

**Product Name**

CeilingMAX

**Manufacturer's Name**

Acoustic Ceiling Products, LLC.



June 17, 2002

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## **PRODUCT DESCRIPTION**

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### **PRODUCT FEATURES**

- **BASIC USES / RELATED USES**
  - PVC grid system, surface mounted to substrate.
  - Provides acoustic applications in low clearance areas.
  - Acoustic tile/panels not included.
  
- **PRODUCT ATTRIBUTES AND CHARACTERISTICS**
  - "0" clearance or direct mount grid system
  - Snap-in technology is easy to use and install
  - Snap-out technology provides ease of replacement or accessibility.
  - Provides access to plenum above.
  - Attaches directly over existing plaster, gypsum board, bottom of joist, or glue-up tiles.
  - Flexible to fit any 610 x 610 mm (24 x 24 inches) or 610 x 1220 mm (24 x 48 inches) flat lay in or revealed edge ceiling tile.
  - No demolition required prior to installation.
  - Available for standard 22 mm (7/8 inch) or 25 mm (1 inch) thick dimensional tile.
  - Intermediate duty class.
  
- **ENVIRONMENTAL**
  - PVC site cuttings and unused pieces can be collected and recycled.
  - Product may be recycled upon final disposal.
  
- **SELECTION CRITERIA**
  - Developed for applications requiring a ceiling that is directly applied to an existing surface such as an existing plaster, gypsum board, paste-up ceilings, or to wood joists.
  - Designed for applications where the minimum possible overall depth of system is necessary because of limited space or other reasons.
  - Tiles can be replaced or removed easily for access or any other reason by unsnapping the simple PVC grid system.
  - Suitable spaces for application include schools and universities, hospitals and health care facilities, food manufacturing and processing plants, restaurants, hotels and hospitality properties, gymnasiums and auditoriums, churches, and airports.
  
- **APPLICABLE STANDARDS, RELATED REFERENCES**
  - ASTM C665 - Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
  - ASTM D638 - Standard Test Method for Tensile Properties of Plastics.
  - ASTM D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C With a Vitreous Silica Dilatometer.
  - ASTM D790 - Standard Test Methods for Flexural Properties of Un-reinforced and Reinforced Plastics and Electrical Insulating Materials.
  - ASTM D792 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement.

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- ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- ASTM E580 - Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint.
- CISCA (Ceilings & Interior Systems Contractors Association) - Ceiling System Handbook and Acoustic Ceilings Use and Practice.
- ISO 4611 - Plastics - Determination of the Effects of Exposure to Damp Heat, Water Spray and Salt Mist.
- UL - Fire Resistance Directory.
- USFDA (United States Food and Drug Administration).
  
- **QUALITY STATEMENT, TESTS, AND CERTIFICATIONS**
  - Fire Resistance to UL Design #94.
  - Fire Performance: Class A (flame spread 10, smoke developed 140) to ASTM E84.
  - USFDA approval of the resin used in the CeilingMAX system for food processing applications.
  - Durometer Hardness: 82 to ASTM D2240.
  - Tensile Strength: 44.1 MPa (6400 psi); Tensile Modulus of 2,620 MPa (380,000 psi) to ASTM D638.
  - Flexural Strength: 77.9 MPa (11,300 psi); Flexural Modulus of 2,827 MPa (410,000 psi) to ASTM D790.
  - Heat Deflection Temperature: 73 degree Celcius (163 degree Fahrenheit) to ASTM D648.
  - Coefficient of Linear Expansion:  $3.3 \times 10^{-5}$  in/in/degree Fahrenheit to ASTM D696.
  
- **PACKAGING, HANDLING, PROTECTION, AND DELIVERY INSTRUCTIONS**
  - Deliver materials within original CeilingMAX cartons and take care to handle and protect against unnecessary damages such as moisture, breakage, dirt, surface soiling, etc.
  - Allow all ceiling components to acclimate to room temperatures before installation.
  
- **SPECIAL WARRANTY**
  - Limited Warranty: Five (5) years from product manufacturing defects.
  
- **LIMITATIONS**
  - Non- fire rated.
  - CeilingMAX is not intended for extremely high or low temperature service environments.
  - Certain chemical solvents should be avoided, contact manufacturer for more information.
  
- **AVAILABILITY**
  - Nationally and internationally.
  
- **COST**
  - Refer to Acoustic Ceiling Products, LLC. and authorized representatives for pricing.

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### PRODUCT PROPERTIES

- MATERIAL, COMPOSITION, AND DESIGN
  - Grid material: Virgin grade polyvinyl chloride (PVC)
  - Laminated material: Acrylonitrile butadiene styrene terpolymer (ABS) plastic laminated with hop stamping foil.
  
- SHAPE, MASS, AND DIMENSIONS
  - Grid Components:
    - .1 Manufacturer's Grid Style: Acoustic Ceiling Products, LCC "CeilingMAX"
    - .2 \* Patents Pending – Patent # 6,305,137 and 6,324,806

Grid Face	Item #	Description	Dimensions
24 mm (15/16 inch)	100	Top Hanger	2440 x 38 x 12 mm (96 x 1-1/2 x 15/32 inches)
	105		
24 mm (15/16 inches)	110	Runner	2440 x 24 x 24 mm (96 x 15/16 x 15/16 inches)
	115		
24 mm (15/16 inches)	120	Cross Tee	576 x 24 x 27 mm (23 x 15/16 x 15/16 inches)
	125		
24 mm (15/16 inches)	150	Wall Bracket	2440 x 24 x 30 mm (96 x 15/16 x 1-3/16 inches)
	155		
24 mm (15/16 inches)	121	Tee	635 x 24 x 30 mm (25 x 15/16 x 1 inches)
	126		

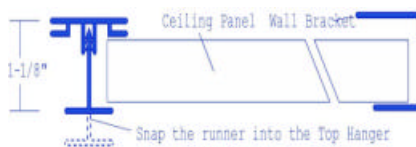
- .3 Grid Nominal Size: 610 x 610 mm (24 x 24 inches).
- .4 Profile:
  - .1 PVC, top hanger, runner, cross tee 24 mm (15/16 inches) face width x 29 mm (1-1/8 inches) high.
  - .2 Runner: Extruded PVC at 610 mm (24 inches) on center.
  - .3 Cross Tees: Molded PVC at 610 mm (24 inches) on center.
  - .4 Wall Bracket: Molded PVC mechanically fastened to existing substrate at 406 - 610 mm (16 - 24 inches) on center.
  - .5 Top Hanger: Molded PVC mechanically fastened to existing substrate; notches at 610 mm (24 inches) on center, starting at 305 mm (12 inches) from ends.
- .5 Bottom of Runner Face Width: 24 mm (15/16 inch).
- .6 Grid Accessories: Model 170 Suspension Clip, Model 180 Concrete Clip, Model 190 FRP Clip.

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- **SHOP FABRICATION AND ASSEMBLY**
  - All assembly is completed on site.
- **FINISH, COLORS AND TEXTURES**
  - Standard Colors: White 00, Gloss Black 01, Platinum 02, Antique White 03, Brass 04, Chrome 05, Woodgrain 06, Satin Black 07, Brushed Aluminum 08.
  - Custom Colors: Contact manufacturer for colors
  - Hot Foil Stamp
  - Patterns: Custom on request.

## PRODUCT PLACEMENT

- **PREPARATION WORK**
  - Perform installation as late as possible in the building process after any dust generating activities have been completed.
  - Examine surface for soundness of connections and ensure that surfaces are level enough to accept grid fastening.
- **INSTALLATION / ERECTION**
  - Install wall bracket around perimeter of room directly beneath the joist or substrate ceiling. Install gypsum board screws at 407–610 mm (16–24 inches) on center; miter corners.
  - Establish alignment so that equal amounts of tile appear on opposite sides of the room.
  - Fasten top hanger with screws. Install one screw per joist or 407–610 mm (16–24 inches) on center.
  - Install top hangers and cross tees using screws parallel to previous rows.
  - Cut and place border ceiling tiles first and install final cross tees.
  - Lock runners by snapping them into top hanger.
  - Contact manufacturer for detailed installation guide.



Grid Member Profile



Grid Interface Options for Associated Acoustic Panels

**Product Name**  
CeilingMAX  
**Manufacturer's Name**  
Acoustic Ceiling Products, LLC.

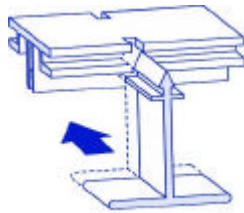


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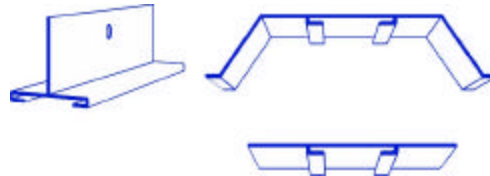
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## PRODUCT DESCRIPTION

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Cross Tee Joint



Grid Accessory Options

- **MAINTENANCE INSTRUCTIONS AND PROCEDURES**
  - Clean with mild, non-abrasive liquid cleaner such as Formula 409 or Fantastik.
  - On a daily basis, moderate dust or vacuum clean with a soft, clean brush attachment.
  - On a weekly basis, provide manual wet cleaning.

### Corporate Identification

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### Technical Services Available

Products available nationally and from regional representatives.

### Classification and Filing

MasterFormat  
Section 09530 - PVC Surface Mount Grid System  
UniFormat  
Section C3030 - Ceiling Finishes