

Building and Construction

Sealing and Acoustic Solutions



Vita Technical Foams

Vita Group

www.thevitagroup.com

technicalsales@thevitagroup.com



Building and Construction

Sealing and Acoustic Solutions

With over 70 years' experience of being a market leader in **acoustic and noise control**, Vita can consistently deliver the **highest standard of engineered solutions to the building and construction industry.**

Many factors must be considered in the construction of buildings such as temperature, tolerances, noise, thermal insulation and aesthetics to name a few. Vita's building and construction foams offer conforming solutions to issues faced by the modern high standards demanded, meeting Class O, BS EN13501 requirements and BBA accreditation where required. We offer an extensive range of solutions for an extensive range of applications.

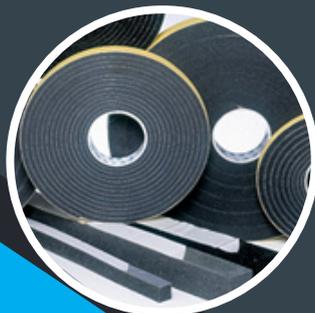
For example:

- **Suspended ceilings** – ceiling tile noise absorption
- **Soffits** – reduce noise transmission between floors
- **Partitioning walls / adjoining walls** – reduce noise transmission between rooms
- **Perimeter sealing** – expanding foam tapes, water and air sealing, noise and thermal.
- **Light weight roofing systems** – sealing uneven surfaces between tiles and ridges
- **Internal ductwork and fancoil lining** – reduce noise, maintain ductwork aesthetics
- **Frost Blankets** – thermal insulation
- **Pipe Insulation** – composites for pipe lagging
- **Solar pipe insulation** – composites for pipe lagging
- **Eaves Fillers** – PE Foam cut to bespoke profiles
- **Backer Rod/cord** – PE Foam strips
- **Fenestration** – expanding foam tapes, water and air sealing, noise and thermal.
- **Weather-strip** – PE, PU Foam strips and coils
- **Acoustic Flanking Band** – PE Foam (isolates acoustic flooring systems)
- **Gutter Filters** – Reticulated PU Foam for keeping leaves out of the system
- **Parquet Floor Underlay** – PE Foam

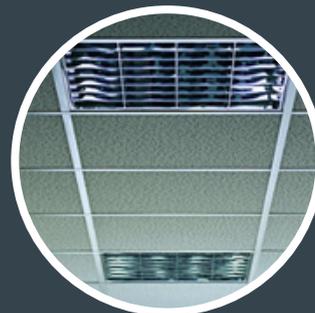
PE Eaves Filler - custom patterns



Expanding Tapes - perimeter seals



Acoustic class O PU Foam backed ceiling tiles



PYROSORB-S forms the basis of Vita's impregnated product range. It is an open celled acoustic/thermal polyurethane foam. Pyrosorb was originally developed as a safety critical foam. Acoustic performance is good and absorption coefficients are typical for a cellular material, but unusually high deadening performance is attributable to the high density.

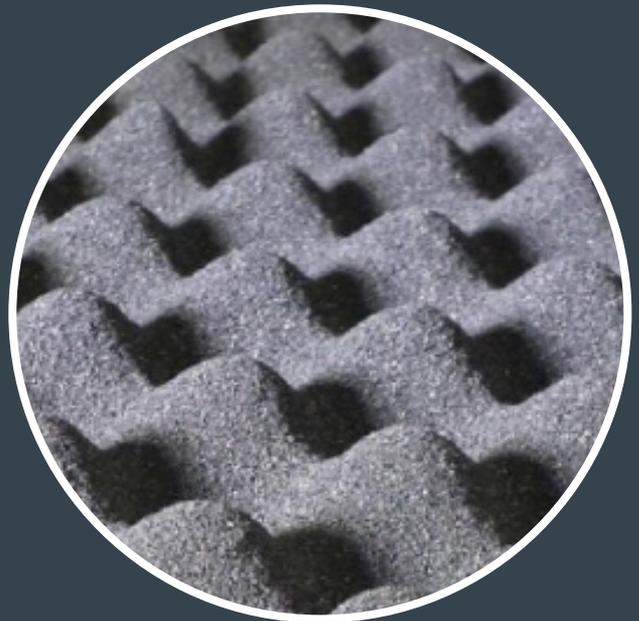
Available Range includes:

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

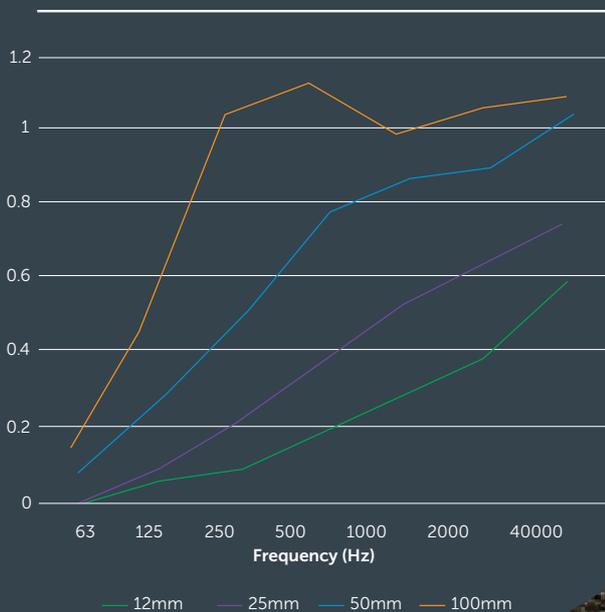
For the European market, Vita has recently added Pyrosorb-E, conforming to BS EN 13501 along with Class O certification and will meet UL94-V0.



Pyrosorb is specified as a high performance acoustic barrier between walls and floors as pictured here – 25mm self-adhesive backed sheets adhered and fixed to concrete soffits between floors



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





Vitaseal – The Expanding Joint Sealing Tape

Manufactured by Vita, VitaSeal is a unique combination of a resilient foam and a water resisting binder. The combination produces a “dry” pre-formed strip seal used to resist weather ingress in fenestration, roofing and construction applications. The viscoelastic properties also offer noise and vibration damping.



VitaSeal is manufactured using an open cell polyurethane foam heavily impregnated with acrylics creating flame retardant properties. Under high compression the product will create a weather-proof seal, under low compression the product is suitable for draught sealing. VitaSeal 600 is recommended for use in more extreme weather applications (tested to DIN 52453 Watertight against Driving Rain) and is fully resistant to UV. The product is supplied in rolls, pre-compressed to approximately 85%.



Vitaseal HPE has been developed for the more demanding application, especially in timber frame construction, where movement within the structure has to be accommodated whilst ensuring that a weathertight seal remains constant. The open cell nature of the product ensures good ventilation preventing moisture build up in the joint whilst still providing the thermal barrier and acoustic performance required. As with the Vitaseal 600, HPE provides good stability to UV ageing and sealing against driving rain.

Other standard glazing and sealing tapes available;

- **Flexitec-HT** double sided low density polyethylene foam based glazing tape
- **Flexitec-HT67** double sided medium density polyethylene foam based glazing tape
- **Flexitec-E** single sided low density polyethylene foam based sealing tape
- **Flexitec-TM** double sided low density polyethylene foam based trim mount tape
- **Flexitec-PG** double sided high density PVC foam based tape
- **Flexitec-SP120** single sided reverse wound medium density PVC foam based tape
- **Flexitec-PN1/FR** plain and single sided medium density PVC nitrile class O foam based tape

