



**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 hydronic radiant, custom acoustic, security and hybrid ceiling systems. Aero Tech's hydronic 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 Hydronic Radiant Panels**  
 Extruded linear hydronic radiant ceiling panels are constructed of 5", 6", 8" or 9" (127, 152, 203 or 229 mm) wide extruded aluminum strips. The extruded panels interlock by means of tongue-and-groove joints and are held together as a unit by stiffeners on the back. Active strips have 0.505" (12.8 mm) ID copper tube inserted into "U" shaped channels on the back of the extrusion. Face configurations are available in V-groove, fluted and smooth.

**Formed Metal Hydronic Radiant Panels**  
 Aero Tech's formed metal and snap-in panels are constructed of 0.040" (1 mm) thick aluminum sheets with 6 passes of 0.505" (12.8 mm) ID copper tube 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 hydronic 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 2' x 2' (610 x 610 mm) and 2' x 4' (610 x 1219 mm).

Typical applications for these products include hospitals, schools, laboratories, airports, athletic facilities and office buildings.

**COLORS, FINISHES**

Aero Tech panels are finished in standard white color ATMI #0060 unless otherwise specified. Color and finish may be specified from custom finishes or matched to most colors selected by architect.

**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**

**PHYSICAL PROPERTIES**

For product technical data, including water pressure drop and panel heating and cooling performance information, consult manufacturer's technical literature and "Hydronic Radiant Panel Engineering Manual." For more information, contact Aero Tech Manufacturing Inc.

**ENVIRONMENTAL CONSIDERATIONS**

Aero Tech hydronic 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 hydronic radiant panel system specified. Complete installation instructions and recommendations are available from the manufacturer. Panel systems can also be installed by factory trained Aero Tech technicians. Consult Aero Tech Manufacturing Inc. for details.

**PRECAUTIONS**

- Hydronic 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 5'



(1.5 m) of the outside wall should have a heating capacity equal to or greater than 50% of the wall transmission load

- Sufficient space above the ceiling must be allowed for installing and connecting the hydronic radiant ceiling panel piping
- Consult manufacturer for complete list of precautions concerning application, design and installation techniques

**6. Availability & Cost**

**AVAILABILITY**

Consult manufacturer for information on local availability.



**COST**

Budget installed cost information may be obtained from the manufacturer.

**7. Warranty**

Complete warranty terms and conditions are available from Aero Tech Manufacturing Inc.

**8. Maintenance**

There are no moving parts to the Aero Tech Hydronic 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 provides extensive technical support to ensure successful and proper installation of its products. Aero Tech representatives provide assistance to engineers and contractors from the application and design considerations of hydronic radiant ceiling panels through contract execution, start-up and changeover procedures.

Aero Tech 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**

- Reed First Source®
- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.