



THE VARITONE[®] SOUND ABSORPTION SYSTEM

IAC Bulletin VSAS/1.01

A proven range of sound-absorbing modular panels for controlling noise and reducing reverberation inside buildings

- Can reduce noise levels by up to 10dB
- Laboratory tested
- Unobtrusive wall or ceiling mounting
- Robust construction
- Rapid installation
- Attractive finishes
- Easy to clean/maintain

Varitone rectangular, sound-absorbing modules reduce distracting echo or reverberation effects inside buildings. They create an acoustically softer, more pleasant ambience and improve speech intelligibility.

Available in standard thicknesses of 50mm and 100mm, and in lengths of up to 3660mm, the panels may be suspended from ceilings or simply attached to walls. Manufactured from rugged, abuse and fire resistant 0.76mm galvanised steel, *Varitone* is available in a wide range of attractive finishes including PPC and vinyl which are both hard-wearing and easy to clean.

IAC offers a full acoustical evaluation service to determine the correct position, size and quantity of panels needed to achieve effective reverberation control in any given environment.

Please see overleaf for technical specification.

IDEAL FOR:

Factory Interiors
Theatres and Concert Halls
Airports
Exhibition/Conference Centres
Water Pumping Stations
Bottling Plants
Schools
Power Stations
Nightclubs
Music Rooms
Test Facilities
Prisons
Restaurants



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iac
product datasheet

TECHNICAL SPECIFICATION FOR IAC VARITONE

CONSTRUCTION AND PANEL SIZES

Sound-absorbing *Varitone* modules are available in standard thicknesses of 50mm and 100mm and standard widths of 450mm (50mm thick panel) and 360mm (100mm thick panel). Standard lengths range from 915mm to 3660mm. Special (non-standard) panels can be made on request.

Each module is manufactured from rugged, abuse-resistant 0.76mm perforated galvanised steel with an open area of 23%. Each module contains incombustible, inert, mildew-resistant and verminproof acoustically absorbent infill.

ACOUSTIC PERFORMANCE

Sound absorption values are as shown below.

VARITONE SOUND ABSORPTION COEFFICIENTS

Model	Centre Frequency, Hz	125	250	500	1K	2K	4K	NRC*
VT-2 (50mm)	Coefficient, Sabins/ft ²	0.35	0.65	1.2	1.21	1.07	0.92	1
	Total Absorption, Sabins	26	49	90	91	80	69	
VT-2P (50mm, Melinex wrapped)	Coefficient, Sabins/ft ²	0.41	0.47	0.64	0.79	0.85	0.72	0.7
	Total Absorption, Sabins	31	35	48	59	64	54	
VT-4 (100mm)	Coefficient, Sabins/ft ²	0.97	1.39	1.34	1.29	1.19	1.01	1.3
	Total Absorption, Sabins	68	97	94	90	83	71	
VT-4P (100mm, Melinex wrapped)	Coefficient, Sabins/ft ²	0.86	0.89	0.93	0.89	0.84	0.77	0.9
	Total Absorption, Sabins	60	62	65	62	59	54	

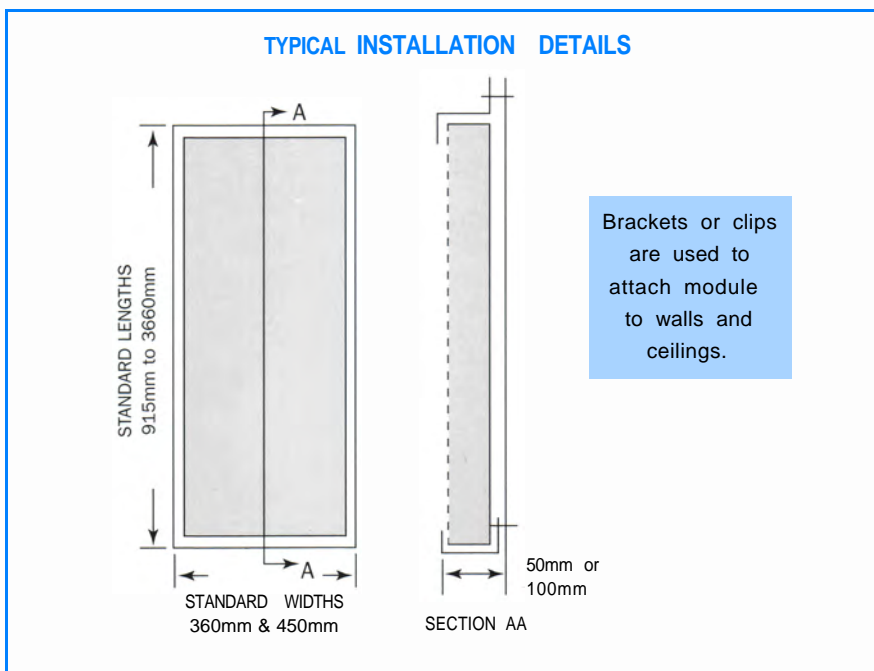
*NRC stands for Noise Reduction Coefficient and is the average of the 250, 500, 1000 and 2000 Hz coefficients. It is a single number indicator of relative absorption values. Coefficients greater than 1.0 result from diffraction effects associated with limited sample size (ASTM C423-90a - 6.69m²). For most applications a maximum coefficient of 0.95 is recommended for noise reduction calculations.

NOTE: The above absorption measurements are based upon ASTM C423-90a test procedure. Certified laboratory test reports are available upon request.

FINISH

Varitone modules have standard finishes of galvanised steel and polyester powder coat (PPC). Other finishes, such as vinyl coated steel, are also available, on request.

INSTALLATION



IAC is a BS EN ISO 9001 quality registered company



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