

ARCHITECTURAL SPECIFICATIONS

PART 1 – GENERAL

1.0 Description of Work

Types of Work: The types of work herein specified include, but are not limited to, CT Shaftwall, CT Stairwall and H-Stud Area Separation Wall System.

1.1 Quality Assurance

- A. Fire Resistance Ratings: Where shaftwall/stairwall systems with fire resistance ratings are indicated, provide UL Classified Liner Board.
- B. Provide fire resistance rated assemblies identical to those indicated by reference to WHI (Warnock Hersey International) numbers or in listing of other testing agencies acceptable to authorities having jurisdiction.

1.2 Qualifications

All shaftwall/stairwall framing materials shall be manufactured by Marino\WARE®. All materials shall be installed in accordance with printed installation instructions as required by the testing agency.

1.3 Submittals

Product Data: Submit Marino\WARE's descriptive literature for each shaftwall/stairwall and Area Separation Wall component indicating materials, dimensions, and other data required to show compliance with the specifications.

1.4 Delivery, Storage and Handling

- C. Deliver materials in original packages, containers or bundles bearing Marino\WARE's brand name and identification.
- D. Store materials level, inside, under cover. Keep materials dry and protect from weather and damage from construction operations and other causes.
- E. Handle system components to prevent damage to edges, ends or surfaces. Protect metal accessories, framing and trim from bending and damage.

PART 2 – PRODUCTS

2.0 Materials

A. Metal framing:

1. CT Studs:
 - a. Galvanized steel, conforming to ASTM C 645 manufactured by Marino\WARE.
 - b. Width: 2½", 4" and 6"
 - c. Gauge: 18, 20 and 25 (40 ksi)
2. Tabbed Track and Jamb Track:
 - a. Galvanized steel, conforming to ASTM C 645 manufactured by Marino\WARE.
 - b. Width: 2½", 4" and 6"
 - c. Gauge: 20 at elevator doors and masonry cavities and 25 standard elsewhere. (40 ksi)

3. H-Stud and C-Runner:

- a. Galvanized steel, conforming to ASTM C 645 manufactured by Marino\WARE.
- b. Width: 2"
- c. Gauge: 25, 20 (33 ksi)
- d. Mill: 18, 30

- B. Fasteners: For 25-gauge framing – Type S screws.
For 20-gauge framing – Type S-12 screws.

PART 3 – EXECUTION

3.0 Installation

- A. General: Follow Marino\WARE recommendations for installation of metal framing.

3.1 Installation of Framing (Shaftwall/Stairwall)

- A. Installation of Tabbed Track, CT Studs and 1" Liner Board panels.
 1. Layout shaftwall in locations indicated on construction drawings.
 2. Anchor Tabbed Track perimeter framing at abutting horizontal and vertical construction.
 3. Anchor with approved fasteners spaced maximum 24" o.c.
 4. Apply non-hardening, flexible sealant in a continuous application at the perimeter.
 5. Space CT Studs at 24" o.c. Adjust the spacing at ends of shaftwall construction so end studs are minimum 8" from the ends.
 6. Install the first Liner Board panel. The panel length shall be ¾" less than the total height of the framed section. Plumb the panel against the web of the Tabbed Track and bend out tabs in Tabbed Track to secure the panel in place.
 7. Insert a CT Stud into the top and bottom Tabbed Track and fit tightly over the previously installed 1" panel. Allow equal clearance between track and stud at top and bottom Tabbed Track. The stud length shall be ¾" less than the total height of the framed section.
 8. Install the second 1" Liner Board panel inside the Tabbed Track and within the tabs of the CT Studs.
 9. Install succeeding studs and panels in the same manner as described for the first and second panels until the wall section is complete.
 10. Anchor the final panel section at 12" o.c. with tabs from the Tabbed Track.
 11. Where wall heights exceed the standard or available length of the Liner Board panels, the panels shall be cut and stacked with joints occurring within the top or bottom third of the wall height. The shorter panels shall be minimum 24" long and of sufficient length to engage 2 studs.

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12. For doors, ducts or other large penetrations or openings, install Jamb Track as perimeter framing. Use 20-gauge track with a 3" back leg for elevator doors and block cavity. Install 12" wide gypsum filler strips for doors exceeding 7'-0" height.

3.2 Installation of Framing (Area Separation Wall)

1. Foundation: Position 2" C-Runner at floor and attach securely to foundation at ends and 24" o.c. Caulk under runner at foundation with min. 1/4" bead of acoustical sealant when specified to reduce noise transmission.
2. First Floor: Install H-Studs and insert Liner Board. Attach two thicknesses of 1" Liner Board vertically in C-Runner with long edges in H-Stud. Continue installing H-Studs and Liner Board alternately until wall is complete. Attach horizontal C-Runner to top of Liner Board, fastening flanges of C-Runner at all corners on both sides of Liner Board with 3/8" drill point screws.
3. Intermediate Floors: Attach C-Runner to C-Runner cap on wall below, staggering end joints at least 12". Fasten C-Runner together using double 3/8" screws at ends and 24" o.c. Fasten H-Studs to adjacent framing with aluminum breakaway clips. Attach breakaway clips to H-Stud with one 3/8" drill point screw and to adjacent wood framing with 11/4" drywall screw. Install fire blocking between solid wall system and adjacent framing at floor lines, bottom of truss line and any other locations according to code requirements.
4. Roof: Cut Liner Board and H-Studs to follow roof pitch. Fasten H-Studs to framing with an aluminum breakaway clip.

3.3 Installation of Gypsum Board

- A. Shaftwall/Stairwall system finished one side:
 1. Install gypsum board in a double layer on one side, either horizontally or vertically.
 2. Install the first layer of gypsum board horizontally with approved fasteners spaced 24" o.c. and 3" from all edges.
 3. Offset the horizontal joints minimum 12" from any splice joints in the Liner Board panels.
 4. Install the face layer of gypsum board parallel to the framing with approved fasteners spaced minimum 12" o.c. and 6" from all edges.
 5. Offset edge and end joints from the base layer at least 24".
- B. Stairwall/Stairwall System, Finished Both Sides:
 1. Install gypsum board on both sides, either horizontally or vertically.

2. Attach gypsum board with approved fasteners spaced 12" o.c. and 6" from all edges.
3. Offset edges and ends of gypsum board on opposite sides minimum 24".

3.4 Finishing

- A. Apply a non-hardening, flexible sealant continuous at all perimeter edges, abutments with dissimilar materials and penetrations in the facing layer.
- B. Tape and finish all joints at face layers with tape and joint compound and finish fastener heads with joint compound meeting ASTM C 475.

3.5 Protection of Work

- A. Protect shaftwall work from damage and deterioration until date of substantial completion
- B. Repair damaged work to be indistinguishable from adjacent work. Replace work that cannot be repaired as required.

LIMITATIONS:

- Non-load-bearing; not to be used as an unlined air supply duct.
- Not designed for exposure to constant high-moisture conditions or direct water.
- Elevator door assemblies require support independent of shaftwall partitions.
- Good construction practice calls for partition control joints to coincide with that of the building structure.
- Limiting loads and heights not to exceed design specifications or data provided herein or by metal component supplier.
- Provide flexible sealant/caulk at partition perimeters and penetrations to avoid air leakage/whistling and dust collection.