

# IAC Varitone® Panels

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



**Ideal for:**

- Factory Interiors
- Airports
- Water Pumping Stations
- Bottling Plants
- Power Stations
- Nightclubs
- Music Rooms
- Test Facilities
- Prisons



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 thickness's 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.

**Construction & Panel Sizes**

Sound-absorbing Varitone® modules are in standard thickness's 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 vermin proof acoustically absorbent infill.

**Acoustic Performance**

Sound absorption values shown below:

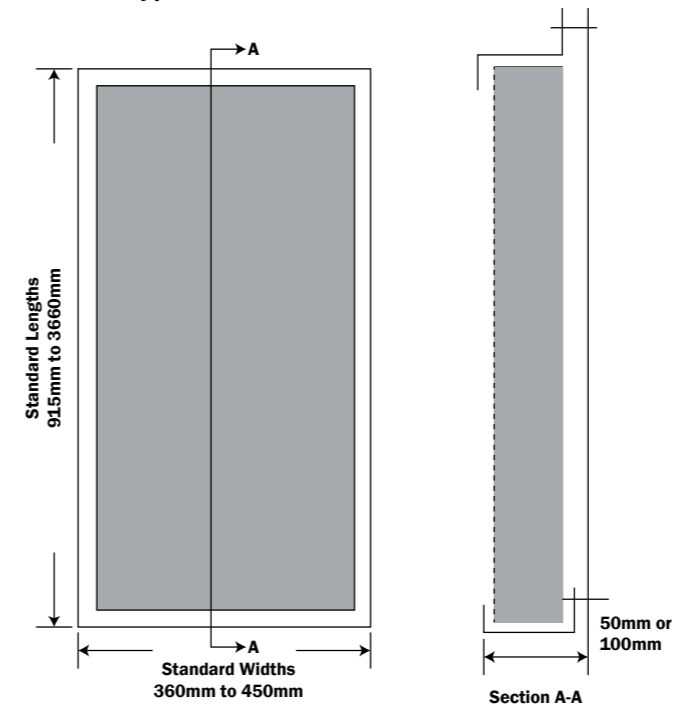
Model	Centre Frequency, Hz	125	250	500	1000	2000	4000	NRC*
VT-2 (50mm)	Coefficient	0.35	0.65	1.20	1.21	1.07	0.92	1.00
VT-2P (50mm, Melinex wrapped)	Coefficient	0.41	0.47	0.64	0.79	0.85	0.72	0.70
VT-4 (100mm)	Coefficient	0.97	1.39	1.34	1.29	1.19	1.01	1.30
VT-4P (100mm, Melinex wrapped)	Coefficient	0.86	0.89	0.93	0.89	0.84	0.77	0.90

\*NRC stands for Noise Reduction Coefficient and is the average of the 250, 500, 1000 and 2000Hz 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 - 6.69m<sup>2</sup>]. 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.



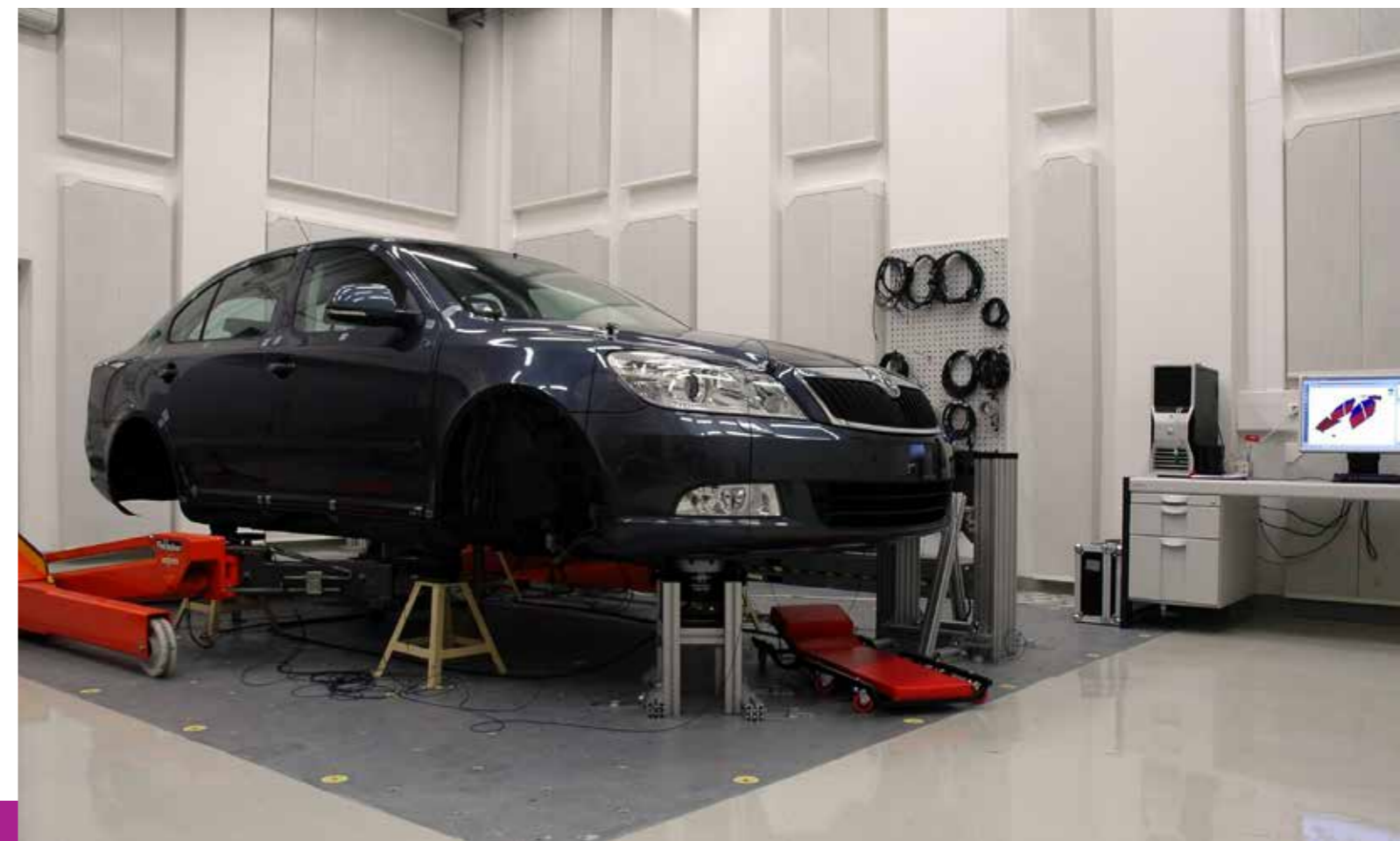
**Typical Installation Details**



Brackets or clips are used to attach modules to walls and ceilings.

**Finish**

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



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