GOLD BOND® BRAND THERMALFOIL® GYPSUM BOARD



MANUFACTURER

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DESCRIPTION

Gold Bond® BRAND ThermalFOIL® Gypsum Board is a specialty gypsum board that is laminated with a perforated foil-backing that was developed to provide R-value to the interior of an exterior wall assembly when installed as part of a complete exterior wall system. When combined with closed cell spray polyurethane foam insulation and a defined air space, the ThermaFOIL Gypsum Board acts as part of a reflective insulated air space, enabling builders to meet 2012 and 2015 energy codes while saving on the high cost of full cavity spray foam of "flash and batt" systems, which require extra time and labor. ("Flash and batt" is a hybrid insulation approach which combines fiberglass insulation and closedcell spray foam.)

BASIC USES

ThermalFOIL Gypsum Board can be used for the interior of exterior walls in non-fire rated single layer construction where framing members are spaced up to 16" o.c.

ADVANTAGES

- Installs like regular gypsum board while offering a defined R-value system.
- Saves time and labor versus the two step "flash & batt" methods.
- · Saves cost over completely filling the cavity with closed cell spray foam.
- Enables the builder or homeowner to still run wire or pipes through the cavity after wall is completed.
- Excellent working properties including score/snap, reduced dust and improved strength-toweight ratio.
- Enables builders to meet the 2012 and 2015 International Energy Code while still using 2x4 wood construction (for most climate zones.)
- GridMarX® guide marks are printed on the paper surface allowing the installer to quickly identify fastener lines for stud framing. GridMarX also assists with quick identification of nail/screw patterns.

GREENGUARD CERTIFIED

ThermalFOIL Gypsum Board has achieved GREENGUARD GOLD certification.



LIMITATIONS

- Not recommended for high moisture areas such as saunas, steam rooms or gang showers.
- Prime with latex primer and allow to dry thoroughly before decoration.
- Should not be used as a vapor barrier.
- Minimum defined air space must be an average of 3/4" in depth.

COMPOSITION & MATERIALS

ThermalFOIL Gypsum Board is a manufactured panel with a gypsum core encased in paper and contains no asbestos. It has a laminated foil backing with perforations in the foil.

ACCESSORIES

- Fasteners: drywall screws, nails or adhesives
- ProForm Joint Tape
- ProForm Ready Mix or ProForm Quick Set/Quick Set Lite Setting Compound
- Furring channels
- E-Z Strip control joints or .093 zinc control joints

Job Name	
Contractor	Date

Submittal Approvals: (Stamps or Signatures)

TECHNICAL DATA

PHYSICAL PROPERTIES	
Thickness, nominal	1/2" Regular (12.7 mm)
Width, nominal	4' (1219 mm)
Length, standard	8' (2438 mm) 12' (3657 mm)
Weight, lbs./sq.ft., nominal	1/2" Regular 1.3 – 1.4
Edges	Tapered
Surface Burning Characteristics (per ASTM E 84)	Flame Spread: 0 Smoke Developed: 10

APPLICABLE STANDARDS AND REFERENCES	
ASTM C 1396	
ASTM C 840	
ASTM C 1224	
Gypsum Association GA-216	
Gypsum Association GA-214	
International Code Council Acceptance Criteria 02	
Federal Specification SS-L-30D Type III (Grade R)	
National Gypsum Company, Gypsum Construction Guide	



INSTALLATION

RECOMMENDATIONS

Once framing and exterior sheathing is installed, 2 lb. closed cell spray polyurethane foam is sprayed to the average depth needed to meet code (minus the R-value of the ThermalFOIL + air space.) This can be determined using the ThermalFOIL and SPUF (Spray Polyurethane Foam) R-value.

Regardless of brand or type of SPUF installed, the installer should refer to the manufacturer's instructions on how to properly install the SPUF. Check to make sure all edges of the cavity are sealed by the SPUF and that a consistent air space depth is maintained across all cavities.

Once the SPUF has been installed (refer to specific SPUF manufacturer for direction), ThermalFOIL can be installed.

ThermalFOIL Gypsum Board is then installed in accordance with Gypsum Association document GA-216 or National Gypsum Company's Gypsum Construction Guide.

Any foil area that is significantly scuffed, scraped or gouged should be discarded or repaired using foil tape prior to the board being fastened to the wall to preserve the low emittance qualities of the foil surface.

Any openings such as outlets and switches should be sealed using pads or caulk to minimize air flow.

ThermalFOIL is not intended to act as a vapor barrier. It is also not for use in areas other than the interior of exterior wall assemblies.

SAFETY

Foil is an electrical conductor and if it comes in contact with exposed wiring can lead to shock. All electrical wiring and wired connections should always be installed by a professional electrician, and must conform to all applicable building codes including containment within appropriate electrical boxes to avoid contact with the foil surface. All electrical trim-out that occurs after ThermalFOIL is installed should be done so as to avoid contact with the foil-backed surfaces of the gypsum board.

DECORATION

For best painting results, all surfaces, including joint compound, should be clean, dust-free and not glossy. To improve fastener and joint concealment, a coat of a quality primer is recommended to equalize the porosities between surface paper and joint compound. Drywall primer is a product specially formulated for this purpose.

The selection of a paint to give the specified or desired finished characteristics is the responsibility of the architect or contractor.

ThermalFOIL Gypsum Board that is to have a wallcovering applied to it should be prepared and primed as described for painting.

Gypsum Association GA-214, Recommended Specification for Levels of Gypsum Board Finish, should be referred to in order to determine the level of finishing needed to assure a surface properly prepared to accept the desired decoration.



