

Gold Bond® BRAND SoundBreak® XP® Gypsum Board

National Gypsum Company

Drop In Specification Language

(Specifier Note: The purpose of this guide specification language is to assist the Specifier in correctly specifying acoustically enhanced gypsum board products and their installation. The Specifier needs to edit these guide specifications to fit the needs of each specific project. Contact National Gypsum Company to assist in appropriate product selections.

*The language provided is not adequate as a complete stand-alone specification section. It is recommended to include the necessary language in each of the 3-Parts of **Section 09 21 16 - Gypsum Board Assemblies** or **Section 09 29 00 Gypsum Board**. Provided article numbering is for navigating this document only. Added language should be incorporated into the appropriate article heading of the Section.*

Gold Bond® BRAND SoundBreak® XP® Gypsum Board is an acoustically enhanced gypsum board for use in single or multi-layered wall assemblies where sound transmission is a concern. The ½ or 5/8-inch thick gypsum board consists of a layer of viscoelastic damping polymer sandwiched between two gypsum cores each encased in a heavy, abrasion and mold, mildew and moisture resistant paper.

Specifier Notes (italicized red text) have been provided to assist in editing the information for inclusion in a specification section. [Bold text] indicates a selection is required. Text in the brackets may not be the only options available, but are recommended or common selections.)

PART 1 - GENERAL

1.1 SUBMITTALS

(Specifier Note: GREENGUARD certification is optional, visit www.greenguard.org for program information. DELETE paragraph and sub-paragraphs below if not project specific.)

A. GREENGUARD Submittal:

(Specifier Note: Products that have achieved GREENGUARD Children and Schools Certification meet stricter emission guidelines than those with GREENGUARD Indoor Air Quality Certification. GREENGUARD Children and Schools Certification also meet CHPS Low-Emitting Materials.)

1. Product Certificate for GREENGUARD Children & Schools: For products and materials required to comply with requirements for minimum chemical emissions.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

(Specifier Note: INCLUDE Fire-Resistance Rating statement when paneling is a component of a rated assembly.)

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.

(Specifier Note: STC is dependent on the construction of the wall assembly, COORDINATE with drawings. Refer to National Gypsum Co. product information for wall assembly and Acoustical Selector Guide for assistance in correctly selecting, drawing and specifying.)

- B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

2.2 SPECIALTY GYPSUM BOARD

A. Acoustically Enhanced Gypsum Board:

(Specifier Note: Maintain brand name when proprietary specification is acceptable. Use generic term when project must be competitively bid. CONFIRM product requirements and characteristics prior to listing products of other manufacturers.)

1. Basis-of-Design Product: Subject to compliance with requirements, provide National Gypsum Company; Gold Bond® BRAND SoundBreak® XP® Gypsum Board.

(Specifier Note: SELECT 5/8 inch option below for fire rated assemblies.)

2. Thickness: **[1/2 inch][5/8 inch, Type X]**
 - a. Inner layer: viscoelastic damping polymer
 - b. Outer layer: enhanced high density mold-resistant gypsum board
3. Long Edges: Tapered
4. Mold Resistance:
 - a. ASTM D 3273, score of 10.
 - b. ASTM G21, score of 0.

(Specifier Note: DELETE paragraph below if environmental requirement is not project specific.)

5. Environmental Requirements: Provide products that comply with testing and product requirements for low emitting materials.

2.3 ACCESSORIES

(Specifier Note: Acoustical sealant and firestopping putty packs may be specified in other sections, COORDINATE location of information so that it is not duplicated. National Gypsum Co. recommends the products indicated; other products that conform to the reference standards may be acceptable.)

A. Acoustical Joint Sealant: ASTM C 919. Product effectively reduces airborne sound transmission through perimeter joints and openings as demonstrated by testing according to ASTM E 90.

1. Basis-of-Design Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Accumetric LLC; BOSS 824 Acoustical Sound Sealant.
 - b. Grabber Construction Products; Acoustical Sealant GSC.
 - c. Specified Technologies, Inc.; SpecSeal Smoke N Sound Caulk.

B. Firestopping: ASTM E 90.

1. Basis-of-Design Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Accumetric LLC; BOSS 818 Fire Rated Putty Pads.
 - b. Specified Technologies, Inc.; SpecSeal SSP Putty Pads.

PART 3 - EXECUTION

3.1 ACOUSTICALLY ENHANCED GYPSUM BOARD INSTALLATION

- A. General: Install in accordance with manufacturer recommendations and GA-214.

(Specifier Note: EDIT installation requirements dependent on wall construction assembly. DELETE specification language that is not project specific.)

- B. Single Layer - 2x4 wood stud construction *(non-rated, STC 53)*

(Specifier Note: To achieve indicated STC rating, studs must be installed at 24 inches on center maximum with 3-1/2 inch glass fiber insulation in the stud cavity. COORDINATE spacing of wood framing, and inclusion of glass-fiber insulation with the related drawings and specification sections.)

1. Apply one layer of acoustically enhanced gypsum board vertically to each side of wood studs, using 1-1/4 inch Type W screws, 12 inches on center.
2. Provide 1/4 inch gap between acoustically enhanced gypsum board perimeter edge and dissimilar materials.
3. Seal perimeter gap[**and penetrations**] with acoustical sealant.

- C. Single Layer - 2x4 wood stud construction *(1 hour-rated, Load Bearing; STC 53)*

(Specifier Note: To achieve indicated ratings, studs must be installed at 24 inches on center maximum with 3-1/2 inch glass fiber insulation in the stud cavity. COORDINATE spacing of wood framing, and inclusion of glass-fiber insulation with the related drawings and specification sections. Wall assembly is based on UL U309.)

1. Apply one layer of 5/8 inch acoustically enhanced gypsum board vertically to each side of wood studs, using 1-1/4 inch Type W screws, 12 inches on center.
2. Apply paper tape and joint compound at all joints.
3. Cover all screw heads with compound.

- D. Unbalanced Staggered – 2x4 wood stud construction *(1 hour-rated; STC 60)*

(Specifier Note: To achieve indicated ratings, staggered studs must be installed at 16 inches on center with 2-1/2 inch glass fiber insulation in the stud cavity. Acoustically enhanced gypsum board can be used as either a face layer or a base layer without affecting the STC rating. COORDINATE spacing of wood framing, and inclusion of glass-fiber insulation if required, with the related drawings and specification sections. Wall assembly is based on GA WP3514.)

1. Apply base layer of 5/8 inch fire resistant rated gypsum board vertically to one side of staggered 2 x 4 wood studs, on 2x6 plates using 1-1/4 inch type W screws, 12 inches on center.
2. Apply face layer of 5/8 inch acoustically enhanced gypsum board using 2 inch type W screws, 16 inches on center. Stagger vertical joints 16 inches on center each layer.
3. Apply one layer of 5/8 inch fire resistant rated gypsum board vertically to opposite side of wood studs using 1-1/4 inch type W screws 12 inches on center. Stagger vertical joints 16 inches.

- E. H-Stud Area Separation Wall - wood stud construction *(2 hour-rated; STC 67)*

(Specifier Note: To achieve indicated ratings, studs must be installed at 16 inches on center with 3-1/2 inch glass fiber insulation in the both of the stud cavities. Wall assembly is based on UL U347.)

1. Insert two layers of 1 inch fire resistant rated shaft liner into 2 inch H-studs spaced 24 inches on center.
2. Provide a minimum 3/4 inch air space between shaft liner and adjacent construction.
3. Apply one layer of 5/8 inch of acoustically enhanced gypsum board vertically to each outside face of wood studs, using 1-1/4 inch Type W screws, 12 inches on center.

F. Single Layer - 3-5/8 inch metal stud construction (1 hour-rated, Nonbearing; STC 54)

(Specifier Note: To achieve indicated ratings, studs must be installed at 24 inches on center maximum, with 3-1/2 inch glass fiber insulation in the stud cavity. COORDINATE spacing of metal framing, and inclusion of glass-fiber insulation with the related drawings and specification sections. Wall assembly is based on UL U465)

1. Apply one layer of 5/8 inch acoustically enhanced gypsum board vertically to one side of metal studs using 1-inch Type S screws, 8 inches on center at perimeter and 12 inches on center in the field.
2. Apply one layer 5/8 inch fire resistant rated gypsum board vertically to opposite side of metal studs using 1 inch type S screws 8 inches on center at perimeter and 12 inches on center in the field. Stagger joints on opposite side of wall assembly.
3. Apply paper tape and joint compound at all tapered joints.
4. Cover all screw heads with compound.

G. Unbalanced - 3-5/8 inch metal stud construction (1-hour-rated, Nonbearing; STC 57)

(Specifier Note: To achieve indicated ratings, studs must be installed at 24 inches on center maximum, with 3-1/2 inch glass fiber insulation in the stud cavity. COORDINATE spacing of metal framing, and inclusion of glass-fiber insulation with the related drawings and specification sections. Wall assembly is based on UL U465.)

1. Apply base layer of 5/8 inch acoustically enhanced gypsum board vertically to one side of metal studs using 1-inch type S screws, 24 inches on center.
2. Apply face layer of 5/8 inch fire resistant rated gypsum board vertically using 1-5/8 inch Type S screws, 12 inches on center.
3. Apply one layer of 5/8 inch fire resistant rated gypsum board vertically to opposite side of metal studs using 1-inch Type S screws, 12 inches on center.
4. Stagger all vertical joints 24 inches.
5. Apply paper tape and joint compound at all tapered joints.
6. Cover all screw heads with compound.

H. Double Layer - **[3-5/8 inch metal stud construction (1 hour-rated; STC 60)] OR [6 inch metal stud construction (1 hour-rated; STC 61)]**

(Specifier Note: To achieve indicated ratings, studs must be installed at 24 inches on center with 3-1/2 inch or 6-inch glass fiber insulation in the stud cavity. COORDINATE spacing of metal framing, and inclusion of glass-fiber insulation with the related drawings and specification sections. Wall assembly is based on UL V484.)

1. Apply base layer of 5/8 inch acoustically enhanced gypsum board vertically to one side of metal studs using 1-inch Type S screws, 24 inches on center.
2. Apply face layer of 5/8 inch fire resistant rated gypsum board vertically using 1-5/8 inch type S screws, 12 inches on center.
3. Apply two layers of 5/8 inch fire resistant rated gypsum board vertically to opposite side, using 1-inch type S screws, 24 inches on center for base layer and 1-5/8 inch type S screws, 12 inches on center for face layer .
4. Stagger all vertical joints 24 inches.

(Specifier Note: SELECT single layer construction for a one hour-rating OR double layer construction for a 2 hour-rating. SELECT corresponding options in paragraph and sub-paragraphs below.)

I. [Unbalanced Layer – 2-1/2 inch double metal stud construction (1 hour-rated, Nonbearing; STC59)

(Specifier Note: To achieve indicated ratings, studs must be installed at 24 inches on center maximum, with 3 inch glass fiber insulation in the stud cavity. Acoustically enhanced gypsum board can be used as either a face layer or a base layer without affecting the STC rating. COORDINATE spacing of metal framing, and inclusion of glass-fiber insulation with the related drawings and specification sections. Wall assembly is based on UL V488.)

1. Apply base layer of 5/8 inch acoustically enhanced gypsum board vertically to one side of metal studs, using 1-inch Type S screws, 8 inches on center at perimeter and 12 inches on center in the field.
2. Apply face layer of 5/8 inch fire resistant rated gypsum board vertically using 1-5/8 inch Type S screws, 12 inches on center, offset 8 inches from first layer.
3. Apply one layer of 5/8 inch fire resistant rated gypsum board vertically to opposite side of metal studs, using 1-inch Type S screws, 8 inches on center at perimeter and 12 inches on center in the field.
4. Stagger vertical joints on opposite sides.
5. Cover all screw heads with compound.

[DISCLAIMER:](#)

National Gypsum Company Guide Specifications have been written as an aid to the professionally qualified specifier and design professional. The use of this information requires the professional judgment and expertise of the qualified specifier and design professional to adapt the information to the specific needs of the building Owner and the project; to coordinate with the design professional's construction document process, and to meet the applicable building codes, regulations and laws. National Gypsum disclaims any warranty, expressed or implied, including the warranty of fitness for a particular purpose of the product for a project.

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