



Acoustic Barrier & Louver Systems

Parklane's Acoustic Barrier and Louver Systems come in a variety of configurations, each specifically engineered to accommodate site-specific acoustic criteria, airflow requirements, structural configuration, and architectural appeal.

The Parklane Difference

Modular Construction

Pre-assembled modular designs delivered to site, reducing schedule risk and installation costs.

Multi-Disciplinary In-House Engineering

A large team of acoustic, mechanical, and structural engineers bringing deep technical expertise to every project for precise engineered performance.

CFD Modeling

Advanced CFD analysis and airflow simulation powered by custom software allows us to accurately model real-world operating conditions.

Turnkey Service Model

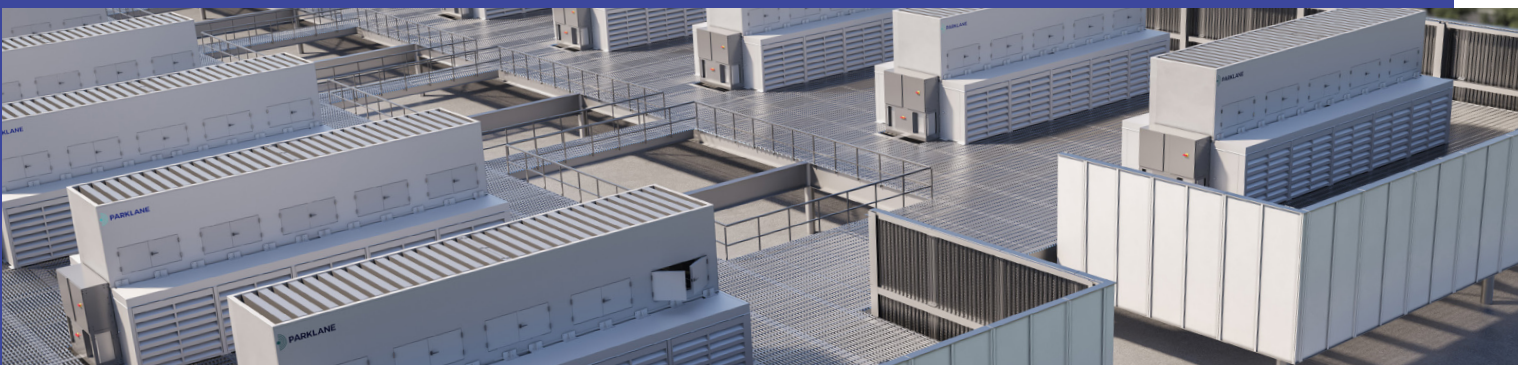
Full-service delivery from design through manufacturing and installation support — for both retrofit and custom new solutions.

A Performance Guarantee

We guarantee the acoustic performance of every solution — reducing compliance risk and ensuring results.

One Source for All Acoustic Solutions

Your single-source provider for complete environmental noise control solutions, including barriers, enclosures, and direct to source.



Key System Features & Benefits

Modular System Design

Available as fully factory-assembled wall modules to eliminate on-site modifications and multi-trade coordination enabling installation as fast as **240 linear feet per day**.

Tailored Site Integration

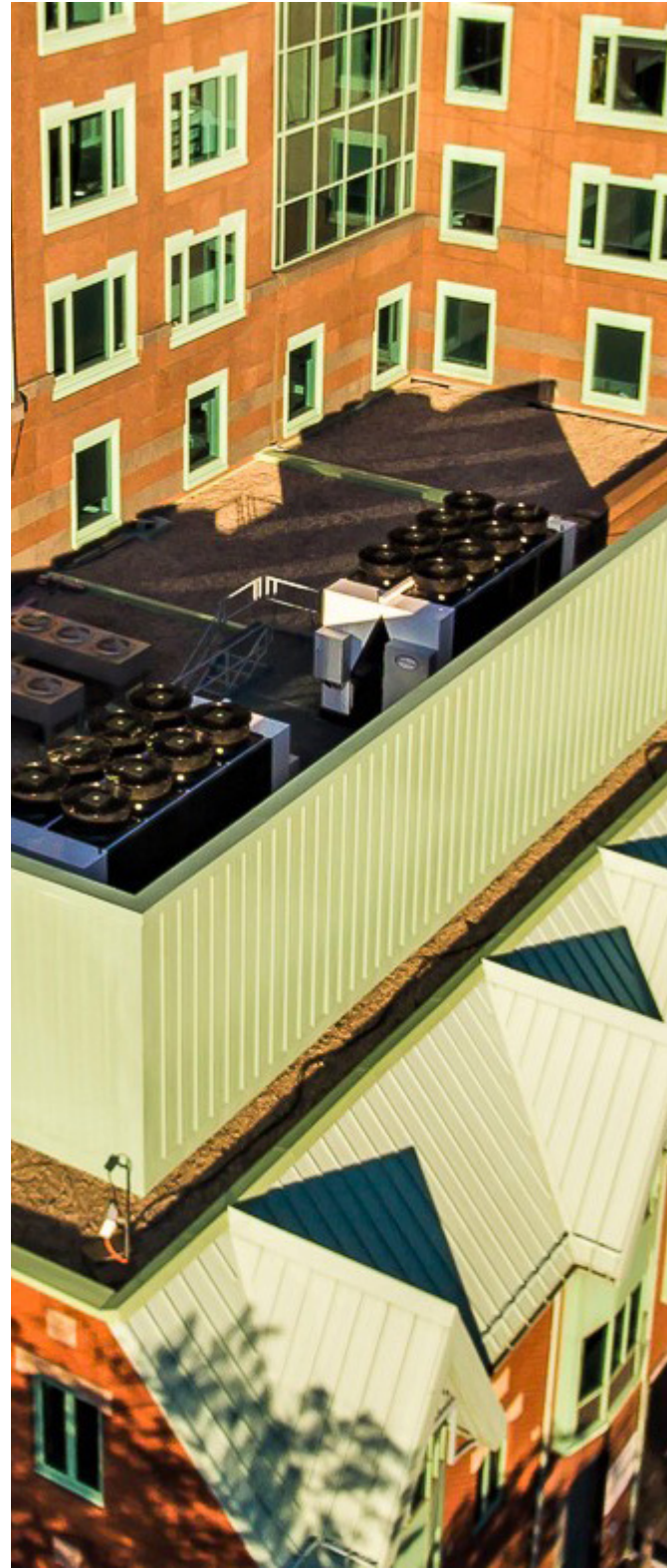
Engineered to work within site-specific structural challenges, such as roof capacity concerns and limitation of anchorage to base structure.

Tested to Industry Standards

Acoustic elements are tested as per ASTM E90 and ASTM C423, and are rated for exterior application.

Complete Aesthetic Flexibility

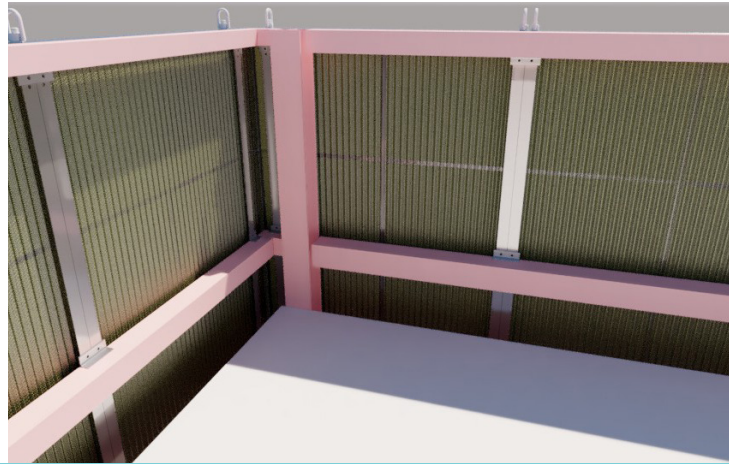
Our unique barrier frame design accommodates virtually any commercially available architectural cladding system, allowing acoustic barriers and screens to integrate seamlessly into any building façade.



Methods for Integration

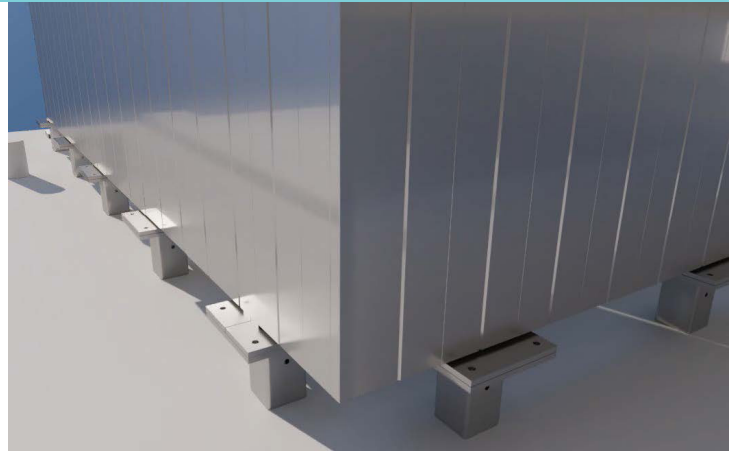
Clip-Mounted

Screen panels are mechanically affixed to existing structural steel elements on roof or grade, such as mezzanines or wall framing, ensuring direct-load transfer and integration with the building's structural system.



Stub-Mounted

Screen assemblies are supported on engineered steel stub columns on roof or grade, which are mechanically anchored to the roof structure to provide independent structural support without reliance on adjacent enclosures.



Gravity Barrier™

A non-penetrating, ballasted solution that maintains structural stability through distributed weight, preserving the integrity of the roof membrane and eliminating the need for roof penetrations.

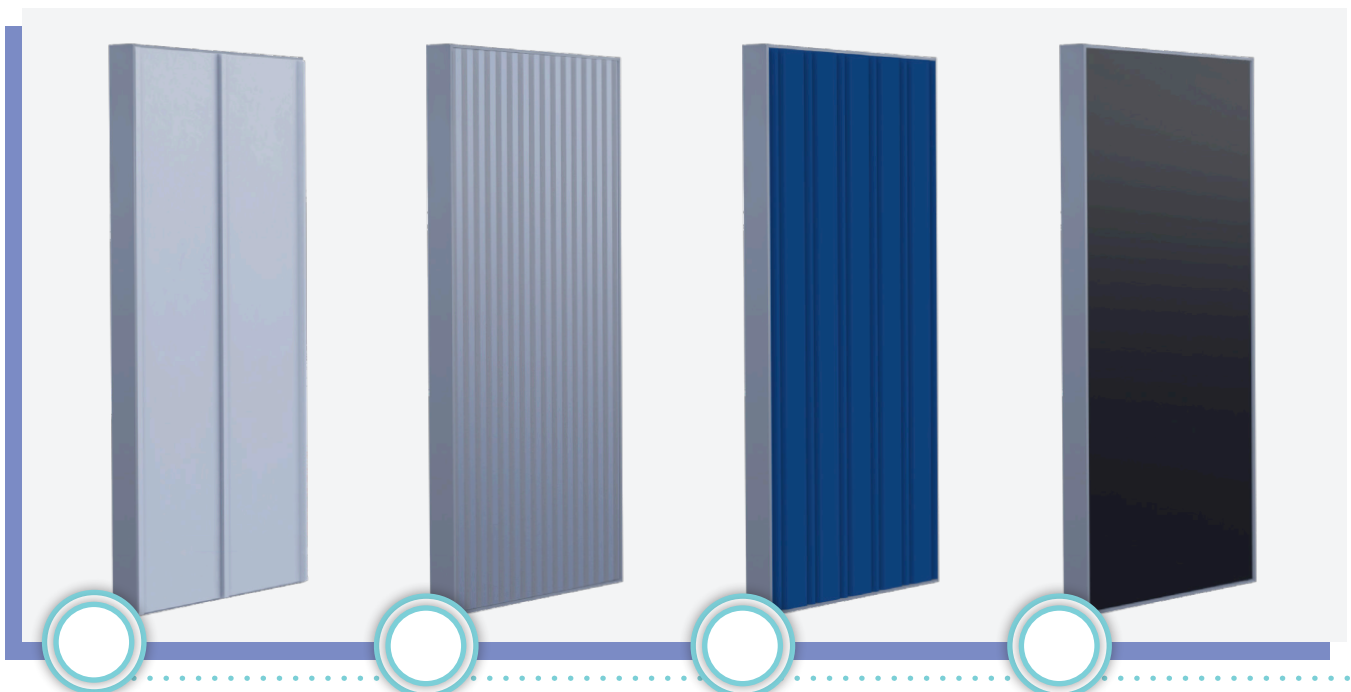


Acoustic Wall Panel Design

Parklane's acoustic panels are engineered as fully integrated systems, designed to meet local structural load requirements, achieve precise acoustic performance targets, and seamlessly incorporate exterior cladding within a robust framing assembly.



Integrate Any 3rd Party Exterior Cladding



Fully Integrated Louver Systems

Parklane's louver solutions are engineered as completely integrated systems, not independent components pieced together in the field.

By combining louver structure building connection, acoustics, and airflow performance into one coordinated design we eliminate the risk, cost, and complexity of incremental solutions from multiple vendors.

This integrated approach reduces coordination time, simplifies installation, and minimizes the risk of costly redesigns, while delivering predictable, tested performance.



Our unique capabilities and research have generated
the best acoustic and/or airflow performance on the market

Acoustic Panel Submittal

Parklane's acoustic panels offer reliable, in-situ noise mitigation, customizable sizing, and aesthetic versatility, engineered to meet specific dimensional and performance requirements.



Dimensional Information:

Standard sizes from 1'-4' widths by 5'-10' heights and standard depths 1"-12". Custom sizing available.

Construction Options:

- Absorptive Linings
- Frame Reinforcements
- Modular Expansion
- Reversibility & Inversion
- Exterior Face Finishes:
 - Mill Finish
 - Pre-Coat Painted
 - G90 Galvanized
 - Others available upon request

Performance Data:

Model	General System Transmission Loss (dB)								STC	OITC	NRC
	63	125	250	500	1000	2000	4000	8000			
PMA-3	16	13	16	28	40	43	45	47	31	22	0.95
PMA-4A	16	15	19	35	45	46	51	51	33	23	1.00
PMA-4B	11	15	19	35	46	49	54	44	35	24	0.95
PMA-4HTL	19	19	26	37	46	50	52	53	38	28	0.70
PMA-6	16	17	22	43	51	49	58	55	34	-	0.80
PMA-6HTL	21	24	35	47	52	56	60	59	45	-	0.80
PMA-12C1	39	39	44	51	59	59	63	69	56	48	0.85
PMA-12C2	30	38	46	53	56	59	62	62	56	47	0.90

NOTES:

*Absorption values are intentionally limited to 1.0 to avoid potential artefacts in computational modelling software. Experimental results have values exceeding 1.0, not shown here.

*Absorption performance of panels in accordance with ASTM C423/E2235.

*Acoustic performance and transmission loss data reported in accordance with ASTM E90.

*Performance customization is possible through Parklane's proprietary engineering process - contact sales to evaluate.

*Our products use materials passing these certifications: ASTM C612, ASTM E84 (UL 723)1, CAN/ULC S102, ASTM E136, CAN/ULC S114, ASTM C303, ASTM C356, ASTM C795, ASTM C665, ASTM C518 (C177), ASTM C1104, ASTM C1338

Acoustic Louver Submittal

Parklane's acoustic louvers provide reliable, in-situ noise attenuation, balanced airflow, and aesthetic integration, available in various dimensions to meet project-specific requirements and performance criteria.



Dimensional Information:

Standard sizes from 1'-4' widths by 5'-10' heights. Custom sizing available.

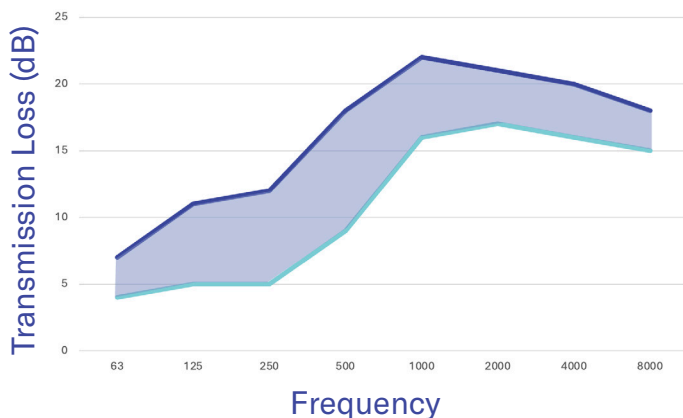
Construction Options:

- Exterior Face Finishes:
 - Mill Finish
 - Pre-Coat Painted
 - G90 Galvanized
 - Others available upon request
- Optional: Bird Screen Backing 1/2" x 1/2" wire

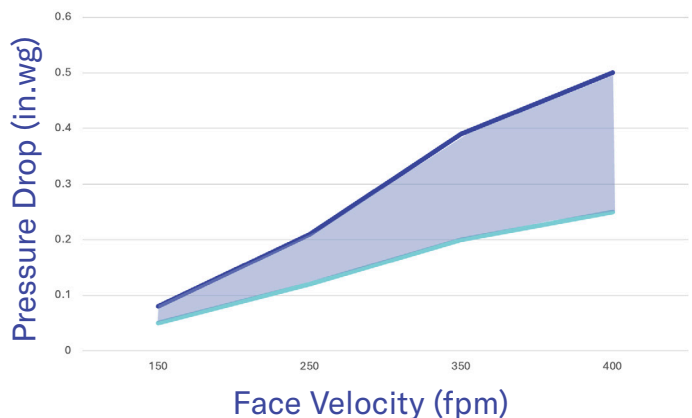
Acoustic Louver Performance Data

Model PMA-L08-C:

Acoustic Performance:



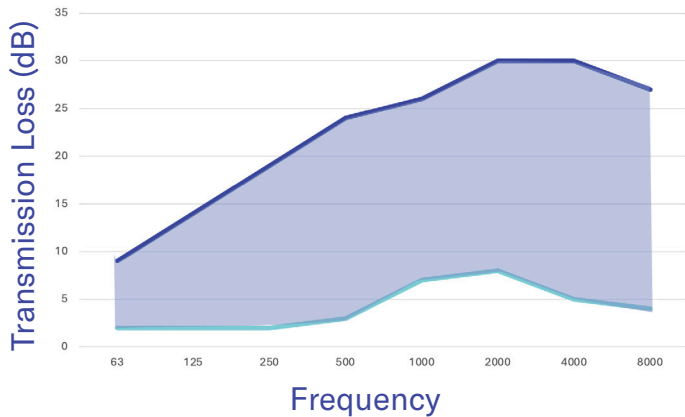
Pressure Drop:



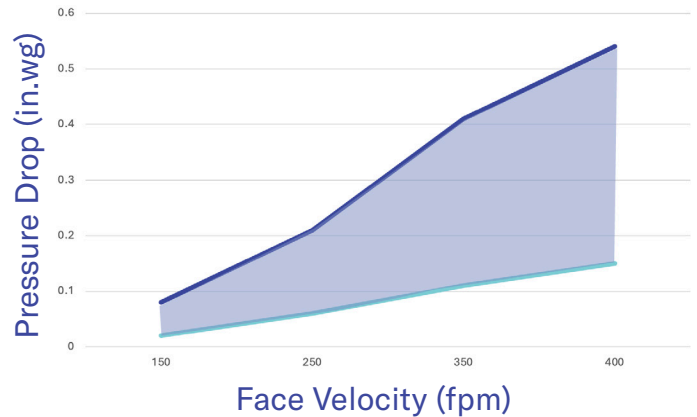
Acoustic Louver Performance Data

Model PMA-L12-C:

Acoustic Performance:

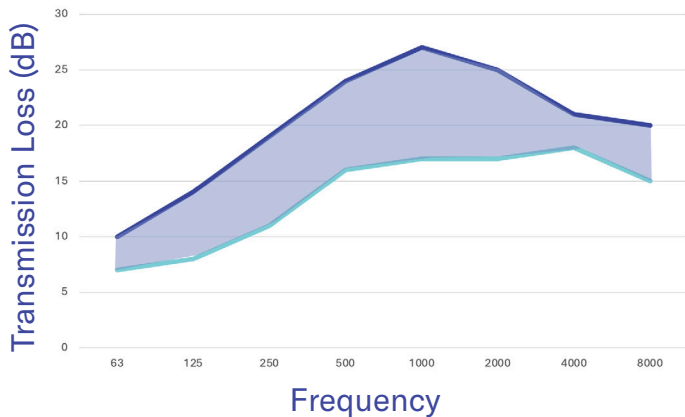


Pressure Drop:

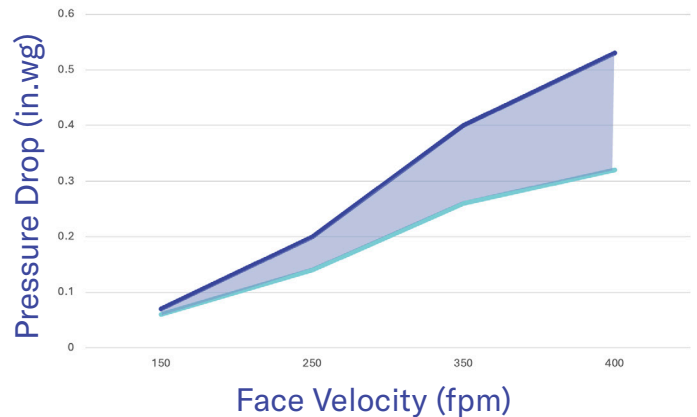


Model PMA-L16-C:

Acoustic Performance:



Pressure Drop:



NOTES:

*Where the C variable designates the aerodynamic performance class.

*Acoustic performance reported and transmission loss data in accordance with ASTM E90.

*Aerodynamic performance reported in accordance with AMCA 500-L. Static pressure (or impedance) observed by the system is a function of the environment - presenting itself only through CFD for open environments or system effects for closed environments.

*Performance customization is possible through Parklane's proprietary engineering process - contact sales to evaluate.

*Our products use materials passing these certifications: ASTM C612, ASTM E84 (UL 723)1, CAN/ULC S102, ASTM E136, CAN/ULC S114, ASTM C303, ASTM C356, ASTM C795, ASTM C665, ASTM C518 (C177), ASTM C1104, ASTM C1338

*Louvers are laboratory-rated per ASTM E90 for Transmission Loss (TL). When used as screening, performance must also be evaluated as Insertion Loss (IL)—the net reduction at the receiver due to both transmission through the screen and diffraction around it, consistent with ISO 9613-2. TL alone does not predict in-situ screening performance; louvered screens function as semi-transparent barriers whose outcomes depend on geometry, placement, and spectrum. See Koukounian (2024) for measurement evidence and design guidance (incl. Table 2, pp. 8-9). Insertion Loss per ISO 9613-2 shall not be mistaken for that per ASTM E477. (Koukounian V. & Mortazavi H., 2025).

Noise Control Simplified

We're dedicated to your success.
Whether working with industry,
acoustic engineers and consultants,
or contractors, we're committed to
providing effective solutions to noise
challenges — no matter the size or scope.

Servicing Global Projects From
Toronto | New York



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