

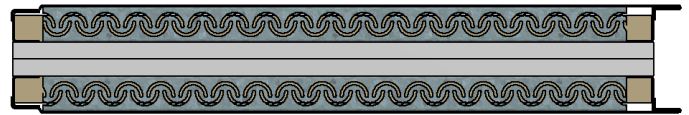
1HR FR-PANEL SOLUTIONS

FIRE RATED PANEL

DATA-SHEET

PRODUCT SPECIFICATION

LENGTH:	UP TO 12' MAX
WIDTH:	UP TO 45½"
THICKNESS:	4"
WEIGHT:	11.42 POUNDS PER SQUARE FEET
EXTERIOR GAUGE:	18 GAUGE GALVANIZED STEEL
INTERIOR GAUGE:	18 GAUGE GALVANIZED STEEL
CORE:	MINERAL WOOL WITH 1¼" THICK FIRE STOPPING MATERIAL
JOINT:	ROLL FORMED TONGUE-AND-GROOVE CONSTRUCTION, FULLY ENCLOSED AND INSULATED JOINT.
R-VALUE:	7.86
U-FACTOR:	0.13
COATINGS:	AVRON 46® ANTI-MICROBIAL COATING, FIELD PAINTED
FINISHES:	GALVANIZED STEEL, GALVANNEAL STEEL, STAINLESS STEEL



FEATURES AND BENEFITS

- ROLL FORMED, TONGUE-AND-GROOVE CONSTRUCTION IS QUICK TO INSTALL, REDUCING INSTALLATION COSTS.
- FULLY ENCLOSED AND INSULATED JOINT PROVIDES A BETTER FIT WITH CLOSER TOLERANCE
- SIGNIFICANTLY LOW THERMAL TRANSFER RATE EXCEEDS ONE HOUR OF PROTECTION DURING FIRE EVENTS.
- PANELS AVAILABLE UP TO 12' IN LENGTH, CREATING STRENGTH AND RIGIDITY AND MAKING INSTALLATION EASIER.
- NO-THRU-METAL PANEL DESIGNED FOR LOW TEMPERATURE AND CONDENSATION PROBLEMS THAT STANDARD PANEL CONSTRUCTION CANNOT SATISFY.

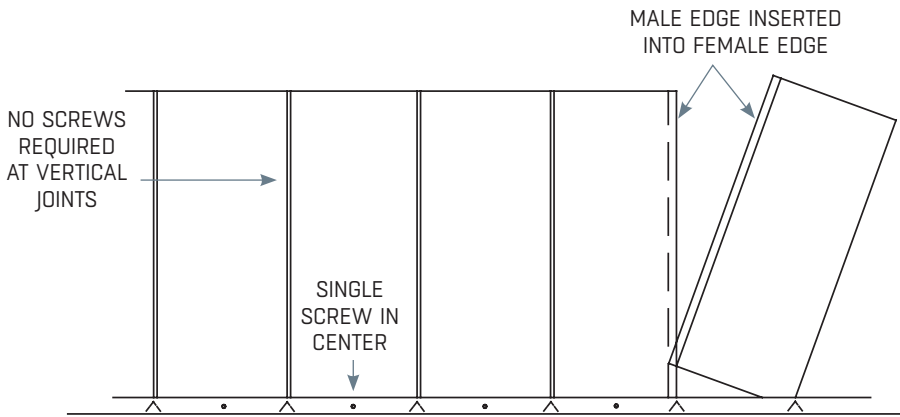
APPLICATIONS

- INTERIOR WALLS
- STAIRWELL CHASE
- ELEVATOR SHAFT
- EQUIPMENT ROOMS
- PENTHOUSE CONSTRUCTION
- BUILDING CLADDING
- RECTANGULAR DUCTWORK
- CUSTOM FIRE PROTECTION

TESTING

Third-party certification testing by Intertek Group®, York, PA

TEST TYPE	METHOD	RESULTS										
FIRE	UL-263	SUCCESSFUL FIRE RATING TEST										
	ASTM E119	1 - HOUR FIRE RATING										
	ASTM E84	CLASS A - FLAME SPREAD: 0; SMOKE DEVELOPED: 0										
	NFPA 251	COMPLIANT THROUGH INTERTEK TESTING										
WEATHER & VAPOR BARRIER	ASTM E283	<0.01 CFM/FT² @ 20 PSF										
	ASTM E331	NO LEAKAGE @ 20 PSF										
STRUCTURAL	ASTM E72	COMPRESSION STRENGTH RESULTS MAXIMUM COMPRESSION LOAD = 7,254 LBS.	VERTICAL 12' COMPRESSION = 11,129 LBS. HORIZONTAL 4' COMPRESSION = 13,192 LBS.									
	ASTM E72	DEFLECTION; L/240 = 0.6 IN										
THERMAL	ASTM C1363	R-VALUE 7.86										
	ASTM C236	U-VALUE 0.13										
ACOUSTICAL	ASTM E90	SOUND TRANSMISSION LOSS, STC 42										
		FREQUENCY (HZ)		63	125	250	500	1000	2000	4000	8000	STC
		TRANSMISSION LOSS (DB)		20	28	42	57	63	64	74	71	42
	ASTM C430	Sound absorption										
FREQUENCY (HZ)		125	250	500	1000	2000	4000	NRC				
ABSORPTION (UL)		0.27	0.15	0.05	0.03	0.01	0.03	0.05				



FLÄKTGROUP® SEMCO®'S FIRE RATED PANELS INCORPORATE A PROVEN TONGUE-AND-GROOVE JOINT, DESIGNED TO REDUCE INSTALLATION TIME AND REDUCE COSTS.

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.

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.

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