

SECTION 095133 SPECIFICATION FOR “VISIONS 800” METAL CEILING SYSTEM

PART 1 - GENERAL

1.01 Related Work

- A. Insulation: Section: _____
- B. Mechanical equipment: Section _____
- C. Electrical: Section _____
- D. Gypsum board systems: Section _____
- E. Acoustical ceilings: Section _____

1.02 System Description

- A. Provide the entire system as specified herein, and as detailed within the Contract Documents, and installation drawings of the manufacturer. The system shall be as described in Section 2.02 “Materials”.

1.03 Quality Assurance

- A. Subcontractor qualifications: Installer shall have not less than three years of successful experience in the installation of Grid Cell metal ceiling systems on projects with requirements specified.
- B. Requirements of regulatory agencies: Codes and regulations of authorities having jurisdiction.
- C. Source quality control:
 - 1. Test reports: Manufacturer will provide test certification for minimum requirements as tested in accordance with applicable industry standards and/or to meet performance standards specified by various agencies.
 - 2. Changes from system: System performance following any substitution of materials or change in assembly design must be certified by the manufacturer.

1.04 References.

- A. ASTM C636: Manufacturing and Installation of Suspended Ceilings.
- B. ASTM E119: Fire Tests of Building Construction and Materials.
- C. ASTM C423: Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

1.05 Submittals.

- A. Samples: Submit representative sample of color and finish of all exposed materials. Sample shall be approximately 11”x 11”.
- B. Installation Drawings: Submit three copies each of typical installation details indicating system components, splice details, and sequence of installation.

C. Manufacturer's data: Submit manufacturer's standard catalog cut sheet with sample above.

1.06 Delivery, Storage and Handling

A. Delivery of materials: Deliver materials in original, unopened packages clearly labeled with manufacturer's name and identification numbers.

B. Storage: Store in manner that will prevent warpage, scratches or damage of any kind.

C. Handling: Handle in such a manner as to insure against racking, distortion or physical damage of any kind.

1.07 Project Conditions

A. Existing conditions: (Include specific alteration work requirements for project, if any).

B. Environmental requirements for interior installation: Building shall be enclosed with windows and exterior doors in place and glazed, and roof watertight before installation of metal ceiling system and related components. Climatic condition range of 60 degrees Fahrenheit (15.56 degrees Celsius) to 85 degrees Fahrenheit (29.44 degrees Celsius) and relative humidity of not more than 70% before installation of metal ceiling components.

C. Coordination with other work:

1. Mechanical work: Ductwork above ceiling shall be complete, and permanent heating and cooling systems operating to climate conditions prior to installation of metal ceiling components.

2. Electrical work: Installation of conduit above ceiling shall be complete before installation of metal ceiling components.

3. Fire protection work: Fire protection lines and/or equipment occurring above ceiling shall be completed and tested before metal ceiling components are installed.

D. Protection: Protect completed work above ceiling system from damage during installation of metal ceiling components.

PART 2 - PRODUCTS

2.01 Manufacturer

A. Provide Visions 800 model number VS832/2424P84-F23 (replace first 24 with appropriate panel width spacing if other than 24") (replace second 24 with appropriate length of panel if other than 24") (replace P84 with appropriate perf pattern # if other than P84) (replace F23 with appropriate color number if other than Anodized PXL, per section 2.02 F below) as manufactured by American Decorative Ceilings, Inc.; 4510 E. 71st St.; Cleveland, Ohio 44105; Telephone number (216) 341-2222.

2.02 Materials

A. Suspension System: All suspension members to be constructed to the (Intermediate)(Heavy-Duty) classification of ASTM C 635.

1. Main-T's and Cross-T's shall be of pre-punched, roll formed

steel t-bars with exposed flanged surface finished in black. Vertical dimensions of T-bar members to be a minimum of 1-1/2" for Mains, and 1-1/8" to 1-1/2" for Cross-T's. The exposed face of t-bar members will be of sufficient width as to provide the specified reveal between panels. Main-T's and Cross-T's shall form a standard grid pattern, straight and true. Main-T's shall have factory fabricated vertical slots 6" o.c. for proper alignment of Cross-T's. Cross-T's shall be factory pre-punched with spring slots to align with torsion springs of Visions 100 panels.

2. Attachment devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
 3. Wire Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield load of at least three (3) times design load, but not less than 12 gage. Tie wires shall be placed at a maximum of 48" on center along the Main-T's, and as indicated on American Decorative Ceilings' shop drawings.
- B. Visions 800 Metal Panels shall be of adequate thickness as to provide for a flat and true face on panel. All exposed metal shall be free from surface blemishes, seam marks, roller marks, and other imperfections. Units to be stretcher leveled and rolled completely flat to produce a maximum flatness and minimum deflection.
1. Unless otherwise indicated in Contract Documents, units to be a nominal ___"x ___" for typical Push-in spring installation. Each full panel to have a minimum of 4 (four) push-in springs to be field inserted into factory formed spring latch. Push-in springs to be manufactured from high tensile strength spring steel, 20 gage thickness, and heat treated after forming. Push-in Springs to be physically locked in latch by mechanical design.
 2. Ceiling panels are to be factory formed from a single sheet with a minimum of 1.0" returned leg on all sides. Finish of all exposed unit members to match color sample in possession of Architect.
- C. Perforation: (Omit this section if not required) Provide Visions 800 units with perforation pattern as selected by Architect from Manufacturer's full range of standard patterns. Units shall have a solid, non-perforated border as indicated in Contract Documents or Manufacturer's Shop Drawings.
- D. Insulation: (Omit this section if not required) Provide Visions 800 units with nominal 1" thick insulation pad, fully encapsulated in 2 mil poly bag. Color of bag to be black.
- E. Perimeter Molding where applicable are interchangeable, as long as dimensions and thickness are consistent with those of the suspension system. Profile of Perimeter Molding members are as indicated in Contract Documents or Manufacturer's Shop Drawings.
- F. Finish to be (white (F41)); anodized PXL (F23)); (satin anodized (F23R)); (brushed aluminum (F98)); (brushed kryptonite (F98KR)); (brushed etched (F98ET)); (Standard Kynar (FKY)); (natural birch (F4025)); (American maple (F4026)); (auburn cherry (F4023)); or (custom color (F47)) (strike out all non-applicable finishes.)

2.03 Fabrication

- A. Panels to be fabricated from stretcher leveled sheet stock. Stress relieve all edges to reduce memory spring back during all stages of fabrication and handling. Units to be manufactured for push-in spring application into supplied grid opening. Said installation to provide concealed grid appearance when completed. All panels to provide downward access to plenum above by pulling panels downward without destroying the panels and/ or the ceiling

system's integrity.

- B. Support system: Consisting of Intermediate Duty Main-T's and Cross-T's. Main-T's to be factory notched to inter-connect with Cross-T's at pre-determined intersections. Cross-T's to be same length as panel.
- C. Accessory Items: Independently suspend all mechanical air distribution devices and all electrical lighting fixtures.

PART 3 - EXECUTION

3.01 Inspection

- A. Examine areas to receive metal ceiling system for conditions which will adversely affect installation.
- B. Do not start work until unsatisfactory conditions are corrected.
- C. Work to be concealed: Verify work above support system is complete, tested, and installed in manner which will not affect layout and installation of metal ceiling system.

3.02 Preparation

- A. Field dimensions: Installer must verify actual field dimension prior to installation.
- B. Coordination: Coordinate and schedule installation of metal ceiling system with work of trades affected by this installation, with particular attention given to mechanical and electrical work required to be installed and operating before ceiling work can begin.
- A. Provide the entire system as specified herein, and as detailed within the Contract Documents, and installation drawings of the manufacturer. The system shall be as described in Section 2.02 "Materials".

3.03 Installation

- A. Reference: Install in accordance with approved installation drawings and Contract Documents.
- B. Hanger wires
 - 1. Spacing: Space hanger wires maximum 48" o.c. along length of mains and within 6" (for interior applications) from the mains (or carriers) starting and end points, attached directly to structure above.
 - 2. Attachment to Mains (Carriers) : Install adjacent wires through manufacturer's prepunched holes at appropriate locations. Align support system straight true and level. Re-level hanging wire as required.
 - 3. Limitation: Do not support hanger wires from mechanical and/or electrical equipment, piping, or other equipment occurring above ceiling.
 - 4. Fixtures at ceiling: Provide additional fixture support as required in accordance with local building codes or other regulatory agencies.

3.04 Adjust and Clean

- A. Adjust components for uniform tolerances. Replace any and all ceiling panels that are scratched or

dented.

B. Clean exposed surfaces with non-solvent based, non-abrasive commercial cleaner.

3.05 Extra Stock

A. Provide (2-5% (depending on project size)) extra members in matching finish to owner's representative.
Stock material to be labeled for storage.