

Bachmann India is proud to present, for the first time in India, *Acoustic Enclosures with Modular Panel System*.

In a tie-up with **NAP Acoustic South-East Asia Pvt. Ltd.**, the unique **SOUND SNAP** panel system is now indigenously available. Following many years of development, the **SOUND SNAP** system has found wide application in hundreds of installations.



Gas Turbine Enclosure

Due to its numerous advantages, it has been proven to be far more effective, economical and easy-to-install than conventional Enclosure systems.

Superior Performance: *SOUND SNAP* eliminates the problems of poor sealing, misalignments and manufacturing variations. Maximum field performance is achieved as a result of the overlapping snap lock design, achieved without fasteners or rivets.

Standard Design: Factory-manufactured standard sized panels are used to erect enclosures which have all the features of custom built equipment to suit most requirements.

Rapid Installation: The high standardisation of panels & components enables simple, fast, 2-man installations. The individual coding system keyed to assembly drawings, ensures minimum on-site delays.

Easy Modification: The *SOUND SNAP* panels can be installed and disassembled as required, to suit changes in production and machine requirements or in plant layout. Installation is fast and simple, even for inexperienced teams.

Economical: Standard components, and proven manufacturing techniques ensure that the enclosures and panels are supplied efficiently and at lower cost than inferior designs.

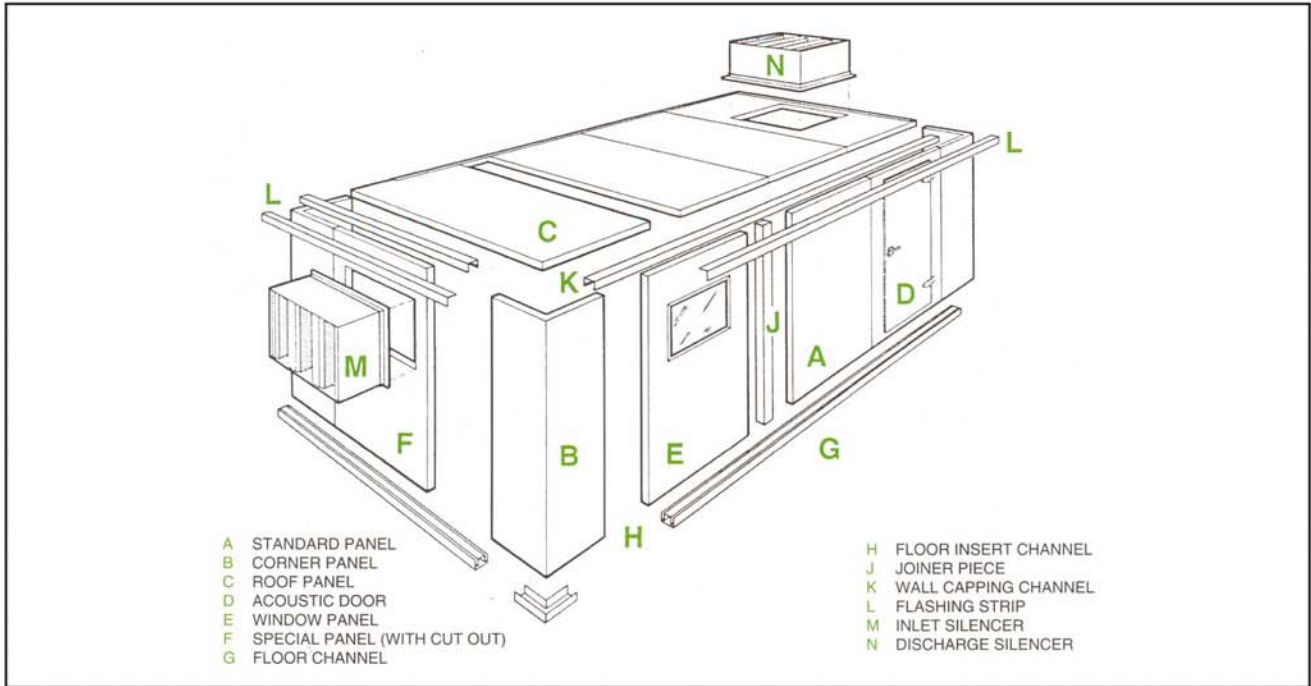
Excellent Finish: The overlapping panel system enclosure presents an attractive appearance with no rough metal edges, unsightly weld marks or ugly bolt fixings. Panels are manufactured without damage to the galvanized sheet coating.



About NAP: NAP Acoustics was first established in Singapore in 1988, and its principal activities are in acoustics, noise control and vibration engineering. Its manufacturing facilities are in Singapore, Hong Kong and Shenzhen, China catering to clients in 15 countries from U.A.E. to Japan. The company has its own R&D facility with accredited acoustic testing facilities and in-house experts who are focused on developing the next-generation of acoustic products. It has a proven track record for the complete range of noise control products of NAP SILENTFLO, all of which are tested at NATA registered independent laboratories:

- Modular Acoustic Enclosures
- Transportation Noise Barriers
- Gas Turbine Intake and Exhaust Silencers
- Diesel Engine Exhaust Silencers
- Steam Vent Silencers
- Air-conditioning silencers

CONSTRUCTION



Roof - Ceiling Connection



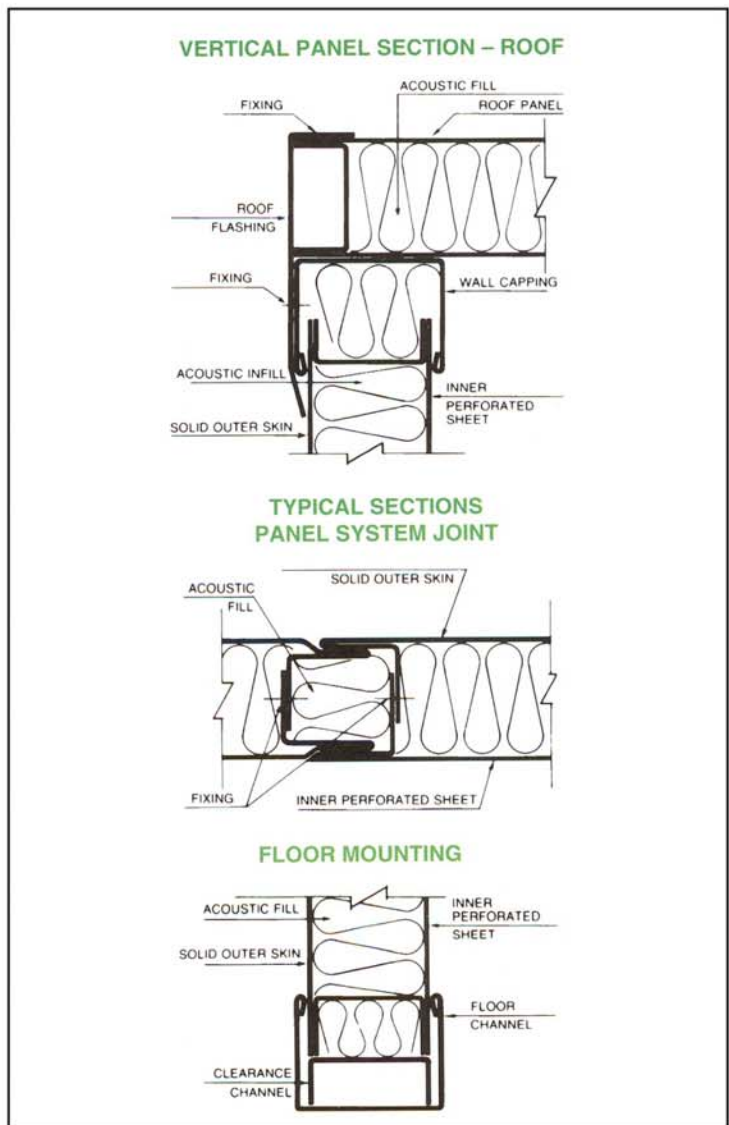
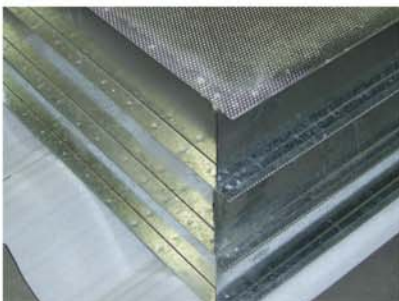
Designed to cover a range of performances, *SOUND SNAP* panels are available in a variety of finishes and thicknesses. Standard panels are 50mm, 75mm and 100mm thick. These provide reduction of upto 35 dB (A).

All standard acoustic panels are manufactured from heavy gauge galvanized steel on external faces and internal perforated steel sheet retaining an inert, fire resistant acoustic infill. Other finishes available include stainless steel, painted or coated sheet steel or their combinations.

Roof panels are similar to wall panels and for larger sizes (typically more than 3.6m), support beams are required. Standard corner, insert and spacer channels provide wall-ceiling and ceiling-ceiling connections without degrading the performance.

Manufacturing control is critical for achieving the noise level reductions specified by the panel design. Joiners and flashing strips must prevent a direct path for sound or air leakage. All sections must be roll formed and cut to length to minimize breaks and joints. All voids must be filled with acoustic infill on installation.

Enclosure Panel

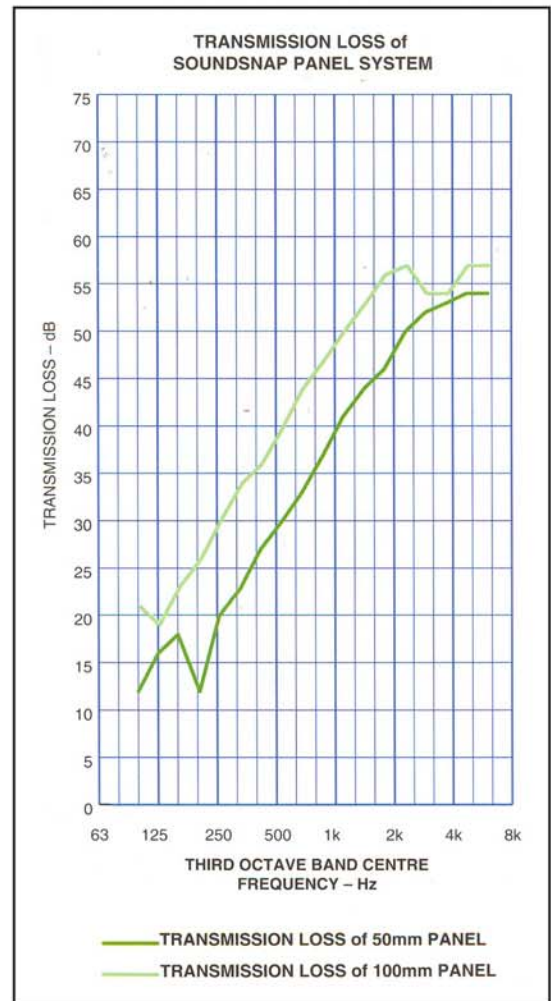
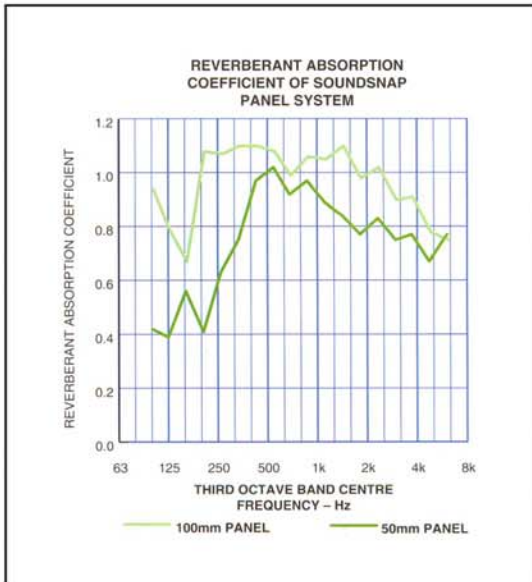


ACOUSTIC PERFORMANCE

Accurate measurement of noise levels and acoustic calculations are essential to assess acoustic performance. The noise reduction achieved by *SOUND SNAP* panels depends on several factors:

- Source noise level and frequency spectrum
- Size of Enclosure required
- Distance and shielding effects
- Panel configurations used
- Limitations by design features, e.g. chutes, ventilation

Practical single wall acoustic enclosures achieve reductions of 25-30 dB(A) in the free field noise level. The best performance is achieved by effective vibration isolation of the enclosure from the noise source.



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