



PANEL SOLUTIONS APPLICATIONS: FOR BUILDING PLENUMS

CHALLENGE: PRESERVING BUILDING ENVELOPES

Plenums are unable to fit or preserve building envelopes.

- A need to limit the wear of building insulation, while also keeping condensation to a minimum.
- Noisy discharge plenums.
- Ensuring the building is resistant to all forms of weather.

SOLUTION: PLENUM ENCLOSURE

All panel products are engineered and 3rd party tested for acoustical, thermal, and structural performance:

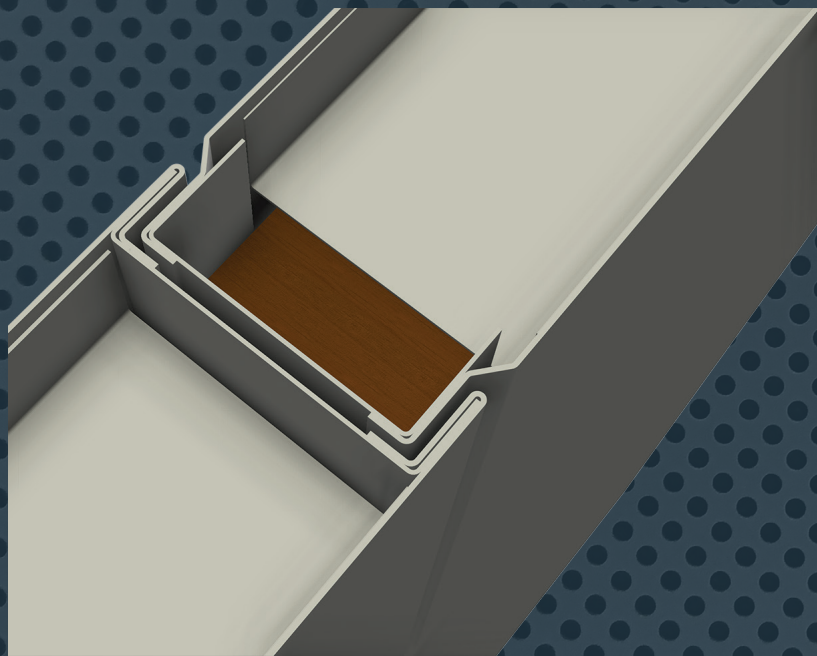
- A diverse array of insulation material options designed to meet thermal requirements.
- Sound is absorbed by perforation and mineral wool insulation.
- Panel joints, materials and finishes are designed and tested to withstand outdoor exposure in any environment.
- Every plenum job is custom engineered to meet job building envelopes and requirements.

CHALLENGE: STRUCTURAL INTEGRITY

Plenums that are not equipped to withstand high winds and high pressure loads.

SOLUTION: SEISMIC & WIND LOADING DESIGN

FläktGroup® SEMCO® panels are engineered for structural integrity while achieving individual design requirements with reduced amounts of supplementary support steel.



FläktGroup® SEMCO® panels feature tongue-and-groove joints with custom insulation.



NOISE
DAMPENING



STRUCTURAL
INTEGRITY



CUSTOM
PANEL DESIGN

**Superior Quality,
custom engineered
plenums at a
lower cost.**

CHALLENGE: MATCHING CONNECTIONS

Difficult to match equipment and/or duct connections.

SOLUTION: SIMPLE INSTALLATION ASSEMBLY

To make panels fit equipment and duct, interior cuts, semicircular cuts, notches, and sloped ends are added upon creation at the factory. These cuts allow for easy installation and seamless design.

CHALLENGE: PANEL JOINTS

Unsightly screws through panel joints.

SOLUTION: FANTASTIC FINISH

FläktGroup SEMCO tongue-and-groove panels do not have screws through panel joints, improving aesthetic appeal.

CHALLENGE: ASSEMBLY

Stick built plenums are difficult to assemble.

SOLUTION: EFFICIENT FIELD FABRICATION

Plenums can be quickly erected and installed with the aid of individually labeled panels and detailed layout drawings with installation instructions. FläktGroup SEMCO tongue-and-groove panels also do not require screws at the joints, speeding up installation.



For more information on FläktGroup SEMCO Panel Solutions, or to find your local sales representative visit www.semcohvac.com.

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