



AIRFLOOR™

The Forced Air Radiant
Cooling & Heating System

Introduction to AIRFLOOR™

What is AIRFLOOR™ ?

Airfloor™ is an **innovative** alternative HVAC (heating, ventilating and air conditioning) system delivering both **radiant** and **displacement** heating and cooling within an **all-air conditioning** system.

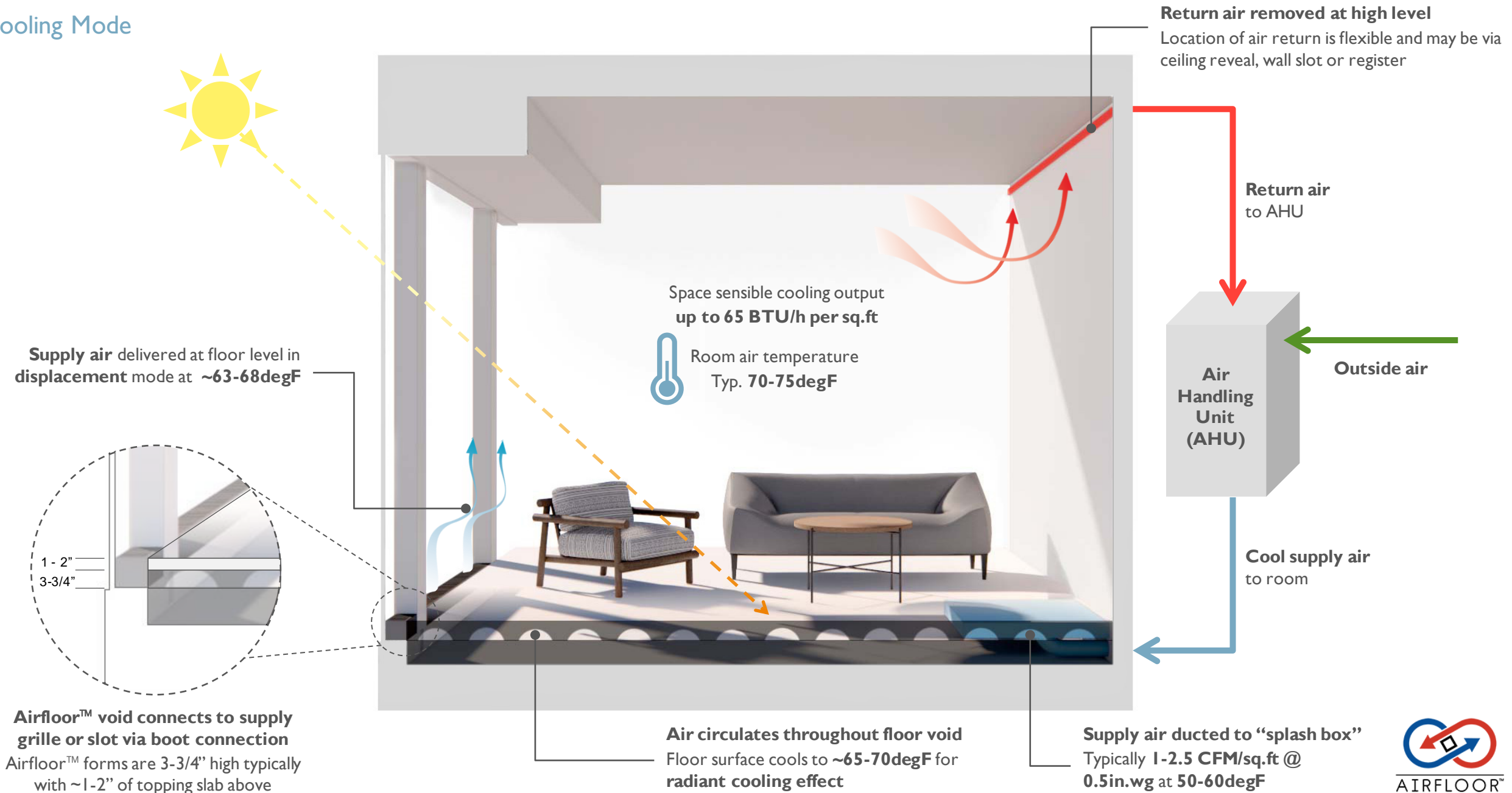
Airfloor™ means:

- **Architectural freedom and flexibility**
- **High ceiling and clear soffits**
- **Open, uncluttered spaces**
- **Reduced energy costs**
- **Superior comfort**
- **Improved Indoor Air Quality**
- **Low noise**
- **No terminal units or hydronic piping in rooms**
- **No overhead ductwork distribution**
- **Quick and simple installation and commissioning**



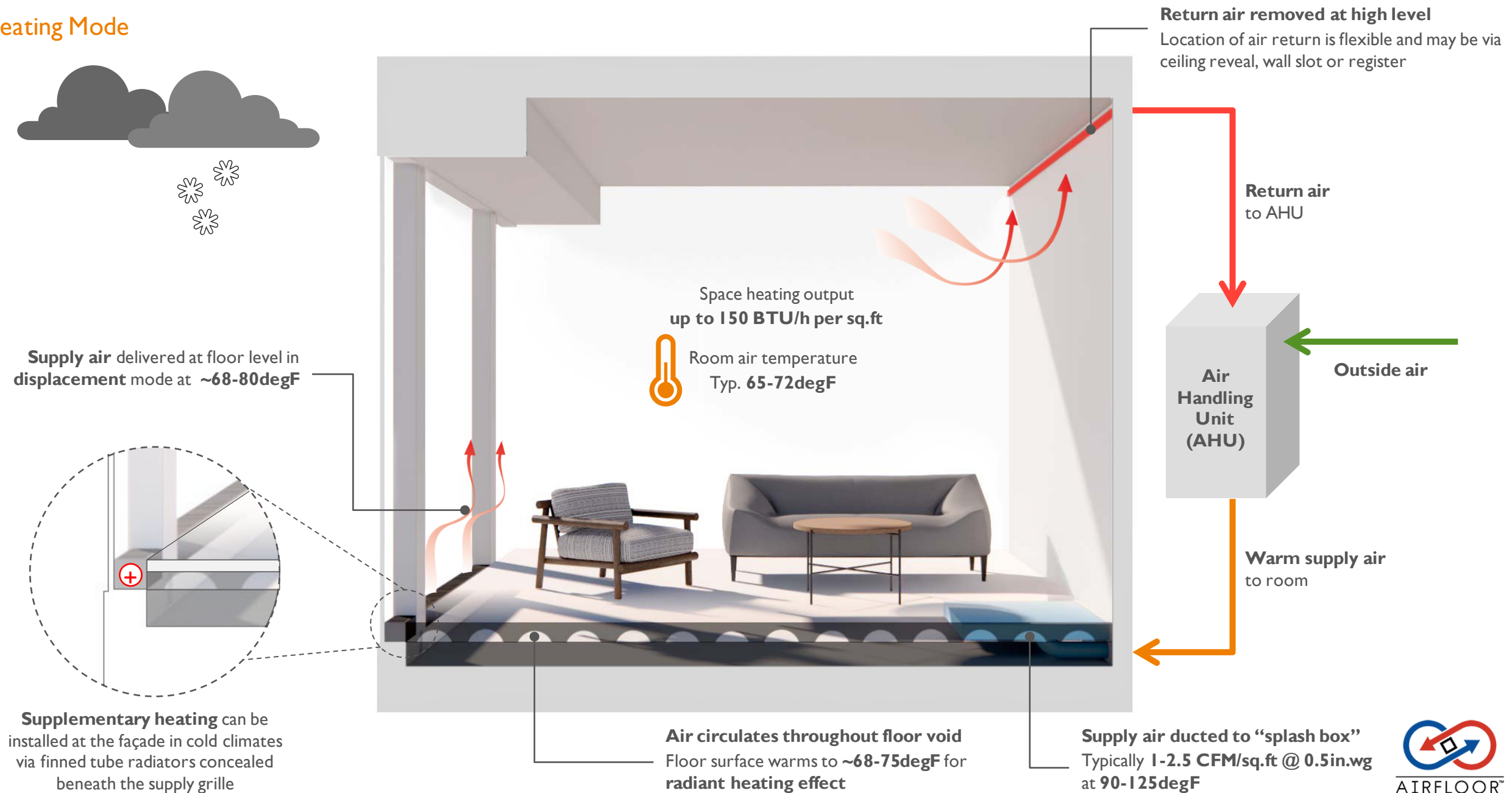
How Does AIRFLOOR™ Work?

Cooling Mode



How Does AIRFLOOR™ Work?

Heating Mode



Why AIRFLOOR™?



Sustainable

Made with **>65% recycled US steel**
Compatible with **low strength concrete** topping
slabs and **cement replacement**
Contributes to **LEED™ Standard Compliance**

Affordable

More **cost effective** than water-based radiant
heating and cooling systems
Reduced floor to floor height in multi-story
buildings offering savings on construction costs



Healthy

Improved Indoor Environmental Quality (IEQ) due
to displacement air delivery
No volatile organic compounds (VOCs)
Contributes to **WELL™ Standard compliance**

Low Energy

Reduces energy costs by 15% or more
compared to conventional HVAC systems





Why AIRFLOOR™?

Time saving

Quick and easy to install and commission

No piped service - reduces trades on site

No moving parts - simple to maintain

Discreet

Eliminates drop ceilings and overhead ducts

Concealed air delivery with multiple detail options

Increased ceiling heights



Comfortable

Improved thermal comfort due to radiant effect

Noiseless and draftless

ASHRAE 55 compliant as per **LEED™** requirements

Strong

Stronger than traditional **raised floor** systems

Tested load capacity >19,000 lbs/sq.ft



Where can AIRFLOOR™ be used?

Established in 1960s, Airfloor™ has been extensively used throughout the United States by leading international Architects and Engineers in

- **New-build and renovation projects**
- **All major construction sectors including commercial, residential, educational, mixed-use, aviation and ecclesiastical**
- **All main climate zones**

Airfloor™ is compatible with standard air handling equipment and air supply grilles or registers available on the market.

No special licenses or training are needed for system installers.

The **Airfloor™ system** can be easily installed in virtually **any construction project**.



Museum of Contemporary Art (Cleveland, OH)



150 N. Riverside (Chicago, IL)

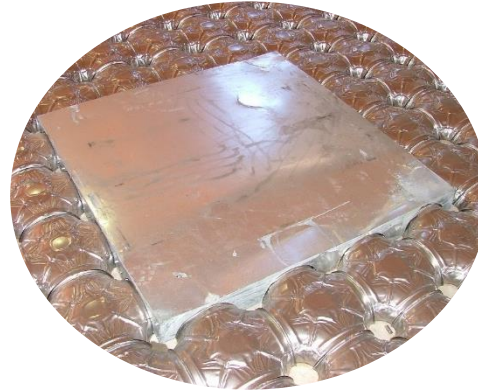


Fortaleza Hall (Racine, WI)

What makes up the AIRFLOOR™ System?



Airfloor™ Form & Clip
Pressed steel void former
interlocked to create a slim
floor void for air distribution



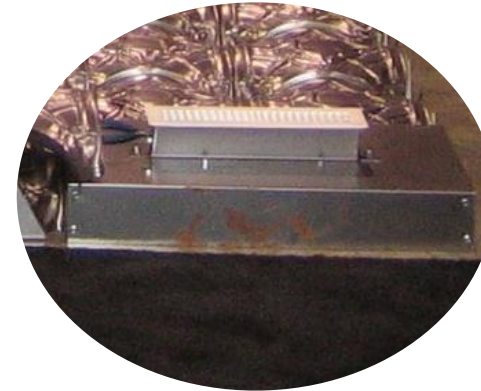
Splash Box
distribution box for duct
connection to floor void



Form Extension
Spigots for connecting floor
void to supply grilles



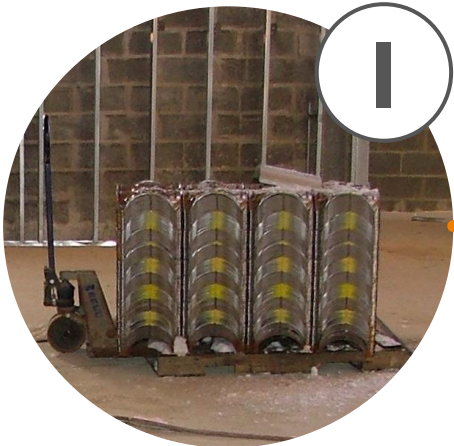
Form Closer & Divider
Closer to seal off void formers for
concrete pour and divider to direct
airflow within Airfloor™ void



Floor Connector
metal plenum box connecting
floor void to supply grilles

The Airfloor™ system comprises a number of components which are field-assembled to create the system. Other elements required to create a fully functional HVAC system which are not supplied by Airfloor™ include centralized air handling equipment and ductwork; air grilles & registers; thermostats, temperature sensors and control wiring; topping slab and floor finishes.

How Is AIRFLOOR™ Installed?



Flat packed **components**
delivered to site



Airfloor™ **forms** laid down
1 person can install
1000sq.ft a day



Airfloor™ **splash boxes**
and ductwork installed



Airfloor™ **form**
extensions and floor
connectors installed



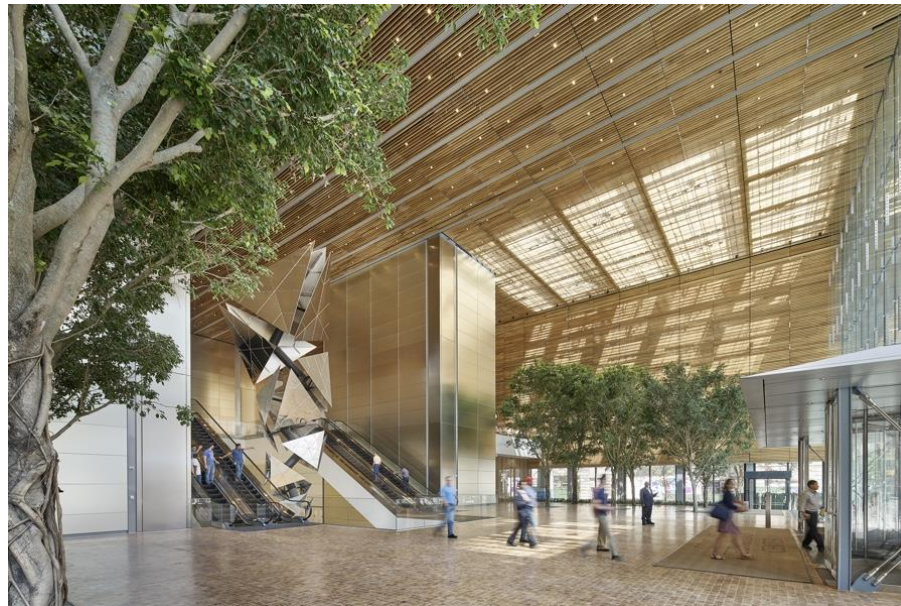
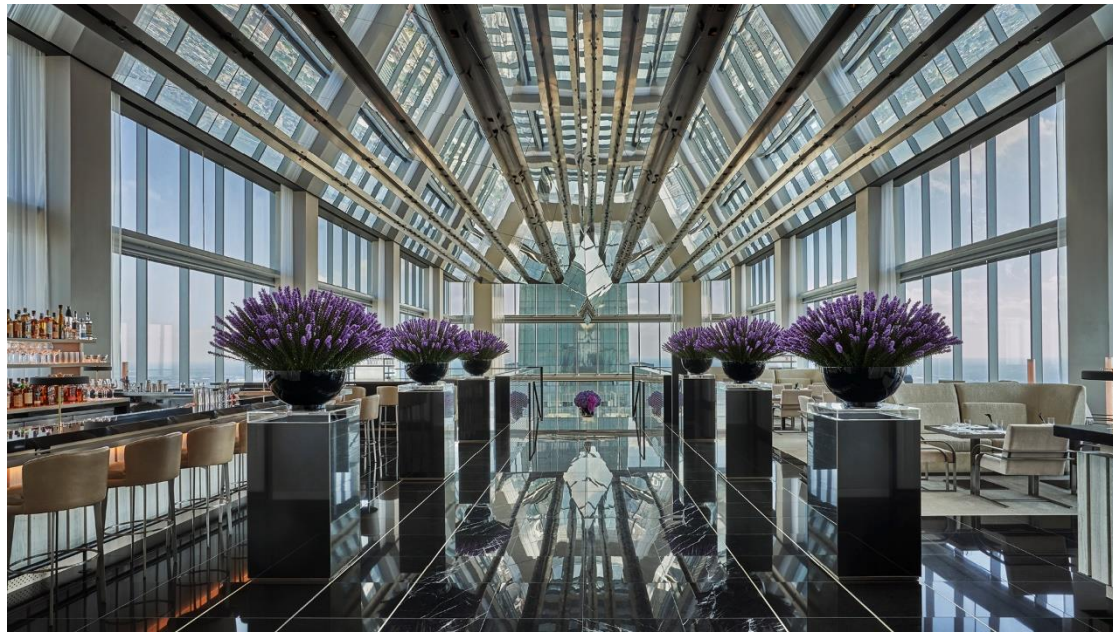
System **tested &**
balanced and set to work



Floor finishes applied



Topping slab poured



Comcast Technology Centre

Type:	Office and hotel
Location:	Philadelphia, PA
Climate zone:	4
Completed:	2019
Architect:	Foster + Partners
Area:	1,566,00 sq.ft (145,50 sq.m)
Height:	1,121 ft (342m)
Sustainability:	LEED Platinum

Located next to the existing Comcast Center, the Comcast Technology Center rises 1,121 feet (341 meters) as the city's tallest building. The Comcast Technology Center is vertically stepped, with loft-like work spaces and state-of-the-art television studios for NBC10 and Telemundo62, with a 12-story Four Seasons Hotel above. At an urban scale, the project is conceived as a welcoming addition to the neighborhood, integrated with its shops, bars and restaurants.

Airfloor™ is used to provide HVAC within the main lobby and restaurant levels.



Saddle Peak House

Type: **Residential**
Location: **Topanga, CA**
Climate zone: **3**
Completed: **2016**
Architect: **Sant Architects**
Area: **2,583 sq.ft (240 sq.m)**

With its organic, horizontal silhouette, raw concrete facade, and Bauhaus-leaning interiors, this midcentury nature retreat brings modernity to the mountains. Designed by California architect Michael Sant, the Saddle Peak House is a modernist confection made of glass, concrete, and wood nestled in the rugged Santa Monica Mountains.

The home is dominated by right angles—everything from the roofline to the rectangular pool underscores the geometric precision of its design. Inside, this motif continues with the contrasting vertically striped wood paneling and the horizontal striations of the concrete walls.

Airfloor™ is used to provide HVAC throughout.



Gensler

BUROHAPPOLD
ENGINEERING

Hines

Foster + Partners

SOM

**Kendall/Heaton
Associates**

Cosentini
A TETRA TECH COMPANY



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