

Specifications for
DRYWALL, METAL STUDS AND ACCESSORIES

PART 1: GENERAL:

1.1 SCOPE:

Related Work Specified Elsewhere:

1. Ceramic Tile: Section 9C.
2. Painting: Section 9D.
3. Vinyl Wall Covering: Section 9K.

1.2 DESCRIPTION OF SYSTEMS:

- a. There are three basic types of gypsum board metal studs partitions as follows:
 1. The typical partition consists of 3" metal studs spaced 24" o.c. with one layer of 3/4" gypsum wallboard each side applied vertically and screw attached.
 2. Where called for on the plans, fire rated partitions shall consist of 2" metal studs spaced 24" o.c. with two layers of 3/4" gypsum wallboard each side applied vertically and screw attached.
 3. Where shown on the plans, exterior walls shall be furred with 3/4" steel furring channels at 2'-0" o.c. with one layer of 3/4" gypsum board applied vertically and screw attached.

1.3 SUBMITTALS:

Materials List:

The Contractor shall submit, for the approval of the Architect, a complete and detailed list of all materials, including accessories, specified under this section to be incorporated into the work. Submit the list prior to delivery of any materials to the job site.

1.4 PRODUCT HANDLING:

Manufactured materials shall be delivered in the original packages, containers, and bundles bearing the name of the manufacturer and the brand

name. Cementitious materials shall be stored off the ground under watertight cover and away from sweating walls and other damp surfaces until use. Damaged or deteriorated materials shall be removed from the premises.

1.5 ENVIRONMENTAL CONDITIONS:

- a. Installation of drywall shall not be started until windows are glazed and exterior doors are installed unless openings are temporarily closed with plastic sheeting or oilcloth. Ventilation, either natural or supplied by fans, circulators, or air conditioning system, shall be provided to remove and exhaust excess moisture to the outside of the building.
- b. Installation in Cold Weather: When the ambient temperature is below 55 degrees F., heat shall be maintained in the building continuously and uniformly at not less than 55 degrees F. from 1 week prior to beginning of drywall operation, during drywall installation and until drywall is sufficiently dry to receive surface finishing materials.

PART 2: MATERIALS:

2.1 MATERIALS:

- a. **USG Metal Studs** - (Standard) No. 300 (3") and No. 200 (2").
- b. **USG Metal Runner** - (Standard No. 300 (3") and No. 200 (2").
- c. **Faceboards** - (3/4") thick 48" wide Sheetrock SW Fire Code "C" gyp board
- d. **Furring Channels:** hat-shaped; 1-3/8 inch face width; 7/8 inch depth; galvanized steel.
- e. **Metal corner reinforcement;** formed of galvanized steel with perforated reinforcing wing 1-3/16 inch wide.
- f. **Metal Trim** - channel shape suitable for taping on exposed side equal to U.S.G. 200A. Angle type suitable for taping may be used when edge of gyp board is not exposed.
- g. **Sound retardant board:** 3/4-inch medium mineral fiber board; flame spread classification 5, ASTM non-combustible Class A rating.

- h. **Water Resistant Gypsum Board:** 5/8 inch thick; tapered edges, fire code "C".
- i. **Edge Sealer for water resistant gypsum board:** as recommended by the wallboard manufacturer.
- j. **Adhesive for laminating wallboard:** as recommended by the wallboard manufacturer.
- k. **Joint taping system:** as recommended by the wallboard manufacturer using perforated tape and joint compound applied in three separate operations.
- l. **Acoustical caulking compound;** synthetic rubber, consistency of 290-310 ASTM D-217 brass cone, 5 seconds, 150 grams to the moving load; non-staining; specially prepared for use as an acoustical sealant.
- m. **Control Joints:** U.S.G. #093 or equal.

PART 3: EXECUTION

3.1 ERECTION OF PARTITION FRAMING:

- a. Generally, install partition framing in accordance with manufacturer's printed instructions.
- b. Accurately align floor and ceiling according to the partition layout indicated on the drawings. Attach tracks with concrete stud nails or power-driven fasteners. Attach floor track at 24 inches on centers maximum; ceiling track at 36 inches on centers maximum.
- c. Install studs spaced at a maximum of 24 inches on centers. Rigidly fasten studs to the floor and ceiling tracks.
- d. Refer to drawings for framing conditions at steel door frames. Double metal studs at jambs and heads forming a boxed section as detailed. Place studs in direct contact with frame anchors.
- e. Anchor all studs for those adjacent to door and window frames, partition intersections, and corners to ceiling and floor runner flanges with USG Metal Lock Fastener tool or by sheetmetal screws. Securely anchor studs to jamb and head anchor clips of door or borrowed light frames by bolt or screw attachment.

3.2 INSTALLATION OF WALL FURRING STRIPS:

Install metal furring strips where detailed. Install strips vertically. Space strips at a maximum of 24 inches on centers. Attach strips to masonry with cut nails and to concrete with power driven fasteners. Space fasteners at 24 inches on center and staggered on opposite flanges of the strip. Locate a strip at all joints in the wallboard.

3.3 INSTALLATION OF WALLBOARD:

- a. Install gypsum wallboard on all partitions unless otherwise indicated to receive other covering. Install water resistant wallboard behind ceramic tile. Install sound retardant board where indicated.
- b. Attach gypsum wallboard to metal studs with screws of the type and at the spacing recommended by the wallboard manufacturer. Space screws as required for the specified fire rating. All vertical joints shall fall on a stud line. Where double layer application occurs, apply both layers vertically with joints in face layer offset from base layer joints.
- c. Attach wallboard to metal furring with screws as recommended by the wallboard manufacturer.

3.4 INSTALLATION OF ACCESSORIES:

- a. Install corner beads at all external corners.
- b. Install control joints where indicated on the drawings, but at not more than 30 feet o.c. horizontally where gypsum wallboard is not otherwise broken. Break wallboard behind joint and back by double studs. Attach control joints to face layer with staples spaced 6" o.c. on both flanges along entire length of joints.
- c. Install metal trim wherever gypsum wallboard abuts dissimilar materials and elsewhere as indicated on the drawings.
- d. Secure accessories by stapling directly to the gypsum wallboard.

3.5 FINISHING OF JOINTS:

Finish all joints, heads of fasteners, indentions in the surface of the wallboard and imperfections in the surface with the recommended joint compound and taping system. Apply in strict accordance with the manufacturer's printed instructions. Finish all joints flush with the adjacent wallboard surface.

3.6 INSTALLATION OF SOUND-RETARDANT CAULKING COMPOUND:

Install two beads of caulk at the quarter points under all floor runner tracks of all sound-rated partitions. Install a bead of caulk under the first layer of wallboard on each side of the sound rated partitions. Caulk around all electrical outlets and similar openings in the wallboard.