

SECTION 09 29 00 - GYPSUM BOARD

Specifier Note | 3-Part Specification:

The purpose of this guide specification language is to assist the specifier in correctly specifying 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.

National Gypsum Company is the exclusive service provider of products manufactured by Gold Bond Building Products, LLC; PermaBASE Building Products, LLC and ProForm Finishing Products, LLC.

Specifier Notes included in boxes like this are included to provide assistance in selecting appropriate text for inclusion in specification. **[Bold text]** indicates a selection is required. Text in the brackets may not be the only options available but are recommended or common selections.

Once the specification has been written, these "Specifier Notes" should be deleted or hidden.

DISCLAIMER:

Gold Bond Building Products, LLC; PermaBASE Building Products, LLC and ProForm Finishing Products, LLC. 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. Gold Bond Building Products, LLC; PermaBASE Building Products, LLC and ProForm Finishing Products, LLC 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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PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes

1. Paper faced gypsum board.
2. Mold, mildew, moisture resistant paper faced gypsum board.
3. Fiberglass mat faced gypsum board.
4. Cement board.
5. Texture finishes.
6. Accessories.
7. Trim.
8. Joint tape.
9. Joint compounds.

1.2 REFERENCES

A. American National Standards Institute (ANSI):

1. ANSI A108 Interior Installation of Cementitious Backer Units.

B. ASTM International (ASTM):

1. ASTM C475/C475M Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
2. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
3. ASTM C919 Standard Practice for Use of Sealants in Acoustical Applications.
4. ASTM C1002 Standard Specifications for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
5. ASTM C1178/C1178M Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel.
6. ASTM C1325 Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units.
7. ASTM C1396/C1396M Standard Specification for Gypsum Board.
8. ASTM C1629/C1629M Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels.
9. ASTM C1658/C1658M Standard Specification for Glass Mat Gypsum Panels.
10. ASTM C1766 Standard Specification for Factory-Laminated Gypsum Panel.
11. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
12. ASTM E814 Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
13. ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.

C. Gypsum Association (GA):

1. GA-214 Recommended Levels of Gypsum Board Finish.
2. GA-216 Application and Finishing of Gypsum Panel Products.

1.3 ACTION SUBMITTALS

A. Product Data:

1. Each type of gypsum product.
2. Cementitious board.
3. Texture finishes.
4. Trim accessories.

B. Samples

1. Textured Finishes: Apply to gypsum board, 4 by 6 inches (101.6 by 152.4 mm).
2. Trim Accessories: 12-inch (304.8 mm) length of trim.

C. Sustainable Design Submittals.

1.4 CLOSEOUT SUBMITTALS

- A. Sustainable Design Closeout Requirements.

PART 2 - PRODUCTS

Drawings | Make certain partition types indicate which type of gypsum board is used and where it is used if more than one type is specified.

2.1 PAPER FACED GYPSUM BOARD

- A. Gypsum Board, Regular Core, ASTM C1396/C1396M.
 - 1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® Gypsum Board is regular board for use in interior, non-rated wall and ceiling applications only. 1/4 inch (6.4 mm) board intended for use over existing wall and ceiling surfaces and forming curved surfaces. 3/8 inch (9.5 mm) board intended for use in repair and remodel applications. Available with tapered or square edges.

- a. Gold Bond® Gypsum Board.

Specifier Note | Gold Bond® High Strength LITE® Gypsum Board has a higher flexural strength than Gold Bond® Gypsum Board and is for use in interior, non-rated wall and ceiling applications with stud and joist spacing up to 24 inches (610 mm) on center. Available in 1/2 inch (12.7 mm) with tapered or square edges.

- b. Gold Bond® High Strength LITE® Gypsum Board.

Specifier Note | Gold Bond® High Flex® Gypsum Board is designed for curved walls, arches and vaulted ceilings in both convex and concave surfaces. 2 layers are recommended. Available with tapered or square edges. Available with tapered edges only and is 1/2 inch (12.7 mm) thick.

- c. Gold Bond® High Flex® Gypsum Board.
 - 2. Thickness: [1/4 inch (6.4 mm)][3/8 inch (9.5 mm)][1/2 inch (12.7 mm)].
 - 3. Core: Regular.
 - 4. Edges: [Tapered][Square].
 - 5. Sustainability: GREENGUARD [Gold] Certified.
- B. Gypsum Board, Fire-Resistant Core: ASTM C1396/C1396M.
 - 1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® Fire-Shield® Gypsum Board is available in 5/8 inch (15.9 mm) thickness with a Type X core board. Gold Bond® Fire-Shield C™ Gypsum Board is available in 1/2 inch (12.7 mm) and 5/8 inch (15.9 mm) with a Type C core. All types are for use on interior, rated wall and ceiling applications with stud or joist spacing up to 24 inches (610 mm) on center. Available with tapered or square edges.

- a. Gold Bond® Fire-Shield® Gypsum Board.
- b. 1/2" Gold Bond® Fire-Shield C™ Gypsum Board.
- c. 5/8" Gold Bond® Fire-Shield C™ Gypsum Board.

Specifier Note | Gold Bond® EVOLVE 30™ Fire-Shield® Gypsum Board is 30 percent lighter than standard Type X board for use on interior, 30-minute fire-rated and non-rated wall and ceiling applications. Available with tapered or square edges and is 5/8 inch (15.9 mm) thick.

- d. Gold Bond® EVOLVE 30™ Fire-Shield® Gypsum Board.

Specifier Note | Gold Bond® EVOLVE X™ Fire-Shield® Gypsum Board is 20 percent lighter than standard Type X board for use on interior, 60-minute fire-rated and non-rated wall and ceiling applications with stud or joist spacing up to 24 inches (610 mm) on center. Available with tapered or square edges and is 5/8 inch (15.9 mm) thick.

- e. Gold Bond® EVOLVE X™ Fire-Shield® Gypsum Board.

Specifier Note | Gold Bond® Ultra-Shield FS® Gypsum Board allows for replacement of two (2) layers of 5/8 inch (15.9 mm) Type X, with one layer of 3/4 inch (19.1 mm), or three (3) layers of 5/8 inch (15.9 mm) Type X, with 2 layers of 3/4 inch, (19.1 mm) in 2- and 3-hour wall partitions and 2-hour cavity shaftwall assemblies. It has increased fire and sound transmission resistance and is only available with tapered edges.

- f. Gold Bond® Ultra-Shield FS® Gypsum Board.

2. Thickness: [1/2 inch (12.7 mm)][5/8 inch (15.9 mm)][3/4 inch (19.1 mm)].
3. Core: [Type X][Type C][Ultra-Shield].
4. Edges: [Tapered][Square].
5. Sustainability: GREENGUARD [Gold] Certified.

C. Gypsum Board, Fire-Resistant Core, Foil Backed: ASTM C1396/C1396M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® Foil Back Gypsum Board has a Type III aluminum foil vapor retarder laminated to the back surface and comes in 2 thicknesses 1/2 inch (12.7 mm) and 5/8 inch (15.9 mm) . It is designed for the interior face of exterior walls and ceilings where a vapor retarder is required. Use in non-rated construction where studs are spaced up to 24 inches (610 mm) on center. Available with tapered or square edges.

- a. Gold Bond® Foil Back Gypsum Board.

2. Thickness: [1/2 inch (12.7 mm)][5/8 inch (15.9 mm)].
3. Core: [Regular][Type X].
4. Edges: [Tapered][Square].
5. Sustainability: GREENGUARD [Gold] Certified.

2.2 MOLD, MILDEW AND MOISTURE RESISTANT PAPER FACED GYPSUM BOARD

A. Gypsum Board, Regular Core, Mold, Mildew, Moisture Resistant: ASTM C1396/C1396M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® XP® Gypsum Board is regular board for use in interior, non-rated wall and ceiling applications only. Heavy face paper is formulated to resist mold, mildew and moisture. Available in 1/2 inch (12.7 mm) with tapered or square edges. Use as tile backer board in dry areas or areas with limited moisture.

a. Gold Bond® XP® Gypsum Board.

2. Thickness: 1/2 inch (12.7 mm).
3. Core: Regular.
4. Edges: [Tapered][Square].
5. Sustainability: GREENGUARD [Gold] Certified.
6. Mold/Mildew Resistance: ASTM D3273; Score of 10.
7. Mold/Mildew Resistance: ASTM G21, Score of 0.

B. Gypsum Board, Fire Resistant Core, Mold, Mildew Moisture Resistant: ASTM C1396/C1396M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® XP® Fire-Shield® Gypsum Board is available in 5/8 inch (15.9 mm) thickness with a Type X core board. Use it on interior, multi-layer, fire-rated wall and ceiling applications and as tile backer board in dry areas or areas with limited moisture. Heavy face paper is formulated to resist mold, mildew and moisture. Available with tapered or square edges.

Gold Bond® XP® Fire-Shield® Radius Gypsum Board is available in 5/16 inch (7.94 mm) thickness for use on interior, multi-layer, rated wall and ceiling applications. Available with tapered edges only.

Gold Bond® XP® Fire-Shield C™ Gypsum Board is available in 1/2 inch (12.7 mm) and 5/8 inch (15.9 mm) with a Type C core board for use on interior, fire-rated wall and ceiling applications and as tile backer board in dry areas or areas with limited moisture. Heavy face paper is formulated to resist mold, mildew and moisture. Available with tapered or square edges.

- a. Gold Bond® XP® Fire-Shield® Gypsum Board.
- b. Gold Bond® XP® Fire-Shield® Radius Gypsum Board.
- c. 1/2" Gold Bond® XP® Fire-Shield C™ Gypsum Board.
- d. 5/8" Gold Bond® XP® Fire-Shield C™ Gypsum Board.

Specifier Note | Gold Bond® XP® Ultra-Shield FS® Gypsum Board is available in 3/4 inch (19.1 mm) thickness and is a specially formulated core board for use on interior, 2- and 3-hour rated wall partitions and 2-hour cavity shaftwall assemblies. Heavy face paper is formulated to resist mold, mildew and moisture and thickness aids in reducing sound transmission. Available with tapered edges only.

e. Gold Bond® XP® Ultra-Shield FS® Gypsum Board.

Specifier Note | Gold Bond® Shaftliner XP® is Type X core board for use on interior, 1-4 hour rated shaftwall applications and 2–3-hour fire separation walls. Heavy face paper is formulated to resist mold, mildew and moisture. Available with double-beveled edges only and is 1 inch (12.7 mm) thick.

f. Gold Bond® Shaftliner XP®.

2. Thickness: [5/16 inch (7.94 mm)][1/2 inch (12.7 mm)][5/8 inch (15.9 mm)][3/4 inch (19.1 mm)][1 inch (25.4 mm)].
3. Core: [Regular][Type X][Type C][Ultra-Shield].
4. Edges: [Tapered][Square][Double beveled].
5. Sustainability: GREENGUARD [Gold] Certified.
6. Mold/Mildew Resistance: ASTM D3273; Score of 10.
7. Mold/Mildew Resistance: ASTM G21, Score of 0.

C. Gypsum Board, Mold, Mildew, Moisture, and Abuse Resistant: ASTM C1396/C1396M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® XP® Hi-Abuse® Gypsum Board is Type X core board for use on interior, rated wall and ceiling applications where surface abrasion, indentation are major concerns. May also be used as tile backer board in dry areas or areas with limited moisture. Heavy face paper is formulated to resist mold, mildew and moisture. Available with tapered edges only and is 5/8 inch (15.9 mm) thick.

a. Gold Bond® XP® Hi-Abuse® Gypsum Board.

2. Thickness: 5/8 inch (15.9 mm).
3. Core: Type X.
4. Edges: Tapered.
5. Sustainability: GREENGUARD [Gold] Certified.
6. Mold/Mildew Resistance: ASTM D3273; Score of 10.
7. Surface Abrasion: ASTM C1629/C1629M; Level 3.
8. Indentation: ASTM C1629/C1629M; Level 1.
9. Soft-Body Impact: ASTM C1629/C1629M; Level 2.
10. Hard-Body Impact: ASTM C1629/C1629M; Level 1.

D. Gypsum Board, Mold, Mildew, Moisture, and Impact Resistant: ASTM C1396/C1396M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® XP® Hi-Impact® Gypsum Board is Type X core board for use on interior, rated wall and ceiling applications where surface abrasion, indentation are major concerns. May also be used as tile backer board in dry areas or areas with limited moisture. Heavy face paper is formulated to resist mold, mildew and moisture. Available with tapered edges only and is 5/8 inch (15.9 mm) thick.

- a. Gold Bond® XP® Hi-Impact® Gypsum Board.
 2. Thickness: 5/8 inch (15.9 mm).
 3. Core: Type X.
 4. Edges: Tapered.
 5. Sustainability: GREENGUARD [Gold] Certified.
 6. Mold/Mildew Resistance: ASTM D3273; Score of 10.
 7. Surface Abrasion: ASTM C1629/C1629M; Level 3.
 8. Indentation: ASTM C1629/C1629M; Level 1.
 9. Soft-Body Impact: ASTM C1629/C1629M; Level 3.
 10. Hard-Body Impact: ASTM C1629/C1629M; Level 3.
- E. Gypsum Board, Mold, Mildew, Moisture Resistant, with Sound Dampening: ASTM C1396/C1396M and ASTM C1766.
 1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® SoundBreak® XP® Gypsum Board is two sheets of high density, mold, moisture, and mildew resistant gypsum board laminated together with a sound dampening viscoelastic polymer center for use on interior, non-rated wall and ceiling assemblies. Available in 1/2 inch (12.7 mm) thickness with tapered edges only.

Gold Bond® SoundBreak® XP® Fire-Shield® Gypsum Board is a Type X core board of two sheets of high density, mold, moisture, and mildew resistant gypsum board laminated together with a sound dampening viscoelastic polymer center for use on interior, fire-rated wall and ceiling assemblies. Available in 5/8 inch (15.9 mm) thickness with tapered edges only.

- a. Gold Bond® SoundBreak® XP® Gypsum Board.
- b. Gold Bond® SoundBreak® XP® Fire-Shield® Gypsum Board.

Specifier Note | Gold Bond® SoundBreak® XP® Fire-Shield C™ Gypsum Board is laminated together with a sound dampening viscoelastic polymer center for use on interior, fire-rated ceiling assemblies. Available in 3/4 inch (19.1 mm) and with tapered edges only and is 3/4 inch (19.1 mm) thick.

- c. Gold Bond® SoundBreak® XP® Fire-Shield C™ Gypsum Board.

Specifier Note | Gold Bond® SoundBreak XP Retrofit® Board is laminated together with a sound dampening viscoelastic polymer center for use on existing interior wall assemblies to increase acoustical performance. Available in 5/16 inch (7.9 mm) and with tapered edges only.

- d. Gold Bond® SoundBreak XP Retrofit® Board.
 2. Thickness: [5/16 inch (7.9 mm)][1/2 inch (12.7 mm)][5/8 inch (15.9 mm)][3/4 inch (19.1 mm)].

3. Core: **[Regular][Type X]**.
4. Edges: Tapered.
5. Sustainability: GREENGUARD **[Gold]** Certified.
6. Surface Abrasion: ASTM C1629/C1629M; Level 3.
7. Mold/Mildew Resistance: ASTM D3273; Score of 10.
8. Mold/Mildew Resistance: ASTM G21, Score of 0.

2.3 FIBERGLASS MAT FACED GYPSUM BOARD

A. Gypsum Board: ASTM C1658/C1658M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® eXP® Interior Extreme® Gypsum Panel is regular board for use in interior, non-rated wall and ceiling applications only. Glass mat encased board resists mold, mildew and moisture with increased resistance to incidental moisture. Use on interior side of exterior walls, mechanical rooms and core walls where moisture exposure is more likely. May be used for pre-rock applications before the building is completely enclosed. Available with tapered edges only and is 1/2 inch (12.7 mm) thick.

a. Gold Bond® eXP® Interior Extreme® Gypsum Panel.

2. Thickness: 1/2 inch (12.7 mm).
3. Core: Regular.
4. Edges: Tapered.
5. Sustainability: GREENGUARD **[Gold]** Certified.
6. Mold/Mildew Resistance: ASTM D3273; Score of 10.

B. Gypsum Board, Fire Resistant Rated: ASTM C1658/C1658M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Gold Bond® eXP® Interior Extreme® Fire-Shield® Gypsum Panel is available in 5/8 inch (15.9 mm) thickness with a Type X core board for use in interior, fire-rated wall and ceiling applications only. Glass mat encased board resists mold, mildew and moisture with increased resistance to incidental moisture. Use on interior side of exterior walls, mechanical rooms and core walls where moisture exposure is more likely. May be used for pre-rock applications before the building is completely enclosed. Available with tapered edges only.

1/2" Gold Bond® eXP® Interior Extreme® Fire-Shield C™ Gypsum Panel and 5/8" Gold Bond® eXP® Interior Extreme® Fire-Shield C™ Gypsum Panel are Type C core boards for use in interior, fire-rated wall and ceiling applications only. Glass mat encased board resists mold, mildew and moisture with increased resistance to incidental moisture. Use on interior side of exterior walls, mechanical rooms and core walls where moisture exposure is more likely. May be used for pre-rock applications before the building is completely enclosed. Available with tapered edges only.

Gold Bond® eXP® Shaftliner is Type X core board for use on interior, 1-4-hour rated shaftwall applications and 2–3-hour fire separation walls. Glass mat encased board resists mold, mildew and moisture with increased resistance to incidental moisture. Available with double-beveled edges only and is 1 inch (25.4 mm) thick.

- a. Gold Bond® eXP® Interior Extreme® Fire-Shield® Gypsum Panel.
 - b. 1/2" Gold Bond® eXP® Interior Extreme® Type C™ Gypsum Panel.
 - c. 5/8" Gold Bond® eXP® Interior Extreme® Type C™ Gypsum Panel.
 - d. Gold Bond® eXP® Shaftliner.
2. Thickness: [1/2 inch (12.7 mm)][5/8 inch (15.9 mm)][1 inch (25.4 mm)].
 3. Core: [Type X][Type C].
 4. Edges: [Tapered][Double beveled].
 5. Sustainability: GREENGUARD [Gold] Certified.
 6. Mold/Mildew Resistance: ASTM D3273; Score of 10.
- C. Gypsum Board, Abuse Resistant: ASTM C1658/C1658M.
1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® eXP® Interior Extreme® AR Gypsum Panel is Type X core board for use on interior, fire-rated wall and ceiling applications where surface abrasion, indentation are major concerns. Glass mat encased board resists mold, mildew and moisture with increased resistance to incidental moisture. Available with tapered edges only and is 5/8 inch (15.9 mm) thick.

- a. Gold Bond® eXP® Interior Extreme® AR Gypsum Panel.
2. Thickness: 5/8 inch (15.9 mm).
 3. Core: Type X.
 4. Edges: Tapered.
 5. Sustainability: GREENGUARD [Gold] Certified.
 6. Mold/Mildew Resistance: ASTM D3273; Score of 10.
 7. Surface Abrasion: ASTM C1629/C1629M; Level 3.
 8. Indentation: ASTM C1629/C1629M; Level 1.
 9. Soft-Body Impact: ASTM C1629/C1629M; Level 2.

10. Hard-Body Impact: ASTM C1629/C1629M; Level 1.

D. Gypsum Board, Impact Resistant: ASTM C1658/C1658M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® eXP® Interior Extreme® IR Gypsum Panel is Type X core board for use on interior, fire-rated wall and ceiling applications where surface abrasion, indentation are major concerns. Glass mat encased board resists mold, mildew and moisture with increased resistance to incidental moisture. Available with tapered edges only and is 5/8 inch (15.9 mm) thick.

a. Gold Bond® eXP® Interior Extreme® IR Gypsum Panel.

2. Thickness: 5/8 inch (15.9 mm).
3. Core: Type X.
4. Edges: Tapered.
5. Sustainability: GREENGUARD [Gold] Certified.
6. Mold/Mildew Resistance: ASTM D3273; Score of 10.
7. Surface Abrasion: ASTM C1629/C1629M; Level 3.
8. Indentation: ASTM C1629/C1629M; Level 1.
9. Soft-Body Impact: ASTM C1629/C1629M; Level 3.
10. Hard-Body Impact: ASTM C1629/C1629M; Level 2.

E. Gypsum Board, Tile Backer: ASTM C1178/C1178M.

1. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company:

Specifier Note | Gold Bond® eXP® Tile Backer is regular board for use in interior, non-rated wall and ceiling applications only. Glass mat encased board resists mold, mildew and moisture with increased resistance to incidental moisture. Use as a substrate for tile applications in high-moisture areas, including showers, bathrooms indoor swimming pools, laundry rooms, kitchens and other interior applications. Available with square edges only and is 1/2 inch (12.7 mm) thick.

a. Gold Bond® eXP® Tile Backer.

Specifier Note | Gold Bond® eXP® Fire-Shield® Tile Backer is Type X core board for use on interior, fire-rated wall and ceiling applications. Glass mat encased board resists mold, mildew and moisture with increased resistance to incidental moisture. Use as a substrate for tile applications in high-moisture areas, including showers, bathrooms indoor swimming pools, laundry rooms, kitchens and other interior applications. Available with square edges only and is 5/8 inch (15.9 mm) thick.

b. Gold Bond® eXP® Fire-Shield® Tile Backer.

2. Thickness: [1/2 inch (12.7 mm)][5/8 inch (15.9 mm)].
3. Core: [Regular][Type X].
4. Edges: Square.
5. Sustainability: GREENGUARD [Gold] Certified.
6. Mold/Mildew Resistance: ASTM D3273; Score of 10.

2.4 CEMENT BOARD

A. Cement Board, Backer, Interior/Exterior: ASTM C1325.

1. Basis of Design: PermaBASE Building Products, LLC provided by National Gypsum Company:

Specifier Note | PermaBASE® Cement Board is a rigid substrate made of Portland cement, aggregate and glass mesh which can withstand prolonged exposure to moisture. For use as an underlayment or backing surface for interior and exterior applications. Available in

- PermaBASE® Cement Board is available in 1/2 inch (12.7 mm), 2.9 lbs./sq.ft. (14.2 kg/m²) and 5/8 inch (15.9 mm), 3.65 lbs./sq.ft. (17.8 kg/m²).
- PermaBASE PLUS® is available in 1/2 inch (12.7 mm), 2.5 lbs./sq.ft. (12.2 kg/m²).

- a. PermaBASE® Cement Board.
- b. PermaBASE PLUS® Cement Board.

2. Thickness: [1/2 inch (12.7 mm)][5/8 inch (15.9 mm)].
3. Weight: [2.5 lbs./sq.ft. (12.2 kg/m²)] [2.9 lbs./sq.ft. (14.2 kg/m²)] [3.65 lbs./sq.ft. (17.8 kg/m²)].
4. Edges: Round.
5. Sustainability: GREENGUARD [Gold] Certified.
6. Mold/Mildew Resistance: ASTM D3273; Score of 10.
7. Shear Bond Strength: 241 psi.

B. Cement Board, Interior Underlayment: ASTM C1325.

1. Basis of Design: PermaBASE Building Products, LLC provided by National Gypsum Company:

Specifier Note | PermaBASE UltraBacker® Cement Board is a smooth mesh and mat surfaced cement board that provides an improved surface for superior tile bond. Uses include underlayment for ceramic tile on floors, countertops, tub decks and outdoor kitchen counters.

- a. PermaBASE UltraBacker® Cement Board.
2. Thickness: 1/4 inch (6.4 mm).
3. Weight: 1.8 lbs./sq.ft. (8.8 kg/m²).
4. Edges: Round.
5. Sustainability: GREENGUARD [Gold] Certified.
6. Mold/Mildew Resistance: ASTM D3273; Score of 10.

2.5 TEXTURE FINISHES

- A. Primer: Manufacturer recommended for surface being coated.
- B. Non-Aggregated Wall and Ceiling Texture:

1. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm™ Wall and Ceiling Spray is a non-aggregated texture spray used to create wide range of wall and ceiling surfaces.

- a. ProForm™ Wall and Ceiling Spray.

Specifier Note | ProForm™ Perfect Spray® EM is a non-aggregated texture spray used to create wide range of wall and ceiling surfaces.

- b. ProForm™ Perfect Spray® EM.

2. Texture: **[Spray spatter][Spatter knockdown][Orange peel]**.
3. Sustainability: GREENGUARD **[Gold]** Certified.

C. Polystyrene Aggregate Ceiling Texture:

1. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm™ Perfect Spray® Medium is a texture spray containing shredded polystyrene aggregate.

- a. ProForm™ Perfect Spray® Medium.

2. Texture: **[Fine][Medium][Coarse]**.
3. Sustainability: GREENGUARD **[Gold]** Certified.

2.6 ACCESSORIES

Specifier Note | Acoustical sealant may be specified in other Sections such as 07 92 00 - "Joint Sealants", coordinate and do not duplicate information. The following products are recommended by National Gypsum Company, but other products that meet the referenced standard may be acceptable.

A. Acoustical Sealant: ASTM C919.

1. Manufacturers and Products:
 - a. Grabber Construction Products; Acoustical Sound and Smoke Sealant GSCSF.
 - b. Specified Technologies Inc.; SpecSeal SNS Smoke N Sound Acoustical Sealant.
 - c. BOSS Products; BOSS 826 Acoustical Acrylic Sound Sealant.

Specifier Note | Firestopping may be specified in other Sections such as 07 84 00 - "Firestopping", coordinate and do not duplicate information. The following products are recommended by National Gypsum Company, but other products that meet the referenced standard may be acceptable.

B. Firestopping: ASTM E814.

1. Manufacturers and Products:
 - a. Specified Technologies Inc.; SpecSeal SSP Putty & Putty Pads.
 - b. BOSS Products; BOSS 818 Fire Rated Putty Pads.

Specifier Note | Edit fasteners to correspond with rated and non-rated assemblies. Do not use nails with a fire-rated assembly, only screws.

C. Fasteners for Cement Board: ASTM C1002.

1. Basis of Design: PermaBASE Building Products, LLC provided by National Gypsum Company:

Specifier Note | PermaBASE™ Cement Board Screws are for wood framing. PermaBASE™ Cement Board Screws Drill Point are for metal framing 0.0296 inches (30 mils) to 0.0677 inches (68 mils) thick.

- a. PermaBASE™ Cement Board Screws Hi-Lo.
 - 1) Wafer head, corrosion-resistant.
 - 2) Thickness, overall: [1-1/4 inch (31.8 mm)][2 inch (50.8 mm)][2-1/2 inch (63.5 mm)].
- b. PermaBASE™ Cement Board Screws Drill Point.
 - 1) Wafer head, corrosion-resistant.
 - 2) Thickness, overall: [1-1/4 inch (31.8 mm)][2 inch (50.8 mm)][2-1/2 inch (63.5 mm)].

Specifier Note | Select fastener type based on board thickness and framing type (wood or metal), and fire rated assemblies.

D. Fasteners for Tile Backer: ASTM C1002.

1. Fasteners for 1/2 inch (12.7 mm) thick panels:
 - a. Wood Framing: [1-1/4 inch (31.8 mm) minimum galvanized roofing nail][1-1/4 inch (31.8 mm) minimum corrosion resistant course thread bugle head].
 - b. Metal Framing: 1 inch (25.4 mm) minimum corrosion resistant sharp point or drill point bugle head screw.
2. Fasteners for 5/8 inch (15.9 mm) thick panels:
 - a. Wood Framing: [1-3/4 inch (44.5 mm) minimum galvanized roofing nail][1-1/4 inch (31.8 mm) minimum corrosion resistant course thread bugle head][As required by fire-rated assembly].
 - b. Metal Framing: [1-1/4 inch (31.8 mm) minimum corrosion resistant sharp point or drill point bugle head screw][As required by fire-rated assembly].

2.7 TRIM

Specifier Note | One- and two-piece trim below is to be used with Gold Bond® 1/2 inch (12.7 mm) Durasan® Prefinished Gypsum Board. Two-piece trim may only be used with Gold Bond® 5/8 inch (15.9 mm) Durasan® Prefinished Gypsum Board

A. Vinyl Trim:

1. One-Piece: Extruded vinyl form; vinyl coating matching boards.
2. Two-Piece: Extruded vinyl form; vinyl coating matching boards.

2.8 JOINT TAPE

A. Paper Tape: 2-1/16 inch wide (52.4 mm), cross-fibered paper, ASTM C475/C475M.

1. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm™ Paper Joint Tape may be used with drying type (ready mix) or setting-type joint compounds and gypsum veneer plaster systems to conceal and reinforce interior wall and ceiling joints.

a. ProForm™ Paper Joint Tape.

B. Fiberglass Mesh Tape: Polymer-coated (alkali-resistant) fiberglass mesh.

1. Basis of Design: PermaBASE Building Products provided by National Gypsum Company:

Specifier Note | PermaBASE™ Cement Board Tape is mold and moisture resistant. Use 2 inch (mm) width for interior and 4 inch (mm) width for exterior applications.

a. PermaBASE™ Cement Board Tape, [2 inch (mm)][4 inch (mm)].

2.9 JOINT COMPOUNDS

A. Setting Type Compound

1. Field mixed quick setting and hardening: ASTM C475/C475M.
 - a. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm® Quick Set™ Setting Compound a quick setting/hardening joint compound that is not affected by humidity once it has set and dried. Use for heavy fills, beads, trims, joint finishing and laminating gypsum panels.

1) ProForm® Quick Set™ Setting Compound.

Specifier Note | ProForm® Quick Set Lite™ Setting Compound a quick setting/hardening joint compound that is 30% lighter than conventional setting compound and is mold resistant. Use permits heavy fills and faster joint finishing with low shrinkage, is compatible with all types of gypsum board and may be used when a shortened joint finishing schedule is used.

- 2) ProForm® Quick Set Lite™ Setting Compound.
2. Field mixed quick setting and hardening; fire resistant: ASTM E814.
 - a. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm® Quickset Fire and Smoke Stop 90 Setting Compound is a setting/hardening joint compound designed to provide fire protection in fire-stopping penetrations. Meets multiple UL Listed standards: fire/smoke stop; through wall and floor penetrations; head of wall.

- 1) ProForm® Quick Set™ Fire and Smoke Stop 90 Setting Compound.
- B. Drying Type Compound:
1. Ready mix, vinyl base: ASTM C475/C475M.
 - a. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm® Multi-Use Joint Compound use for all phases of finishing, from embedding joint tape to final coats. Up to 20% lighter than standard ready mix.

- 1) ProForm® Multi-Use Joint Compound.

Specifier Note | ProForm® All Purpose Joint Compound use for taping, finishing joints and corner bead, spotting fasteners, skimming and textures, and repairing cracks in gypsum walls.

- 2) ProForm® All Purpose Joint Compound.

Specifier Note | ProForm® Ultra Lite® All Purpose Joint Compound use for all phases of finishing, from embedding joint tape to final coats. Up to 40% lighter than conventional weight compound.

- 3) ProForm® Ultra Lite® All Purpose Joint Compound.

Specifier Note | ProForm® All Purpose Machine Grade Joint Compound designed for use in mechanical taping and finishing tools. Use for taping, finishing joints, spotting fasteners, skimming and textures, and for repairing cracks in plaster walls.

- 4) ProForm® All Purpose Machine Grade Joint Compound.

Specifier Note | ProForm® Lite Blue™ Joint Compound lightweight compound used for finishing joints and cornerbead, spotting fasteners and textures. Reduces shrinkage by up to 33%.

- 5) ProForm® Lite Blue™ Joint Compound.

Specifier Note | ProForm® Lite Joint Compound available in the southwest only, used for taping, finishing joints and cornerbead, spotting fasteners, skimming and textures, and repairing cracks in gypsum walls. Approximately 30% lighter than conventional compounds and reduces shrinkage by up to 33%.

- 6) ProForm® Lite Joint Compound.
2. Ready mix, vinyl base, reduced dust: ASTM C475/C475M.
 - a. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm® All Purpose with Dust-Tech® Joint Compound used for taping, finishing joints and corner bead, spotting fasteners, skimming texture, and repairing cracks in gypsum walls. Reduces dust by up to 60%.

- 1) ProForm® All Purpose with Dust-Tech® Joint Compound.

Specifier Note | ProForm® Lite with Dust-Tech® used for finishing joints and corner bead, spotting fasteners, skimming texture, and repairing cracks in gypsum walls. Approximately 30% lighter than conventional compounds and reduces shrinkage by up to 33%.

- 2) ProForm® Lite with Dust-Tech®.

Specifier Note | ProForm® Lite Blue™ with Dust-Tech® Joint Compound lightweight compound used for finishing joints and cornerbead, spotting fasteners, skimming texture and cracks in gypsum board walls. Reduces shrinkage by up to 33%. Reduces dust by up to 60%.

- 3) ProForm® Lite Blue™ with Dust-Tech® Joint Compound.
 - b. Mold/Mildew Resistance: ASTM D3273; Score of 10.
 - c. Mold/Mildew Resistance: ASTM G21, Score of 0.
3. Ready mix, vinyl base, topping compound: ASTM C475/C475M.
 - a. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm® Topping Joint Compound designed to be used for finishing joints and corner bead, spotting fasteners and textures.

- 1) ProForm® Topping Joint Compound.
4. Ready mix, vinyl base, embedding tape and trim: ASTM C475/C475M.

- a. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm® Taping and Taping Lite Joint Compound used for taping, adhering cornerbead and laminating gypsum board. Taping Lite is 40% lighter than standard taping compound.

- 1) ProForm® Taping Joint Compound.
 - 2) ProForm® Taping Lite Joint Compound.
5. Ready mix, vinyl base, specialty: ASTM C475/C475M.
- a. Basis of Design: ProForm Finishing Products, LLC provided by National Gypsum Company:

Specifier Note | ProForm® All Purpose Texture Grade Joint Compound used for any non-aggregate texture including stipple, knockdown, skip trowel and orange peel.

- 1) ProForm® All Purpose Texture Grade Joint Compound.

Specifier Note | ProForm® All Purpose Heavy Viscosity Joint Compound designed taping, fastener spotting and complete joint finishing. Also used to repair cracks in plaster walls, texture surfaces and laminate gypsum board to other surfaces such as masonry and other gypsum board. Develops strength and hardness by drying.

- 2) ProForm® All Purpose Heavy Viscosity Joint Compound.

Specifier Note | ProForm® Tinted Lite™ Joint Compound a color tinted lightweight compound used for taping, filling, spotting fasteners and finishing. Also used to repair cracks in plaster walls, texture surfaces and laminate gypsum board to other surfaces.

- 3) ProForm® Tinted Lite™ Joint Compound.

Specifier Note | ProForm® Concrete Cover Joint Compound use for smoothing and texturing monolithic concrete ceilings or columns. Also provides a first-fill coat on fastener beads or trim. Can be sprayed, brushed, rolled and applies with trowel, gypsum board finishing boxes or taping tools.

- 4) ProForm® Concrete Cover Joint Compound.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Install in accordance with:
 - 1. Manufacturer recommendations.
 - 2. ANSI A108.
 - 3. ASTM C840.
 - 4. GA-216.

3.2 FINISHING

A. Finish in accordance with:

1. Manufacturers recommendations.
2. ASTM C840.
3. GA-214

END OF SECTION