Substitution Request

Select One:

Project:

Substitution Request Number:

From:

To:

Date:

A/E Project Number:

Owner:

Specification Title:

Description:

Section:

Page:

Article/Paragraph:

Proposed Substitution: **Gypsum Board**

Manufacturer: **National Gypsum Company**

Address: **2001 Rexford Rd., Charlotte, NC 28211** Phone: **1-800-628-4662**

Trade Name and Model No: Select one:

Installer:

Address:

Phone:

History: ☒ **More than 10 Years old**

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**

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 specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- 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:

National Gypsum®

Send Via Email | Print Form

GOLD BOND® BRAND FIRE-SHIELD® GYPSUM BOARD

MANUFACTURER

National Gypsum Company
2001 Rexford Road
Charlotte, NC 28211
(704) 365-7300

Technical Information:
1-800-NATIONAL
(1-800-628-4662)

Fax: 1-800-FAX NGC1
(1-800-329-6421)

Internet Home Page:
nationalgypsum.com
nationalgypsum.com/espanol

09 29 00/NGC BuyLine: 1100

DESCRIPTION

Gold Bond® BRAND Fire-Shield® Gypsum Board panels consist of a fire-resistant gypsum core encased in heavy natural-finish, 100% recycled paper on the face and back sides. The face paper is folded around the long edges to reinforce and protect the core, and the ends are square-cut and finished smooth. For speed of installation, GridMarX® guide marks are printed on the paper surface.

Long edges of the panels are tapered or square. Tapered edges allow joints to be reinforced with ProForm® BRAND Joint Tape and concealed with ProForm® BRAND Ready Mix or ProForm® BRAND Quick Set Setting Joint Compounds.

Fire-Shield Gypsum Board features a Type X core to provide additional fire resistance ratings when used in laboratory tested systems.

Gold Bond® BRAND Fire-Shield® C Gypsum Board panels have a specially formulated Type X core to achieve superior performance when used in specific fire-rated Type C assemblies.

BASIC USES

1/2" Fire-Shield C - For single- or multi-layer drywall construction for fire tested assemblies. Also used as a roofing substrate.

5/8" Fire-Shield - For single- or multi-layer drywall construction. The greater thickness provides increased resistance to fire and reduced sound transmission.

5/8" Fire-Shield C - For single- or multi-layer drywall construction. The specially formulated Type X core achieves superior performance when used in specific assemblies.

ADVANTAGES

- Lightweight, cost-efficient material that readily accepts a wide range of decorative finishes.
- Gypsum Board is easily cut for quick installation, permitting painting or other decoration and the installation of metal or wood trim almost immediately.
- The gypsum core will not support combustion or transmit temperatures greatly in excess of 212°F (100°C) until completely calcined, a slow process.
- Expansion and contraction under normal atmospheric changes is negligible.

GREENGUARD CERTIFIED

Fire-Shield Gypsum Board is GREEN-GUARD Children & Schools℠ Certified for indoor air quality.

LIMITATIONS

- Exposure to excessive or continuous moisture and extreme temperatures should be avoided. Gypsum Board is not recommended where it will be exposed to temperatures exceeding 125°F (52°C) for extended periods of time.
- To prevent objectionable sag in gypsum paneled ceilings, the weight of overlaid unsupported insulation should not exceed the following recommendations:

PSF (lbs./sq.ft.)	Type	Frame Spacing
1.3 (6.3 kg/M²)	1/2" Fire-Shield C	24" o.c.
2.2 (10.7 kg/M²)	1/2" Fire-Shield C	16" o.c.
2.2 (10.7 kg/M²)	5.8" Fire-Shield 5/8" Fire-Shield C	24" o.c.

- Installing Fire-Shield Gypsum Board panels over an insulating blanket, installed continuously across the face of the framing members, is not recommended. Blankets should be recessed and flanges attached to the sides of the studs or joists.
- Fire-Shield Gypsum Board must be stored off the ground and under cover. Sufficient risers must be used to assure support for the entire length of the gypsum board to prevent sagging.
- Fire-Shield Gypsum Board must be kept dry to minimize the potential for mold growth. Adequate care should be taken while transporting, storing, applying and maintaining gypsum board. For additional information, refer to the Gypsum Association publication, *"Guidelines for the Prevention of Mold Growth on Gypsum Board"* (GA-238-03, which is available at www.gypsum.org under the "Download Free Gypsum Association Publications" section.

Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

COMPOSITION & MATERIALS

Fire-Shield Gypsum Board is a manufactured panel with a Type X gypsum core encased with paper. Fire-Shield core gypsum board also contains various aggregates such as fiberglass to enhance the fire resistive qualities. Fire-Shield Gypsum Board contains no asbestos.

ACCESSORIES

- Fasteners: drywall screws, nails and/or adhesives
- ProForm Fiberglass Mesh Tape
- ProForm Joint Tape
- Cornerbead, casing beads
- ProForm Ready Mix or Pro-Form Quick Set/Quick Set Lite Setting Compound
- E-Z Strip control joints or .093 zinc control joints

TECHNICAL DATA

PHYSICAL PROPERTIES

Thickness, nominal	1/2" Type C (12.7 mm) 5/8" Type X or C (15.9 mm)
Width, nominal*	4' (1219 mm)
Length, standard	6' through 16' (1829-4877 mm)
Weight, lbs./sq.ft., nominal	1/2" Type C - 1.9 5/8" Type X - 2.2 5/8" Type C - 2.4
Edges	Square or Tapered
Surface Burning Characteristics (per ASTM E 84)	Flame Spread: 15 Smoke Developed: 0

**54" wide Gypsum Board available in 5/8" thickness*

APPLICABLE STANDARDS AND REFERENCES

ASTM C 1396
ASTM C 840
Gypsum Association GA-216
Gypsum Association GA-214
National Gypsum Company, *Gypsum Construction Guide*

FIRE RESISTANT RATINGS

Fire resistance ratings represent the results of tests on assemblies made up of specific materials in a specific configuration. When selecting construction designs to meet certain fire resistance requirements, caution must be used to insure that each component of the assembly is the one specified in the test. Further, precaution should be taken that assembly procedures are in accordance with those of the tested assembly. (For copies of specific tests, call 1-800-NATIONAL.)

UL CORE DESIGNATION

1/2″ Fire-Shield C - FSW C
5/8″ Fire-Shield - FSW
5/8" Fire-Shield C - FSW C

INSTALLATION

RECOMMENDATIONS

Installation of Fire-Shield Gypsum Board should be consistent with the methods described in the standards and references noted.

GRIDMARX®

Fire-Shield Gypsum Board comes standard with GridMarX® guide marks, printed on the paper surface. These guide marks align with standard building dimensions and help to quickly identify fastener lines for stud and joist framing. Using GridMarX, accurate cuts can be made without having to draw lines. The use of GridMarX also provides quick identification and uniform nail/screw patterns.

GridMarX guide marks run the machine direction of the board at five points in 4″ increments. Marks run along the edge in both tapers and at 16″, 24″ and 32″ in the field of the board. The marks cover easily with no bleed-through using standard paint products.

Vertical Application - In a vertical application, GridMarX serve as a **guide mark** to help identify the exact location of framing members behind the gypsum board eliminating the need for field applied vertical lines.

Horizontal Application - In a horizontal application, GridMarX serve as a **reference mark** to help identify the location of framing members behind the gypsum board. (If framing member is located 2″ to the right of the GridMarX at the top edge of the board, it will be located 2″ to the right down the face of the 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.

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

Fire-Shield 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.

National Gypsum®