

This section includes PVC ceiling panels for surface mounting or t-bar grid, and accessories. Panels are non-fire rated. This section includes proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Acoustic ceiling panels specified in another section.

Part 1 General

1.1 SECTION INCLUDES

- A. [Surface] [T-bar grid] mounted PVC ceiling panels.

1.2 RELATED SECTIONS

List sections that specify installation of products directly associated with this section; indicate specific items. In above ceiling mechanical and electrical work, the placement of anchors can be a problem if not addressed before installation of ceiling suspension assembly. Coordination between the work of mechanical and electrical sections and the text of this article, requires special consideration.

- A. Section 06 11 00 - Wood Blocking: Blocking and shims attached to substrate to support attached ceiling to a level plane.
- B. Section [_____] - [_____]: Placement of special anchors or inserts for supporting ceiling panels.
- C. Section 07 92 00 - Joint Sealants: Acoustic sealant for perimeter edge seal.
- D. Section 09 53 33 – Suspended Ceiling Grid: T-bar members for lay-in ceiling grid.
- E. Section [_____] - [_____]: [Acoustic] partition system with head rails [attached to] [within] ceiling assembly.

1.3 REFERENCES

List reference standards that are included within the text of this section. Edit the following as required for project conditions.

- A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. CISCA (Ceilings & Interior Systems Contractors Association):
 - 1. Ceiling Systems Handbook.
 - 2. Acoustic Ceilings: Use and Practice.

1.4 SUBMITTALS FOR REVIEW

Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. Include a requirement for shop drawings only when special project conditions exist or when reflected ceiling plans are not provided on the working drawings.

- A. Section 01 33 00: Submission procedures.
- B. Product Data: Provide data on PVC panel construction and cleaning instructions.

Include the following paragraph for submission of physical samples for selection of finish, colour, surface texture, etc.

- C. Panel Samples: Submit [two] [____] samples of each size and color specified.

1.5 QUALITY ASSURANCE

- A. Conform to Cisca requirements.

1.6 PROJECT CONDITIONS

- A. Section 01 32 13: Work scheduling.
- B. Sequence work to ensure ceilings are not installed:
1. until building is enclosed,
 2. sufficient heat is provided,
 3. dust generating activities have terminated, and
 4. overhead work is completed, tested, and approved.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Section 01 66 00 for storage and handling of materials.
- B. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Store cartons laid flat, protected from exposure to sun, high temperatures and humidity conditions as recommended by the manufacturer.

1.8 EXTRA MATERIALS

- A. Section 01 78 46: Extra materials.
- B. Provide to the Owner a quantity of [5] [____] percent of all panels provided, in each color, for the Work.

1.9 WARRANTY

- A. Warranty: Refer to Section [01 78 00.] [_____.]
- B. Limited Warranty: Five (5) years from product manufacturing defects.

Part 2 Products

2.1 CEILING PANELS

In the following paragraph, list the manufacturers acceptable for this project. Edit the subsequent descriptive specifications to identify project requirements and to eliminate any conflict with specified manufacturer's products.

- A. Manufacturers:

1. Fasäde Thermoplastic Ceiling Panels, by Acoustic Ceiling Products (ACP), PO Box 1581, Appleton, WI, 54912-1581; Phone - Toll Free: 800-434-3750; Fax - Toll Free 800-434-3751; e-mail to: support@acpideas.com; Web site: www.acpideas.com.
 2. Substitutions: [Refer to Section 01 62 00.] [Not permitted.]
- B. Material:
1. Material: Virgin grade polyvinyl chloride (PVC), 0.76 to 0.81 mm (0.030 to 0.032 inches) thick.
 2. Laminated Components: ABS (acrylonitrile butadiene styrene terpolymer) plastic, laminated with hot stamping foil.
- C. Finish:

Select the following texture and color. Alternatively, these sub-paragraphs may be deleted and the ACP color code and description specified (which identifies both the texture and color). If a variety of finishes will be used on this project, use a schedule in Part 3 to identify them.

1. Texture: [Flat] [Traditional 1] [Traditional 2] [Traditional 3] [Traditional 4] [Traditional 5] [Traditional 6] [Art Deco] [Rosette] [Coffer] [Square] [Dome] [Quattro] [Rib] [Diamond Plate] [Quilted] [Hammered] [1/4 Square Punch] [9/32 Radius Punch] [miniquattro] pattern. [As scheduled.]
2. Color: [White, paintable.] [Polished Copper.] [Brass.] [Chrome.] [Brushed Aluminum.] [Argent Silver.] [Copper.] [Copper Fantasy.] [Verdigris.] [Bermuda Bronze.] [Moonstone Copper] [Cracked Copper.] [Muted Gold.] [Cross Hatch Silver.] [Argent Gold.] [Polished Copper.] [Light Maple.] [Pearwood.] [Welsh Cherry] [Gold over Argent Silver.] [Gold over Pearwood.] [Custom Color: [____].] [As Scheduled.]

2.2 ACCESSORIES

The following paragraph is for constructing fire-resistant boxes over light fixtures in fire rated ceilings, when so required.

- A. Acoustic Sealant For Perimeter Moldings: Available from grid manufacturer.
- B. Edge Moldings: J-Trim, color [____] [to match ceiling panel], by Acoustic Ceiling Products.

Specify one of the following adhesives, if surface mounted panels are used, or if panels must be adhered to existing acoustic panels. The following two adhesives are known to work well with PVC panels, and recommended by ACP.

- C. Adhesive: Synthetic water-based adhesive [PL Latex FRP adhesive.] [PL Wall and Tileboard adhesive.] [PL 100% polyurethane construction adhesive] [LN-950 Liquid Nails Adhesive]

Include the notched trowel below if panels will be glued with a troweled adhesive.

- D. Tools: Site-cutting tools, [and notched trowel] for installing panels.

Part 3 Execution

3.1 EXAMINATION

- A. Section 01 71 00: Verification of existing conditions before starting work.
- B. Verify that layout of panels will not interfere with other work.

3.2 INSTALLATION

- A. Install assembly in accordance with manufacturer's instructions and as supplemented in this section.

Include the first paragraph below if a reflected ceiling plan is not included with the 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 acoustic unit size.

[OR]

- C. Locate assembly on room axis according to reflected ceiling plan.
- D. Cutting Panels: Using a utility knife and straight edge, score the finish side of the panel. Bend panel at the score mark and snap apart.

Edit the two following paragraphs and sub-paragraphs, depending on whether panels will be surface mounted, or lay-in style.

E. Surface Mounting:

- 1. Prepare substrate surface with primer.
- 2. Apply adhesive to substrate using a notched trowel or tube adhesive with proper coverage.
- 3. Install border panels, then full panels, working across the room.
- 4. Overlap adjacent tiles 9 mm (3/8 inch) until ridges and dots align.
- 5. Once completed, firmly press all ceiling tiles to ensure proper adhesive bond.

F. T-bar Panel Mount:

- 1. If grid covers are used, install them prior to installing panels. Refer to GridMax installation instructions.
- 2. Install border panels, then full panels working across the room.
- 3. To cut panels, measure distance between t-bar centers, or between the t-bar center and closest edge of wall molding.
- 4. If hold-down clips are used, reach over the installed panel and snap over grid members.
- 5. Glue 610 x 1220 mm (24 x 48 inch) panels in center to panel substrate, to prevent sagging.

G. Perimeter Molding:

1. Install edge molding at intersection of ceiling and vertical surfaces into bead of acoustic sealant that is not visible after installation.
2. Use single piece longest practical lengths.
3. Miter corners.

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 Areas: 600 x 1200 mm (24 x 48 inch) PVC surface mounted panels, Copper color.
- B. Dining Areas: 600 x 600 mm (24 x 24 inch) PVC lay-in panels, White color.

END OF SECTION