



1. Product Name

Hydronic Radiant Ceiling Panels and Systems

2. Manufacturer

Aero Tech Manufacturing Inc
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3. Product Description

Basic Use

Aero Tech manufactures a full line of ceiling systems, including radiant, custom acoustic, security and hybrid ceiling systems. Aero Tech's radiant ceiling panels are widely recognized for outstanding quality of design and performance. The wide range of panels will meet most heating requirements.

Extruded Aluminum Radiant Panels

Extruded linear radiant ceiling panels are constructed of 127 mm (5"), 152.4 mm (6"), 203.2 mm (8") or 228.6 mm (9") wide extruded aluminum strips. The extruded panels interlock with tongue-and-groove joints and are held together as a unit by stiffeners on the back. Active strips have a 12.8 mm (0.505") ID copper tube inserted into "U"-shaped channels located on the back



of the extrusion. Face configurations are available in V-groove, fluted and smooth.

Formed Metal Radiant Panels

Aero Tech's formed metal and snap-in panels are constructed of 1.01 mm (0.040") thick aluminum sheets that incorporate six runs of 12.8 mm (0.505") ID copper tube. These tubes are metallurgically bonded to each aluminum sheet. The panels are finished in baked enamel for easy washability and a long life span without repainting. Textured and silkscreened finishes are available. Formed metal radiant ceiling panels can be perforated so that the ceiling absorbs sound when acoustical insulation is installed on the back of the panels. Insulation also minimizes upward heat flow from the back of the panels. Panel sizes are 609.6 mm x 609.6 mm (24" x 24") and 609.6 mm x 1219.2 mm (24" x 48"). Typical applications for these products include hospitals, schools, laboratories, airports, athletic facilities and office buildings.

Colours, Finishes

Aero Tech panels are finished in standard white colour ATMI #0060 unless otherwise specified. Colour and finish may be specified from custom finishes or matched to most colours selected by Consultant.

Patterns

Standard silkscreen patterns, for formed metal panels only, include:

- USG 56096
- USG 344
- USG Radar
- Celotex NDP 197
- Celotex Baroque
- Armstrong 769
- Armstrong 755B
- Armstrong 758 Classic

4. Technical Data

Applicable Standards

ASTM International (ASTM)

- ASTM B 88, Standard Specification for Seamless Copper Water Tube.

Buildcore, Reed Construction Data

- Aero Tech Manufacturing Inc Buildcore Specification, Section 23 83 00 - Radiant Heating Units.

Physical Properties

For product technical data, including water pressure drop and panel heating and cooling per-

formance information, consult manufacturer's current technical literature and "Radiant Panel Engineering Manual." For more information, contact Aero Tech Manufacturing Inc.

Environmental Considerations

Aero Tech radiant ceiling panels are LEED® Green Building compliant.

5. Installation

Preparatory Work

All Aero Tech products are packaged for interior storage only. Exercise care to protect panels from moisture and extreme environmental conditions.

Methods

Installation methods will vary depending on the radiant panel system specified. Complete installation instructions and recommendations are available from the manufacturer. Consult manufacturer's installation literature or contact Aero Tech Manufacturing Inc for details.

Precautions

Radiant ceiling panels should be located adjacent to the outside wall and in as close proximity as possible to the areas of maximum load. The panel area within 1524 mm (5') of the outside wall should have a heating capacity equal to or greater than 50% of the wall transmission load. Ensure that sufficient space above the ceiling has been provided for installing and connecting the radiant ceiling panel piping. Consult manufacturer for complete list of precautions concerning application, design and installation techniques.





6. Availability and Cost

Availability

Consult Aero Tech Manufacturing Inc for information on local availability.

Cost

Budget installed cost information may be obtained from Aero Tech Manufacturing Inc.

7. Warranty

Complete warranty terms and conditions are available from Aero Tech Manufacturing Inc. For more information, consult Aero Tech Manufacturing Inc.

8. Maintenance

There are no moving parts to the Aero Tech Radiant Ceiling System, so normally no maintenance is required other than periodic cleaning.

Aero Tech Panels have a wear-resistant, long-lasting baked enamel finish that can be easily cleaned. They may be washed with mild detergent applied with a sponge or other soft material. Avoid excessive moisture that can be trapped in joints. If dusty, use a soft brush or vacuum first, then wipe with a damp sponge using clean water. Do not use abrasives of any kind on the baked enamel finish.





9. Technical Services

Aero Tech Manufacturing Inc provides extensive technical support to ensure successful and proper installation of its products. Aero Tech Manufacturing Inc representatives provide assistance to engineers and contractors from the application and design considerations of radiant ceiling panels through contract execution, start-up and changeover procedures. Aero Tech Manufacturing Inc engineers are available for consultation regarding special situations that may not be covered by standard performance ratings or projects that require special sized panels.

10. Filing Systems

(For details see Table A: Filing Systems) Additional product information available upon request.

TABLE A: Filing Systems offered by Buildcore and Aero Tech (File under 23 83 00 Radiant Heating Units)

Title	Description	Source	Updated
<i>Buildcore</i> Product Profile	Use to identify potential suppliers during the project design and early product selection phases.	 www.buildcore.com	April, 2007
<i>Buildcore</i> 10-part Datasheet	Relevant details of a product needed by members of the building team to evaluate its suitability.	 www.buildcore.com	April, 2007
<i>Buildcore</i> 3-part Specification	Use while preparing project specifications. Print or download PDF, RTF, Word, WP or ASCII text versions.	 www.buildcore.com	April, 2007
<i>Buildcore</i> Online Catalogue	An electronic product catalogue is available online. Download or print the PDF file.	 www.buildcore.com	—