

ShotBLOCKER™

Suggested Panel Fabrication and Installation Guide

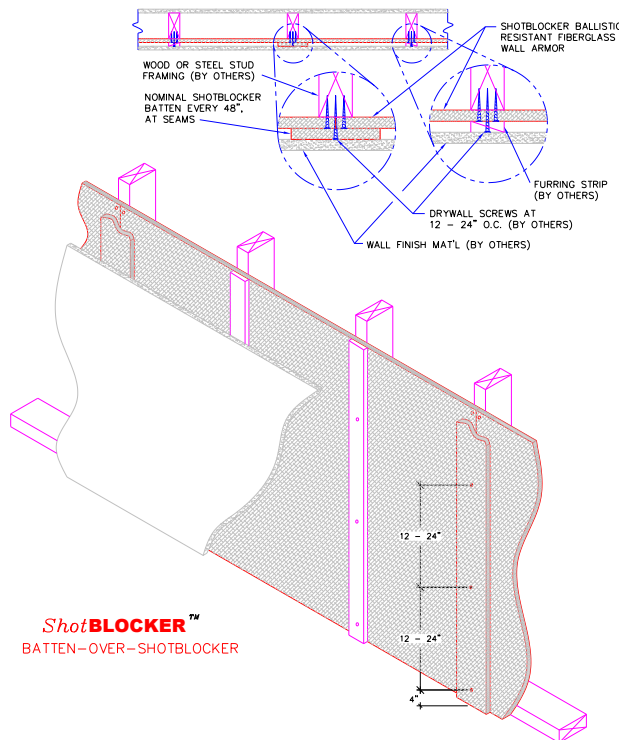
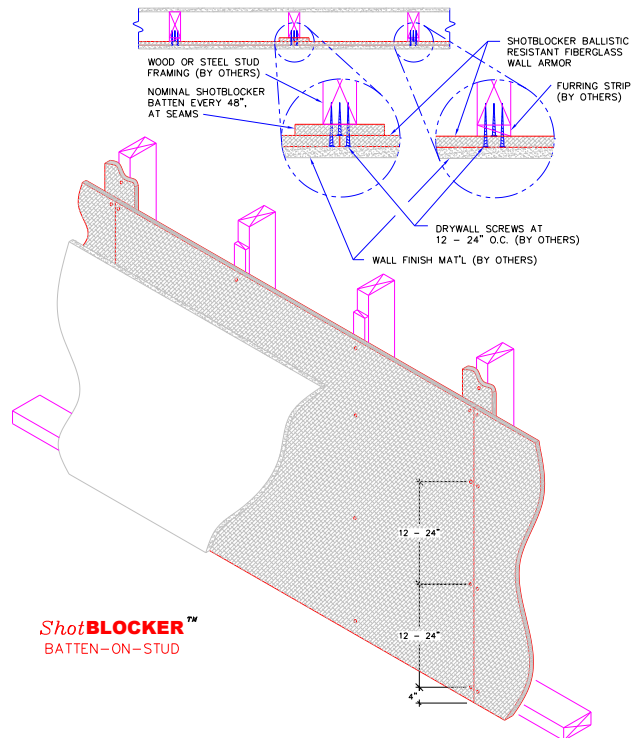
Installation:

It is recommended that holes be pre-drilled in **ShotBlocker** panels, to a diameter slightly larger than the screw shank, in order to facilitate hanging on stud walls. The screws should be placed every 12-24" and should be of sufficient length to anchor firmly in the stud. Butt joints require a 4 inch wide strip backing of the same product to provide for 2 inches of overlap in both directions. This backing strip can be applied in front of or behind the butt joint. Butt joints are weak ballistic areas and therefore require this backing strip protection.

Outside edges/corners of assembled furniture may also be re-inforced with interior 2" backing strips to increase security.

The Norplex-Micarta **ShotBlocker** panels should not be bonded to plaster board, gypsum board, plaster, concrete, and similar materials because their internal strength is not sufficient for the application. However, sheet rock/dry wall or other wall coverings can be bonded to **ShotBlocker** with a suitable construction adhesive.

As always, appropriate personal protective equipment (safety glasses, clothing, etc.) should be used. Material Safety Data Sheets (MSDS) are available upon request.



Cutting:

A diamond impregnated wheel with copper body 1/16" thick and 12" diameter run at 3000-3600 rpm will give good results cutting dry with a good exhaust system. The material is fed by hand into the saw as fast as it will cut without forcing the saw. Idling creates friction and heat, which causes excessive dulling and burning. If possible, a flood of water on the work and wheel can be used to prevent overheating. Circular saw cutting requires a carbide abrasive disc blade.

Drilling:

High speed twist drill bits should be used with drill spindle speed of 4800 rpm (1/4" diameter drills). The materials can be drilled dry with a good exhaust system to remove dust. High speed, titanium nitride treated, drill bits can be used for longer life.

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Adhesives:

If decorative laminate is to be bonded to the surface, a water-based or solvent-based contact adhesive is recommended. Contact adhesives should be uniformly applied to both surfaces to be bonded by a brush, sprayer, or paint roller. Brush application is the least desirable method because of the difficulty in obtaining a uniform application. The adhesive manufacturer's recommendations should be followed for optimum performance. Other adhesives include resorcinol, two part epoxy adhesives, and urethane adhesives. These adhesives can be used in either hot or room temperature bonding operations. The **ShotBlocker™** panel surface should be wiped with a clean cloth and non-oily solvent prior to bonding to remove any oil and/or dirt on the surface.

LIMITED WARRANTY:

Seller warrants that products sold hereunder shall be of merchantable quality and shall conform in all material respects to seller's standard specifications shown on the Specification Sheets provided by Norplex-Micarta. Buyer assumes all risk as to the results of the use of the products purchased, whether used singly or in combination with other materials or in any process.

DISCLAIMERS AND LIMITATION OF LIABILITY:

At Seller's option, Seller will replace products which do not comply with the warranty without additional charge or, upon return of the products at seller's expense, refund the purchase price.

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