



Project Experience

OVERVIEW

This 280-room hotel included conference space, commercial kitchens, and a natatorium. The project had a blistering schedule, ongoing design changes through construction, and complex lighting controls. Sweek Engineers used online commissioning software and steady project management to focus HVAC quality control.

SERVICES PROVIDED

Sweek Engineers was the Commissioning Professional (CxP) for the project, focusing on energy commissioning for lighting, HVAC and domestic hot water. Sweek also provided commissioning support of the smoke control system.

Using online software was essential to tracking checklists for 280 guest rooms, 40+ split-system heat pumps, and equipment in more than 23,000 square feet of amenity and conference space.

SUCCESS STORY

During initial testing of heat pump installation, Sweek Engineers identified that the control system was programmed to engage electric resistance heating instead of heat pump heating as the primary heat source. Had the issue not been resolved prior to turnover, it would have doubled heating energy use. Having the issue fixed during construction saved CSM more than \$10,000 annually in electricity costs.

SYSTEMS TESTED

- Amenity and Corridor HVAC (split heat pumps, dedicated outdoor air systems)
- Whole-building central domestic hot water (condensing hot water heaters, piping, and recirculation)
- Building Management System (HVAC)
- Garage Ventilation (fans, sensors, and control system)
- Guest room HVAC (occupancy sensor thermostats, through-wall heat pumps)

Aloft / Element Hotel

270,000 ft²

280-room boutique hotel

Completed 2017

CSM Corporation

Ankrom Moisan Architects

Absher Construction



Aloft / Element Hotel developed by CSM Corporation

Photo courtesy Absher Construction