DC FLEX ZONE™

Suspension System

For more sustainable, energy efficient buildings

Inspiring Great Spaces®

Armstrong® CEILING SOLUTIONS

the power is in the grid

Increase building flexibility, sustainability and energy savings with DC FlexZone™ Suspension System.

"We were able to simply snap fixtures into the grid wherever needed."

Mike Gilmore
PNC Director of Design and Construction Services

What is DC FlexZone Suspension System?

The DC FlexZone Suspension System distributes safe, low-voltage direct current (DC) electrical power through the acoustical ceiling suspension system (grid).

Why use DC FlexZone Suspension System?

DC FlexZone can be an integral part of a net zero energy building strategy providing more efficient lighting and direct use of on-site renewable energy. Plus, it gives you plug and play flexibility throughout the building.

Want to earn CEU credits?

Learn about the benefits of integrating DC power into your project for improved sustainability and energy savings by taking the AIA and GBCI approved continuing education course online.

SYSTEM OVERVIEW

What sustainability leaders are saying about DC FlexZone Suspension System:

"As a leader in sustainability, we're interested in anything that saves energy. The grid goes an extra step because it deals with direct current, which saves the energy needed to convert AC to DC."

Mike Gilmore
PNC Director of Design and Construction Services

"DC grid will be the power distribution system of the future. We see it as a potential game-changer for energy efficiency, flexible lighting, and renewable energy, and, as a result, are actively discussing the concept with the highest and most aggressive building developers in the country."

Peter Rumsey
Integral Group Director
West Coast

DC FlexZone Suspension System

- DC FlexZone Suspension System is a "Power Distribution Platform"
- Each main beam becomes its own electrical circuit – 24VDC, 100 Watts, "Safe to Touch", Class 2
- Powered main beam: Suprafine has 1 circuit
  Silhouette has 2 circuits
- Only the main beams receive power, all other ceiling and suspension components are standard
- DC FlexZone Suspension System is installed like any other acoustical ceiling, electricians simply "wire up" the grid instead of every light fixture
- At least 2.0 watts/SF of power is delivered through the ceiling, more than enough for lighting and other plenum-based electrical devices like sensors

Power Supply

- A power supply connects to the building's AC power and converts it to 24 Volt direct current (DC)
- Optional for the power supply to be directly connected to a renewable on-site source, like solar

Power Cables

- Power cables bring power from the power supply to the DC FlexZone Suspension System via special connector slots on the grid
- Each main beam receives power so it's available wherever you need it

Devices

- Device cables bring power from the DC FlexZone Suspension System to devices anywhere along the main beam – just "plug and play"
- Compatible fixtures from lighting companies include:
  - 2' x 2', 2' x 4', Pendant and Downlight fixtures
  - Compact Fluorescent, Fluorescent and LED lighting technology

Controls

- Audacy™ Wireless Controls by Ideal

AUDACY
ADVANCED WIRELESS SOLUTIONS BY IDEAL

TAKE THE NEXT STEP

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