

MR-MANUFACTURER

USG® Cavity Shaft Wall Systems are manufactured by United States Gypsum Company, a leader in construction materials and building systems for 90 years.

PP-PRODUCT PRESENTATION

USG Cavity Shaft Walls offer high performance characteristics and greater economy than other shaft walls. Engineered design of the USG C-H Stud system provides a thinner, lighter weight assembly that offers faster installation and lower material costs, producing lower in-place costs as well as savings in structural steel. In addition, USG Shaft Walls provide up to 4-hour fire resistance and sound ratings to 51 STC. They resist intermittent lateral loads up to 15 psf; also resist fatigue failure under cyclic lateral loading.

USG Cavity Shaft Walls are non-load bearing gypsum board partition assemblies designed for erection from outside the shaft at each floor. Shafts are enclosed early in construction, the walls finished later along with interior partitions.

USG Cavity Shaft Walls are covered by three model building codes under National Evaluation Report 258. In addition to a 1-1/2" deep x 22-1/2" wide vertical chaseway, a 3" deep chase to carry electrical elevator controls is available with the 4" USG C-H Stud.

12 Reasons to Choose USG Cavity Shaft Wall Systems

- 1.** The basic system is UL classified -- UL Designs U438, U459, U467 and U469.
- 2.** National Evaluation Report (NER-258) assures acceptance by all three model code bodies -- BOCA, ICBO, SBCCI.
- 3.** All major elevator door manufacturers have tested their doors at UL in USG Cavity Shaft Wall, successfully using the U.S. Gypsum Company 3" leg, 20-ga. jamb strut detail.
- 4.** ASTM E152 standard test for door frames doesn't allow substitution -- the door frame must be installed in the wall in which it was tested.
- 5.** Fire-tested penetration details for call boxes and position indicators.
- 6.** USG Steel C-H Stud offers continuous edge support of liner panel for airtight, smoke-tight, rattle-free performance.
- 7.** USG Steel C-H Stud has no tabs to bend, break, cut installer's hands or delay the job.
- 8.** USG Steel C-H Stud blank width is wider and contains 21% more steel than some competitive tabbed stud blanks, making it stronger and more resistant to fatigue.
- 9.** Most comprehensive limiting height information allows for safer design practices.
- 10.** Pressure tested to one million cycles proves system longevity.
- 11.** Only wall for which a UL smoke and fire damper test is available.
- 12.** More than 20 years of proven performance.

UA-USES, APPLICATIONS

These systems may be used in elevator and mechanical shafts, air ducts and stairwells in multi-story buildings.

AI-ASSEMBLY, INSTALLATION

The assemblies are simply constructed of SHEETROCK® brand Gypsum Panels, FIRECODE® C Core, or IMPERIAL® FIRECODE C Gypsum Base and veneer finish, steel studs and runners, and SHEETROCK brand Gypsum Liner Panels.

SHEETROCK brand Gypsum Liner Panels are installed vertically between USG Steel J-Runners attached to floor and ceiling. Panel edges are inserted into specially formed USG Steel C-H Studs spaced 24" o.c. The 2-hour shaft wall is completed with double-layer 1/2" thick gypsum panels and a United States Gypsum Company joint system, or with gypsum base and veneer finish applied to one side. Where both sides of the wall must be finished, single-layer panels are applied each side of studs. A 1-hour assembly is obtained with single-layer 5/8" thick face panels. Additional layers of panels are installed in 3- and 4-hour fire-rated construction.

Liner panels have a special fire-resistant core and multi-layered green paper facings that are treated to resist moisture penetration. The panels are 1" thick, 24" wide and have beveled edges. SHEETROCK brand Gypsum Panels, FIRECODE C Core, for these systems are 1/2" or 5/8" thick and 4' wide. IMPERIAL FIRECODE C Gypsum Base, 1/2" or 5/8" thick and 4' wide, has a high-strength, high-density core covered with special-absorption face paper for a veneer finish. USG Steel J-Runners, C-H Studs and E-Studs are formed from hot-dipped galvanized steel.

MF-MATERIALS, FINISHES

Materials for USG Cavity Shaft Wall systems include the following components: SHEETROCK brand Gypsum Panels, FIRECODE C Core; SHEETROCK brand Gypsum Liner Panels, USG Steel J-Runners and USG Steel C-H Studs.

CS-COATINGS, SURFACING

Joints and fasteners should be treated with appropriate SHEETROCK Joint Systems. When priming is required, SHEETROCK First Coat provides a superior first (prime) coat prior to decorating.

TS-TECHNICAL SUPPORT

For further information on specifications, design criteria and product performance, order catalog *SA-926 USG Cavity Shaft Wall Systems* by calling toll-free 1-800-USG-4YOU (874-4968).

CC-CODES, CERTIFICATION

These systems comply with ASTM standards C-36, A-446, C-475, A-525, C-645, C-754, C-840, C-1002, C-1047.

OM-OPERATION, MAINTENANCE

Contact local U.S. Gypsum Company Sales Office with any questions about maintenance and replacement recommendations.