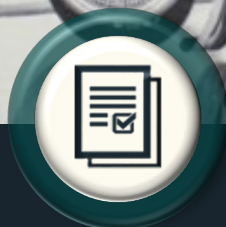


INTRODUCTION TO FLÄKTGROUP SEMCO PANEL SOLUTIONS





Energy &
Environmental
Focus



Patented &
Certified
Products



U.S & Global
Footprint



Engineered
Air Quality &
Data Center
Solutions



Engineered
Air Distribution
& Sound
Solutions



OEM,
Key Account &
Sales Rep
Route To Market



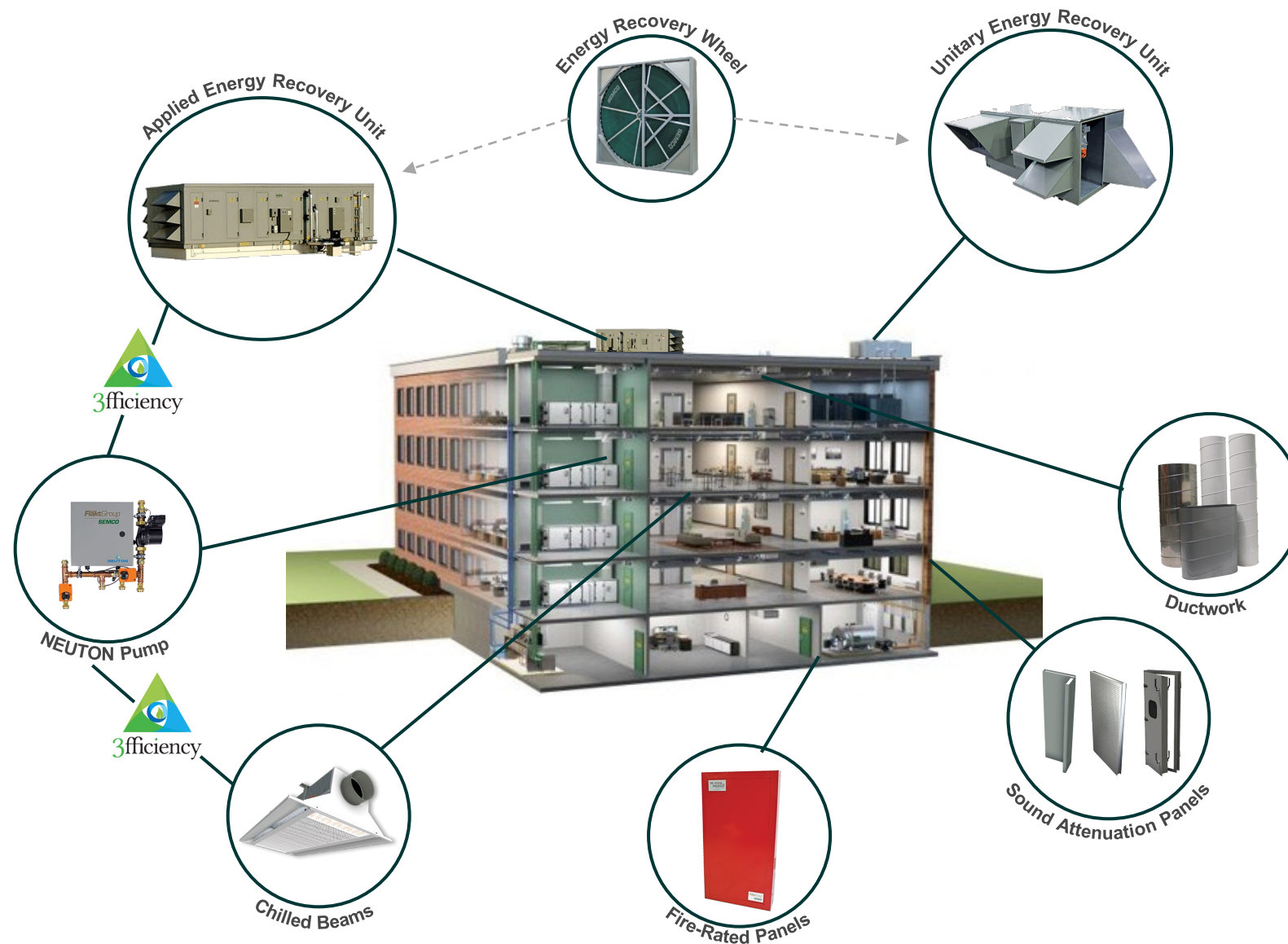
Service &
Support



Award Winning
& Industry
Recognized

Who we are & what we do

FläktGroup SEMCO Products For Commercial Applications



Education



Offices



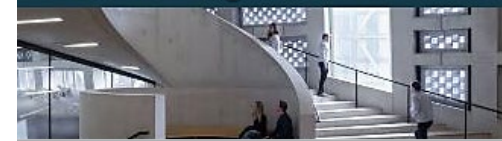
Healthcare & Labs



Manufacturing & Automotive



Public Buildings & Entertainment



Sports Facilities



Datacenters





FläktGroup SEMCO Superior Sales Support & Service



WELCOME TO SELECT - YOUR RESOURCE FOR OPTIMAL INDOOR AIR CLIMATE

Quick Select

Calculate

Project

IQ STAR ORION II Chilled beam (IQHA)

Properties

Length:	100
Coil function:	Cooling
Coil:	Cooling left
Pt Function:	With
Flexible hoses:	Without
Grille:	Adjustable horizontal z

ADVANCED PRODUCT PROPERTIES

Horizontal deflection:	0
Vertical deflection:	0

Parameters

Number of units:	1
Air pressure drop:	mmWG

RESULT

Power	481	1892	2230	btu/h
Coil power	437	1175	1247	btu/h
Supply air power	44	517	992	btu/h
Power (all units)	481	1892	2230	btu/h
Sound Lp10A dBA	< 20	< 20	25	dB(A)

EXPRESS SELECT™

FläktGroup SEMCO

Colleen Devlin Semco
colleen.devlin@flaktgroup.com

Home | Selection Tool | Quote Request | Administrator | Account | Sign Out

Print Schedule | Preview Proposal

Read-only mode

Project | Global Input | Input | Output | Energy Analysis

Project Information

Project Date	08/28/2018
Quote Valid Through	2nd Half 2018
Project Name	Assembly Dental



What are Panels?

A panel is an engineered product that can be used in many applications, eliminating the need to field build structures. Using pre-engineered panels provides a high-quality solution while saving time and money.



The Benefits of FläktGroup SEMCO Panel Solutions

- Time savings
- Engineered performance
- Simplified project management
- Cost reduction
- Integrated structural integrity
- Computer aided design
- Architecturally appealing
- Premium packaging
- Quality manufacturing
- Roll formed tongue-and-groove construction
- No screws through panel joints
- Factory cut and framed openings, seal exposed insulation



PANEL TYPES





Acoustic and Thermal Panel Systems

FläktGroup® SEMCO®'s acoustic and thermal panel system offers performance-engineered assemblies made of quality constructed double wall panels for built-up AHUs, intake and relief plenums, and extended plenums.



Features and Benefits:

- Excellent cost-to-performance ratio.
- Factory cut and framed openings, make a stronger structure while minimizing installation time.
- Independently tested for acoustical, thermal, and structural performance.
- Pre-formed corners reduce field labor while increasing overall unit strength.



Acoustic and Thermal Panel Solutions

Applications:

- Standard built-up air handling units
- Rooftop equipment enclosures
- Extended plenums
- Material handling enclosures
- Supply/return chase plenums
- Mixing plenums
- Outdoor air plenums
- Clean rooms
- Louver blank-offs

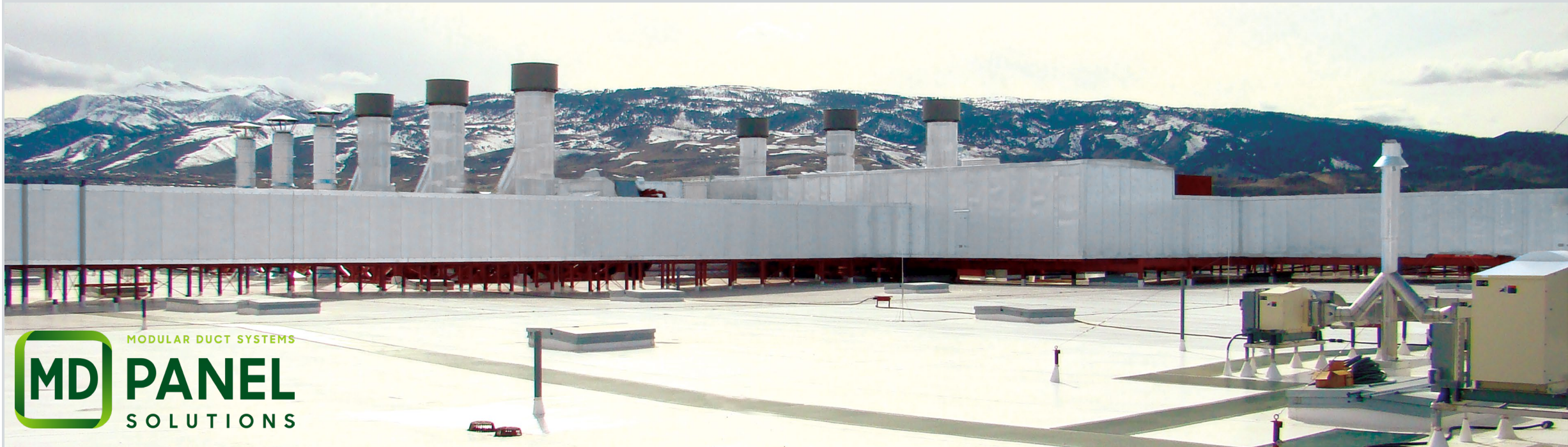
 ACOUSTIC

 THERMAL



Modular Duct Panel Systems

FläktGroup SEMCO's modular duct panel system is an affordable way to connect double wall rectangular duct to plenums or housings. The modular duct panel system allows dual wall rectangular duct to function under high operation pressures and have a longer span.



Modular Duct Panel Systems



Features and Benefits:

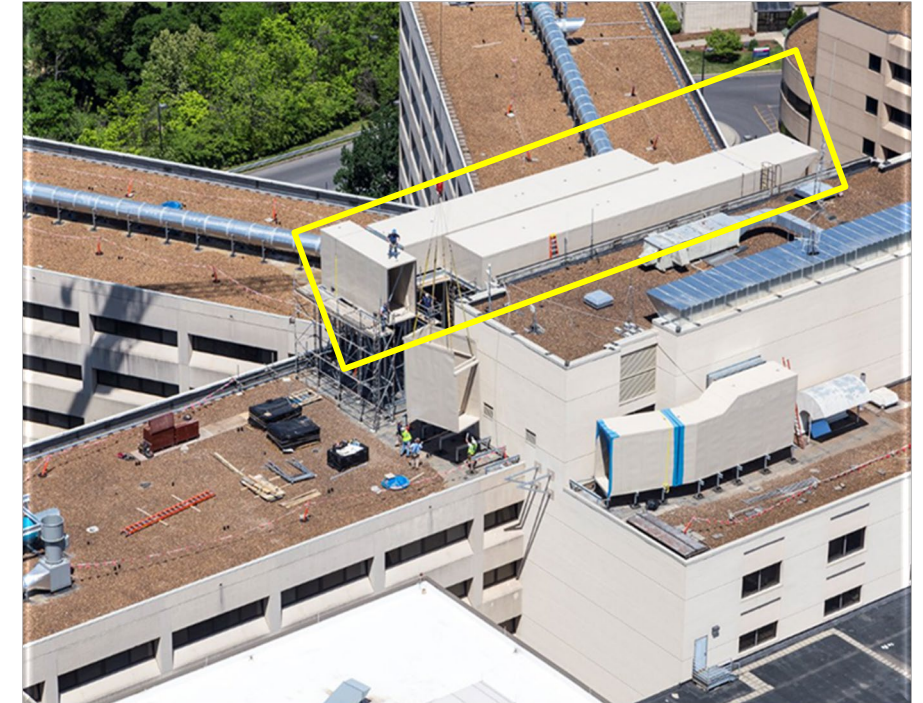
- More efficient and affordable way to install large, double wall rectangular duct extending beyond a plenum or housing.
- Designed as an integrated structure eliminating much of the expensive structural steel and fabrication labor required for large field-built dual wall duct.
- Can be powder coated to match building facade



Modular Duct Panel Solutions

Applications:

- Rectangular ductwork exceeding 96"
- Rectangular ductwork less than 45"
- High pressure systems
- Stringent load requirements



INTEGRATED
REINFORCEMENT



MODULAR

Industrial Panel Systems

When loud industrial equipment causes noise pollution, Industrial Panel Solutions will help you dampen noise and meet industry guidelines and regulations. Suited for large, complex projects,

FläktGroup SEMCO's industrial panel systems will provide superior, acoustical, structural, and thermal performance.



Features and Benefits:

- No screws through panel joints eliminates possibility of air and noise leaks.
- Removable panels allows easy replacement of component parts.
- Industrial panels protects the surrounding areas from noise pollution to meet industry guidelines and regulations.



Industrial Panel Solutions

Applications:

- Barrier walls
- Generator/compressor enclosures
- Industrial equipment enclosures
- Pump enclosures
- Modular buildings
- In-plant noise abatement
- Turbine enclosures
- Chiller enclosures
- Equipment enclosures



STRUCTURAL



NOISE BARRIER



INDUSTRIAL SYSTEMS
IN PANEL
SOLUTIONS

Fire Panel Solutions

In the event of a fire, occupants should quickly move to safety, and critical information should be protected. FläktGroup SEMCO's fire-rated panel system is the industry's only certified fire protection panel that's also building code-compliant for use in structural, acoustical, and thermal applications. The industry's thinnest fire-rated panel offers up to two hours of fire protection, integrated structure and superior transmission loss in an easy-to install, tongue-and-groove design.





Features and Benefits:

- 1 hr. or 2 hr. fire-rated panels
- Third-party fire tests of building and construction materials done by Intertek.
- ASTM-E119 2-hour and 1-hour fire rating certified.
- Only certified fire protection panel that's also building code-compliant for use in structural, acoustical and thermal applications.
- Significantly low thermal transfer rate.

Fire Panel Solutions

Applications:

- Interior Walls
- Elevator Shaft
- Stairwell Chase
- Equipment Rooms
- Power generating enclosures
- Ductwork
- Building Envelope/Penthouse
- Data Center





FLÄKTGROUP® SEMCO® PANEL CASE STUDIES

Case Study: Calgary International Airport

The Challenge:

To replace Calgary International Airport's deteriorating temporary gates 1-10, with permanent gates that meet the stringent durability, acoustic protection, and fire safety building codes the airplane industry requires, quickly.

The Approach:

Partnering with ATCO Structures and Logistics (ASL), FläktGroup® SEMCO® supplied 57,000 sq. ft. of Industrial Systems panels to build a new passenger area and walkway for gates 1-10. The 6-inch non-combustible industrial panels met all the building code requirements.

The Result:

FläktGroup SEMCO was able to manufacture textured, powder coated panels and trim and strategically deliver them to the jobsite every four days, to keep construction on track. The first phase was completed in three months with the second phase complete two months later.



Case Study: Fort Hood; Carl R. Darnell Army Medical Center



The Challenge:

To provide 67,000 sq. ft. of panels for brand new, long-lasting, state of the art, healing environment, based on the original Fort Hood Medical Center. The panels needed to provide structural integrity and low air leakages around the center's large, 21-wheel, energy recovery system design.

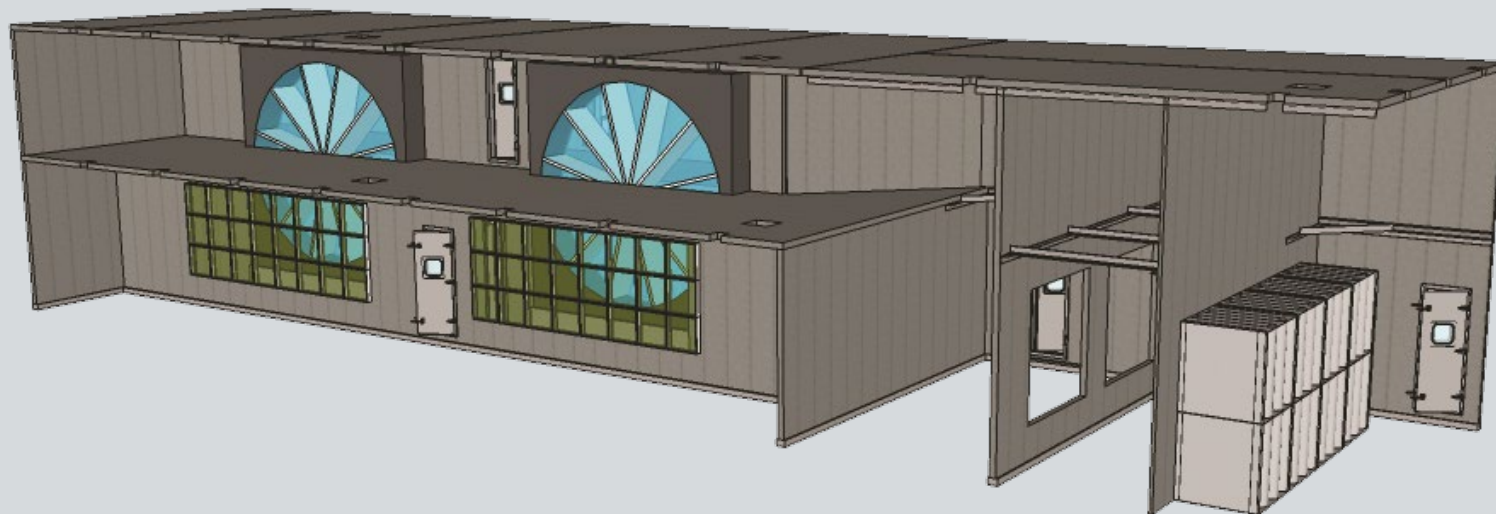
The Approach:

After considering several different panel providers, Southland Industries opted to use FläktGroup® SEMCO® acoustic panel systems to build six free-standing wheel enclosures as well as a walkable platform in between the lowest floor and the roof. All acoustic panels used on the project required 4" insulation. In addition to acoustic panels, modular panels were also used for large ductwork (162" x 72") and plenums (100' & 175') at the new Fort Hood Medical Center.

Case Study: Fort Hood; Carl R. Darnell Army Medical Center

The Result:

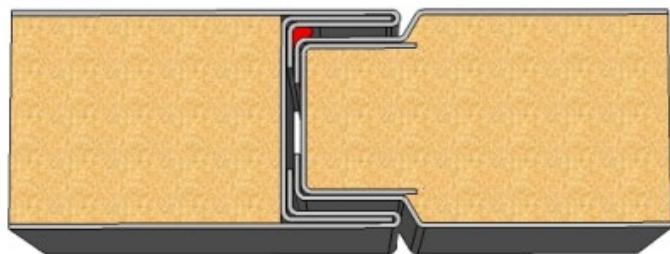
Due to the benefits of FläktGroup SEMCO Panel Solutions, Southland Industries was able to quickly assemble high quality, structurally sound panel structures. Upon its completion Carl R. Darnell Medical Center was seven stories and 947,000 sq. ft., making it one of the largest military medical centers in the country.



WHY FLÄKTGROUP® SEMCO®
PANEL SOLUTIONS?

It's all in the joint.

FläktGroup SEMCO's unique tongue-and-groove design does not require joint screws and requires only one bead of caulk.

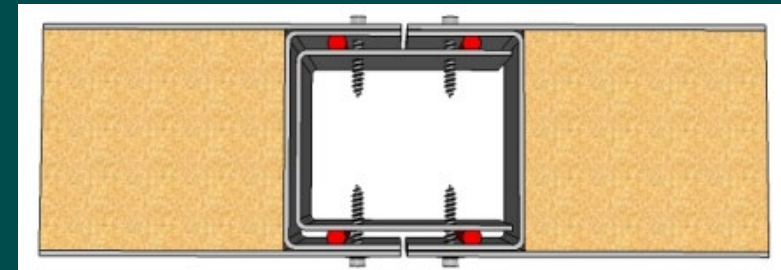


FläktGroup SEMCO Panel Joint

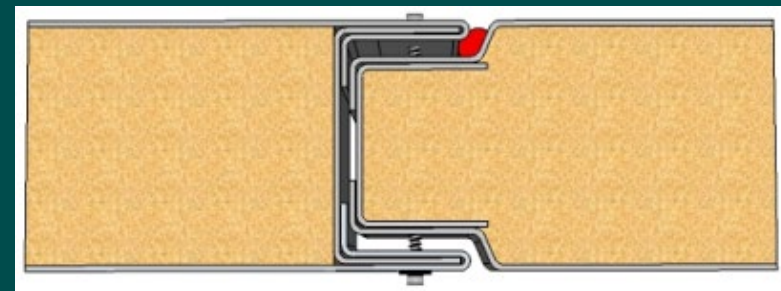
Competitor's Joints

TYPE A -

Commercial Acoustics, IAC

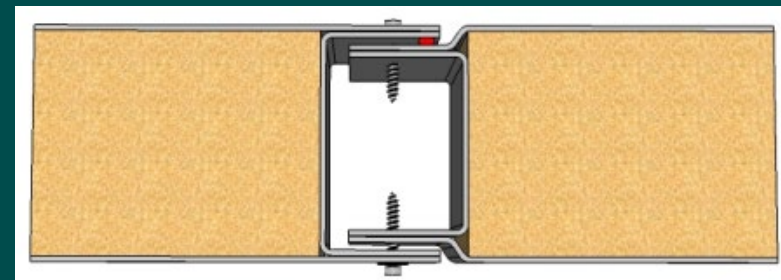


TYPE B - Ruskin



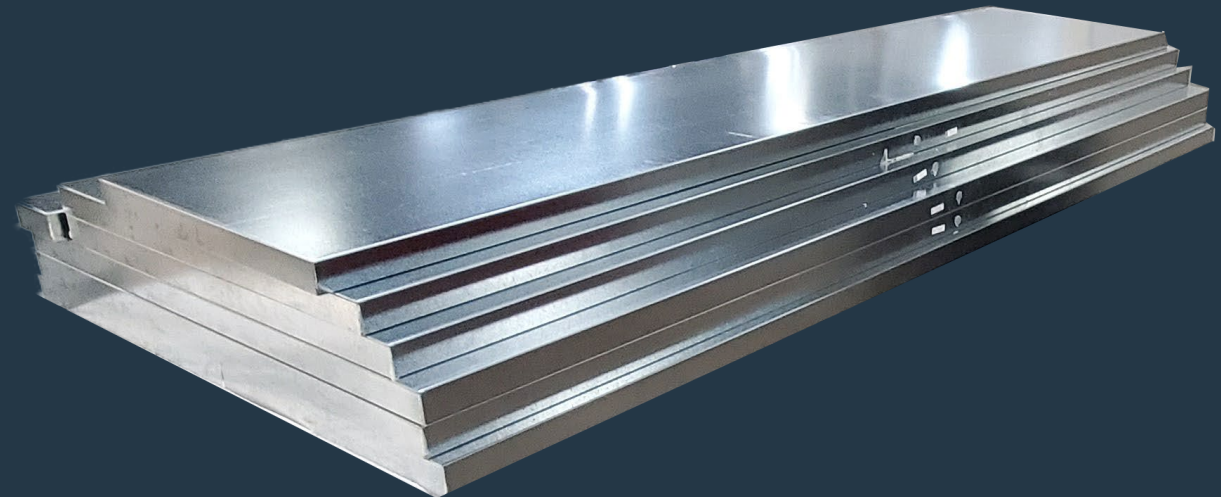
TYPE C -

Commercial Acoustics, United,
Vibro-Acoustics, Aerosonics,
Pottorff



NOTE: Competitors' screws are 12" O.C.

- 2", 4", 6" Inch Thickness
- Up to 45-1/2" width
- Up to 20' length
- Pre-formed corners to 12' length
- Galvanized, stainless or aluminum
- Mineral wool, fiberglass, and custom insulation available
- Vapor barrier available
- Pre-punched base channels
- Circular cuts
- Semi-circular cuts
- Panel interior cuts
- Panel notching
- Standard pre-hung doors
- Custom doors and hardware



Panel Joint Labor Comparison

Panel Type	Joint-Field Insulated	Screw Joint	Seal Joint	External "H" Joiner
FläktGroup® SEMCO®	No	No	Yes (1 time)	No
Type A	Yes (2 times)	Yes (4 each 12" O.C.)	Yes (4 times)	Yes
Type B	No	Yes (2 each 12" O.C.)	Yes (1 time)	No
Type C	Yes (1 time)	Yes (2 each 12" O.C.)	Yes (2 times)	No

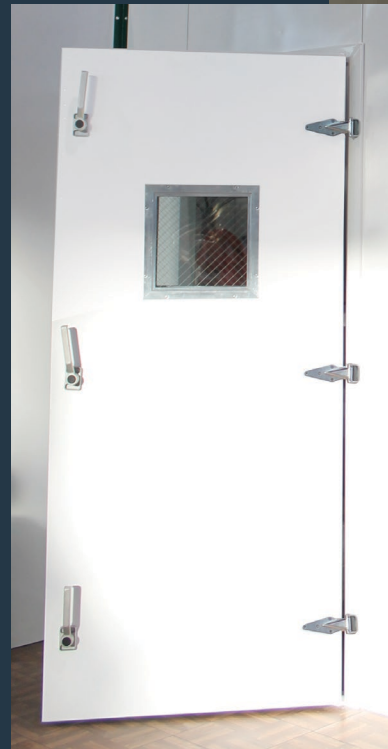
Labor Calculations*

Panel Type	# of Screws in Joint	Linear Foot of Insulation Fill	Liner Foot Sealant	Total Man Hours
FläktGroup® SEMCO®	0	0	1,000	136
Type A	4,000	2,000	4,000	204
Type B	2,000	0	1,000	160
Type C	2,000	1,000	1,000	170

*Based on a 2,500 sq. ft. enclosure, 10'-0" high or a total of (100) 10'-0" panels that average 25 sq. ft. per panel.

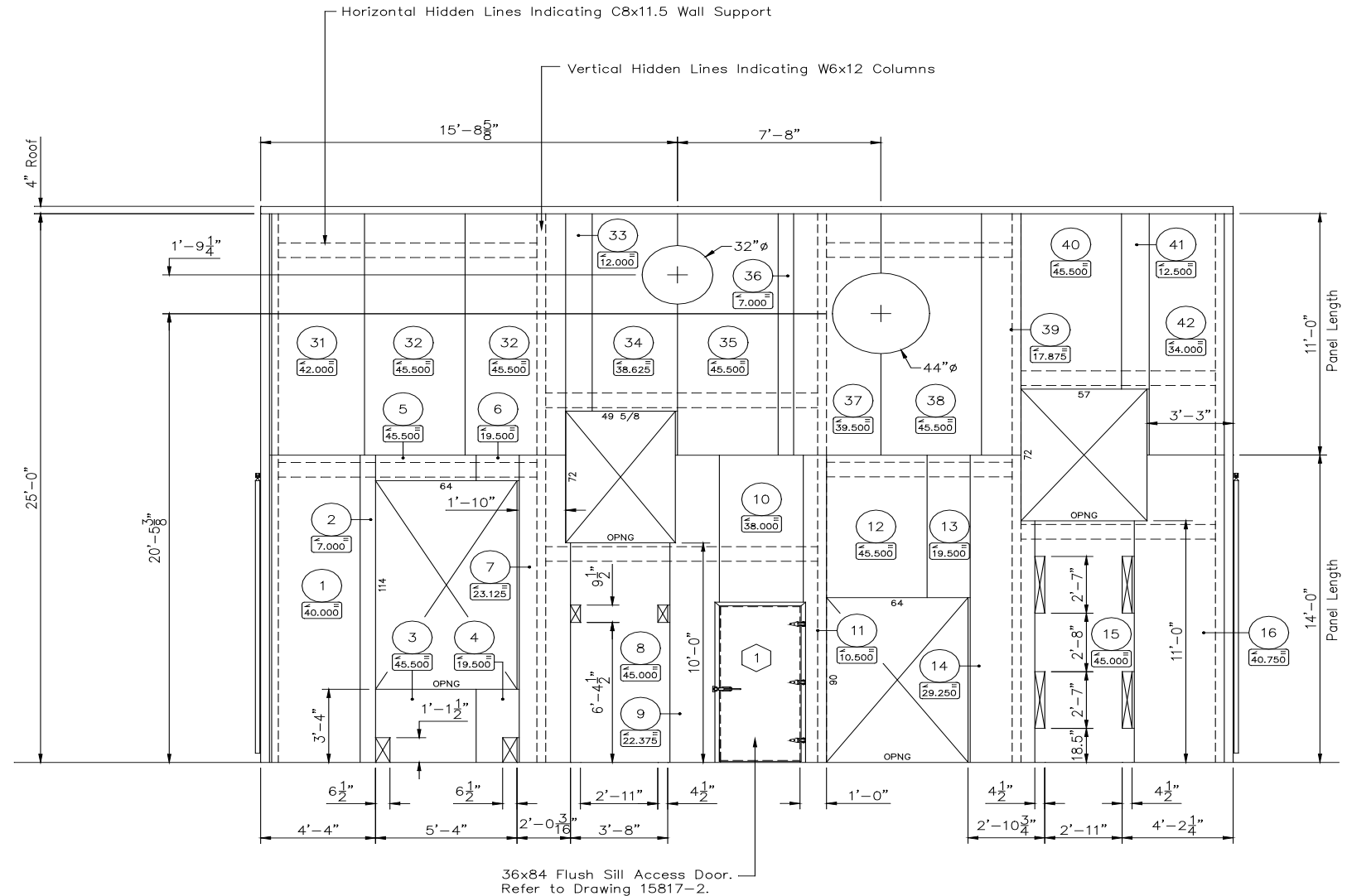
Access Doors

- Full wrap-around frame
- 2", 4", and 6" thicknesses
- Large 24x66" standard doors
- 12x12" double pane wire-glass windows available
- 3 lb mineral glass fiber
- Up to 36x84" single, 72x84" double
- Removable



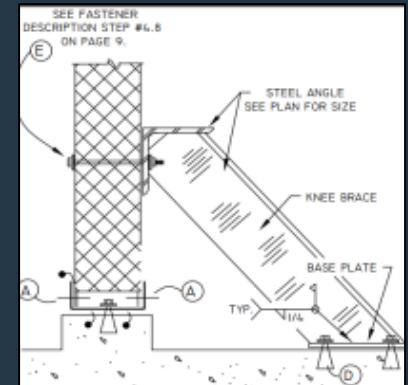
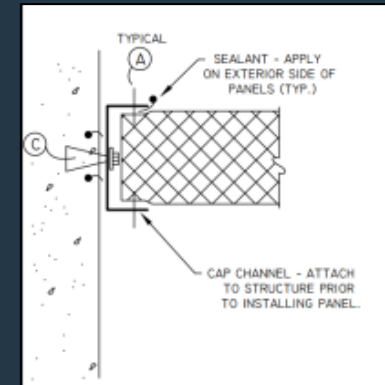
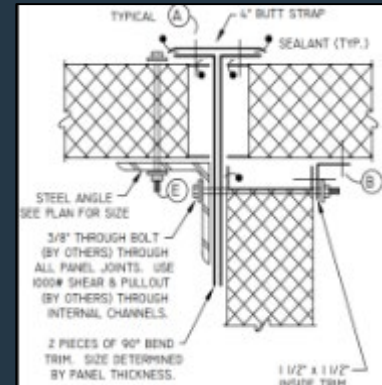
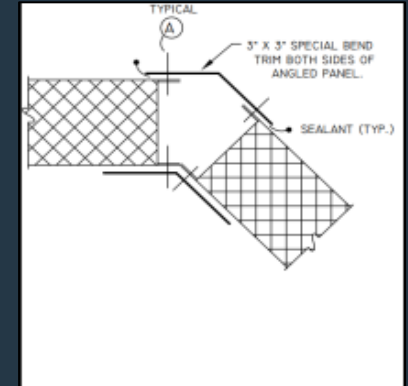
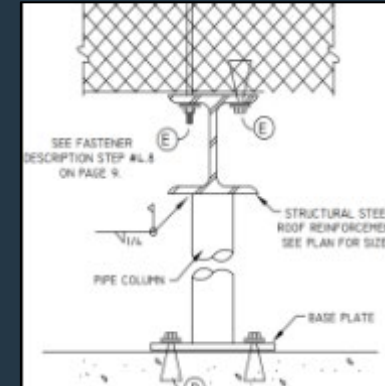
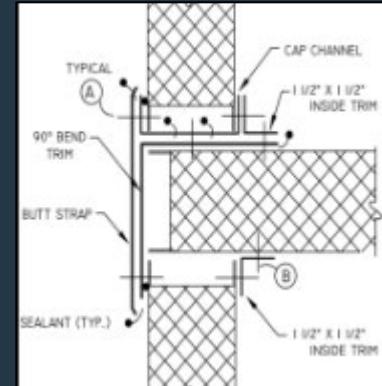
Detailed Drawings

- Approval drawings
- 1/4" scale
- 30"x42"



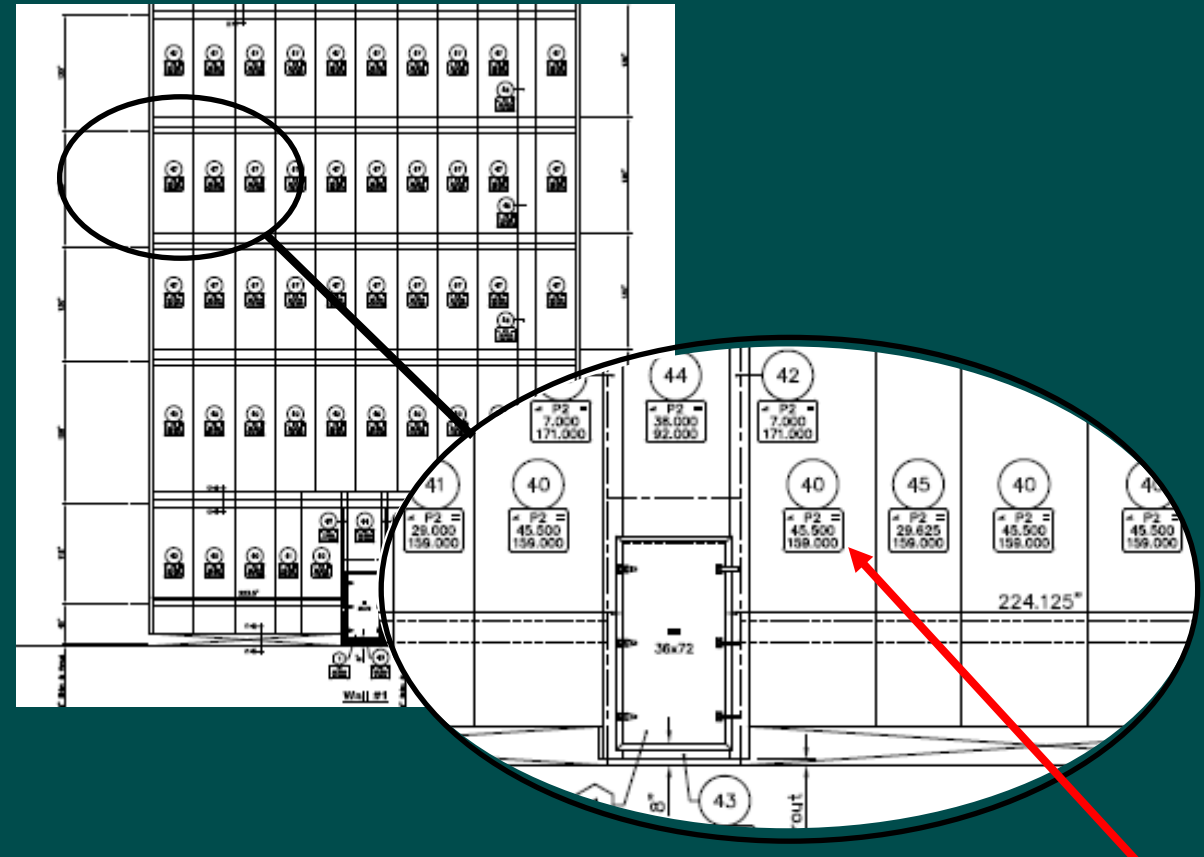
Standard Details for CAD Drawings

- Catalog of standard details are available for insertion into CAD design drawings.



Simplified Project Management

- Fabrication drawings
- Assembly drawings
- Detailed bill of materials
- Complete ¼" scale "D" size drawings ensure accurate system layout
- Flexibility is built into each design to allow for unexpected job site changes
- Individual panel piece-mark and assembly drawings



PANEL MARK :

56289-2 **40** **A**
CR15822
RAS AZ ZAWR/72629
SEMCO LLC - 1800 East Pointe Drive - Columbia, MD 41001
PHONE 571-443-1481 FAX 571-443-6021

Simplified Project Management

Carefully marked with
easy to follow plans.

PANELS - BILL OF MATERIALS

JOB NAME : RAS AZ

JOB # : CR15822

UNIT # : Stack

CONSTRUCTION STANDARD P2

Panel 4" 16 Ga. G90 Solid EXT / 24 Ga. G90 Perf INT / 18 Ga. G90 IS @ 16" o.c. / 8#MW

Mark	Drawing No	Qty.	Width	Length	A	B	C	D	TagCode
40	1	57	45.500	159.000					A
41	1	2	29.000	159.000					A
42	1	4	7.000	171.000					A
43	1	2	38.000	6.000					A
44	1	2	38.000	92.000					A
45	1	2	29.625	159.000					A
46	1	2	19.625	159.000					A
47	1	120	45.500	130.000					A
48	1	4	10.625	120.000					A



PANEL MARK :

56289-2
CR15822
RAS AZ ZAWR/72629

40

A

SEMCO LLC - 1800 East Pointe Drive - Columbia, MO 65201
PHONE 573-443-1481 FAX 573-443-6921

Panel Mark No.
Order No.
Project Name
Location / Description

Premium Packaging



Level 1 Packaging

- Built to size skids
- Secure packaging



Level 2 Packaging

- Superior packaging – available for critically sensitive projects.



Panel Finishing Options

Architecturally Appealing Finishing Options:

- Standard mill finish
- Field paint
- Powder coat
 - Standard & custom colors
 - Hammertone, antique, and rough finishes are available
 - Durable indoor or outdoor finish
 - UV & corrosion resistant



Architecturally Appealing



When time means money:

FläktGroup SEMCO has the industry's
SHORTEST LEAD TIME
and most consistent on-time deliveries

Typical production lead times:

FläktGroup SEMCO = 2 to 3
weeks

Our competition = 4 to 6 weeks



Contact Information & Thank You

Panels: panels.semco@flaktgroup.com

Unitary: unitary.semco@flaktgroup.com

ElitePro: elite.semco@flaktgroup.com

Applied Products (Pinnacle, Ascendant, EnergyPackage, Custom):
applied.semco@flaktgroup.com

Chilled Beams: chilledbeams.semco@flaktgroup.com

Duct: duct.semco@flaktgroup.com

Panels: panels.semco@flaktgroup.com

Refresh Wheels & Components: refresh.semco@flaktgroup.com

OEM Energy Wheel: oem.semco@flaktgroup.com

Datacenters: datacenters.semco@flaktgroup.com

Parts/Service Contact Information: service.semco2@flaktgroup.com

Warranty/Quality Claims: <https://info.semcohvac.com/claim-form>

Service Request: <https://info.semcohvac.com/service-request>

Parts Request: <https://info.semcohvac.com/parts-request>



www.semcohvac.com

Nathan Borgmeyer
Industrial Panels Project Manager
c: 573-886-1192

1800 East Pointe Drive, Columbia, Missouri 65201 USA

Thank you for your attention!