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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 consists 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, e.g., tiled tub and shower surrounds, 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.
- 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 (gyypsum 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.

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 0.0312”. Framing members are spaced a maximum of 16” o/c.

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

**GOOD BUILDING PRACTICES**

**Mold Resistance**
- Score of 10 (ASTM D 3273)

**Manufacturing**
- ASTM C 1396
- Federal Specification – SS-L-30D Type III Grade X

**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)

**APPLICABLE STANDARDS**

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.

**FIRE RESISTANCE RATINGS**

**PRODUCT DATA**

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Widths</th>
<th>Lengths</th>
<th>Edge Type</th>
<th>UL Types</th>
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</thead>
<tbody>
<tr>
<td>5/8” (15.9mm)</td>
<td>4’ (1219mm)</td>
<td>8’,10’,12’ (2438mm, 3048mm, 3658mm)</td>
<td>Tapered</td>
<td>AGX-1; AGX-11</td>
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</tbody>
</table>

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