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Technical Information  
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# M Bloc<sup>®</sup> Shaft Liner with Mold & Moisture Resistance

## DESCRIPTION

American Gypsum's 1" M-Bloc Shaft Liner gypsum panels treated with AzoTech™ fungicide, consist of a fire-resistant type X core that is encased in a purple, mold and moisture resistant, 100 percent face and back paper. The face paper is folded around the long edges to reinforce and protect the core. The panels feature a double beveled edge for ease of installation, with the ends being square-cut and finished smooth. M-Bloc Shaft Liner panels are available: 1" thick x 2' wide, and in a variety of lengths.

At an independent laboratory, certified in accordance with ISO 17025-2005, M-Bloc was tested per ASTM D 3273 (Standard Test Method for Resistance to Growth of Mold on the Resistance Surface of Interior Coatings in an Environmental Chamber), scoring a 10 on the face paper and back paper, the best possible score, thus minimizing the risk of mold and mildew growth.

Products manufactured by American Gypsum contain no asbestos. AzoTech™ is a trademark of a Syngenta Group Company.

## GREENGUARD CERTIFIED



1" M-Bloc Shaft Liner gypsum panels have attained the GREENGUARD Indoor Air Quality Certified<sup>®</sup> and the GREENGUARD Children & Schools Indoor Air Quality Certified<sup>SM</sup> status.

The GREENGUARD INDOOR AIR QUALITY CERTIFIED Mark is a registered certification mark used license through the GREENGUARD Environmental Institute.

## BASIC USES

M-Bloc Shaft Liner panels are used in conjunction with other American Gypsum products and metal framing members for Shaftwall and Area Separation Wall systems. M-Bloc Shaft Liner may be substituted for American Gypsum's standard 1" Shaft Liner panels. Lightweight non-load bearing gypsum Shaftwall systems have replaced traditional masonry for interior vertical enclosures including stairwells, elevator enclosures and mechanical chases.

American Gypsum's M-Bloc Shaft Liner has been approved for use in the following assemblies:

U 375	2 Hour H-Stud Area Separation Wall System
V 455	1 & 2 Hour Shaftwall Systems using I, C-H and C-T Studs
U 428	2 Hour Shaftwall System using C-H and C-T Studs
U 429	2 Hour Area Separation Wall System using C-H and C-T Studs
V 433	2 Hour Shaftwall System using I-Studs

## LIMITATIONS

The use of 1" M-Bloc Shaft Liner panels in actual jobsite conditions may not produce the same mold resistant results as were achieved in a controlled laboratory setting. While no material can or should be considered mold proof, the use of good design and construction practices is the most effective strategy to manage the growth of mold and mildew.

Used in non-load bearing systems.

Not to be used in an unlined air supply duct.

Limiting heights and deflection criteria for the system should be based upon the metal stud manufacturer's recommendations.

Provide flexible sealant/caulk at partition perimeters and penetrations to avoid air leakage/whistling and dust collection.

Framing must be spaced no more than 24" o/c.

Avoid exposure to temperatures exceeding 125°F (52°C) for extended periods of time, e.g., located adjacent to wood burning stoves and or heating appliances.

## STORAGE AND HANDLING

Gypsum board does not generate or support the growth of mold when it is properly transported, stored, handled, installed, and maintained. However, mold spores are present everywhere and when conditions are favorable; mold can grow on practically any surface. GYPSUM BOARD MUST BE KEPT DRY to prevent the growth of mold.

Gypsum board must be stored in an area that protects it from adverse weather conditions, condensation, and other forms of moisture. Job site conditions that can expose gypsum board to water or moisture must be avoided.

Gypsum board must be protected during transit with a weather-tight cover in good condition. Plastic shipping bags are intended to provide protection during transit only and must be promptly removed upon arrival of the load. Failure to remove the shipping bag can increase the likelihood of developing conditions favorable to the growth of mold.

Gypsum board that has visible mold growth must not be used. For additional information, refer to Gypsum Association publication, "Guidelines for the Prevention of Mold Growth on Gypsum Wallboard" (GA-238).

Gypsum board must be stored off the ground and under protective cover. Sufficient risers must be used to assure support for the entire length of the wallboard to prevent sagging.

Gypsum board must be delivered to the job site as near to the time it will be used as possible. Individuals delivering gypsum board to jobsites should ensure that it is carried, not dragged, to place of storage/installation to prevent damage to finished edges.

Gypsum board shall always be stacked flat - NEVER on edge or end. Gypsum board stacked on edge or end is unstable and presents a serious hazard should it accidentally topple. Gypsum board should be placed so weight is evenly distributed and the floor is not overloaded.

**GOOD BUILDING PRACTICES**

**Installation** – Installation of 1" M-Bloc Shaft Liner panels shall be consistent with specified application details for Shaftwall or Area Separation Wall systems. The assembly must be erected in the proper manner and with all approved components used in a successfully completed fire endurance test. The contractor, design professional and or owner shall ensure that only the components that were a part of the approved test are used; do not substitute components.

Handling and application shall be consistent with methods described in the noted standards and references indicated below. The design professional has the ultimate responsibility for location of control joints.

**APPLICABLE STANDARDS**

<b>Mold Resistance</b>	10 (ASTM D 3273)
<b>Manufacturing</b>	ASTM C 1396 section 6 (C 442) Federal Specification – SS-L-30D Type IV Grade X
<b>Installation</b>	ASTM C 840 Gypsum Association GA-216
<b>Surface Burning Characteristics</b>	ASTM E 84 Flame Spread 15 Smoke Developed 0

**PRODUCT DATA**

**SIZES**

Thickness	Widths	Lengths	Edge Type	UL Type
1" (25.4mm)	2' (610mm)	8' - 14' (2438mm – 4267mm)	Double Beveled	AG-S

Special lengths or edges may be available on special order. Consult your American Gypsum sales representative for details.

**Thermal Resistance "R" Value** 1" = 0.73

**FIRE RESISTANCE RATINGS**

Desired fire rated assemblies are specified from tests performed by independent laboratories. These designs are made up of specific materials in a precise configuration. When choosing construction designs to meet certain fire resistance requirements, vigilance must be taken to insure that each component of the selected assembly is the one specified in the test and are assembled in accordance with the requirements of the assembly.

**SUBMITTAL APPROVALS**

Job Name: \_\_\_\_\_

Contractor: \_\_\_\_\_

Date: \_\_\_\_\_