

This section includes a manufacturer's guide specification for a the "Evoba" wood coffered ceiling offered by Acoustic Ceiling Products (ACP), including wood suspension assembly and prefinished wood panels. Refer also to manufacturer's Product Description, OmniClass # 35 80 11 01 for detailed product properties, options, and other technical information. This section includes performance, proprietary, and descriptive type specifications; edit to avoid conflicting requirements.

Part 1 General

1.1 SECTION INCLUDES

In this article, select the components that are intended to be part of the content of this section and will not be included in other sections. Keep the statements brief and concise.

- A . Wood suspension assembly.
- B . Wood coffer panels.

1.2 RELATED SECTIONS

- A . Section [09 91 23 – Interior Painting:] [09900 – Paints and Coatings:] Site finishing.

1.3 REFERENCES

List reference standards that are included within the text of this section. Edit the following as required to parallel any reference standards statements within this section. Acronyms used for well known standards (first example) and defined text for less or named standards (second example).

- A . ASTM C635-04 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
- B . ASTM C636/C636M-06 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.
- C . ASTM E84-06a - Standard Test Method for Surface Burning Characteristics of Materials.
- D . ASTM E580/E580M-06 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint.
- E . CISCA (Ceilings & Interior Systems Contractors Association) - Ceiling System Handbook and Acoustic Ceilings Use and Practice.

1.4 PERFORMANCE REQUIREMENTS

Restrict statements in this article to identify system performance requirements or function criteria - where final design decisions or detailed sizing is performed by fabricator or installer. The load value below is the rated load for Evoba ceiling as tested by Intertek.

- A . Assembly Dead Load: [870 N/m (18.2 lbf/ft)] [____] to ASTM C635.
- B . Assembly: Preformed wood grid network suspended to support wood coffer panels. Wood grid members are attached and anchored securely to building structure.
- C . Installed Ceiling Assembly: Exhibit maximum deflection of 1/360 of span.

- D . Seismic Loads: Design and size components to withstand seismic loads and sway displacement to ASTM E580 and in accordance with applicable code requirements.

1.5 DESIGN REQUIREMENTS

- A . Design components to ensure light fixtures or installed accessories, will not induce eccentric loads. Where components may induce rotation of ceiling system components, provide stabilizing reinforcement.
- B . Design, fabricate, and install suspension assembly to accommodate imposed loads plus safety factor.

1.6 SUBMITTALS

Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations to drawings, thereby increasing the Specifier's liability. The following submittals are intended for review and acceptability.

- A . Section [01 33 00] [01300]: Submission procedures.
- B . Product Data: Include wood properties, wood finishes, fire resistance properties and test procedure used.
- C . Shop Drawings: Provide shop drawings indicating reflected ceiling suspension grid layout, measurements of perimeter walls, suspension device layout and spacing, locations of lighting and mechanical outlets, structural anchor spacing.
- D . Samples: Provide a sample of a main runner, cross tee, four-way intersection, edge trim or wall molding and coffer panel. Identify wood species and finishes applied.
- E . Test Reports: Submit substantiating engineering data, test results of previous tests [by independent laboratory] which purport to meet performance criteria, and other supportive data.
- F . Installation Data: Special installation requirements.

1.7 QUALITY ASSURANCE

- A . Design structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed [at the place where the Project is located.] [in the State of [_____].]
- B . Conform to Cisca requirements.

1.8 REGULATORY REQUIREMENTS

Use this article when a special code, regulation, or constructed assembly applies to the project; delete this article if none apply.

- A . Conform to applicable code for seismic requirements including ASTM E580.

1.9 MOCK-UP

Use this article for assessing full sized erected assemblies for review of construction, coordination of work of several sections, testing, or observation of operation. A mock-up may also be used for assessing field applied finishes.

- A . Section [01 45 00] [01400]: Requirements for mock-up.
- B . Provide [____x____] mm ([____x____] feet) mock-up including suspension members, ceiling grid including trim, ceiling coffer panels.
- C . Locate [where directed.] [_____].
- D . Approved mock-up may [not] remain as part of the Work.

1.10 DELIVERY, STORAGE, AND PROTECTION

- A . Section [01 61 00] [01600]: Transport, handle, store, and protect products.
- B . Protect pre-finished surfaces with [wrapping.] [strippable coating.]

1.11 ENVIRONMENTAL REQUIREMENTS

- A . Do not install wood components when ambient temperature is less than [5] [____] degrees C ([40] [____] degrees F).
- B . Maintain this minimum temperature during and after installation of sealants.

1.12 COORDINATION

- A . Coordinate work to Section [_____].
- B . Coordinate the work with installation of mechanical and electrical components.

1.13 EXTRA MATERIALS

- A . Provide extra maintenance materials to Section [01 78 00] [01700].
- B . Provide [five (5)] [_____()] extra, standard size ceiling panels.

Part 2 Products

2.1 MANUFACTURERS:

- A . Manufacturers:
 - 1. Acoustic Ceiling Products, LLC., PO Box 1581, Appleton, WI, 54912-1581;
Phone: Toll Free @ 800-434-3750; Fax: Toll Free @ 800-434-3751; e-mail to:
techsupport@acpideas.com; Web site: www.acpideas.com
- B . Acoustic Ceiling Products (ACP) - Evoba Wood Coffered Ceiling Assembly.
- C . Substitutions: [Refer to Section [01 62 00] [01600].] [Not permitted.]

2.2 MATERIALS

Consult ceiling manufacturer for wood finishing criteria and options.

- A . Wood Material:
 - 1. Suspension Members and Trim: Solid, [Red Oak] [Hard Maple] [Cherry] species.
 - 2. Coffe Panel: Wood veneer, species to match suspension members.
 - 3. Flame Spread / Smoke Developed: Maximum 70/160 to ASTM E84.
- B . Nominal Grid Size: 610 x 610 mm (24 x 24 inch).
- C . Accessories: [Stabilizer bars,] [clips,] [splices,] [perimeter moldings,] [direct apply clips / mate line clips,] [and] [_____] required for suspended grid system.
- D . Support Channels and Hangers: [Galvanized] [Primed] steel; size and type to suit application[, seismic requirements,] and ceiling system flatness requirement specified.

2.3 ACCESSORIES

The following paragraph identifies the nominal requirements of the primary framing members. If performance specifying, ensure no conflict exists.

- A . Suspension Members: Of sufficient strength to support and maintain installed assembly in position and to specified tolerance for levelness.

2.4 FABRICATION

- A . Shop fabricate components.
- B . Prepare components for mechanical and electrical openings required. Obtain component opening measurements from suppliers as required. Space wood members to permit sprinkler down-pipe through ceiling assembly.
- C . Internal and External Corners: Of same material, thickness, finish, and preformed to profile to match exposed linear panels; back brace internal corners.
- D . Edge Molding and Suspension Assembly Splices: Of same material, thickness, and finish as panel grilles.

2.5 FINISHES

- A . Finish Coatings: Shop impregnated wood treatment, final coat of low sheen [clear] [_____] finish.
- B . Concealed From View Steel Items: Galvanized in accordance with ASTM A123 to [610 [_____] g/sq m ([2.0] [_____] oz/sq ft).
- C . Apply [one (1) coat] [[_____] (____)] coats of bituminous paint to concealed metal surfaces in contact with cementitious or dissimilar materials.

Part 3 Execution

3.1 EXAMINATION

- A . Section [01 71 00] [01710]: Verification of existing conditions before starting work.
- B . Verify that layout of panels and positioning of ceiling fixtures and grilles will not interfere with other work.

3.2 INSTALLATION

- A . Install assembly to ASTM C636/C636M and to manufacturer written instructions.

Include the paragraph below if a reflected ceiling plan is not included with the design drawings; or the subsequent paragraph if a reflected ceiling plan is included.

- B . Lay out assembly to a balanced grid design with edge units no less than 50 percent of coffer panel unit size.

[OR]

- C . Locate assembly on room axis according to reflected ceiling plan.
- D . Support ceiling grid using [clips] [hanger wires] at maximum 1200 mm (48 inch) on center.
- E . Site Cutting Panels and Grid Components: Using a sharp small blade saw and straight edge, mark the finish side of the panel, then cut as required. Miter corners.
- F . Install border and edge panels, then full panels working across the room.

3.3 SCHEDULE

*Provide a schedule when various ceiling locations, ceiling assembly types, acoustic unit designs, or other variables require listing for clarity. Use a table if there are numerous varieties. The following are **EXAMPLES** to illustrate a scheduled item:*

- A . Public Meeting Areas: 610 x 610 mm (24 x 24 inch) Red Oak panels and grid, light stained color.
- B . Dining Area: 610 x 610 mm (24 x 24 inch) Cherry wood panels and grid, Natural color.

END OF SECTION