fasteners can also be used when fastening to metal studs or metal supports, but a counter-bore or countersink hole may be necessary.

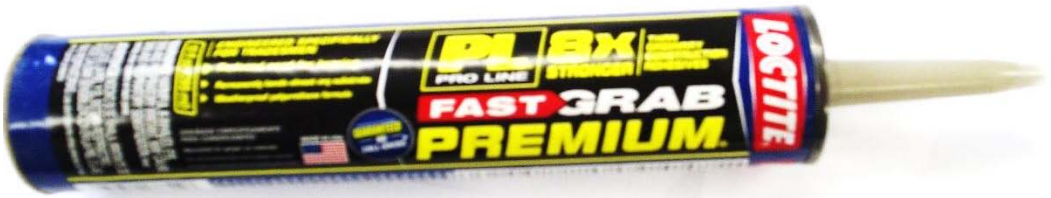


Cutting:

GlasticShield panels can be cut with a diamond coated blade, such as the 7” Ridgid segmented diamond blade (from Home Depot or builder supply shops) for low volume cutting or a 7” diameter 40 grit diamond blade (from the Diamond Blade Warehouse or Continental Diamond Tool and others) for thicker panels. Large volume cutting or a desire for faster cutting, require diamond grit blades. A reciprocating saw with diamond grit blades can be used for panel cutouts.

Adhesives:

GlasticShield panels can also be attached with the use of adhesives. One product available is Loctite PLPremium Polyurethane Construction Adhesive from Home Depot.



For stronger adhesion of panels to one another or to aluminum and steel, use methacrylate based adhesive such as those from ITW Plexus.

Lightly sanding or abrading the GlasticShield surface that is to be bonded will improve the bond strength regardless of the adhesive used.

Painting:

GlasticShield panels are not intended for long term UV exposure. The GlasticShield panels can be painted with a UV resistant paint that can withstand the local weather elements.

Enclosure or Wall Construction:

When constructing a wall or enclosure, care must be taken to ensure that panel butt-joints are overlapped with backing strips so that the ballistic protection is not compromised. For typical wall installations, a minimum of 4” wide backing strips of the same level GlasticShield material should be used at the panel butt-joints to provide a minimal 2” overlap from one panel to the adjacent panel. The GlasticShield backing strips should be attached directly to the panels and used where any vertical or horizontal joints occur.

Backing strips can be cut from larger panels or purchased from Rochling Glastic. .

All panel cutout holes or electrical box cutouts should be backed with a strip of the same level GlasticShield material. The backing strip should be large enough to provide protection from angle shots.

Unlike typical drywall installations, adjoining GlasticShield panels between the studs allows the GlasticShield backing strips to be attached without the need to space the wall out further.

Distributed and Fabricated by:

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