

Section 09 21 16.33
H-STUD AREA SEPARATION WALL

The following paragraphs are for insertion into sections of generic specifications or proprietary specifications covering gypsum board products manufactured by National Gypsum Company. The Gold Bond[®] BRAND product name follows the generic description in parentheses.

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: An area separation fire wall system of gypsum drywall supported by metal and wood framing.

(Specifiers Notes: Edit list below to conform to project requirements. Verify section numbers and titles).

- B. Related Sections:
1. Section 06 10 00, Rough Carpentry.
 2. Section 09 29 00, Gypsum Board.

1.02 REFERENCES

(Specifiers Notes: Delete references not used in Part 2 or Part 3).

- A. American Society for Testing and Materials (ASTM):
1. C 645, Specification for Non-Load (Axial) Bearing Steel Studs, Runners (Track), and Rigid Furring Channels for Screw Application of Gypsum Board.
 2. C 665, Specification for Mineral Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
 3. C 754, Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Board.
 4. C 954, Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases to Steel Studs from 0.33 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness.
 5. C 1002, Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases.
 6. C 1047, Specification for Accessories for Gypsum Board and Gypsum Veneer Base.
 7. C 1396, Specification for Gypsum Board.
 8. D 3273, Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.

1.03 SUBMITTALS

- A. Product Data: Manufacturers' specifications and installation instructions for each product specified.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Packaging and Shipping: Have materials shipped in manufacturer's original packages showing manufacturer's name and product brand name.
- B. Storage and Protection: Store materials under cover and protected from damage by the elements. Protect ends, edges, and faces of gypsum boards from damage. Protect steel studs and accessories from bending.

PART 2 PRODUCTS

2.01 MANUFACTURERS

(Specifiers Notes: Edit list below to conform to project requirements. If other manufacturers are being added to this section, then add listings of their proprietary product names. Proprietary product names may be listed in this article or in the "materials" article below. Listing them in both articles is overkill and invites coordination errors).

- A. National Gypsum Company:
 - 1. Gypsum Board:
 - a. Fire-Rated Shaftliner Board: Gold Bond BRAND Fire-Shield Shaftliner.
 - b. Fire-Rated Mold-Resistant Shaftliner Board: Gold Bond BRAND Fire-Shield Shaftliner XP.
 - c. Fire-Rated Board: Gold Bond BRAND Fire-Shield C Gypsum Board.
 - d. Fire-Rated Mold-Resistant Board: Gold Bond BRAND XP Fire-Shield C Gypsum Board
 - e. Extended Exposure Gypsum Shaftliner: Gold Bond BRAND e²XP Extended Exposure Shaftliner.

(Specifiers Notes: If specifying by the proprietary method, add manufacturers and product names for metal framing and accessories. Follow the format in the next article).

2.02 MATERIALS

(Specifiers Notes: This article includes generic descriptions of gypsum board construction products, the names of the corresponding National Gypsum products follow in parenthesis. If this section is being edited to be generic, then these product names should be deleted).

(Specifiers Notes: If other manufacturers are being added to this section, then (1) add the proprietary product names of those manufacturers, (2) if proprietary names are listed in the "Manufacturers" article above, then delete them from this article altogether).

(Specifiers Notes: Verify descriptions of metal framing products with manufacturer).

- A. Metal Framing:
 - 1. Studs: 2 in. H shaped studs, weighing 448 lbs. per 1000 linear ft. with min. base steel of 0.0179 in., galvanized, and complying with ASTM C 645.
 - 2. Track: 2 in. U shaped track with 1 in. leg, weighing 425 lbs. per 1000 linear ft. with min. base steel of 0.0179 in., galvanized, and complying with ASTM C 645.
- B. Wood Framing: See Section 06 10 00.
- C. Gypsum Board:
 - 1. Fire-Rated Shaftliner Board: A gypsum core shaftwall panel with additives to enhance fire resistance of the core and surfaced with water repellent paper on front, back, and long edges and complying with ASTM C 1396, Type X (Gold Bond BRAND Fire-Shield Shaftliner)
 - a. Thickness: 1 in.
 - b. Width: 2 ft.
 - c. Length: 7 ft. through 14 ft.
 - d. Edges: Beveled.
 - 2. Fire-Rated Mold-Resistant Shaftliner Board: A gypsum core shaftwall panel with additives to enhance fire resistance and mold resistance of the core; surfaced with moisture/mold resistant paper on front, back, and long edges and complying with ASTM C 1396, Type X (Gold Bond BRAND Fire-Shield Shaftliner XP).
 - a. Thickness: 1 in.
 - b. Width: 2 ft.
 - c. Length: 7 ft. through 14 ft.

- d. Edges: Beveled.
 - e. Mold and Mildew Resistance: Panel score of 10, indicating no mold growth, when tested in accordance with ASTM D 3273.
3. Extended Exposure Shaftliner : A gypsum core wall panel with additives to enhance fire resistance, moisture and mold resistance; surfaced with water-resistant glass mat on front back, and long edges. complying with ASTM C1396 and ASTM C1658(Gold Bond brand e2XP Extended Exposure Shaftliner).
- a. Thickness: 1 in.
 - b. Width: 2 ft.
 - c. Length: 8 ft., 10 ft. or 12 ft.
 - d. Edges: Double Beveled
 - e. Mold and Mildew Resistance: Panel Score of 10, when tested in accordance with ASTM D 3273.
4. Fire-Rated Board: A gypsum core wall panel with additives to enhance fire resistance of the core and surfaced with paper on front, back, and long edges and complying with ASTM C 1396, Type X (Gold Bond BRAND Fire-Shield C Gypsum Board).
- a. Thickness: 1/2 in.
 - b. Width: 4 ft.
 - c. Length: 6 ft. through 16 ft.
 - d. Edges: Square, Tapered, or Beveled Taper (Sta-Smooth Edge).
5. Fire-Rated Mold-Resistant Board: A gypsum core wall panel with additives to enhance fire resistance, mold resistance and the water resistance of the core; surfaced with moisture/mold resistant paper on the front, back and long edges and complying with ASTM C1396, Type X (Gold Bond BRAND XP Fire-Shield C Gypsum board).
- a. Thickness: 1/2 in.
 - b. Width: 4 ft.
 - c. Length: 8 ft., 10 ft. or 12 ft.
 - d. Edges: Square or Tapered
 - e. Mold and Mildew Resistance: Panel Score of 10, when tested in accordance with ASTM D 3273.

(Specifiers Notes: Verify descriptions of metal accessory products with manufacturer).

2.03 ACCESSORIES

- A. Insulation: ASTM C 665, Type I, mineral fiber (either glass or slag) insulation blankets without membrane facing.
- B. Corner Bead: Formed galvanized steel angle, min. base steel 0.014 in. thick, and complying with ASTM C 1047.
- C. Joint Treatment: See Section 09 29 00.
- D. Screws: ASTM C 954 or C 1002 or both with heads, threads, points, and finish as recommended by the manufacturer.
- E. Acoustical Sealant: Nondrying, non-hardening, non-skinning, non-staining, non-bleeding, gunnable type as recommended by the manufacturer.

PART 3 EXECUTION

3.01 INSTALLATION

- A. General: In accordance with the following ASTM Standard and the manufacturer's recommendations:
 - 1. ASTM Standard: Metal framing, C 754.
 - 2. Manufacturer's Recommendations:

(Specifiers Notes: If other manufacturers were added in Part 2 then reference their installation recommendations below by title).

- a. "Gypsum Construction Guide," 102171, National Gypsum Company.

- B. Wood Framing: See Section 06 10 00.

(Specifiers Notes: Verify section numbers above and below).

- C. Joint Treatment: See Section 09 29 00.

3.02 PROTECTION

(Specifiers Notes: Revise below if other than AIA General conditions are used).

- A. Protect gypsum board installations from damage and deterioration until the date of Substantial Completion.

END OF SECTION