



Substitution Request 5/8" M-Bloc® Type X Abuse Resistant

Pre-Bid

After Bid

Project:

Substitution Request #:

From:

Date:

To:

A/E Project Number:

Contract For:

Specification Title:

Description:

Section:

Page:

Article/Paragraph:

Proposed Substitution: **5/8" M-Bloc® Type X Abuse Resistant**

Manufacturer: **American Gypsum Company, LLC** Phone: **(866) 439-5800**

Address: **5960 Berkshire Lane, Ste 800, Dallas TX, 75219**

Installer: Address:

Phone: Email:

History: New Product 2-5 Years 5-10 Years 10+ Years

Differences between proposed substitution and specified product:

Reason for not providing specified item:

Similar Installation:

Project: Architect:

Address: Owner:

Date Installed:

Proposed substitution affects other parts of work:

No Yes, Explain

Supporting Data Attached:

Drawings Product Data Samples Tests Reports Other

The undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to the specified product.
 - The same warranty will be furnished for the proposed substitution as for the specified product.
 - The same maintenance service and source of replacement parts, as applicable, is available.
 - The proposed solution will have no adverse effect on other trades and will not affect or delay the progress schedule.
 - The proposed substitution does not affect dimensions and functional clearances.
 - Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.
-

Submitted By:

Signature:

Firm Name:

Address:

Phone:

Attachments:

A/E's Review and Action:

Substitution Approved – Make Submittals in accordance with Division 1 Section: Substitutions.

Substitution Approved as Noted – Make submittals in accordance with Division 1 Section:
Substitutions.

Substitution Rejected – Use specified materials.

Substitution Request Received Too Late – Use specified materials.

Signed By:

Date:

Additional Comments:

Contractor Subcontractor Supplier Manufacturer A/E Other

Upon Completion Return To:

Name:

Address:

Phone:

Fax:

Email:

Submittal 09 29 00



American Gypsum
5960 Berkshire Ln., #800
Dallas, TX 75225
214-530-5500
www.americangypsum.com

Technical Information
1-800-545-6302 ext. 5607

M-Bloc[®] AR 5/8" Type X

ABUSE RESISTANT WITH MOLD & MOISTURE RESISTANCE

DESCRIPTION

M-Bloc[®] AR Type X interior gypsum panels were designed and tested to not only provide exceptional resistance to mold and moisture, but superior resistance to abrasion, abuse and indentation when compared to traditional wallboard. This Type X panel consist of an abuse defiant core encased in heavy abrasion, mold and moisture resistant blue face paper and brown back paper manufactured from 100% recycled paper. At an independent laboratory accredited in accordance with ISO 17025-2005, M-Bloc panels have been tested to the industry's most rigorous standard achieving the best possible results per ASTM D3273, scoring a perfect 10 thus minimizing the risk of mold and mildew growth.

M-Bloc AR Type X interior gypsum panels are recommended for commercial and institutional construction where greater resistance to abrasion, abuse and indentation are required. These UL classified panels are allowed for use in any fire rated design where American Gypsum's 5/8" Type X wallboard is approved. American Gypsum products contain no asbestos and no detectable levels of formaldehyde.

GREENGUARD CERTIFIED FROM UL ENVIRONMENT

M-Bloc AR 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 AR Type X panels can be used throughout a project, being finished the same as regular gypsum wallboard while accepting a wide variety of attractive finishes. Additionally M-Bloc AR Type X panels can be used as a base for the adhesive application of ceramic or plastic tile in limited wet areas, e.g., bathrooms, kitchens, laundry, and utility rooms. With joints covered, M-Bloc AR 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 AR 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.

Avoid exposure to temperatures exceeding 125°F (52°C) for extended periods of time.

For optimal performance M-Bloc AR Type X panels shall be installed over or attached to framing members meeting a minimum mil thickness of 0.0312". Framing members are spaced a maximum of 16" o/c.

Not to be used in areas with direct exposure to water or continuous high humidity, tiled tub and shower areas, saunas, steam rooms, gang showers or indoor swimming pools.

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

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.

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.

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.

STORAGE AND HANDLING “continued”

- 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 AR 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 listed abrasion/abuse/indentation ratings apply to walls constructed with M-Bloc AR Type X gypsum wallboard installed over or attached to framing members meeting a design thickness of 0.0296”. Framing members are spaced a maximum of 16” o/c.

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 10 (ASTM D 3273)
Manufacturing	ASTM C 1396
Installation	ASTM C 840 Gypsum Association GA-216 Gypsum Association GA-214
Abrasion Resistance	Level 3 (ASTM C 1629)
Indentation Resistance	Level 1 (ASTM C 1629)
Soft Body Impact Resistance	Level 2 (ASTM C 1629)
Hard Body Impact Resistance	Level 1 (ASTM C 1629)
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', 10', 12' (2438mm, 3048mm, 3658mm)	Tapered	AGX-1; AGX-11

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

SUBMITTAL APPROVALS

Job Name: _____

Contractor: _____ **Date:** _____