

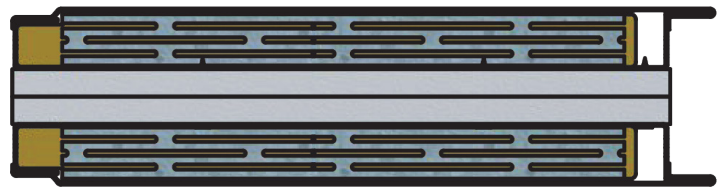
2HR FR-PANL™ SOLUTIONS

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 BTU/HRFT²F
U-FACTOR:	0.11 BTU/HRFT²F
COATINGS:	AVRON 46® ANTI-MICROBIAL COATING, FIELD PAINTED
FINISHES:	GALVANIZED STEEL, GALVANNEAL STEEL, STAINLESS STEEL



FR-PANL™
solutions
FIRE RATED SYSTEMS

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.

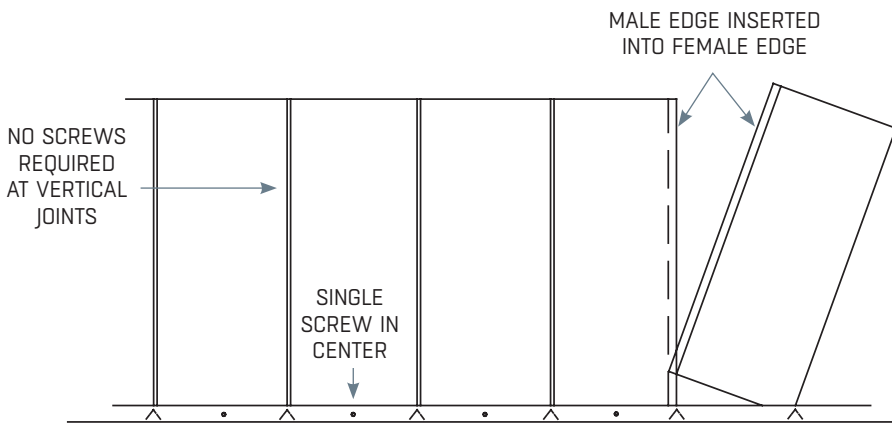
APPLICATIONS

- 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	2 - HOUR FIRE RATING																			
	ASTM E84	CLASS A - FLAME SPREAD: 0; SMOKE DEVELOPED: 5																			
	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 VERTICAL COMPRESSION ULTIMATE LOAD = 11,129 LBS. HORIZONTAL COMPRESSION ULTIMATE LOAD = 17,107 LBS. 12 FT. TRANSVERSE ULTIMATE LOAD = 33 PSF																			
THERMAL	ASTM C1363	R-VALUE = 7.86 BTU/HRFT²F																			
	ASTM C236	U-VALUE = 0.11 BTU/HRFT²F																			
ACOUSTICAL	ASTM E90	SOUND TRANSMISSION LOSS, STC 42																			
		<table border="1"> <thead> <tr> <th>FREQUENCY (HZ)</th> <th>63</th> <th>125</th> <th>250</th> <th>500</th> <th>1000</th> <th>2000</th> <th>4000</th> <th>8000</th> <th>STC</th> </tr> </thead> <tbody> <tr> <td>TRANSMISSION LOSS (DB)</td> <td>20</td> <td>28</td> <td>42</td> <td>57</td> <td>63</td> <td>64</td> <td>74</td> <td>71</td> <td>42</td> </tr> </tbody> </table>	FREQUENCY (HZ)	63	125	250	500	1000	2000	4000	8000	STC	TRANSMISSION LOSS (DB)	20	28	42	57	63	64	74	71
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FLÄKTGROUP SEMCO'S FIRE RATED PANELS INCORPORATE A PROVEN TONGUE-AND-GROVE 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 VERTICAL PANEL JOINTS ARE NOT REQUIRED.

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.

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