Tecsound Metal Deck Acoustic Roofing Systems

TECSOUND ACOUSTIC ROOFING MEMBRANE (part code A140) is a flexible, high density, visco-elastic polymer mass layer. When combined with rock fibre or PIR insulation, the product provides an inexpensive, high performance acoustic solution for flat roofing and built-up metal roofing systems (e.g. standing seam). It is an ideal solution for buildings requiring high levels of acoustic performance, including: cinemas, airports, concert halls, stadiums, retail and leisure developments.

- Excellent acoustic performance
- Easy to cut and install onsite
- Supplied in roll form for fewer joints
- Acoustic Intensity Tests to BS EN ISO 140-18:2006
- Suitable for new build and refurbishment
- Class 0 fire rating
- Unbeatable flexibility even down to −20°C
- Improved low frequency performance
- Cost effective

2FTex PLUS High Performance Super Quilt

2FTex PLUS (part code A191) is a soundproofing composite made up of bitumen based acoustic membrane bonded both sides with a 16mm layer of porous acoustic felt offering excellent acoustic insulation in different building elements: walls, ceilings, roofs, etc. High acoustic insulation, combined with soft, flexible elements (plasterboard, wood conglomerate).

- Easy handling and application (does not irritate skin)
- Cold- and heat-resistant
- Rot-proof with excellent ageing resistance
- Easy overlapping
- Soundproofing of horizontal (ceilings) and vertical enclosures, where excellent soundproofing against airborne noise is required
- Specially recommended between block or partition cavity walls
- Ideal for reducing rain noise in loft conversions and in flat roofs
- Can be used between joists as a higher performance alternative to our acoustic mineral wool quilt
- Can be fixed against a wall with framework pushed against it for improved isolation and noise reduction
- Attach using our fixing rossetes (part code A220)
- Joins may be taped with our heavy duty duct tape (part code A290 – see p.12)
Tecsound High Performance Acoustic Membrane Range – T35, T50, TSY50, T100

**TECSOUND T35, T50, TSY50, SY50ALU AND T100** are polymer-based, asphalt-free, high density synthetic soundproofing membranes that offer good acoustic insulation in different building elements. These membranes have exceptionally high visco-elasticity as well as being extremely flexible even in cold temperatures. Available in:

- Easy to use, cut and trim
- Supplied in roll form
- Airborne and impact reduction
- Very high acoustic performance
- Visco-elastic
- Class 0 fire rating
- Unbeatable flexibility even down to −20°C
- Improved low frequency performance
- Self-adhesive/foil faced versions available
- Seal joins with our high performance aluminium duct tape; or stick to wall/ceiling with our contact adhesive – see p.12

VL-65 High Performance Acoustic Membrane

**VL-65 POLYMERIC VISCO-ELASTIC HIGH DENSITY ACOUSTIC 6KG MEMBRANE** (part code A121) offers good acoustic insulation in different building elements, giving high additional mass and high damping. Membrane is extremely flexible and helps reduce airborne noise in walls, floors, ceilings, and over frameworks, on metal panels and metal deck roofs. Suitable for domestic and commercial use.

- Excellent ageing resistance/rot-proof
- Easy to cut and trim and adaptable to uneven surfaces
- Very high acoustic performance – eliminates critical frequency of stiff partitions
- Improved low frequency performance
- Highly visco-elastic
- Excellent acoustic insulation
- Seal joins with our high performance aluminium duct tape; or stick to wall/ceiling with our contact adhesive – see p.12
- Euroclass B, s1 d0 (when used in partitions as shown at http://www.customaudiodesigns.co.uk/vl65-acoustic-membrane.htm)

Intumescent Expansion Joint Sealant (Pyrojoint)

**EXPANSION JOINT SEALANT** (part codes FR100–FR290) (Pyrojoint) is an excellent product to prevent the spread of fire and smoke through fire resisting and separating elements where expansion gaps are required.

- BS476: Part 20
- PR EN1336-4
- Up to 4 hours fire resistance
- Weather proof and water resistant
- Suits internal/external applications
- Cost effective to install
- Performance temperature between −30°C and +130°C
### Acoustic Mineral Wool

**FIRE-SAFE ACOUSTIC MINERAL WOOL** (part codes R100–R250) is particularly useful as a sound absorbing infill for the reduction of airborne noise in partition walls, between flooring joists and suspended ceilings. AMW consists mainly of silicon-oxide together with a number of other metallic oxides. ROBUST DETAIL E-WT-1, E-WT-2, E-WS-1, E-WS-2 and E-WS-3 compliant material.

- Acoustic cavity infill between floor joists
- Acoustic cavity infill between stud walls
- Can be used to meet new Building Regulations (*with other products)*
- Easy DIY installation
- Airborne noise reduction through walls and floors
- Easy to cut
- Low cost
- Zero ODP and zero GWP

### Neoprene Isolation Tape and PVC Nitrile Tape

**EPDM/NEOPRENE Coils** (part codes NE100–NE350)
A self-adhesive EPDM/Neoprene blend expanded foam rubber strip ideal for sealing, damping and cushioning. For isolating stud frames from contact with surrounding structures as well as glass, frames etc. Age-resistant and chemically neutral against the most commonly used lacquers and plastics.

Neoprene/EPDM is resistant to most caustic chemicals and resistant against ozone, moisture and UV radiation.

**Also:**
**Fire Rated Class 0 PVC Nitrile Tapes** (part codes NT100–NT250)
A self-adhesive Class 0 PVC Nitrile sealing tape. Ideal for sealing expansion gaps in floors and ceilings as well as having superior oil and solvent resistant properties.

### Resilient Bars

**Resilient Bar** is a thin metal channel designed to substantially improve the sound insulation of plasterboard walls and ceilings. (Part code A270)

- Suitable for concrete or timber walls/ceilings
- Can be used to meet new Building Regulations
- Easy to cut and install
- High impact and airborne noise reduction
- Lightweight
- Low cost

### Plasterboard Drywall Screws – for Resilient bars and Plasterboard

Self tapping for fixing resilient bars to frames/joists and for fixing plasterboard into resilient bars etc. Standard lengths available: 25mm; 38mm; 42mm; 50mm; 75mm. (Part codes A440 – A447.)
**Acoustic Plasterboard**

**ACOUSTIC PLASTERBOARD** (part codes A432–A436) is designed for use in areas where sound reduction is of particular importance. Its high mass helps block and absorb sound energy, giving enhanced acoustic performance to the wall or ceiling. It complies fully with BS EN520 and is categorised as Types A, D.

- Walls and ceilings
- Suitable for timber and metal studding
- 19mm plank suitable for floors
- Can be used to meet new Building Regulations *(with other products)*
- Easy DIY installation
- Performs far better than standard plasterboard
- Effective on lightweight and single skin walls and ceilings
- Complies with BS EN520, Type A, D
- Low cost

**CAD20-WP Recycled Rubber Acoustic Wall Panels**

**CAD20-WP** (part code A370) panel insulation is specifically designed to absorb and reduce airborne noise through party walls. It is extremely effective when applied to single skin walls such as breeze, brick or studwork partitioning.

- Upgrading brick party walls
- Can be used to meet new Building Regulations
- Easy DIY installation
- Minimum loss of room space

**Masonry Isolation Strip**

**MASONRY ISOLATION STRIP** (part code NE400) is for isolating built up masonry walls from substructures. Vibration isolation at source.

- Vibration isolation break between masonry walls and foundations
- Suitable for all types of block walls
- Easy DIY installation
- Easy to cut
- Thin but robust
- Highly efficient
- Flexible

**Acoustic Backbox Liner**

Our intumescent and acoustic lining pad is designed for lining electrical socket boxes in drywall constructions. *(Part code A431)*

- Use for single or double electric sockets and switches
- Easy DIY installation
- Easy to cut
- 2-hour fire rated
- Highly efficient
- Part E and Part B compatible
Floating Wall Suspension and Ties

The EP Range of isolation wall mounts for the floating suspension of soundproof walls. (Part codes V200–V300.)

EP 100 is a mount designed for the vibration damping of walls, equipped with long ring-attached screws for threading onto wooden or plasterboard walls.

Akustic and Sylomer Suspension Mounts

For superior acoustic isolation of pipes, wall studs, and acoustic wall bracing for cinemas. (Part codes V300–V350)

Acoustic Window Reveal Liners

A decorative and robust reveal liner for secondary glazing systems offering typical improvements of 2–4dB. Liners substantially reduce the reverberant sound field in the void formed between the primary and secondary glazing. (Part code GRG470 custom)

- Superior sound absorption properties
- Unaffected by moisture or UV
- Supplied to exact dimensions
- Wide colour range
- Maintenance free
- Simple to fix
- Type 1 – more suited to internal studio windows and low UV


IsoBase R50 – Timber Flooring Resilient Layer

ISOBASE R50 (part code A325) provides excellent acoustic sound insulation with ease of installation. The product is designed to be used as a resilient layer underneath T&G chipboard-type flooring and can also be used on top of a concrete floor. (15m x 1m x 5mm.)

- Separating floors
- Concrete floors
- Provides significant reduction in impact noise and vibration
- Only 5mm thick so does not significantly increase the floor level
- Easy to install
- Part E compliant resilient layer
- Seal joins with our high performance aluminium duct tape – see p.12

https://www.customaudiodirect.co.uk/soundproofing/floor-soundproofing/soundproofing-underlay-quietfloor-premium
**Quietfloor Premium+**

QUIETFLOOR PREMIUM+ (part code A110) is a superb acoustic floor system designed to reduce both impact and airborne noise transfer through floors.
- Impact and airborne noise reduction for floors
- Suitable for concrete and timber floors
- Can be used to meet new Building Regulations *(with other products)*
- Easy DIY installation
- Only 15mm thick
- High footfall and airborne reduction under carpet
- Easy to cut/handy sized panels
- Glue to floor with our high performance contact adhesive, and seal joins with our high performance aluminium duct tape – see p.12
- Low cost

**IsoScreed Foam Resilient Layer**

ISOSCREED FOAM (part code A335) provides excellent acoustic sound insulation with ease of installation. The product is designed to be used as a resilient layer underneath T&G chipboard-type flooring and can also be used on top of a concrete floor. *(30m x 0.925m x 5mm.)*
- Separating floors
- Concrete floors
- Provides significant reduction in impact noise and vibration
- Only 5mm thick so does not significantly increase the floor level
- Easy to install
- Seal joins with our high performance aluminium duct tape – see p.12
- Part E compliant resilient layer

**EcoMat RC3 and RC5 Acoustic Rubber Cork Composite Floor Covering Underlay**

ECOMAT RC3 AND ECOMAT RC5 – ACOUSTIC RUBBER/CORK COMPOSITE UNDERLAY (part codes A412 and A414) is a Document E compliant resilient layer, suitable for use as acoustic matting under most floor finishes.
- Ceramic tile
- Sheet vinyl
- Stone, wood, parquet, Flotex, marble
- New build and refurbishment
- Under-floor heating
- Easy installation
- High impact reduction
- Remains continually elastic
- Ultra-thin
- Good thermal properties
- Part E compliant
**GM-FF Floating Floor Underscreed Acoustic Insulation**

Very high performance screed isolation.

Equivalent to Regupol E48.

- Provides significant reduction in impact noise and vibration
- Will not collapse out even under high loads
- Minimal creep even under high loads
- Resistant to ageing and deformation
- Simple installation
- May be used with underfloor heating

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**IsoScreed Rubber – Under Screed Layer**

**ISOSCREEN RUBBER** (part codes A345/A350/A355) is a polyurethane-bound mixture of selected rubber fibres, ideal for use under screeds as a resilient layer. Available in 3mm/6mm/10mm thicknesses, it has a high resistance to compressive loads and remains outstandingly elastic. Excellent acoustic benefits for impact and airborne noise and used extensively in new build/refurbishment projects where Pre-Completion testing is preferred to Robust Details

- Provides significant reduction in impact noise and vibration
- Will not collapse out even under high point loads
- Easy to install
- Resistant to ageing and deformation
- Minimal creep even under high loads
- Excellent thermal conductivity
- Low cost
- Does not significantly raise the floor level

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**Resilient Floor Battens**

**ROBUST DETAIL FFT-1, FFT-3 compliant RESILIENT FLOOR BATTENS** (part code AB45–AB75). For installation underneath T&G chipboard type materials to greatly increase soundproofing performance. High performance impact reduction.

- Concrete or timber floors
- New builds and conversions
- Meets new Part E Building Regulations
- Meets new RSD details
- High acoustic performance
- Very easy to install
- Services can run underneath
- Maintenance free

Made from recyclable materials
**Acoustic Cradle System**

ROBUST DETAIL FFT-2 Compliant ACOUSTIC CRADLES (part code AC100). For installation underneath T&G chipboard type materials to greatly increase soundproofing performance. Concrete and timber floor compatible.

The Acoustic Cradle consists of a high performance, recycled, high density, 10mm resilient Isolate C rubber base which, unlike similar products, has excellent static deflection properties as well as the advantage of ‘long life’ as it will not degenerate over time as foam backed products do, so the performance will always remain the same.

Packers and risers also available (part codes A110–A200).

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**High Density Cement Impregnated Particle Board**

QUIETBOARD Cement Impregnated Particle Board (part code A400) is a revolutionary, waterproof, cement impregnated acoustic floor panel designed to inhibit impact and airborne noise transfer through separating floors.

- Home cinema rooms
- Recording studios
- Far superior acoustically to plasterboard
- Resistant to fire – Class 0 fire rated
- Resistant to humidity
- Dimensionally stable
- Extremely high acoustic isolation
- Resistant to fungus, bugs and micro-organisms
- Rw35dB

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**Acoustic Resilient Joist Cap**

A superb, easy to fit, direct-to-joist-system, engineered as a Part E-compliant acoustic treatment to save time and money (CAD part code AC200).

- Timber and masonry builds
- New build and refurbishment projects
- Non-specialist installation
- -45°C to 105°C
- Heat shrinkage less than 1% at 80°C for 96 hours
- No structural change over time
- Lightweight
- CFC-free, HCFC-free, zero ODP
- Very low toxic fume and smoke emissions
- Moisture resistant and rot proof
### Acoustic Overlay Board IsoBoard 15<sup>NBS</sup>

**ACOUSTIC OVERLAY BOARD TYPE 15** (part code A425) is designed to provide excellent acoustic sound insulation with ease of installation. No need for separate isolation layers or tongued and grooved chipboard. The product is a pre-bonded laminate of 6mm **Recycled Isofibre** resilient felt, bonded to the bottom of a strong, thin, 9mm tongued and grooved moisture-resistant MDF chipboard.

- Robust detail compliant FFT5
- Provides significant reduction in impact noise and vibration
- Easy to install
- Only 15mm thick – does not significantly increase the floor level
- Handy size 1200x600mm sheets
- Suitable for separating floors and concrete floors
- Suitable for kitchen and bathroom areas

### Acoustic Suspended Ceiling Tiles

A high density ceiling tile designed to reduce noise transfer between rooms with metal grid drop ceilings. (Part code AC500)

- Suspended lay in ceiling grid.
- Suitable for offices, meeting rooms, schools etc.
- Can be used to meet BB93
- Easy DIY installation
- Performs far better than standard tiles
- Class 0 fire rated
- Provides up to 49dB D<sub>ncw</sub>
- Tegular or square edged
- 600mm x 600mm
- only 20mm thick

### Anti-Vibration Damping Mounts

For isolating suspended ceilings as well as machinery operating at more than 1000rpm.

[https://www.customaudiodirect.co.uk/vibration-isolation](https://www.customaudiodirect.co.uk/vibration-isolation)
### Heavy Layer Composite NBS

For installation inside enclosures, behind and over frameworks etc. to increase soundproofing performance. (Part Code F100)

- Enclosure linings
- Suitable for damping machine and pump noise
- Easy DIY installation
- High sound reduction
- Easy to cut
- Handy sized sheets

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### Duct Foam NBS

Our Fire Retardant Acoustic Duct Foam is used for internal and external duct linings, thermal/acoustic machine coverings and suspended ceiling absorptive panels. (Part Codes F110–F140)

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### Tecsound FT55AL Ductlag Plus

FT 55 AL (Part Code A210) is a soundproofing complex made up of a porous felt mat and our high performance 5kg/m² synthetic acoustic membrane, faced with reinforced aluminium foil. The product increases acoustic insulation of the duct element to which it is applied, basing its effect on the presence of an absorbent element and a high elasticity and high density insulating membrane.

- Tested to BS EN 14366:2004
- Flexible
- Easy handling and adaptable to uneven surfaces
- Cold- and heat-resistant
- Excellent ageing resistance.
- On surfaces in good condition, installation can be corrected without loss of adhesiveness
### Acoustic Curtains/Drapes/Enclosures

- Industrial enclosures
- Suitable for damping machine and pump noise
- Suitable as temporary noise barrier
- Building site/motorway screening
- Easy installation
- Effective sound reduction
- Completely bespoke manufacture
- Waterproof
- Will withstand high temperatures
- Grey or black

**NB:** This product is for commercial and industrial applications only. The curtains are completely bespoke. Please note we DO NOT supply them for domestic applications.

### Acoustic Doors (Steel)

The RS range of high quality, high performance, steel acoustic doors with a performance range of $R_w 48\text{dB}$ or $52\text{dB}$ and is manufactured to meet all market requirements.

Optional extras including: finger guards, cam closer, vision panels, visible locks, panic bars and RAL finishes etc.

- The RS9 Range $R_w 48\text{dB}$ or $52\text{dB}$

### Acoustic Door (Timber)

Internal timber acoustic doorset, up to 35dB (including optional vision panel). Available in primed only or wide variety of veneered facings, and supplied to fit a standard opening of up to 2095 x 1005mm (single). Door is 44mm thick, weight: approx. 74kg.

For use wherever high sound reduction performance is required.

Supplied as complete assembly, including frame, doorleaf seals and hinges. An optional 10mm-thick timber threshold is also available.

Modified frame depths and sizes can be supplied upon special request.
### MISCELLANEOUS FIRE / SOUNDPROOFING PRODUCTS

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Expanding Foam Acoustic Joint Sealing Tapes</strong></td>
<td>Self-adhesive, high quality, high density, open cell foam impregnated to a high level with acrylics and FR additives. CFC- and HCFC-free, no chloride compounds. When compressed the cells close, providing dust, thermal, draught, acoustic, weather seals. (Part codes EXP1/4 to EXP 24/42)</td>
</tr>
<tr>
<td><strong>Fire Rated Luminaire Covers</strong></td>
<td>For installation behind office ceiling strip lights to maintain fire integrity. 60-minute fire rated. BS476 Part 23:1987. (Part codes FH141–142)</td>
</tr>
<tr>
<td><strong>Acoustic Sealant</strong></td>
<td>High quality fire rated acoustic sealant with excellent acoustic properties. Assessed to BS476: Part 20 – up to 4 hours’ fire resistance. (Part Code A250)</td>
</tr>
<tr>
<td><strong>Spray Contact Adhesive</strong></td>
<td>A high tack, high temperature, pressure sensitive contact adhesive. An excellent choice for most permanent adhesive applications. (Part Code A260)</td>
</tr>
<tr>
<td><strong>RFT50 High Performance Resilient Tape</strong></td>
<td>RFT50 high performance resilient floor tape for direct-to-joist or under-batten application to reduce sound transfer by isolating partitioning or party walls. (Part Code NE360RT)</td>
</tr>
<tr>
<td><strong>Pyrojoint - Intumescent Expansion Joint Sealer</strong></td>
<td>To prevent the spread of fire and smoke through fire resisting and separating elements where expansion gaps are required. Up to 4 hours’ fire resistance. (Part Codes FR100–FR190)</td>
</tr>
<tr>
<td><strong>Aluminium Duct Tape</strong></td>
<td>A high performance bi-directionally reinforced polyethylene foil laminate coated with a special pressure sensitive acrylic adhesive that combines excellent quick-stick at normal temperatures with superior low temperature performance. Recommended for use in high humidity conditions. (Part Code A290)</td>
</tr>
<tr>
<td><strong>Isolation Tapes</strong></td>
<td>A self-adhesive EPDM/Neoprene blend expanded foam rubber strip, ideal for sealing, damping and cushioning. Age-resistant and chemically neutral against the most commonly used lacquers and plastics. Neoprene/EPDM is resistant to most caustic chemicals, ozone, moisture and UV radiation. (Part Codes NE100–NE350)</td>
</tr>
</tbody>
</table>