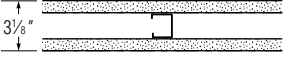
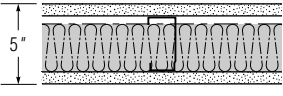
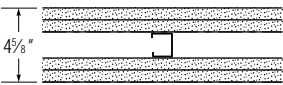
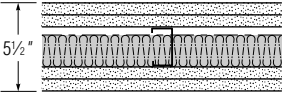
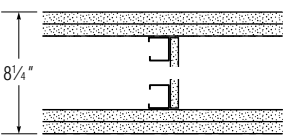
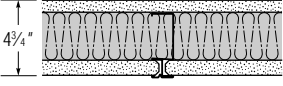


SHEETROCK® brand ULTRACODE® Core Gypsum Panels

Fire-rated Construction		Acoustical Performance		
Steel Framed System (Non-Load-Bearing)	Fire Rating	Detail & Physical Data	Description & Test No.	STC
	1 hr.		3/4" SHEETROCK brand Gypsum Panels, ULTRACODE Core, each side—minimum 1-5/8" 25 gauge steel studs 24" o.c.—panels vertically or horizontally applied and screw-attached 8" o.c. perimeter, 12" o.c. field—joints staggered and finished—perimeter caulked— UL Des U419	
	2 hr.		3/4" SHEETROCK brand Gypsum Panels, ULTRACODE Core, each side—minimum 3-1/2" 25 gauge steel studs 24" o.c.—3" THERMAFIBER SAFB—panels vertically or horizontally applied and screw attached 8" o.c. perimeter, 12" o.c. field—joints staggered and finished—perimeter caulked— UL Des U419 and U491	50
	3 hr.		2 layers 3/4" SHEETROCK brand gypsum panels, ULTRACODE Core, each side—minimum 1-5/8" 25 gauge steel studs 24" o.c.—panels vertically or horizontally applied, base layer attached with 1-1/4" Type S screws 24" o.c.—face layer attached with 2-1/4" Type S screws 12" o.c.—attach horizontal joints with Type G screws midway between framing (24" o.c.)—joints staggered and finished—perimeter caulked— UL Des U419 and U435	
	4 hr.		2 layers 3/4" SHEETROCK brand gypsum panels, ULTRACODE Core, each side—minimum 2-1/2" 25 gauge steel studs 24" o.c.—2" THERMAFIBER SAFB—panels vertically or horizontally applied, base layer attached with 1-1/4" Type S screws 24" o.c.—face layer attached with 2-1/4" Type S screws 12" o.c.—attach horizontal joints with Type G screws midway between framing (24" o.c.)—joints staggered and finished—perimeter caulked— UL Des U419 and U490	56
Steel Stud Chase Walls (Non-Load-Bearing)	3 hr.		2 layers 3/4" SHEETROCK brand gypsum panels, ULTRACODE Core, each side, applied vertically or horizontally—minimum 1-5/8" 25 gauge steel studs 24" in two rows spaced 2" apart—steel truss member—gypsum panel gussets or steel runner braces spanning chase, screw attached to studs—base layer attached with 1-1/4" Type S screws 24" o.c.—face layer attached with 2-1/4" Type S screws 12" o.c.—attach horizontal joints with Type G screws midway between framing 24" o.c.—joints staggered and finished—perimeter caulked— UL Des U436	
Shaft Wall System	2 hr.		1" SHEETROCK brand gypsum liner panels, set between 4" USG steel C-H studs 24" o.c. one side—3/4" SHEETROCK brand gypsum panels, ULTRACODE Core, other side—3" THERMAFIBER SAFB—panels applied vertically or horizontally and attached 8" o.c. perimeter, 12" o.c. field—joints staggered and finished—perimeter caulked— UL Des U492	

Limitations

1. Exposure to excessive or continuous moisture and extreme temperatures should be avoided. Gypsum panels are not recommended where they will be in contact with surfaces exceeding 125 °F (52 °C) or in solar heating systems.
2. Application of SHEETROCK brand Gypsum Panels, ULTRACODE Core, over an insulating blanket installed continuously over the framing members is not recommended. Blankets should be recessed, and blanket flanges attached to sides of studs.
3. Painting Systems—For satisfactory results, painting products and systems should be used which comply with the recommendations and requirements in the Appendices of ASTM C840. For painting, decorating, texturing, and wallcovering, follow manufacturer's directions for materials used. All surfaces, including applied joint compound, must be thoroughly dry, dust free, and not glossy. A prime coat of SHEETROCK® First Coat or a good quality interior flat latex wall paint (undiluted) with a high solids content should be applied and allowed to dry before decorating. To improve fastener concealment, where gypsum panel walls will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semigloss, or gloss), the gypsum panel surface should be skim coated with joint compound to equalize suction before painting.

Architectural Specification

Part 1: general

1.1 scope

Specify to meet project requirements.

1.2 qualifications

All materials described in this publication manufactured by or for United States Gypsum Company shall be installed in accordance with its current printed instructions.

1.3 delivery and storage of materials

All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall be removed from the premises. **WARNING:** Store all SHEETROCK brand Gypsum Panels in a flat position. Panels can fall over, causing serious injury or death if stacked on edge.

	1.4 environmental conditions	In cold weather during gypsum panel joint finishing, temperatures within the building shall be maintained within the range of 55-70 °F (13-21 °C). Adequate ventilation shall be provided to carry off excess moisture.
Part 2: products	2.1 materials	Gypsum Face Panels—3/4" thick SHEETROCK brand Gypsum Panels, ULTRACODE Core, 48" wide, 8', 9', 10', and 12' lengths (nonstandard lengths available with minimum quantities). Liner Panels—1" thick SHEETROCK brand Gypsum Liner Panels, beveled edge nominal 24" wide, length as required. Insulation—THERMAFIBER Sound Attenuation Fire Blankets (SAFBs), 2", 3" thick x 24" x 48". Accessory Products—caulking, joint treatment, etc.—Refer to SA919 or SA927.
Part 3: execution	3.1 partition installation	<p>3.1.1 stud system erection—Attach steel runners at floor and ceiling to structural elements with suitable fasteners located 2" from each end and spaced 24" o.c. Studs should be cut 1/2" short of full height to allow for perimeter relief. Position studs vertically, with open sides facing in same direction, engaging floor and ceiling runners, and spaced maximum 24" o.c. Place studs in direct contact with all door jambs, abutting partitions, partition corners, and existing structural elements. Anchor all studs for shelf-walls and those adjacent to door and window openings, partition intersections, and corners to ceiling and floor runners with screws or metal lock fastener tool. Refer to SA923 for complete gypsum panel steel framing recommendations.</p> <p>3.1.2 cavity shaft wall erection—install studs and liner panel in accordance with SA926, <i>Cavity Shaft Wall Systems</i>.</p> <p>3.1.3 sound attenuation fireblanket installation—Install SAFBs after one layer of gypsum panels is applied and before panels are applied to other side of studs. Inset 24" wide blanket in stud cavity. Butt ends of blankets closely together and fill all voids.</p> <p>3.1.4 gypsum panel installation</p> <p>a. 3/4" thick SHEETROCK brand Gypsum Panels, ULTRACODE Core, shall be scored and cut from the back side of the assembly. Panels applied with vertical end joints or vertical wrapped edges parallel to and fully supported by steel framing. Stagger board joints 12" o.c. on opposite sides of the partition. In multiple layer systems, stagger face panel joints by 12" from base layer panel joints.</p> <p>b. Extend panels the full height of the partition from the floor to top runner track. To minimize end joints, use panel of maximum practical length. Fit ends and edges closely, but do not force together.</p> <p>c. Attach panels to steel studs with: single layer applications—1-1/2" Type S or S-12 screws spaced 8" o.c. perimeter and 12" o.c. field. Double-layer applications—base layer: 1-1/2" Type S or S-12 screws spaced 24" o.c.; face layer: 2-1/4" Type S or S-12 screws spaced 12" o.c. Space fasteners not less than 3/8" from edges and ends of panels. Drive fasteners in field of panels first, working toward ends and edges. Hold panels in firm contact with framing while driving fasteners. Drive fastener heads slightly below surface of gypsum panels in a uniform dimple without breaking face paper. Offset face layer screws from base layer screws by 1". Secure face layer to base layer along horizontal joints of face layer with 1-1/2" Type G screws midway between steel framing and 1" from horizontal joint.</p> <p>d. Install trim at all internal and external angles formed by the intersection of gypsum panels to other surfaces. Apply corner bead to all vertical or horizontal external corners in accordance with the manufacturer's directions. Treat joints and fastener heads per manufacturer's instructions.</p>
Product Data	<p>Sizes: Panels are 3/4" thick, 4' wide, available in 8', 9', and 10' lengths. Nonstandard lengths are available with minimum quantities.</p> <p>Availability: Available in all areas of the United States. Can be toploaded with other SHEETROCK products.</p> <p>Packaging: Two pieces per bundle.</p> <p>Weight: 2.8 lbs./ft.².</p> <p>Edges: Tapered.</p> <p>Ends: Square.</p>	
<p>Trademarks: The following trademarks used herein are owned by United States Gypsum Company: SHEETROCK, ULTRACODE. THERMAFIBER is a trademark of THERMAFIBER LLC.</p> <p>Notice: We shall not be liable for incidental and 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 the 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 date it was or reasonably should have been discovered.</p> <p>SAFETY FIRST! Follow good safety and industrial hygiene practices during handling and installing all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.</p>		
Submittal Approvals:	<p>Job Name _____</p> <p>Contractor _____</p> <p>Date _____</p>	<p>United States Gypsum Company 125 South Franklin Street P.O. Box 806278 Chicago, IL 60680-4124 A Subsidiary of USG Corporation</p> <p>© 1996, United States Gypsum Company WB2167/12-96 Printed in U.S.A.</p>