

SAFEBOARD™

THE PROFESSIONAL'S CHOICE

SAFEBOARD® BCP (BALLISTIC COMPOSITE PANEL)

INSTALLATION INSTRUCTIONS AND CONSIDERATIONS



Before Getting Started - Health & Safety Precautions:

SAFEBOARD® BCP panels are classified as Laminated FRP (Fiber Reinforced Plastic) products. It is important for installers of Fiberglass products to be properly supplied with the basic health and safety information and personal protective equipment, such as:

1. MSDS for SAFEBOARD® BCP products
2. Gloves- cotton or leather gloves to provide protection from cuts and abrasions associated with handling, drilling or cutting fiberglass materials. Nitrile/Latex gloves can also be used to prevent skin irritation due to fiberglass, but provide little cut or abrasion protection. Cotton gloves should have PVC black dots to provide adhesion (grip) to the panels.
3. Dust/Particle masks or respirators to provide respiratory protection against dust associated with cutting or drilling fiberglass materials. Refer to OSHA regulation Part 29 CFR 1910.134 for proper fit and use of respirators.
4. Protective eyewear, especially when cutting sanding or drilling fiberglass materials. Refer to OSHA regulation Part 29 CFR 1910.133 for proper selection and fit of safety glasses, goggles and face shields.
5. Protective Wear to be worn over clothing to provide protection from fibrous dust that can settle in the clothing or on the skin when cutting, sanding or drilling fiberglass materials.
6. Ventilation – Mechanical fans or dust collection equipment are useful in reducing dust irritation. If fans are used, always place the person between the fan and the panel being machined so that any dust produced will be forced away from personnel.

Introduction:

The following recommendations are designed to assist in the installation of SAFEBOARD® BCP bullet resistant fiberglass panels, as well as to preserve the ballistic protection the panels are designed to provide. Different elements of working with the product are addressed, in addition to some tips to consider when ordering the product.

Fastening and Drilling:

SAFEBOARD® BCP 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, simply use enough screws to hold the panel to the studs, then come back with a complete screw pattern to the studs when hanging the drywall on top. If a different appliqué is to be used over the SAFEBOARD® BCP panels and a flush surface is required, a counter-sink hole may be used before adding the screws. Panels up to 1-1/8" and thicker may require pre-drilling the fastener holes to prevent the screw heads from breaking, as well as to facilitate the installation. It is recommended that you use a carbide or cobalt tip drill bit at medium speed with medium pressure. Low carbon (high-speed steel) bits may be used, but will typically have a shorter lifespan.

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Panel Sizes and Cutting:

SAFEBOARD® BCP panels can be manufactured in custom sizes based on request and order size. SAFEBOARD® BCP panels can be cut with a diamond-grit blade, such as ProRai. For electrical boxes and other small openings, a diamond grit blade (available through most builder's supply in the ceramic tile section) on a reciprocating saw should be sufficient. In addition to wearing protective clothing, a fan can be placed behind the cutting area to help blow away fiberglass particles.

SAFEBOARD® BCP panels can be used without treatment when placed with in a wall. If SAFEBOARD® BCP panels will be a decorative surface, then the following methods can be used:

Peel Ply/ Cleaning/ Sanding:

A clean surface free of grit and oily residue is required prior to gluing or painting SAFEBOARD® BCP panels. One method to achieve this finish is known as "peel ply." Customers can request a peel ply layer to be applied in the manufacturing process. This thin extra layer is removed in the field immediately prior to working with the product. This leaves a clean, very slightly textured finish ready for treatment. Cleaning the panel can also be accomplished by wiping the surface with Acetone. Minimize the amount of time the panel is exposed to solvent, avoiding soaking. Sanding is another means of preparation. 120-grit sandpaper at medium pressure can be used to lightly "roughen-up" the surface.

Adhesives and Laminating:

SAFEBOARD® BCP panels can also be attached with the use of adhesives. SAFEBOARD® recommends the use of SAFEBOND Hybrid adhesive to bond BCP panels to substrates. Reach out to a SAFEBOARD® representative for more information about purchasing and using SAFEBOND Hybrid Adhesive.

Painting:

Once SAFEBOARD® BCP panels have been prepared with one of the above methods, they can be painted with either an oil or water-based paint. An automotive urethane works well as a "high-end" solution. For any external application that requires panels to be exposed to the elements, a paint with a UV inhibitor should be used to protect the product from long-term UV ray exposure.

Wall Assembly:

For typical wall and millwork installations, a 4" wide batten strip of the same level material should be specified at the butt-joints to provide a minimal 2" overlap from one panel to the next, or each side of the joint. Batten strips can be cut in the field from raw panels. The SAFEBOARD® BCP batten strips can be attached directly to the panels and should be used where any vertical or horizontal joints occur. Battens are not required where a 90° corner occurs, in which case a panel should simply overlap to the next panel at the corner (see diagram). By having the panel joints between the studs, the battens can be attached without pushing out the wall further. In the case of electrical cut-outs, an additional 12" high piece of the same level of SAFEBOARD® BCP material may be installed from the stud-to-stud, as close as possible to the hole.



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