

SHEETROCK® Brand Gypsum Liner Panels

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Regular Enhanced

Preparation

Identify the following system components are available to construct SHEETROCK Brand Cavity Shaft Wall System:

- SHEETROCK Brand Gypsum Liner Panels or
- SHEETROCK Brand Enhanced Gypsum Liner Panels
- SHEETROCK Brand Gypsum Panels, FIRECODE, FIRECODE C, or ULTRACODE Core
- USG Metal Framing Components (C-H Studs, J-Runner, E-Studs, Jamb Struts)

Other Fire-Resistive Elements/Materials: Coordinate installation of SHEETROCK Brand Shaft Wall assembly with sprayed fire-resistive materials and other fire-resistive elements so that both elements remain complete and undamaged.

Cavity Shaft Wall Erection

USG Metal Framing SHEETROCK Brand Gypsum Liner Panels

1. Position steel J-runners at floor and ceiling with the short leg toward finish side of wall.
2. Securely attach runners to structural supports with powder actuated fasteners at both ends and max. 24" o.c.
3. For attachment to steel frame construction install floor and ceiling J-runners and J-Runners or E-Studs on columns and beams *before steel is fireproofed*.
4. For attachment to structural steel use Z-shaped stand-off clips secured to structural steel before fireproofing application.
5. Remove spray-fireproofing from J-Runners and E-Studs before installing gypsum liner panels
6. For wall heights less than maximum available panel height cut gypsum liner panels no more than 1" less than floor-to-ceiling height and erect vertically between J-Runners.
7. Where shaft wall height exceed maximum available panel height pieces of gypsum liner panel must be butted together.
 - a. Position gypsum liner panel end joints within upper and lower third points of wall.
 - b. Stagger joints top and bottom in adjacent panels.
 - c. Screw studs to runners on walls over 16'.
8. Cut C-H studs 3/8" to not more than 1/2" less than floor-to-ceiling height.
9. Install C-H studs between gypsum liner panels with liner securely engaged.
10. Terminations: Install full-length steel E-Studs or J-Runners vertically at T-intersections, corners, door jambs, and columns.
11. Openings: Frame with vertical E-Stud or J-Runner at vertical edges, horizontal J-Runner at head and sill. Reinforce as shown in USG System Folder SA926. Suitably frame all openings to maintain structural support for wall.
12. Elevator Door Frames: Install jamb struts each side of elevator door frames to act as strut-studs.
13. Steel Hinged Door Frames: Install floor-to-ceiling steel E-Studs each side to act as strut-studs.
14. Attach strut-stud to floor and ceiling runners with two 3/8" Type S-12 pan head screws. Attach strut-studs to jamb anchors with 1/2" Type S-12 screws. Over steel doors, install a cut-to-length section of J-Runner and attach to strut-studs with 3/8" Type S-12 screws.

Resilient Channels

1. Install Resilient Channels (RC-1 or equivalent) horizontally to face of studs, within 6" of floor and ceiling.
2. Apply Resilient Channels a maximum of 24" o.c. vertically.
3. Attach Resilient Channels to studs with 3/8" Type S screws driven through holes in mounting flange.
4. Splice channel by nesting directly over stud; screw-attach through both flanges. Reinforce with screws at both ends of splice.
5. Install 1/2" x 3" wide continuous gypsum filler strips to top and bottom runner.
6. Gypsum Panel Application with Resilient Channel: Apply base layer horizontally to resilient channels with end joints staggered. Fasten with 1" Type S screws 12" o.c. Apply face layer vertically with joints staggered; attach to channels with 1-5/8" Type S screws 12" o.c.

SHEETROCK Brand Gypsum Panels

Gypsum panels and fastening must be per the corresponding fire-resistance design number that is the basis of design. See USG System Folder SA926 for specific fire-resistance design numbers.

Accessory Application

Gypsum Panel Joints Finish all face layer joints and internal angles with a SHEETROCK Brand Interior Finishing System installed according to manufacturer's directions. See USG product folder J1424 for detailed recommendations.

Corner Bead Reinforce all vertical and horizontal exterior corners with SHEETROCK Brand Paper Faced Bead and Trim. See USG product folder J1424 for detailed recommendations.

Metal Trim Where shaft wall terminates against masonry or other dissimilar material, apply SHEETROCK Brand Paper Faced Bead and Trim over face layer edge.

Screws

- SHEETROCK Brand Gypsum Panels
Power-drive at least 3/8" from edges or ends of gypsum panels to provide uniform dimple 1/32" deep. Follow spacing requirements of appropriate fire-resistance design.
- IMPERIAL Brand Gypsum Base
Power drive flush with surface without tearing face paper. Follow spacing requirements of appropriate fire-resistance design.

Trademarks

The following trademarks used herein are owned by United States Gypsum or a related company: FIRECODE, IMPERIAL, SHEETROCK, ULTRACODE.

Note

Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

Notice

We shall not be liable for incidental or consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than their intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from the date it was or reasonably should have been discovered.

SAFETY FIRST!

Follow good safety practices. Read material safety data sheets and related literature on products before specification and/or installation.

