
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 06 16 43



**AMERICAN
GYPSUM**

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SHAFT LINER WITH MOLD & MOISTURE RESISTANCE

DESCRIPTION

M-Glass Shaft Liner panels consist of a fire-resistant type X gypsum core that is encased in a moisture and mold resistant glass mat fabric. The panels feature a double beveled edge for ease of installation, with the ends being square-cut and finished smooth. M-Glass Shaft Liner panels are available: 1" thick x 2' wide, and in a variety of lengths.

American Gypsum products contain no asbestos and no detectable levels of formaldehyde.

GREENGUARD CERTIFIED FROM UL ENVIRONMENT

M-Glass Shaft Liner 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-Glass Shaft Liner panels are UL Classified (UL Type - M-Glass) and used in conjunction with other American Gypsum products and metal framing members for Shaftwall and Area Separation Wall systems. 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-Glass Shaft Liner panels have been approved for use in the following fire rated 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

American Gypsum's M-Glass Shaft Liner is manufactured to meet or exceed the requirements of ASTM C1658/C1396, and was developed for and is backed by a limited warranty for exposure up to 12 months under normal weather conditions on commercial and residential projects.

MOLD & MOISTURE RESISTANCE

M-Glass Shaft Liner panels have been developed with enhanced mold and moisture resistant technology and at an independent laboratory, certified in accordance with ISO 17025-2005 has been tested to the industry's most rigorous standards. When tested per ASTM D 3273, M-Glass Exterior Sheathing scored a perfect 10, thus minimizing the risk of mold and mildew growth.

The use of M-Glass Shaft Liner panels in actual job site conditions may not produce the same mold and moisture 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 including avoiding water exposure during all phases of the project (i.e. - storage, handling, shipping, and installation) is the most effective strategy to manage the growth of mold and mildew.

LIMITATIONS

Exposure to excessive or continuous moisture and extreme temperatures should be avoided during delivery, storage, handling and installation. Eliminate sources of moisture immediately.

While M-Glass Shaft Liner panels offers additional resistance to weather, it is not intended for constant exposure to water. Protect this and all comparable materials from the eroding effects of cascading water.

Do not allow standing water to remain on or in contact with M-Glass Shaft Liner panels.

M-Glass Shaft Liner panels shall be sheltered from the elements and maintained in good condition prior to installation. Panels shall be stacked flat with care taken to prevent sagging or damage to edges, ends and surfaces. Following its installation, the building/structure must be adequately maintained by the contractor and/or building owner.

All design details such as fasteners, sealants, etc., per system requirements or specified by the design professional, must be installed properly. Failure to do so will void the warranty offered by American Gypsum Company.

Used in non-load bearing systems. Not to be used in an unlined air supply duct. Framing must be spaced no more than 24" o/c.

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

Panels should not come in direct contact with concrete, masonry or other surfaces that have high moisture content.

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

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

M-Glass Shaft Liner panels do 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. The panels must be stored off the ground and in an area that offers protection from adverse weather conditions, condensation, and other forms of moisture. Sufficient risers must be used to assure support for the entire length of the wallboard to prevent sagging. M-Glass Shaft Liner panels shall always be stacked flat - NEVER on edge or end. Panels stacked on edge or end is unstable and presents a serious hazard should it accidentally topple. Care must be taken so weight is evenly distributed and floors are not overloaded.

STORAGE AND HANDLING

Material 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.

M-Glass Shaft Liner 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).

GOOD BUILDING PRACTICES

Installation – The installation of 1" M-Glass 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.

APPLICABLE STANDARDS

Mold Resistance	Score of 10 (ASTM D 3273)
Water Absorption	<10 (ASTM C1177, section 5.2.5)
Manufacturing	ASTM C1658, C1396
Surface Burning Characteristics	ASTM E 84
	Flame Spread 0
	Smoke Developed 0
Combustibility	Non-Combustible (ASTM E 136)

PRODUCT DATA

Thickness	Widths	Lengths	Edge Type	UL Type
1" (25.4mm)	2' (610mm)	8' - 12' (2438mm- 3658mm)	Double Beveled	M-Glass

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:
