

Submittal 09 29 00



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Technical Information
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FireBloc® 45 Gypsum Wallboard

DESCRIPTION

1/2" FireBloc® 45 gypsum wallboard is manufactured with additional properties to enhance the core and allow superior performance to resist the passage of fire, and has achieved a 45 minute fire rating on wood stud walls (per ASTM E119). FireBloc 45 panels are designed for use in wall and ceiling applications and approved to be applied parallel or perpendicular to ceiling framing spaced up to 24" o/c, even when a hand applied or water based texture is used for decoration. This fire-resistant gypsum core is encased in 100% recycled natural-finish paper on the face side and sturdy liner paper on the back.

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

GREENGUARD CERTIFIED FROM UL ENVIRONMENTAL

FireBloc 45 gypsum wallboard has 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

1/2" FireBloc 45 gypsum wallboard is designed for interior walls or ceilings in new construction or renovation projects and may be attached to wood or metal framing by the use of screws, nails or adhesive. Some benefits of selecting FireBloc 45 include:

- This panel achieved a 45 minute fire rating per ASTM E119 when applied on wood framed partition walls spaced not more than 16" o/c.
- FireBloc 45 is also designed for use in non-fire rated wall and ceiling applications which are spaced no more than 24" o/c and is approved to be applied parallel or perpendicular to ceiling framing spaced up to 24" o/c, even when a hand applied or water based texture is used for decoration.
- With joints covered, FireBloc 45 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

- 1/2" FireBloc 45 gypsum wallboard is intended for interior applications only.
- Ceiling insulation weight shall not exceed 2.2 lbs. per s/f.
- Spacing of ceiling or non-fire rated wall framing shall not exceed 24" o/c.
- Excessive or continuous moisture before, during and after installation, e.g., swimming pools, suanas or steam rooms are to be avoided.
- Eliminate any sources of moisture immediately.
- Avoid exposure to temperatures exceeding 125°F (52°C), e.g., located adjacent to wood burning stoves and or heating appliances.
- FireBloc 45 drywall panels are a nonstructural product and shall not be used as a nailing base.

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.

GYPSON BOARD MUST BE KEPT DRY to prevent the growth of mold, and 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 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 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 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.

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).

45 FIREBLOC® 45

AMERICAN GYPSUM

Made in the USA

AMERICAN GYPSUM

Panel tipo para interiores

GOOD BUILDING PRACTICES

Requirements for a 45 Minute Fire Rated Wall Partition

Item	American Gypsum
Spacing of wood studs	16" o/c
Application of wallboard	Horizontal or Vertical
Fasteners	1 1/4" Type W Screws or 1 3/8" Drywall Nails
Spacing of fasteners	12" o/c
Finishing of joints	Paper tape and two (2) coats of joint compound
Insulation	Optional, but approved
Resilient Furring Channels	Optional, but when used they are spaced a maximum of 16" o/c and panels are attached with 1" screws spaced 12" o/c

Ceiling Application (single layer)

Maximum Spacing of Ceiling Framing	Approved Application Method (with or without water based texture)	Maximum Weight of Insulation
24" o/c	Parallel or Perpendicular	2.2 psf

NOTE: Per IRC 2015 Building Codes, a garage ceiling will require a minimum 5/8" Type X wallboard if a habitable area is above the garage space (Table R302.6)

Application – Gypsum board shall be installed per ASTM C840 and or GA-216. The design professional has the ultimate responsibility for location of control joints.

Decoration - The design professional, contractor and/or owner shall review Gypsum Association's document, "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 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

Manufacturing	ASTM C 1396 section 12 (C 36) Federal Specification SS-L-30D Type III Type X
Installation	ASTM C 840 Gypsum Association GA-216 Gypsum Association GA-214
Fire Resistance	ASTM E119 (WFCi 15142r1)
Surface Burning Characteristics	ASTM E 84 Flame Spread 0 Smoke Developed 0
Noncombustible	ASTM E 136

PRODUCT DATA

Thickness	Widths	Lengths	Edge Type
1/2" (12.7mm)	4' (1219mm)	12' (3658mm)	Tapered

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

SUBMITTAL APPROVALS

Job Name:

Contractor:

Date:
