

# Commercial and Industrial Vehicles

Acoustic Lining Solutions



Vita Technical Foams

Vita Group

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# Commercial and Industrial Vehicles

## ENGINE BAY

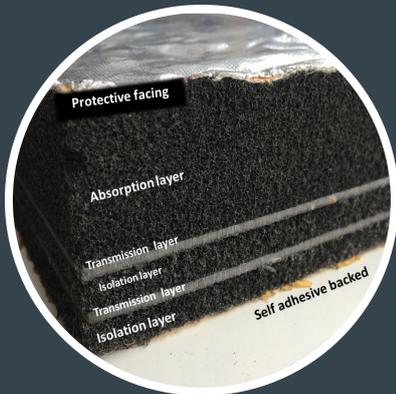
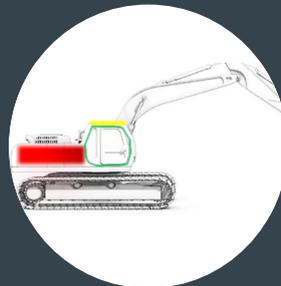
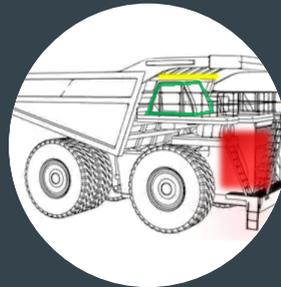
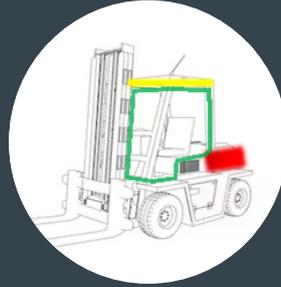
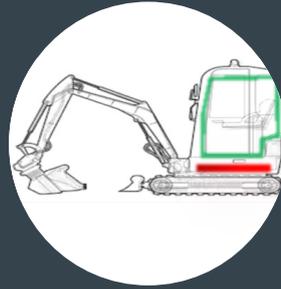
The engine bay is a major source of unwanted noise. In heavy diesel engines, fuel is ignited by compression, with no external source of spark. Combustion in diesel engines is violent and spontaneous, producing high vibrations and noise at a broad frequency range. Revesorb-FT24 offers good acoustic performance at these frequencies as a lighter weight addition and where the highest noise reduction is demanded, Pyrosorb-S can be used as a stand alone absorber or in composite with a selection of barriers.

## CAB

Noise caused by reverberation and vibration can be amplified within the vehicle's cab. In addition, standard operational changes such as acceleration and ancillary operation, comfort and the wellbeing of the operator can be compromised. Vita can offer customised solutions in forms of bespoke kits, composites, seals and gaskets.

## HEAD LINER

The headliner often is a multi-layered composite material that is adhered to the inside roof. This typically consists of a face fabric with an FR rated acoustic foam, bringing together multiple functionalities, including the requested look, feel, stiffness, and sound reduction needed



Pyrosorb-S in combination with DS5 dampening sheets, glass cloth heat resistant top layer and self adhesive backing

Easy installation of Pyrosorb-S-AD (self adhesive backed) supplied in factory cut kit form to customer's specification



# REVESORB-FT24

## Light Weight Flexible PU Foam

'Acoustics is the interdisciplinary science that deals with the study of all mechanical waves in gases, liquids, and solids including vibration, sound, ultrasound and infrasound'.

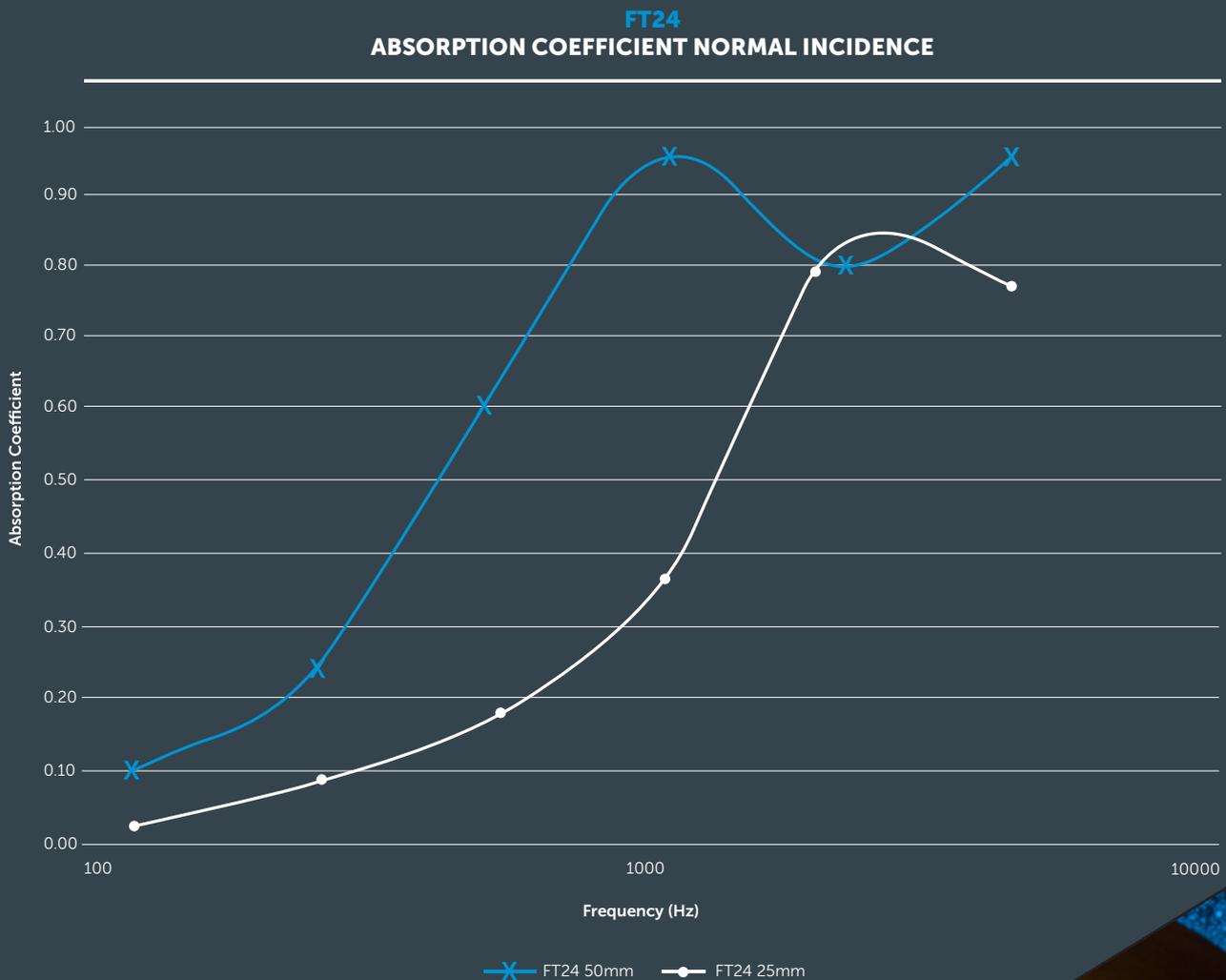
Revesorb-FT24 has been specifically designed to provide outstanding absorption acoustic performance in the harshest of industrial environments.

Revesorb-FT24 is a light weight, flexible, low density polyurethane foam with flame retardancy conforming to standards:

- FMVSS 302 (self extinguishing)
- UL94 HF1

Available Range includes:

- Revesorb-FT24-AD (self adhesive backed)
- Revesorb-FT24-PU2(MELT) (with a polyurethane film facing)
- Revesorb-FT24-PU2(MELT)-AD (self adhesive backed with PU film facing)



# PYROSORB-S :

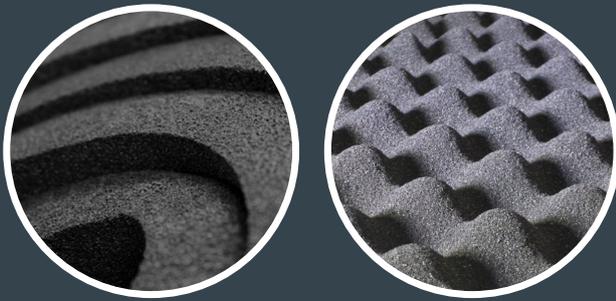
## Class 'O' Self-extinguishing PU Foam

**VITA'S** manufacturing and technical expertise is exceptional meeting both local and international standards. By providing an extensive range of products Vita can satisfy many types of complex needs in an efficient manner. Consistent supply and quality is assured from concept to completion, a discipline that has helped secure long term customer relationships and partnerships.

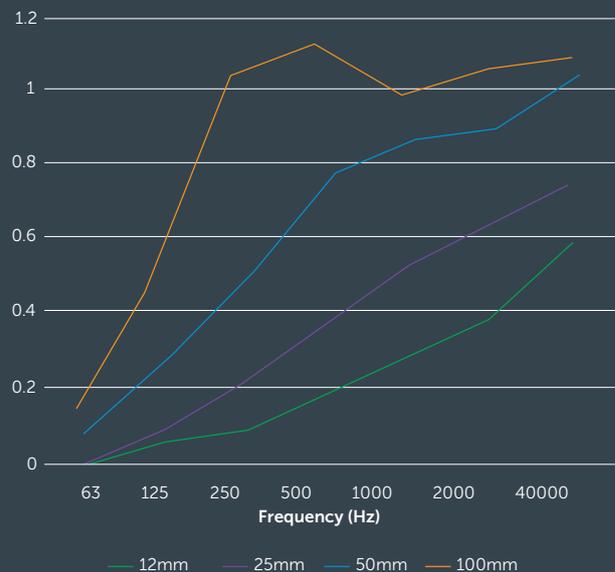
**PYROSORB-S** which is the basis of Vita's impregnated product range, is open celled acoustic/thermal impregnated polyurethane foam. It was originally developed as safety critical foam. High acoustic performance and absorption coefficients are typical for a cellular material, but unusually high deadening performance is attributable to the high density of approximately 85 kgm<sup>3</sup>. The high mass helps to reduce vibration in metal enclosures hence drumming and noise breakout.

### Available Range includes:

- Pyrosorb-S-AD3 (self adhesive backed)
- Pyrosorb-S-V1 (faced with polymeric coating)
- Pyrosorb-S-PU2 (faced with black flexible PU film)
- Pyrosorb-S-RA1 (reinforced Class O aluminium facing)
- Pyrosorb-S-GC (abrasion resistant glass cloth facing)
- Pyrosorb-S-VG (PVC coated polyester facing for hygiene, durability)
- Pyrosorb-S-L (lead lined composite)
- Pyrosorb-S-DS (heavy rubber damping sheet composite)
- Pyrosorb-S (profiled/egg box)



### FLAT ABSORPTION COEFFICIENTS: BS EN 20354 (REVERBERATION ROOM)



# REVESORB-FT24 :

## Light Weight Flexible PU Foam

### COMMON APPLICATIONS:



- Truck cabin lining
- Panel damping
- Machinery enclosures
- Anechoic chamber
- Engine compartments



- Electrical enclosures
- Noise shields
- Door panel absorbers
- Acoustic boot lining
- Perimeter strips



- Compressors
- Generators
- Acoustic tiles
- Reverberation control



# PYROSORB-S:

## Class '0' Self-extinguishing PU Foam

### COMMON APPLICATIONS:

- Truck cabin lining
- Panel damping
- Machinery enclosures
- Duct lining
- Engine compartments
- Electrical enclosures
- Noise shields
- Door panel absorbers
- Building acoustics
- Marine
- Compressors
- Generators
- Acoustic tiles
- Reverberation control

