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Technical Information
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M-Bloc® Type C with Mold Resistance

M-Bloc® TYPE C
 MOLD RESISTANT
 AMERICAN GYPSUM
 Made in the USA
 AMERICAN GYPSUM
 Panel tipo C resistente al moho

DESCRIPTION

M-Bloc® Type C interior gypsum panels treated with AzoTech™ fungicide were developed as an improved mold resistant wallboard, with additional properties to enhance the core of this type X wallboard to achieve superior performance when used in specific fire rated assemblies. M-Bloc® Type C interior gypsum panels consist of a fire and mold resistant core encased in 100% recycled paper, purple on the face side and sturdy liner paper on the back side.

At an independent laboratory, certified in accordance with ISO 17025-2005, M-Bloc Type C panels have been tested to the industry's most rigorous standards achieving the best results possible. Per ASTM G 21 the panels attained a 0 and ASTM D 3273 scored a perfect 10, 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



M-Bloc Type C interior gypsum panels have attained the GREENGUARD Indoor Air Quality Certified® and the GREENGUARD Children & Schools Indoor Air Quality CertifiedSM status.

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

BASIC USES

M-Bloc Type C interior gypsum panels are used as a covering material for interior walls and ceilings in residential and commercial applications that often require specific fire rated assemblies. M-Bloc Type C interior gypsum panels can be used throughout a project as well as the adhesive application of ceramic or plastic tile in limited wet areas, e.g., bathrooms, kitchens, laundry, and utility rooms. These panels can be finished the same as regular gypsum wallboard and they accept a wide variety of attractive finishes. With joints covered, M-Bloc Type C interior gypsum panels will resist the passage of smoke. For additional information on smoke barriers, refer to Gypsum Association publication, "Building and Inspecting Smoke Barriers" (GA-618).

LIMITATIONS

The use of M-Bloc Type C interior gypsum panels in actual job site 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.

M-Bloc Type C interior gypsum panels are intended for interior applications only and is a nonstructural product that should not be used as a nailing base.

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

When M-Bloc Type C interior gypsum panels are applied to ceilings, please follow the framing instructions found below.

Resilient channels are not recommended where tile or similar finish is to be applied to panel.

Avoid exposure to excessive or continuous moisture before, during and after installation, e.g., swimming pools, saunas or steam rooms. Eliminate any sources of moisture immediately.

On wall applications, maintain a gap of 1/4" between the bottom edges or ends of the panels and floors, or any other horizontal surface where water could accumulate.

Spacing of wall or ceiling framing should not exceed the recommendations below:

MAXIMUM SPACING OF FRAMING (WOOD OR METAL)			
	Single Ply Thickness	Application	Maximum Framing O/C Spacing
Ceilings	1/2" or 5/8"	Parallel to Framing Perpendicular to Framing	16"o/c
	1/2" or 5/8"		24"o/c
Walls	1/2" or 5/8"	Parallel or Perpendicular to Framing	24"o/c

To prevent noticeable sag in ceilings, the weight of overlaid unsupported insulation should not exceed the following recommendations:

FRAMING	PRODUCT	PSF (LBS. PER S/F) OF INSULATION
24"o/c	1/2" M-Bloc Type C	1.3 (6.3 kg/M²)
16"o/c	1/2" M-Bloc Type C	2.2 (10.7 kg/M²)
24"o/c	5/8" M-Bloc Type C	2.2 (10.7 kg/M²)

Insulation blankets or batts should be recessed, with flanges attached or friction fitted to the sides of the studs or joists.

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. Adequate ventilation shall be provided to prevent condensation.

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 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 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 – M-Bloc® Type C interior gypsum panels shall be installed in accordance with the recent editions of "Application and Finishing of Gypsum Panel Products" (GA-216) and "Standard Specification for Application and Finishing of Gypsum Board" (ASTM C 840). The building temperature shall be maintained at not less than 50°F (10°C) for adhesive application of gypsum board, during joint treatment, texturing, and decoration. When a temporary heat source is used the temperature shall not be more than 95°F (35°C) in any given room or area. Adequate and continuous ventilation shall be provided in the working area during the installation and the drying or curing period.

The design professional has the ultimate responsibility for location of control joints.

Decoration - The design professional, contractor and or owner shall review "Recommended Levels of Gypsum Board Finish" (GA-214), in order to specify the proper level of drywall finishing needed to assure the desired results. For best painting results, all surfaces, including joint compound, should be clean, dust-free and not glossy. To equalize the porosities between the face paper and joint compound and improve fastener and joint concealment, the surface shall be primed and sealed with a full-bodied high solids drywall primer before texturing or final decoration. The selection of the proper paint to give the specified or desired finished characteristics is the responsibility of the design professional, contractor and or owner.

APPLICABLE STANDARDS

Mold Resistance	Score of 0 (ASTM G 21) Score of 10 (ASTM D 3273)
Manufacturing	ASTM C 1396 Federal Specification – SS-L-30D Type III and Type VII, Grade X
Installation	ASTM C 840 Gypsum Association GA-216 Gypsum Association GA-214
Surface Burning Characteristics	ASTM E 84 Flame Spread 15 Smoke Developed 0

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.

PRODUCT DATA

SIZES

Thickness	Widths	Lengths	Edge Type	UL Types
1/2" (12.7mm)	4' (1219mm)	12' (3658mm)	Tapered	AG-C
5/8" (15.9mm)	4' (1219mm)	8'-12' (2438mm - 3658mm)	Tapered	AG-C

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

Thermal Resistance "R" Value	1/2" = 0.50 5/8" = 0.61
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SUBMITTAL APPROVALS

Job Name: _____

Contractor: _____ **Date:** _____