

**SECTION 09111 - NON-LOAD-BEARING STEEL FRAMING**

- A. This Section includes non-load-bearing steel framing members for the following applications:
- Interior framing systems (e.g., supports for partition walls, framed soffits, furring, etc.).
  - Interior suspension systems (e.g., supports for ceilings, suspended soffits, etc.).
- B. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
- Steel Sheet Components: Comply with ASTM C 645 requirements for metal, unless otherwise indicated.
  - Protective Coating: ASTM A 653/A 653M, G40 (Z120), hot-dip galvanized, unless otherwise indicated.
- C. Provide conformation that framing will have a maximum deflection of L/240.
- D. Grid Suspension System for Ceilings: ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.
- Products: Subject to compliance with requirements, provide one of the following:
    - Armstrong World Industries, Inc.; Drywall Grid Systems.
    - USG Corporation; Drywall Suspension System.
- E. Steel Studs and Runners: ASTM C 645.
- Minimum Base-Metal Thickness: 0.0312 inch (0.79 mm).
  - Depth: As indicated on Drawings.
- F. Slip-Type Head Joints: Where indicated, provide the following:
- Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
- G. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
- Minimum Base-Metal Thickness: 0.0312 inch (0.79 mm).
- H. Cold-Rolled Channel Bridging: 0.0538-inch (1.37-mm) bare-steel thickness, with minimum 1/2-inch- (12.7-mm-) wide flanges.
- Clip Angle: Not less than 1-1/2 by 1-1/2 inches (38.1 by 38.1 mm), 0.068-inch- (1.73-mm-) thick, galvanized steel.
- I. Hat-Shaped, Rigid Furring Channels: ASTM C 645.
- Minimum Base Metal Thickness: 0.0312 inch (0.79 mm).
  - Depth: 7/8 inch (22.2 mm).
- J. Resilient Furring Channels: 1/2-inch- (12.7-mm-) deep, steel sheet members designed to reduce sound transmission.
- Configuration: Asymmetrical.
- K. Cold-Rolled Furring Channels: 0.0538-inch (1.37-mm) bare-steel thickness, with minimum 1/2-inch- (12.7-mm-) wide flanges.
- Depth: 3/4 inch (19.1 mm).
  - Furring Brackets: Adjustable, corrugated-edge type of steel sheet with minimum bare-steel thickness of 0.0312 inch (0.79 mm).
  - Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch- (1.59-mm-) diameter wire, or double strand of 0.0475-inch- (1.21-mm-) diameter wire.
- L. Z-Shaped Furring: With slotted or non-slotted web, face flange of 1-1/4 inches (31.8 mm), wall attachment flange of 7/8 inch (22.2 mm), minimum bare-metal thickness of 0.0179 inch (0.45 mm), and depth required to fit insulation thickness indicated.
- M. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.
- N. Isolation Strip at Exterior Walls: Provide one of the following:
- Asphalt-Saturated Organic Felt: ASTM D 226, Type I (No. 15 asphalt felt), nonperforated.
  - Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch (3.2 mm) thick, in width to suit steel stud size.
- O. Installation Standard: ASTM C 754, except comply with framing sizes and spacing indicated.
- Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.
- P. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
- Q. Suspend hangers from building structure as follows:
- Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
    - Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
  - Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
    - Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced installation standards.
  - Do not attach hangers to steel roof deck.
  - Do not attach hangers to permanent metal forms. Furnish cast-in-place hanger inserts that extend through forms.
  - Do not attach hangers to rolled-in hanger tabs of composite steel floor deck.
  - Do not connect or suspend steel framing from ducts, pipes, or conduit.

**SECTION 09111 - CONTINUED**

- Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross members to each other and butt to fit into wall track.
- R. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet (3 mm in 3.6 m) measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.
- S. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
- T. Install studs so flanges within framing system point in same direction.
- Space studs as follows:
    - Single Application: 16 inches (406 mm) O.C., unless otherwise indicated.
    - Multilayer Application: 16 inches (406 mm) O.C., unless otherwise indicated.
    - Tile backing panels: 16 inches (406 mm) O.C., unless otherwise indicated.
- U. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings, except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts penetrating partitions above ceiling.
- Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
  - Door Openings: Screw vertical studs at jamba to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
    - Install two studs at each jamb, unless otherwise indicated.
    - Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch (12.7-mm) clearance from jamb stud to allow for installation of control joint in finished assembly.
    - Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
  - Other Framed Openings: Frame openings other than door openings the same as required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
  - Curved Partitions:
    - Bend track to uniform curve and locate straight lengths so they are tangent to arcs.
    - Begin and end each arc with a stud, and space intermediate studs equally along arcs. On straight lengths of not less than 2 studs at ends of arcs, place studs 6 inches (150 mm) O.C.
- V. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch (3 mm) from the plane formed by faces of adjacent framing.
- W. Provide signed and sealed documents by a licensed Professional Engineer that describes the framing system including: fastener size and spacing, stud size, gauge and spacing

END OF SECTION 09111

**SECTION 09250 - GYPSUM BOARD**

- A. This Section includes the following:
- Interior gypsum board.
  - Tile backing panels.
- B. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
- Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - G-P Gypsum
- C. Regular Type: Glass Mat Gypsum Board
- Thickness: 5/8 inch (15.9 mm).
  - Long Edges: Tapered.
- D. Type X: Glass Mat Gypsum Board
- Thickness: 5/8 inch (15.9 mm).
  - Long Edges: Tapered.
- E. Ceiling Type: Manufactured to have more sag resistance than regular-type gypsum board.
- Thickness: 1/2 inch (12.7 mm).
  - Long Edges: Tapered.
- F. Glass-Mat, Water-Resistant Tile Backing Board:
- Complying with ASTM C 1178/C 1178M.
    - Product: Subject to compliance with requirements, provide "DensShield Tile Guard" by G-P Gypsum.
- G. Interior Trim: ASTM C 1047.
- Material: Galvanized or aluminum-coated steel sheet.
  - Shapes:
    - Cornerbead.
    - Bullnose bead.
    - L-Bead: L-shaped; exposed long flange receives joint compound..
    - Expansion (control) joint.
    - Extruded accessories.
  - Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - Fry Reglet Corp.
    - Gordon, Inc.
    - Pittcon Industries.
- H. Joint Treatment Material: Comply with ASTM C 475/C 475M.
- I. Joint Tape:
- Interior Gypsum Wallboard: Paper.
  - Tile Backing Panels: As recommended by panel manufacturer.
- J. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
- Prefilling: At open joints beveled panel edges, and damaged surface areas, use setting-type taping compound.
  - Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
    - Use setting-type compound for installing paper-faced metal trim accessories.
  - Fill Coat: For second coat, use setting-type, sandable topping compound.
  - Finish Coat: For third coat, use setting-type, sandable topping compound.
- K. Joint Compound for Tile Backing Panels:
- Glass-Mat, Water-Resistant Backing Panel: As recommended by backing panel manufacturer.
  - Use screws complying with ASTM C 954 for fastening panels to steel members.
- L. Applying and Finishing Panels: Comply with ASTM C 840.
- M. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- N. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- (6.4- to 12.7-mm-) wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- O. Install interior gypsum board in the following locations:
- Regular Type: As indicated on Drawings.
  - Ceiling Type: Ceiling surfaces.
- P. Glass-Mat, Water-Resistant Backing Panel: Comply with manufacturer's written installation instructions and install at locations indicated to receive tile. Install with 1/4-inch (6.4-mm) gap where panels abut other construction or penetrations.
- Q. Areas Not Subject to Wetting: Install regular-type gypsum wallboard panels to produce a flat surface except at showers, tubs, and other locations indicated to receive water-resistant panels.
- R. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.
- S. Installing trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- T. Control Joints: Install control joints at locations indicated on Drawings.
- U. Interior Trim: Install in the following locations:
- LC-Bead: Use at exposed panel edges.
  - L-Bead: Use where indicated.
- V. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
- W. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
- Level 1: Concealed areas, and where indicated.
  - Level 2: Panels that are substrate for tile.
  - Level 4: At panel surfaces that will be exposed to view, unless otherwise indicated.
  - Level 5: As noted on the drawings.
- X. Glass-Mat, Water-Resistant Backing Panels: Finish according to manufacturer's written instructions.
- Y. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- Z. Remove and replace panels that are wet, moisture damaged, and mold damaged.
- END OF SECTION 09250

**SECTION 09310 - CERAMIC TILE**

- A. See attached "Color & Material Legend."
- B. This Section includes the following:
- Porcelain floor tile.
  - Ceramic wall tile.
  - Special-purpose tile.
  - Stone thresholds installed as part of tile installations.
  - Crack-suppression membrane for thin-set tile installations.
  - Metal edge strips installed as part of tile installations.
- C. Submit product data and sample for each tile and grout indicated for approval.
- D. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
- Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed, for each type, composition, color, pattern, and size indicated.
- E. Thresholds: Fabricate to provide transition between adjacent floor finishes. Bevel edges at 1:2 slope, limit height of bevel to 1/2 inch (12.7 mm) or less, and finish level to match face of threshold.
- Marble Thresholds: ASTM C 503 with a minimum abrasion resistance of 10 per ASTM C 1353 or ASTM C 241 and with honed finish.
    - Description: Uniform, fine- to medium-grained white stone with gray veining.
- F. Crack-Suppression Membranes for Thin-Set Tile Installations: Manufacturer's standard product that complies with ANSI A118.10, selected from the following.
- Chlorinated-Polyethylene-Sheet Product: Nonplasticized, chlorinated polyethylene faced on both sides with nonwoven polyester fabric, 0.030-inch (0.76-mm) nominal thickness.
    - Product: Noble Company (The); Nobleseal TS.
- G. Setting and Grout materials.
- MAPEI Corporation.
- H. Dry-Set Portland Cement Mortar (Thin Set): ANSI A118.1, TCNA W245-05.
- For wall applications, provide nonsagging mortar.
- I. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4, TCNA F125-05.
- Prepackaged dry-mortar mix combined with liquid-latex additive.
- J. Elastomeric Sealants: Elastomeric sealants of base polymer and characteristics indicated that comply with applicable requirements in Division 7 Section "Joint Sealants."
- One-Part, Mildew-Resistant Silicone: ASTM C 920; Type S; Grade NS; Class 25; Uses NT, G, A, and, as applicable to nonporous joint substrates indicated, O; formulated with fungicide, intended for in-service exposures of high humidity and extreme temperatures.
    - Products:
      - Dow Corning Corporation; Dow Corning 786.
      - GE Silicones; Sanitary 1700.
      - Pecora Corporation; Pecora 898 Sanitary Silicone Sealant.
      - Tremco, Inc.; Tremsil 600 White.
- K. Metal Edge Strips: Angle or L-shape, stainless steel; ASTM A 666, 300 Series exposed-edge material.
- L. Grout Sealer: Manufacturer's standard silicone product for sealing grout joints that does not change color or appearance of grout.
- M. Remove coatings, including curing compounds and other substances that contain soap, wax, oil, or silicone, that are incompatible with tile-setting materials.
- N. Fill cracks, holes, and depressions with trowelable leveling and patching compound according to tile-setting material manufacturer's written instructions.
- O. Remove protrusions, bumps, and ridges by sanding or grinding.
- P. Blending: For tile exhibiting color variations, use factory blended tile or blend tiles at Project site before installing.
- Q. Field-Applied Temporary Protective Coating: Where indicated under tile type or needed to prevent grout from staining or adhering to exposed tile surfaces, precoat them with continuous film of temporary protective coating, taking care not to coat unexposed tile surfaces.
- R. TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation." Comply with TCA installation methods indicated in ceramic tile installation schedules.
- S. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions, unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- T. Locate joints in tile surfaces directly above joints in concrete substrates.
- U. Grout tile to comply with requirements of ANSI A108.10, unless otherwise indicated.
- V. Install waterproofing to comply with ANSI A108.13 and waterproofing manufacturer's written instructions to produce waterproof membrane of uniform thickness bonded securely to substrate.
- Do not install tile over waterproofing until waterproofing has cured and been tested to determine that it is watertight.
  - Tile floors composed of tiles 8 by 8 inches (200 by 200 mm) or larger.
  - Tile floors composed of rib-backed tiles.
- X. Install tile on floors with joint widths based on tile manufacturers recommendation.
- Y. Stone Thresholds: Install stone thresholds at locations indicated; set in same type of setting bed as abutting field tile, unless otherwise indicated.
- Set thresholds in latex-portland cement mortar for locations where mortar bed would otherwise be exposed above adjacent nontile floor finish.
- Z. Metal Edge Strips: Install at locations indicated or where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile.
- AA. Interior floor installation on concrete; thin-set mortar; TCA FR5-05 (existing slab).
- BB. Interior floor installation on waterproof crack-suppression membrane over concrete; cement mortar bed (thickset); TCA F121 (shower floors).
- CC. Interior floor installation on crack-suppression membrane over concrete; thin-set mortar; TCA F122-05 (new slab).
- DD. Interior wall installation over glass-mat, water-resistant backer board; thin-set mortar TCA W245-05.
- END OF SECTION 09310



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