

Submittal 09 29 00



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M Bloc® 5/8" Type X

WITH MOLD & MOISTURE RESISTANCE

DESCRIPTION

M-Bloc® Type X interior gypsum panels treated with AzoTech™ fungicide were developed as an improved moisture resistant wall-board, with added mold resistance in the core and paper. M-Bloc® Type X interior gypsum panels consist of a fire, mold and moisture resistant core encased in 100% recycled paper. Additionally the core has been reinforced with fibers, increasing its strength and providing fire resistance ratings when used in tested assemblies.

At an independent laboratory, certified in accordance with ISO 17025-2005, M-Bloc 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.

American Gypsum products contain no asbestos and no detectable levels of formaldehyde. AzoTech™ is a trademark of a Syngenta Group Company.

GREENGUARD CERTIFIED FROM UL ENVIRONMENT

M-Bloc Type X interior gypsum panels have achieved UL Environment's GREENGUARD GOLD Certification. GREENGUARD Certified products are scientifically proven to meet some of the world's most rigorous, third-party chemical emissions standards, helping reduce indoor air pollution and the risk of chemical exposure while aiding in the creation of healthier indoor environments. For more information, visit www.ul.com/gg.

BASIC USES

M-Bloc Type X interior gypsum panels are a lightweight cost efficient interior wall or ceiling panel for use in new construction or renovation work. M-Bloc 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. M-Bloc Type X 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 X gypsum wallboard 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 X 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 X interior gypsum panels are a nonstructural product intended for interior applications only, and 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 X 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.

Not to be used in areas with direct exposure to water or continuous high humidity, e.g., tiled tub and shower surrounds, saunas, steam rooms, gang showers or indoor swimming pools. Eliminate sources of moisture immediately.

M-Bloc Type X interior gypsum panels that is to receive tile or other surfacing which may act as a vapor retarder shall not have a vapor retarder placed behind the panel. A single layer of asphalt impregnated felt, #15 or less, applied as part of the wall system, shall not be considered a vapor retarder.

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.

MAXIMUM SPACING OF FRAMING (WOOD OR METAL)			
	SINGLE PLY THICKNESS	APPLICATION	MAXIMUM FRAMING O/C SPACING
CEILING	5/8"	Parallel to Framing	16" o/c
	5/8"	Perpendicular to Framing	24" o/c
WALLS	5/8"	Parallel to 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	5/8" M-Bloc Type X	2.2 (10.7 kg/M ²)

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. 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 should not be exposed to elevated levels of moisture for extended periods. Examples of elevated levels of moisture include, but are not limited to, exposure to rain, condensation, water leakage, and standing water. Some board exposed to these conditions may not need to be replaced, depending upon the source of the moisture and the condition of the gypsum board being considered for replacement.

STORAGE AND HANDLING "continued"

When gypsum board is exposed to elevated levels of moisture, an assessment of the potential damage to the gypsum board must be made by the contractor/design professional/owner as to whether board exposed to these conditions must be replaced. Gypsum wallboard may experience limited intermittent exposure to moisture from a variety of sources, such as improper storage, construction or design defects, water leaks, etc. Gypsum board exposed to water should be replaced unless all of the following conditions are met.

1. The source of the water or moisture is identified and eliminated.
2. The water or moisture to which the gypsum board was exposed was uncontaminated.
3. The gypsum board can be dried thoroughly before mold growth begins (typically 24 to 48 hours depending on environmental conditions).
4. The gypsum board is structurally sound and there is no evidence of rusting fasteners or physical damage that would diminish the physical properties of the gypsum board or system.

Below are the general recommendations for drying out gypsum wallboard once exposed to moisture:

- The source of water or moisture must be eliminated.
- Adequate ventilation, air circulation, and drying are essential to minimize the potential for mold or other fungal growth. Fans should be used to increase air movement.
- The interior of the building must be thoroughly dried immediately.
- The indoor humidity can be lowered by using fans and portable dehumidification equipment and by opening up the building when the outside air is drier than the air inside the structure.
- Damaged gypsum board and other wet materials that are to be replaced must be removed from the building to facilitate drying.
- Closets, cabinets, and doors between rooms should be opened to enhance circulation of air.
- For more detailed information, a water damage restoration specialist should be contacted.

IMPORTANT - IF THERE IS EVER A DOUBT ABOUT WHETHER TO KEEP OR REPLACE GYPSUM BOARD THAT HAS BEEN EXPOSED TO MOISTURE - REPLACE IT.

CAUTION: When replacing gypsum board in a fire resistance or sound rated systems, care must be taken to ensure that all repairs are consistent with the specific fire or sound rated design initially constructed (gypsum board type, fasteners and their spacing, and staggered joints).

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 X shall be installed in accordance with the recent editions of "Application and Finishing of Gypsum Panel Products" (GA-216) and or "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)
	Water Absorption	<5% (ASTM 1396)
	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 0 Smoke Developed 0
	Permeability	27 (ASTM E 96)

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

Special lengths or edges may be available on special order. Consult your American Gypsum sales representative for details.
Thermal Resistance "R" Value 5/8" = 0.61