



Portland PDX Airport Headquarters, Portland, Oregon | Zimmer Gunsul Frasca Architects

www.steelceilings.com

Steel Ceilings Inc.
Manufacturer of Metal Ceilings and Specialty Systems

Two ceiling systems deliver one **GREEN-FRIENDLY** solution

PROJECT:

Portland PDX Airport Headquarters, Portland, Oregon

ARCHITECT/DESIGNER:

Zimmer Gunsul Frasca Architects

GENERAL CONTRACTOR:

Hoffman Construction Company of Oregon

PRODUCT:

Steel Ceilings, Inc.

PROJECT SUMMARY:

Like the plane wing or ship hull its shape imitates, the Portland PDX Airport Headquarters melds the very best of engineering and design. The new facility, designed to bring the majority of the Port of Portland employees under one roof, sits on top of a 3,000-space long-term parking structure. The project combines sustainable and environmentally responsible building practices and operations and has earned LEED Platinum Certification.

"Steel Ceilings was involved in the project on every level. What really stood out for me is that they volunteered to come to the job site to make sure everything was going smoothly. That was noteworthy and a big value-add. They not only provided the product, but they represented it in the field."

BEN WILEY PROJECT ENGINEER
HOFFMAN CONSTRUCTION COMPANY

Workers and visitors have good reason to keep looking up, thanks to an innovative modular ceiling system — one of the largest of its kind in the United States. It was fabricated by the pioneers in ceiling component design and installation: Steel Ceilings and Airtite Radiant, together with Barcol USA. With the merger of Steel Ceilings and Airtite Radiant, the company becomes the only metal ceiling manufacturer that also makes radiant panels.

- Radiant ceilings use direct energy transfer to and from the people and surfaces in a room via extruded and modular-type panels. Hot or cold water circulates through concealed copper tubing on the back of the panels, providing sustainable heating and cooling and superior comfort with minimal air ventilation.
- More than 73,000 square feet of active and inactive radiant torsion spring and lay-in ceiling panels, mostly 2' x 6', were combined to impressive effect. The radiant system requires less airflow, and thus smaller duct sizes and a reduced plenum height — which results in significant savings in construction costs.
- Multiple panel types and sizes not only achieved the vision of an industrial open floor plan, but also integrated well with the project's mechanical, electrical and lighting requirements.
- Highly perforated panels delivered the optimum solution for combining acoustical value and aesthetics in a modern design.
- Compared with conventional all-air systems, the radiant ceiling system cuts HVAC energy costs by approximately 25 percent. This project, together with the savings from geothermal, DOAS and lighting, achieved energy savings over a conventional building of about 40 percent.

