

SECTION 095100
ACOUSTICAL CEILINGS - USG

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Suspended metal grid ceiling systems.
- B. Acoustical and nonacoustical units.

The paragraph below is optional text

- C. Supplementary acoustical insulation above ceiling.
- D. Wall angles and shadow moldings.

The paragraph below is optional text

- E. Special trims and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions.

1.03 REFERENCE STANDARDS

- A. ASTM A580/A580M - Standard Specification for Stainless Steel Wire 2018.
- B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.
- C. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate 2021a.
- D. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method 2022.
- E. ASTM C635/C635M - Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings 2022.
- F. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels 2019.
- G. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2022.
- H. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials 2020.

The paragraph below is optional text

- I. ASTM E413 - Classification for Rating Sound Insulation 2022.
- J. ASTM E1264 - Standard Classification for Acoustical Ceiling Products 2022.
- K. UL (GGG) - GREENGUARD Gold Certified Products Current Edition.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate work of this section with installation of mechanical and electrical components and with other construction activities affected by work of this section.
 - 1. Review with affected installers those locations of facility services lines and equipment within ceiling plenum that prevent installation of hangers at spacings compliant with limitations established in referenced standards. Arrange for each affected mechanical or electrical installer to provide necessary number of additional structural support points for ceiling installer.
- B. Preinstallation Meeting: Convene one week before starting work of this section.
- C. Sequencing: Schedule work of affected trades to minimize or eliminate installation conflicts and rework.

1. Supply hanger clips during steel deck erection. Supply additional hangers and inserts as required.
2. Ensure that acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved. Do not install acoustical units until after interior wet work is dry.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate grid layout and related dimensioning.
- C. Product Data: Provide data on suspension system components and acoustical units.
- D. Samples: Two samples [_____] by [_____] inches ([_____] by [_____] mm) in size indicating material and finish of acoustical units.
- E. Samples: Two samples each, [_____] inches ([_____] mm) long of suspension system main runner, cross runner, and perimeter molding.

The paragraph below is optional text

- F. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- G. Designer's qualification statement.
- H. Installer's qualification statement.
- I. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

The paragraph below is optional text

1. See Section 016000 - Product Requirements for additional provisions.

The paragraph below is optional text

2. Extra Acoustical Units: [_____] sq ft ([_____] sq m) of each type and size.

The paragraph below is optional text

3. Extra Acoustical Units: Quantity equal to 5 percent of total installed.

1.06 QUALITY ASSURANCE

- A. Designer Qualifications for Seismic Design: Perform under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State in which the Project is located.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience and approved by manufacturer.

1.07 FIELD CONDITIONS

- A. Maintain uniform temperature of minimum 60 degrees F (16 degrees C), and maximum humidity of 40 percent before, during, and after acoustical unit installation.

PART 2 PRODUCTS

2.01 CEILING ASSEMBLIES

- A. Acoustical Ceiling Assembly Type APC-1:
 1. Acoustical Units: [Radar High Durability 5/8"] [Radar High-NRC 3/4"] [Radar High-NRC 7/8"] [Radar High-NRC/High-CAC 7/8"] [Radar High-NRC/High-CAC 3/4"], Item No. [2207] [2407] [2227] [22421] [22111] [22350] [22121] [22122] [22370] [22127] [22441] [22541] [22523] [22360].
 - a. Panel Size: [24 inches by 24 inches (609.6 mm by 609.6 mm)] [24 inches by 48 inches (2 by 4) panel (609.6 mm by 1219.2 mm)].
 - b. Panel Edge: [FLB],[SLT],[SQ] edge.
 - c. Color: [Flat White 050].

- d. Characteristics: Noise Reduction Coefficient = [0.55] [0.7], Ceiling Attenuation Class = [35] [40], Light Reflectance = 0.84, Recycled Content = [26%] [38%] [57%], Environmental Product Declaration: Yes, Health Product Declaration: Yes, GreenGuard Gold: Yes, EC3 Score: N/A, ClimaPlus Warranty: Yes.
- 2. Suspension Grid: [Donn Centricitee DXLT 9/16-inch Suspension System],[Donn Centricitee DXT 9/16-inch Suspension System],[Donn DX 15/16-inch Suspension System],[Donn DXL 15/16-inch Suspension System],[Donn DXW 1-1/2-inch Suspension System],[Donn Fineline 1/8 DXFF Suspension System],[Donn Fineline DXF Suspension System],[Donn Fineline DXLF Suspension System],[Donn Identitee DXI Suspension System].
 - a. Color: [Flat White 050].

2.02 CEILING PERFORMANCE REQUIREMENTS

- A. Design for maximum deflection of [1/360] of span.
- B. Fire-Resistance Rating: Determined in accordance with test procedures in ASTM E119 and complying with the following:

The paragraph below is optional text

- 1. UL (FRD) Assembly Design No. [_____].

The paragraph below is optional text

- 2. ICC-ES Evaluation Report No. [_____].

- C. Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category [D],[E],[or F] and complying with the following:

The paragraph below is optional text

- 1. Local authorities having jurisdiction.

The paragraph below is optional text

- 2. ICC-ES Evaluation Report No. [_____].

2.03 CEILING COMPONENT PRODUCTS

- A. Acoustical Units:
 - 1. Acoustical Units - General: ASTM E1264, Fire Class A.
 - a. VOC Content: As specified in Section 016116.
 - b. VOC Content: Certified as Low Emission by one of the following:
 - 1) Product listing in UL (GGG).
 - 2) Product listing in CHPS (HPPD).
 - c. Noise Reduction Coefficient (NRC) rating, Ceiling Attenuation Class (CAC) rating, and Light Reflectance Coefficient (LR) performance for each type of unit specified below, as determined in accordance with ASTM E1264.
 - d. Fire Class / Surface Burning Characteristics: Determined in accordance with test method ASTM E84.
 - 1) Surface Burning Characteristics: Unless otherwise indicated, flame spread index of [25 or less], smoke developed index of [50 or less].
 - 2. Acoustical Panels: Painted mineral fiber, with the following characteristics:
 - a. Application(s): [_____].
 - b. Classification: ASTM E1264 Type III.
 - 1) Form(s): Includes the following, as applicable to each product specified.
 - (a) Form 2 - Water felted.
 - 2) Pattern(s): Includes the following, as applicable to each product specified.
 - (a) C - Perforated, small holes.
 - (b) E - Lightly textured.

- c. Thickness: As applicable to each product specified.
 - d. Recycled Content: As applicable to selected products.
 - e. Material Ingredients Transparency: Products included in the USG EcoBlueprint Program.
 - f. Low Emissions (VOC): Greenguard-certified products.
 - g. Products:
 - 1) USG Corporation; Radar High-Durability Panels: www.usg.com/ceilings/#sle.
 - 2) USG Corporation; Radar High-NRC Panels: www.usg.com/ceilings/#sle.
 - 3) USG Corporation; Radar High-NRC/High-CAC Panels: www.usg.com/ceilings/#sle.
 - 4) Substitutions: [Not permitted].
3. Acoustical Panels: Painted mineral fiber, with the following characteristics:
- a. Application(s): Fire-resistance-rated assemblies.
 - b. Classification: ASTM E1264 Type III.
 - 1) Form(s): Includes the following, as applicable to each product specified.
 - (a) Form 2 - Water felted.
 - 2) Pattern(s): Includes the following, as applicable to each product specified.
 - (a) C - Perforated, small holes.
 - (b) E - Lightly textured.
 - c. Thickness: As applicable to each product specified.
 - d. Recycled Content: As applicable to selected products.
 - e. Material Ingredients Transparency: Products included in the USG EcoBlueprint Program.
 - f. Low Emissions (VOC): Greenguard-certified products.
 - g. Products:
 - 1) USG Corporation; Radar High-NRC FIRECODE 3/4" Panels: www.usg.com/ceilings/#sle.
 - 2) USG Corporation; Radar High-NRC/High-CAC FIRECODE 3/4" Panels: www.usg.com/ceilings/#sle.
 - 3) Substitutions: Not permitted.
- B. Suspension Systems:
- 1. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with [curtain pockets],[splices],[wall angles and moldings] as required.
 - a. Materials:
 - 1) Steel Grid: ASTM A653/A653M [G30] coating, unless otherwise indicated.
 - 2. Exposed Acoustical Suspension System: Hot-dipped galvanized steel grid and cap.
 - a. Application(s): [Fire-resistance-rated assemblies].
 - b. Structural Classification: [Intermediate-duty], when tested in accordance with ASTM C635/C635M.
 - c. Recycled Materials Content: Classified as containing greater than 50 percent total recycled content. Available for specific sizes and lengths.
 - d. Profile: Tee; 15/16 inch (24 mm) face width.
 - e. Finish: [Baked enamel].
 - f. Color: [White].
 - g. Products:
 - 1) USG Corporation; [DX],[DXL] 15/16 Inch Suspension System: www.usg.com/ceilings/#sle.
 - 2) Substitutions: [Not permitted].
 - 3. Exposed Acoustical Suspension System: Hot-dipped galvanized steel grid and cap.
 - a. Application(s): Fire-resistance-rated assemblies.
 - b. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.

- c. Recycled Materials Content: Classified as containing greater than 50 percent total recycled content. Available for specific sizes and lengths.
 - d. Profile: Tee; 9/16 inch (14 mm) face width.
 - e. Finish: Baked enamel.
 - f. Color: White.
 - g. Products:
 - 1) USG Corporation; Centricitee [DXT] [DXLT] 9/16 Inch Suspension System: www.usg.com/ceilings/#sle.
 - 2) Substitutions: Not permitted.
4. Exposed Acoustical Suspension System: Hot-dipped galvanized steel grid.
- a. Application(s): [Fire-resistance-rated assemblies].
 - b. Structural Classification: [Intermediate-duty], when tested in accordance with ASTM C635/C635M.
 - c. Recycled Materials Content: Classified as containing greater than 50 percent total recycled content. Available for specific sizes and lengths.
 - d. Profile: Slotted Reveal Tee; 9/16 inch (14 mm) face width, with 1/4 inch (6.35 mm) wide center reveal.
 - e. Intersections: Mitered.
 - f. Finish: [Baked enamel].
 - g. Color: [White].
 - h. Products:
 - 1) USG Corporation Finline [DXF],[DXLF] Suspension System: www.usg.com/ceilings/#sle.
 - 2) Substitutions: [Not permitted].
5. Exposed Acoustical Suspension System: Hot-dipped galvanized steel grid.
- a. Application(s): Seismic.
 - b. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
 - c. Recycled Materials Content: Classified as containing greater than 50 percent total recycled content.
 - d. Profile: Slotted Reveal Tee; 9/16 inch (14 mm) face width, with 1/8 inch (3.2 mm) wide center reveal.
 - e. Intersections: Mitered.
 - f. Finish: Baked enamel.
 - g. Color: White.
 - h. Products:
 - 1) USG Corporation; Finline DXFF Suspension System: www.usg.com/ceilings/#sle.
 - 2) Substitutions: Not permitted.
6. Exposed Suspension System: Hot-dipped galvanized steel grid and cap.
- a. Application(s): Seismic.
 - b. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
 - c. Recycled Materials Content: Classified as containing greater than 50 percent total recycled content.
 - d. Profile: Double reveal Tee; 9/16 inch (14 mm) face width.
 - e. Intersections: Seamless reveal.
 - f. Finish: Baked enamel.
 - g. Color: White.
 - h. Products:
 - 1) USG Corporation; Identitee DXI Suspension System: www.usg.com/ceilings/#sle.
 - 2) Substitutions: Not permitted.

7. Exposed Suspension System: Hot-dipped galvanized steel grid and cap.
 - a. Application(s): Seismic.
 - b. Structural Classification: Heavy-duty, when tested in accordance with ASTM C635/C635M.
 - c. Recycled Materials Content: Classified as containing greater than 50 percent total recycled content.
 - d. Profile: Tee; 1-1/2 inch (38 mm) face width.
 - e. Finish: Baked enamel.
 - f. Color: White.
 - g. Products:
 - 1) USG Corporation; DXW 1-1/2 Inch Suspension System: www.usg.com/ceilings/#sle.
 - 2) Substitutions: Not permitted.

C. Moldings and Trim:

1. Edge Molding [], [Expansion Joints], and Splices - General: Same material, thickness, and finish as metal pan panels, unless otherwise indicated.
2. Perimeter Wall Moldings: [Same metal and finish as grid].
 - a. Size: As required for installation conditions [None - N/A].
 - b. Angle Moldings: L-shaped, for mounting at same elevation as face of grid.

The paragraph below is optional text

- c. Shadow Moldings: Shaped to create a perimeter reveal.

The paragraph below is optional text

- d. Channel Moldings: U-shaped, for hold-down type installations.

The paragraph below is optional text

- e. Gaskets For Perimeter Moldings: Closed-cell foam, factory-applied to molding.
- f. Acoustical Sealant For Perimeter Moldings: Nonhardening, nonskinning, for use in conjunction with suspended ceiling system.

3. Metal Transition Trim: Steel or extruded aluminum; provide attachment clips, splice plates and preformed corner pieces for complete trim system.

The paragraph below is optional text

- a. Trim Height: [_____] inch ([_____] mm).

The paragraph below is optional text

- b. Finish: [Baked enamel].

The paragraph below is optional text

- c. Color: [White].

- d. Products:

The paragraph below is optional text

- 1) USG Corporation; Compasso Elite Transitions - Acoustical to Acoustical: www.usg.com/ceilings/#sle.

The paragraph below is optional text

- 2) Substitutions: [Not permitted].

4. Metal Perimeter Trim for "Cloud" Suspension Systems: Steel or extruded aluminum; provide attachment clips, splice plates, and preformed corner pieces for complete trim system.

The paragraph below is optional text

- a. Trim Height: [_____] inch ([_____] mm).

The paragraph below is optional text

- b. Finish: [Baked enamel].

The paragraph below is optional text

- c. Color: [White].

- d. Products:

The paragraph below is optional text

- 1) USG Corporation; Compasso Suspension Trim - Standard: www.usg.com/ceilings/#sle.

The paragraph below is optional text

- 2) USG Corporation; Compasso Suspension Trim - Slim: www.usg.com/ceilings/#sle.

The paragraph below is optional text

- 3) USG Corporation; Compasso Suspension Trim - Elite: www.usg.com/ceilings/#sle.

The paragraph below is optional text

- 4) USG Corporation; Compasso Suspension Trim - Elite with Island Accent Lighting: www.usg.com/ceilings/#sle.

The paragraph below is optional text

- 5) Substitutions: [Not permitted].

- 5. Metal Curtain Pocket Trim: Steel or extruded aluminum; provide attachment clips, splice plates, and preformed corner pieces for complete trim system.

The paragraph below is optional text

- a. Type: [Three-sided].

The paragraph below is optional text

- b. Closure Plate Size: 2 inches (51 mm).

The paragraph below is optional text

- c. Extension Trim Height: [_____] inch ([_____] mm).

The paragraph below is optional text

- d. Finish: [Baked enamel].

The paragraph below is optional text

- e. Color: [White].

- f. Products:

The paragraph below is optional text

- 1) USG Corporation; Compasso Elite Curtain Pocket: www.usg.com/ceilings/#sle.

The paragraph below is optional text

- 2) Substitutions: [Not permitted].

2.04 ACCESSORIES

The paragraph below is optional text

- A. Support Channels, Carriers, and Hangers: [Galvanized] steel; size and type to suit application [None - N/A] and ceiling system flatness requirement specified.

The paragraph below is optional text

- B. Hat-Shaped Metal Channels: Steel, 22 gauge, 0.0299 inch (0.76 mm), minimum.

- C. Suspension Wire [None - N/A]: Size and type as required for application [], [seismic requirements], [] and ceiling system flatness requirement specified.

1. Concealed Suspension:

- a. Suspension Wire: Steel, annealed, [galvanized] finish, 12 gauge, 0.0808 (2.05 mm) diameter, complying with ASTM A641/A641M.

The paragraph below is optional text

2. Exposed (To View) Suspension:

The paragraph below is optional text

- a. Suspension Wire: Stainless steel, 18 gauge, 0.0403 (1.02 mm) diameter, complying with ASTM A580/A580M.

The paragraph below is optional text

- b. Suspension Rope: 1/32 inch (0.8 mm) stainless steel rope wire complying with ASTM A492, with [loop and crimp-end], [turnbuckle] connection.

The paragraph below is optional text

- D. Compression Framing and Bracing: Metal stud sizes, gauges, and spacings as determined by qualified structural design professional and complying with applicable codes.

The paragraph below is optional text

- E. Compression Posts: 3.4 inch (19 mm) nominal diameter EMT conduit, lengths as required by installation conditions.

The paragraph below is optional text

- F. Hold-Down Clips: Manufacturer's standard clips to suit application.

The paragraph below is optional text

- G. Seismic Clips: Manufacturer's standard clips for seismic conditions and to suit application.

The paragraph below is optional text

- H. Unopposed Tee Attachment Clip: Manufacturer's standard clip designed to create code-compliant cross tee connections when a cross tee is installed in a main tee without another cross tee directly opposite ("ashlar" installations).

The paragraph below is optional text

- I. Compasso Standard clip.

The paragraph below is optional text

- J. Compasso Celebration clip.

The paragraph below is optional text

- K. Compasso Elite clip.

The paragraph below is optional text

- L. Celebration Compasso Elite clip.

The paragraph below is optional text

- M. Glass Fiber Insulation: Flexible preformed batt or blanket, complying with ASTM C665[None - N/A].

The paragraph below is optional text

1. Thickness: As indicated on drawings.

The paragraph below is optional text

2. Thickness: 6-1/4 inches (159 mm), minimum.
3. Products:
 - a. Knauf Insulation Inc; Knauf EcoBatt Insulation: www.knaufnorthamerica.com/#sle.
 - b. Substitutions: [Not permitted].

- N. Thermal Insulation: ASTM C665, preformed [glass] fiber [batt];[friction fit],[] complying with the following:

The paragraph below is optional text

1. Thermal Resistance: R-value (RSI-value) of [____] (____).

The paragraph below is optional text

2. [Batt] Size: [____] by [____] inch ([____] by [____] mm).

The paragraph below is optional text

3. Facing: Unfaced[at].

The paragraph below is optional text

4. Facing: Faced on one side with [foil][at].

The paragraph below is optional text

- O. Gypsum Board and Framing Materials: See Section 092116.
- P. Touch-Up Paint for Exposed Surfaces: Type and color to match acoustical units and suspension system grid and trim elements.
- Q. Touch-Up Paint For Concealed Items: [Zinc rich] type, as recommended by ceiling system manufacturer.

2.05 FABRICATION

- A. Shop fabricate ceiling[None - N/A] components to the greatest extent possible.
- B. Fabricate components to allow access to ceiling plenum as required.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.
- C. Verify that field measurements are as indicated on shop drawings.
- D. Start of installation constitutes acceptance of project conditions.

3.02 PREPARATION

- A. Coordinate the location of hangers with other work.
- B. Provide hanger clips during steel deck erection. Provide for anticipated additional hangers and inserts as required.
- C. Install ceiling system after major above-ceiling work is complete.
- D. Acclimate wood ceiling materials by removing from packaging in installation area a minimum of 72 hours prior to installation.

3.03 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C636/C636M and manufacturer's instructions and as supplemented in this section.
- B. Install hangers and inserts coordinated with overhead work. Provide additional hangers and supports as required.
- C. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.

The paragraph below is optional text

- D. Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size.

The paragraph below is optional text

- E. Locate system on room axis according to reflected ceiling plan.

The paragraph below is optional text

- F. Seismic Suspension System, Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch (9 mm) clearance between grid ends and wall.

The paragraph below is optional text

- G. Seismic Suspension System, Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls, maintain a 3/4 inch (19 mm) clearance between grid ends and wall.
- H. Where ducts, facility services, or equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- I. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- J. Support fixture loads using supplementary hangers located within 6 inches (152 mm) of each corner, or support components independently.
- K. Do not eccentrically load system or induce rotation of runners.
- L. Edge Moldings: Install at intersection of ceiling and vertical surfaces and penetrations, using components of maximum length; set level. Provide edge moldings at junction with other ceiling finishes. Miter corners. Provide preformed edge closures to match bullnosed cornered partitions.
 - 1. Install in bed of acoustical sealant.
 - 2. Use longest practical lengths.
 - 3. Overlap and rivet corners.

The paragraph below is optional text

- M. Install light fixture boxes constructed of gypsum board above light fixtures in accordance with fire rated assembly requirements and light fixture ventilation requirements.

3.04 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit edge trim neatly against abutting surfaces.
- D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- E. Cutting Acoustical Units:
 - 1. Cut to fit irregular grid and perimeter edge trim.
 - 2. Make field cut edges of same profile as factory edges.

- F. Lay acoustical insulation for a distance of 48 inches (1219 mm) either side of acoustical partitions as indicated.
- G. Install hold-down clips on acoustical units within 20 ft (6 m) of an exterior door.

3.05 INSTALLATION OF PERIMETER "CLOUD" TRIM

- A. General: Install in accordance with manufacturer's instructions.

The paragraph below is optional text

- 1. Examine the reflected ceiling layout and carefully plan the layout of the trim on the ceiling grid.

The paragraph below is optional text

- 2. Lay trim segments on top of the grid in the desired pattern and temporarily secure them in place.

The paragraph below is optional text

- 3. Temporarily splice the segments together.

The paragraph below is optional text

- 4. Assemble trim system, arranging the trim into smooth curves.

The paragraph below is optional text

- 5. Mark and cut the suspension grid.

The paragraph below is optional text

- 6. Install an attachment clip to each cut end of the grid. Attach the clip to trim section segment.

The paragraph below is optional text

- 7. Join trim and permanently splice the segments together.

- B. 10-Inch and 12-Inch Trim:

The paragraph below is optional text

- 1. Support segments by attaching diagonal braces to the installation clips using fasteners recommended by manufacturer. Attach one end of the brace to back of trim segment and the other to the tee. Ensure that the clip remains at 90 degrees to the ceiling plane. Repeat this procedure at 24 inches (610 mm) increments along the entire perimeter of the grid.

The paragraph below is optional text

- 2. Attach trim segments to the grid.

- C. Corners:

The paragraph below is optional text

- 1. Outside Corners: Slide a permanent splice plate into each side of the preformed outside corner. Attach one side of the outside corner to a trim segment. Connect a trim segment to the other side of the corner and secure with appropriate splice plate.

The paragraph below is optional text

- 2. Inside Corners: Follow manufacturer's instructions for installation of preformed and welded corners or for field-assembled corners from separate premitered pieces.

3.06 INSTALLATION OF CURTAIN POCKET TRIM

- A. Mounting: Mount curtain pocket trim in accordance with manufacturer's instructions and as appropriate for project conditions:

1. Wall Cleat Mounting:

The paragraph below is optional text

- a. Determine the mounting height of the pocket and cleat combination. Mount wall cleats on the perimeter wall at that height.

The paragraph below is optional text

- b. Mount cleats at framing stud locations, on the center of the stud flange or face for the length of the pocket.

The paragraph below is optional text

- c. Secure cleat and pocket to wall using fasteners appropriate for attachment substrates.

The paragraph below is optional text

- d. Hook pocket on the mounting cleats. Use a metal screw for locking pocket to cleat.

2. Hanger Wire Mounting:

The paragraph below is optional text

- a. Mount using hanger wire located at 16 inches (406 mm) on center by drilling a 1/4 inch (6 mm) diameter hole into vertical mounting leg located on top of the extrusion, no more than 48 inches (1219 mm) on center.

3. Metal Framing Mounting:

The paragraph below is optional text

- a. Hang curtain pockets using standard 2-1/2-Inch (64 mm) metal framing members 48 inches (1219 mm) on center, maximum, hung from and braced with kickers attached to the underside of the structure.

The paragraph below is optional text

- B. Continuous Lengths Installation: Use wall cleat, hanger wire, or metal framing mounting method specified above. Connect curtain pocket segments with standard system splice plates. Use three (3) splice plates for a tight, seamless connection; one located on the top of the pocket and two (2) along the vertical surface.

The paragraph below is optional text

- C. Corners Installation: For 90-degree turns use manufacturer's pre-engineered inside and outside corners. Position corner segments in place using mounting method selected for the system. Use three (3) splice plates for a tight, seamless connection to the main curtain pocket; one located on the top of the pocket and two (2) along the vertical surface.

The paragraph below is optional text

- D. End Cap Terminations: Use the appropriate end cap for the indicated ceiling integration. Install using self-tapping mini screws in two or three locations depending on the end cap selected.

The paragraph below is optional text

- E. Partition Wall Termination: Use a single splice plate bent in half at 90-degrees. Mount one flange of the plate to the curtain pocket and mount the other to the partition wall above the ceiling grid wall molding.

The paragraph below is optional text

- F. Install extension plates in accordance with manufacturer's instructions.

The paragraph below is optional text

- G. Connection to Suspension Grid: Use clips recommended by manufacturer.

3.07 TOLERANCES

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet (3 mm in 3 m).
- B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: Two degrees.

3.08 CLEANING

- A. Clean and touch up minor finish damage. Remove and replace components that cannot be successfully cleaned and repaired.

END OF SECTION