



Moduline[®] Acoustic Enclosure System

RUGGED NOISE CONTROL STRUCTURES



Moduline®

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IAC Acoustics Moduline Enclosures protect workers and the community from noise generated by manufacturing and power-generating machinery. These rugged, quickly installed, high-performance enclosures offer infinite configurations and layouts while ensuring acoustic integrity and performance.

Typical Applications

- Gen-Set Enclosures
- In-Plant Offices
- Machinery Enclosures
- Observation/Control Rooms
- Vibration Test Enclosures
- Equipment Penthouses
- Cooling Tower Enclosures
- Outdoor Construction Offices
- Document Storage Rooms
- Control Pulpits
- Acoustic/Thermal Plenums
- Transformer Sub-Station
- Compressor & Pump Package Enclosures
- Test Environments for Quality Control & Product Development

Available Options

- Integration of lighting, ventilation, fire-fighting systems and air conditioning
- Sound and vibration-isolating floor systems
- Designs for interior and exterior installation sites
- Noise-Lock® sound control door and window systems
- Installation services that can be included in scope of supply

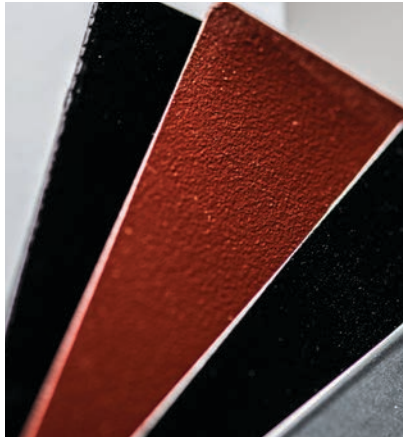


Acoustical Performance

Moduline Construction Type	Sound Transmission Loss, dB, by Octave Band Center Frequency, and Sound Transmission Class, STC, Rating									
	63	125	250	500	1k	2k	4k	8k	STC	WT lb/ft ²
Noishield Regular	20	21	27	38	48	58	67	66	40	8
Noishield Septum	21	19	23	35	50	60	68	72	37	9
Mill Duty Regular	28	27	28	41	50	57	57	64	43	10.5
Noise-Lock I	25	27	31	41	51	60	65	66	44	10
Noise-Lock II & Fire-Noise-Lock	27	30	32	41	50	59	67	71	45	11
Super-Noise-Lock	31	34	35	44	54	63	62	68	48	15
Noishield Hard	22	33	45	52	58	68	75	65	56	9.5
Noise-Lock III	19	33	51	65	77	80	80	73	58	11
Noise-Lock II Hard	24	40	50	57	65	73	80	78	61	12
Gemini Regular	32	48	58	66	77	83	86	71	70	21

Panel Construction Type	Sound Absorption Coefficients at Octave Band Center Frequency, and Noise Reduction Coefficient, NRC							
	125	250	500	1k	2k	4k	8k	NRC
Noishield Regular	0.89	1.20	1.16	1.09	1.01	1.03	0.93	(1.10)/0.95
Noishield Septum	0.50	0.68	1.03	1.05	1.00	0.99	—	(1.10)/0.95
Noise-Lock I, II, Fire-Noise-Lock & Super-Noise-Lock	0.94	1.19	1.11	1.06	1.03	1.03	1.04	(1.10)/0.95
Noishield Regular with fill protection & spacer	0.56	0.99	1.09	0.97	0.95	0.90	—	(1.10)/0.95
Noise-Lock III	0.49	0.37	0.83	0.96	0.99	1.00	—	0.80
Noise-Foil I & II (2" - 51 mm thick)	0.35	0.65	1.20	1.21	1.07	0.92	—	0.95
Noise-Foil I & II (4" - 102 mm thick)	0.97	1.39	1.34	1.29	1.19	1.01	—	1.30
Noise-Foil V	0.24	0.95	1.13	0.99	0.94	0.86	—	1.00

POWDER COAT
FINISHES AVAILABLE



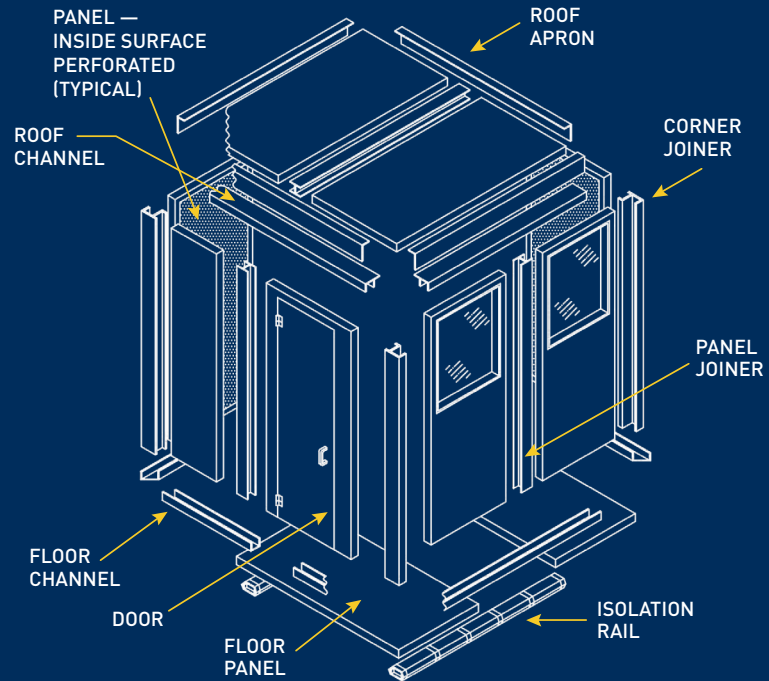
Wide variety of standard and custom powder coat finishes





IAC's Moduline Construction used in
Macrodyne® Hardliner VRT™ Room —
CHECK OUT THE VIDEO





Fire Resistance Ratings

Fire-Noise-Lock™ panels ship with UL labels certifying 1-hour (solid side) and 1.5-hour (absorptive side) fire ratings. Doors are certified and ship with UL fire ratings available up to 3 hours.

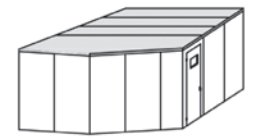
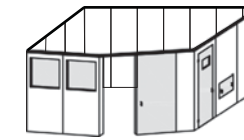
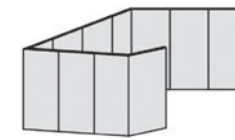
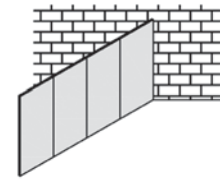
Blast Resistance

Moduline structures and components can be designed to withstand blast loads, with doors remaining operable after blast — please contact the factory for details.

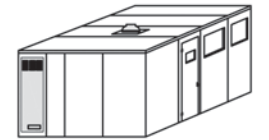
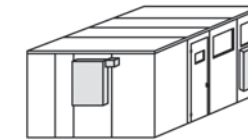
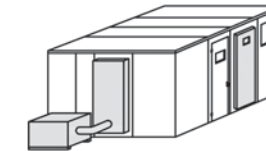
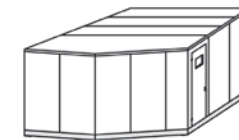
Designing a Moduline Structure

IAC Moduline System features modular Noishield® and Noise-Lock® components with high sound transmission loss and sound absorption ratings, providing excellent noise reduction characteristics. Components include acoustical walls, roof & floor panels, sound control doors and windows, ventilation units with integrated silencers, as well as panel joiners, trim & hardware — all part of an acoustically and structurally rated "building block" system for a multitude of applications.

- 1 STRAIGHT WALLS / BARRIERS
- 2 PARTIAL ENCLOSURES / SHIELDS
- 3 ACCESS TO ENCLOSED EQUIPMENT
- 4 ROOF FOR COMPLETE ENCLOSURE



- 5 FLOORS & VIBRATION CONTROL
- 6 VENTILATION FOR COMPLETE ENCLOSURES



Test Environments

Machinery Enclosures

Personnel Structures

» Making the World a Quieter Place™



LEARN MORE
about IAC's Moduline
Acoustic Enclosures



www.iacacoustics.com



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