Moduline® Checklist

iac acoustics

Acoustic Performance

Moduline panels are available with a wide range of sound-transmission-loss and sound-absorption ratings to accomodate any noise control requirement.

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/ft²
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	34	55	67	78	83	81	75	58	11
Noise-Lock II Hard	24	40	50	57	65	73	80	78	61	12
Noise-Lock IV Hard	21	30	50	60	73	79	80	71	62	11.3
Gemini Regular	34	48	58	69	75	82	86	76	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

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.

Tax Advantages Reduce Cost

Moduline structures qualify in many applications for tax savings associated with accelerated depreciation. Other construction components, such as dry-wall or concrete block do not qualify. Savings with Moduline can amount to 30% – 40% of purchase price. IAC Acoustics recommends consultation with tax or financial advisors on the specifics of each application.

Detailed Moduline Application Manual

Each Moduline Component is fully described in nearly 100 detailed engineering and application data sheets which make up a new expanded edition of the Moduline Application Manual. It provides engineering data including sound transmission loss, sound absorption, sizes, weights, materials of construction, and application information utilized in the design and installation of noise control structures. Request IAC Acoustics' Moduline Application Manual, Bulletin 6.0502 for additional information.