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DIVISION 9 - FINISHES

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END OF SECTION C09111

SECTION - C09111: NON-LOAD-BEARING STEEL FRAMING

PART I - GENERAL

SUMMARY

1. Interior suspension systems (e.g., supports for partition walls, framed soffits, furring, etc.).

2. Interior suspension systems (e.g., supports for ceilings, suspended soffits, etc.). This section will be applicable depending on the construction type shown on the drawings.

QUALITY ASSURANCE

1. Fire-Test-Response Characteristics: Provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by a testing and inspection agency.

PART II - PRODUCTS

NON-LOAD-BEARING STEEL FRAMING, GENERAL

1. Framing Members, General: Comply with ASTM C 754 for conditions indicated.

2. Steel Sheet Components: Comply with ASTM C 645 requirements for metal, unless otherwise indicated.

3. Protective Coating: ASTM A 653/A 653M, G90 (Z275).

SUSPENSION SYSTEM COMPONENTS

1. 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.

2. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.162-inch- (4.12-mm) diameter.

3. Grid Suspension System for Ceilings: ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.

4. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:

5. a. Armstrong World Industries, Inc.; Drywall Grid Systems.

6. b. Chicago Metallic Corporation; Drywall Furring System.

7. c. USG Corporation; Drywall Suspension System.

STEEL FRAMING FOR FRAMED ASSEMBLIES

1. Manufacturers:

2. a. Dietrick Metal Framing, Chester, OH, 45069

3. b. Substitutions shall be accepted per SECTION C01030

STEEL STUDS AND RUNNERS: ASTM C 645.

1. Minimum Base-Metal Thickness: 0.0312 inch (0.79 mm) As well as, as indicated on drawings.

2. Depth: As indicated on Drawings.

3. Slip-Type Head Joints: Where indicated, provide the following:

4. 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.

PART III - EXECUTION

INSTALLATION, GENERAL

1. Installation Standard: ASTM C 754, except comply with framing sizes and spacing indicated.

2. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.

INSTALLING SUSPENSION SYSTEMS

1. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.

2. Suspend hangers from building structure as follows:

3. 1. 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.

4. a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplicing, or other equally effective means.

5. 2. 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.

6. 3. Do not attach hangers to steel roof deck.

7. 4. Do not connect or suspend steel framing from ducts, pipes, or conduit.

8. 5. Do not attach hangers to exhaust hoods.

9. C. Seismic Bracing: Sway-brace suspension systems with hangers used for support.

10. D. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.

11. E. 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.

INSTALLING FRAMED ASSEMBLIES

1. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.

2. Install studs so flanges within framing system point in same direction.

3. Space studs as follows:

4. a. As indicated on drawings.

5. 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.

6. 1. 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.

7. 2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.

8. a. Install two studs at each jamb, unless otherwise indicated.

9. b. 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.

10. c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.

11. 3. 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.

12. 4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.

13. a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.

14. D. Direct Furring:

15. 1. Screw to wood framing.

16. E. 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.

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SECTION - C09250: GYPSUM BOARD

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END OF SECTION C09250

SECTION - C09310: CERAMIC & GLASS TILE

PART I - GENERAL

SECTION INCLUDES

1. Ceramic tile for walls.

2. Glass Tile for walls.

3. Subway Tile for walls.

4. Red Penny Tile for walls.

5. Porcelain Tile for floors.

6. Base Tile for walls.

7. Setting adhesives and grout.

RELATED SECTIONS

1. Cast-In-Place Concrete: SECTION C03300

2. Gypsum Board Systems: SECTION C09250

REFERENCE PUBLICATIONS

1. Tile Council of America (TCA): Most Current "Handbook for Ceramic Tile Installation"

2. American National Standards Institute (ANSI)

PART II - PRODUCTS

MANUFACTURER

1. The drawings were prepared and this specification written on the basis of using the products of specific manufacturers.

MATERIALS

1. Ceramic Tile, Glass Tile, Subway Tile, Porcelain Tile and Base Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.

2. Cementitious Bond Coat (Thin-set):

3. 1. Floors: Mapei, "Ultraflex 2" Polymer-modified thin set mortar. Meets or exceeds ANSI A118.4 and ANSI A118.11.

4. 2. Base and floors: As recommended by TCA for the particular conditions in which the tile is being set. Refer to Interior Finish Schedule, Floor Finish Plan for coordination.

5. 3. For Glass Tile: As recommended by manufacturer.

6. Interior Grout:

7. 1. Latex Portland cement grout conforming to ANSI A118.6; color (pigment additive) - drawings.

8. 2. Floors - Acid resistant grout, color (pigment additive) as shown on drawings.

PART III - EXECUTION

INSPECTION

1. Examine all surfaces receiving tile for any defects that would impair installation and if any are found, make such corrections. Contractor shall apply leveling coat of dry-set mortar over wall and floor surfaces which vary more than 1/8-inch in 10 feet.

2. Installation constitutes acceptance of the substrate.

INSTALLATION

1. Standard practice will be expected and accepted; poor or sloppy workmanship will be rejected.

2. Interior: Conform to manufacturer's printed specifications and instructions, and to "thin setting" and "grout joints" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job.

END OF SECTION C09310

SECTION - C09330: QUARRY TILE

PART I - GENERAL

SECTION INCLUDES

1. Quarry tile floor and base

2. Setting adhesives and grout

3. Waterproofing Membrane

RELATED SECTIONS

1. Cast-In-Place Concrete: SECTION C03300

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REFERENCE PUBLICATIONS

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PART II - PRODUCTS

MANUFACTURER

1. The drawings were prepared and this specification written on the basis of using the products of specific manufacturers.

MATERIALS

1. Quarry Tile, Glass Tile, Subway Tile, Porcelain Tile and Base Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.

2. Cementitious Bond Coat (Thin-set):

3. 1. Floors: Mapei, "Ultraflex 2" Polymer-modified thin set mortar. Meets or exceeds ANSI A118.4 and ANSI A118.11.

4. 2. Base and floors: As recommended by TCA for the particular conditions in which the tile is being set. Refer to Interior Finish Schedule, Floor Finish Plan for coordination.

5. 3. For Glass Tile: As recommended by manufacturer.

6. Interior Grout:

7. 1. Latex Portland cement grout conforming to ANSI A118.6; color (pigment additive) - drawings.

8. 2. Floors - Acid resistant grout, color (pigment additive) as shown on drawings.

PART III - EXECUTION

INSPECTION

1. Examine all surfaces receiving tile for any defects that would impair installation and if any are found, make such corrections. Contractor shall apply leveling coat of dry-set mortar over wall and floor surfaces which vary more than 1/8-inch in 10 feet.

2. Installation constitutes acceptance of the substrate.

INSTALLATION

1. Standard practice will be expected and accepted; poor or sloppy workmanship will be rejected.

2. Interior: Conform to manufacturer's printed specifications and instructions, and to "thin setting" and "grout joints" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job.

END OF SECTION C09310

SECTION - C09330: QUARRY TILE

PART I - GENERAL

SECTION INCLUDES

1. Quarry tile floor and base

2. Setting adhesives and grout

3. Waterproofing Membrane

RELATED SECTIONS

1. Cast-In-Place Concrete: SECTION C03300

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ADJUSTING AND CLEANING

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END OF SECTION C09510

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END OF SECTION C09330

SECTION - C09510: ACOUSTICAL PANEL CEILINGS

PART I - GENERAL

SUMMARY

1. This section includes ceilings consisting of acoustical panels and exposed suspension systems.

SUBMITTALS

1. Submit Shop Drawings per SUBMITTALS Section: Base on details shown on the Drawings. Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.

RELATED SECTIONS

1. Gypsum Board: SECTION C09250

2. Division 15 - Mechanical Work

3. Division 16 - Electrical Work

QUALITY ASSURANCE

1. Single-Source: Provide acoustical panel units and grid components by a single manufacturer.

2. Fire Performance: Identify acoustical ceiling components with appropriate markings of applicable testing and inspection organization.

3. Surface Burning Characteristics: Tested per ASTM E 84 and complying with ASTM E 1254 for Class A Products.

4. a. Flame Spread: 25 or less

5. b. Smoke Developed: 50 or Less

DELIVERY, STORAGE AND HANDLING

1. Deliver units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination and other causes.

2. Before installing units, permit them to reach room temperature and stabilized moisture content.

3. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

PART II - PRODUCTS

MANUFACTURERS

1. Lay-In Ceiling Tiles (Dining/Serving): CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482; (800) 233-8990: Refer to drawings

2. Lay-In Ceiling Tiles (Kitchen/Back-of-House): CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482; (800) 233-8990: Refer to drawings.

3. Metal Suspension System: CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482; (800) 233-8990: Refer to drawings.

4. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung.

5. Wire Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least three times design load, but not less than 12 gauge.

6. Edge Molding and Trim: Manufacturer's standard moldings for edge and penetrations.

PART III - EXECUTION

PREPARATION

1. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

INSTALLATION

1. Install suspension system and acoustical panel assemblies to comply with written publications from the manufacturer.

2. Suspend main beam from overhead construction with hanger wires plumb and free. Space hangers not more than 48-inches on center along the length of the main runner. Follow appropriate guidelines for earthquake zones.

3. Install edge molding and trim at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.

4. Install acoustical panels with undamaged edges and fitted accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.