

CODE-COMPLIANT

STRUCTURAL

# FR-PANEL SOLUTIONS

## FIRE RATED PANEL

### NFPA 251 COMPLIANT

### INTEGRATED STRUCTURE

FläktGroup® SEMCO®'s fire-rated panel system (FR-PANEL) is fire-resistant and also building code-compliant. The FR-PANEL System offers fire-protection, integrated structure and remarkably low thermal transmission loss in an easy-to-install, tongue-and-groove design. Available in one-hour or two-hour fire-protection options.

- The one-hour and two-hour fire-rated panel systems are National Fire Protection Association (NFPA) 251 compliant for acoustical and thermal panels.
- The one-hour and two-hour FR-PANEL have been successfully tested by Intertek using Underwriters Laboratory-263® (UL-263®) "Standard for Fire Tests of Building Construction and Materials", as well as the American Society for Testing and Materials® (ASTM) ASTM-E119® test criteria.
- FläktGroup® SEMCO® panels are inherently easy to assemble, because of their quick-installing tongue-and-groove design. Competitive panel brands require excessive field-applied fasteners, making them much more difficult to assemble.

For details on materials and test results, consult the FR-PANEL Technical Datasheet, available online at [www.semcohvac.com](http://www.semcohvac.com).



### KEY BENEFITS

- Internal media provides excellent fire-protection and no sound transmission loss.
- Eliminating the use of screws through vertical panel joints, reduces the installation cost and removes the possibility of air and noise leakage.
- Roll formed tongue-and-groove construction, fully enclosed and with insulated joints gives it a better fit with closer tolerance.
- Significantly low thermal transfer rate, allowing first responders the time they need to arrive.
- Panels up to 12'-0" long adds strength, rigidity, and makes installation easier.
- No-thru-metal panels solving condensation and low temperature issues that may occur with standard panels.



Certified by an independent testing laboratory. Patent pending.

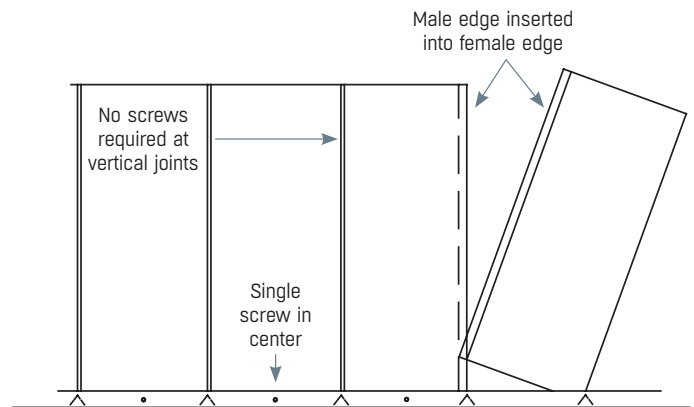
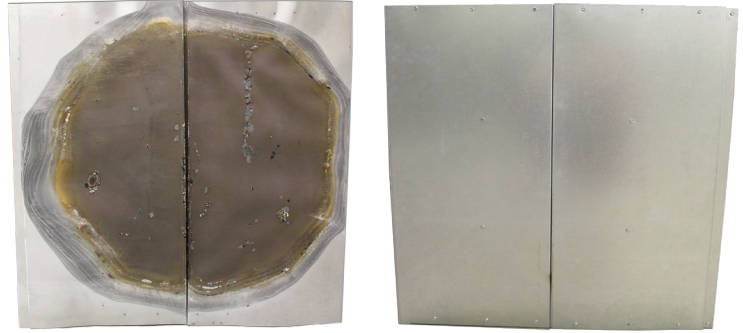
## UNIQUE ADVANTAGES

- The FR-PANEL system offers a cost-cutting solution for fire-resistant enclosures, hazardous locations and critical mission environments. The system is National Fire Protection Association - 251® (NFPA-251®) compliant. Each panel is constructed to be 4 inches thick in order to protect any equipment housed inside the enclosure and to prevent the fire from spreading to surrounding environments. Widths are available up to 45-½ inches.



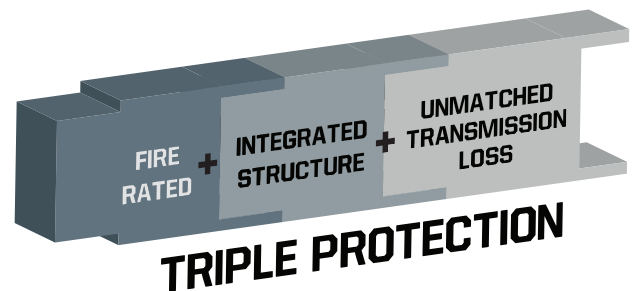
- Panels are slipped into the base channel and secured with self-tapping sheet metal screws at the base channel to maintain plumb - screws at the joints are NOT required.
- CAD drawings prevent the over use of structural steel, provides the customer with a calculated safety factor and reduces installation costs by as much as 15%. The drawings identify areas where factory notches are required, reducing install costs and utilizing equipment efficiently.
- Flexible design options to meet special requirements.
- Auto CAD drawings shorten the approval process and reduce field labor by providing panel layout, installation details and individual panel markings.

## TWO SIDES OF THE SAME PANEL AFTER A 2+HOUR, 1800°F FLAME TEST.



## TYPICAL APPLICATION EXAMPLES

- Interior walls
- Stairwell chase
- Elevator shaft
- Equipment rooms
- Penthouse construction
- Building cladding
- Rectangular ductwork
- Custom fire protection



## EXCELLENCE IN SOLUTIONS

FläktGroup® SEMCO® delivers smart and energy efficient Air Distribution and Air Quality solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than fifty years of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side, ready to deliver Excellence in Solutions. We offer a complete line of sound attenuating products, including rectangular & round silencers, Media Free silencers, custom silencers, and acoustic enclosure panels designed to eliminate your HVAC noise problems. Whether your project requires a custom solution or an off the shelf selection, our years of HVAC experience will provide the best solutions possible.

FläktGroup® SEMCO®

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