



**Enclosures clockwise**

• wire drawer enclosure • inside wire drawer • paint-shop compressor enclosure • brass foundry enclosure • site crane motor enclosure.



# Multigrade Composite ~ AM

## Acoustop combined noise barrier and noise absorber to maximise reduction of noise from enclosures, covers and plant rooms.

**Acoustop Multigrade Composite** through its four part construction, maximises the performance of enclosures, covers and plant rooms by reducing noise build up (noise absorption) and increasing transmission loss of the enclosure wall (noise barrier). Easily installed, the composite product can be applied as a retro fit or in new construction to give superior noise reduction.

Acoustop Multigrade Composite's four parts work together to give superior noise reduction.

**Surface covering**

Several types of surface coverings are available depending on application or environmental factors. Acoustop coverings can provide for hygiene, fire resistance, moisture or a cosmetic finish.

**Absorption layer**

Acoustic foam is the first layer, through absorption it reduces airborne noise and the effect of noise build-up within the enclosure. Acoustop acoustic foam has been progressively developed and used since 1978. A specially controlled polyether foam is manufactured for maximum acoustic performance and natural hydrolysis resistance (the physical breakdown of foam's molecular structure by moisture).

**Noise Barrier**

Acoustop natural rubber noise barrier is used to reduce the transmission of noise through the enclosure wall.

**Decoupling layer**

The final layer of acoustic foam acts to decouple the noise barrier from the panel it is to be fixed to, allowing the barrier to act independently, giving an increase in transmission loss. Acoustop Multigrade Composite should be specified when transmission loss and noise absorption are required.

Acoustop Multigrade Composite's composite construction maximises both noise absorption and transmission loss. Acoustop is also available without the noise barrier component, providing only absorption from the Acoustic Foam. When comparing the results in a trial enclosure of plain Acoustic Foam versus Multigrade Composite the following results can be expected: up to 60% reduction in noise levels when using Acoustop Multigrade Composite compared to 15% for Acoustop Acoustic Foam on its own.

**Acoustop Multigrade Composite**

- Long service life
- Non-fibre ~ safe to handle
- Lead free / highly flexible
- Easily cut and installed without specialist tools

**Acoustop Multigrade Composite performance**

- Provides for sound absorption and transmission loss
- Coverings provide for a range of conditions ~ moisture, dust, fire etc.
- Maximises acoustic performance
- Independently tested

For more details about this product, please refer to the information sheet number below.

Information Page

**101**

Date of Issue August 2000

Solution page ~ Acoustop Composite

## Noise Management

Acoustop Multigrade composite gives enough noise reduction to make practical, in house plant noise management. Constructing in house, localised lined enclosures. Effectively and easily constructed by owners and on-site staff. Acoustop offers instructions on application, construction and venting of your enclosure.

## D.I.Y Applications

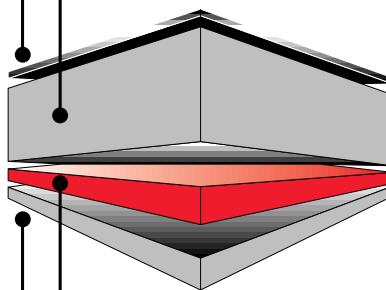
Acoustop Multigrade composite gives the home handy man the ability to now substantially reduce noise from annoying domestic appliances. For improved peace and quiet (*keeping the neighbours happy*). An easily installed product with full fitting instructions. Control noise from compressors, spas, pool equipment, generators and vacuum units.

## Product Description

what do you call the products and what do our codes mean?  
Acoustop product codes are abbreviated so you know what product to order.  
Acoustop Multigrade Bonded Foil  
**AM 6/24BF**  
6mm Acoustic Foam 24mm Acoustic Foam  
Standard Acoustop Noise Barrier is 4.5kg/m<sup>2</sup> or optional 8kg/m<sup>2</sup>

Facing: • M • BF • SW • SB • UF • PV

Acoustic Foam: 6, 12, 24 or 50mm



**ACOUSTOP** Acoustop Noise Barrier

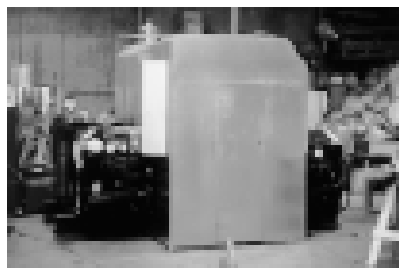
6mm Acoustic Foam

## Product Applications



### Marine and Automotive Enclosure

Engine compartment lined to give reduction in energy build-up and the transmission of noise. Increasing reduction over plain acoustic foam.



### Localised Noise Control

Localised noise treatment is often the only practical solution to noise management in a factory. The use of a composite improves enclosure performance.



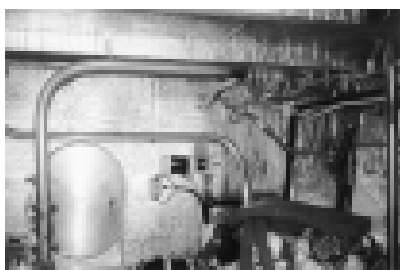
### Complete Process Enclosure

As part of complete site noise management, noisy processes are firstly identified in priority. Enclosures are then built and lined with Acoustop Multigrade constructed on site to help achieve noise management goals at a controlled and affordable budget.



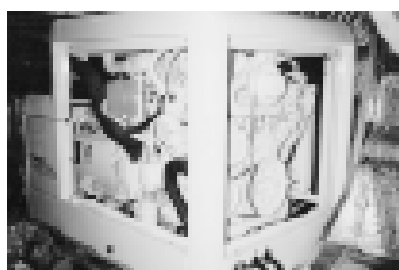
### Small Enclosure

Paint shop compressor causing noise problems during phone usage and general workshop communication. The enclosure was built from an old timber sign vented through the outside wall fitted with Acoustop Multigrade, reducing the noise below speech level.



### A noise tight seal gives best results.

As noise in an engine-room or enclosure acts like water under pressure Acoustop Multigrade's unique flexibility means noise tight fit-out is achieved, with easy sealing, giving robustness from damage or deterioration.



### Generators

Generators are an important part of any electricity supply in boats, mobile homes and where continuous direct supply is not available. Acoustop Multigrade gives you maximum noise reduction from its unique construction.

## Product Range

Please refer to your local distributor for current stock availability.

Unfaced Multigrade AM6/12  
AM6/24  
Available in 6mm AM6/6

M ~ Metalised Polyester (Moisture Facing) AM6/12M  
AM6/24M  
AM6/50M

BF ~ Bonded Foil Faced (Tough, Heat Facing) AM6/12BF  
AM6/24BF  
AM6/50BF

SW ~ White Tedlar Faced (Hygienic Facing) AM6/12SW  
AM6/24SW  
AM6/50SW

SB ~ Black Tedlar Faced (Hygienic Facing) AM6/12SB  
AM6/24SB  
AM6/50SB

UF ~ Urethane Film (Dust Facing) AM6/12UF  
AM6/24UF  
AM6/50UF

PV ~ Perforated Vinyl (Cosmetic Facing) AM6/12PV  
AM6/24PV

Sheets Size : 1200mm x 2400mm.

For more information, please refer to Information Sheet 101.



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NB: This information is meant as a guide only and should not be read as a guarantee for any specific application. All volumes and measurements are nominal, any flammability test specifications is only a numerical rating and does not attest to the material's performance in case of actual fire. Published 08/00.

