

PhonoDeck® 24

Product Datasheet

PhonoDeck® 24 boards offer a high performance impact and airborne noise reduction floating floor solution. In addition, they are ideal for refurbishments and can be laid directly on top of sub-floors for additional height.

PhonoDeck® 24 is ideal for use in refurbishment and conversion applications where privacy and comfort are important. PhonoDeck® 24 acoustic overlay floorboard provide both an easy and convenient method to reduce airborne noise and impact sound transmission through new and existing floors. These PhonoDeck® composite overlays provide optimal performance, improving the performance of an existing structural timber decked floor. PhonoDeck® is suitable for use in offices, hotels, building extensions, renovations and loft conversions where there is a requirement to improve sound insulation within a property to help comply with building regulations or generally to reduce sound.

Each PhonoDeck® acoustic overlay floorboard has a combination of a tongue & groove high density timber floorboard with a low resonance and flexible recycled resilient polyester under-layer. Complies with **Part E** of Building Regulations.

High performance, versatile acoustic floating flooring system.

Acoustic Ratings For:



PART E - PCT SOLUTION



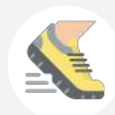
Key Features



100% recycled resilient layer.



Resilient overlay board.



Superior impact noise reduction.



Excellent airborne sound reduction.



Quick and easy to install.



Sourced and manufactured in the UK.

Product	Airborne	Impact	Weight	Weight m2	Pallet Quantity
PhonoDeck® 24 2400 x 600 x 24mm	62dB	45dB	16.1kg	11.2kg	60

Values quoted are typical and based on the treatment being installed correctly and pre-completion tested (PCT). Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.



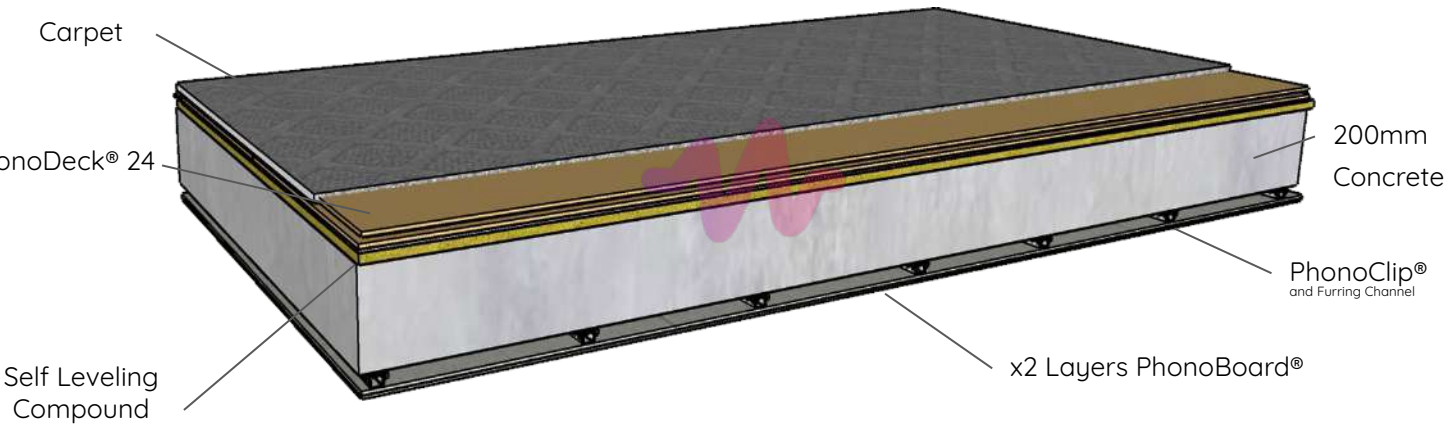
SpecifiedBy


MADE IN
BRITAIN




PhonoDeck® Applications and their Typical Acoustic Performance.

Concrete Slab

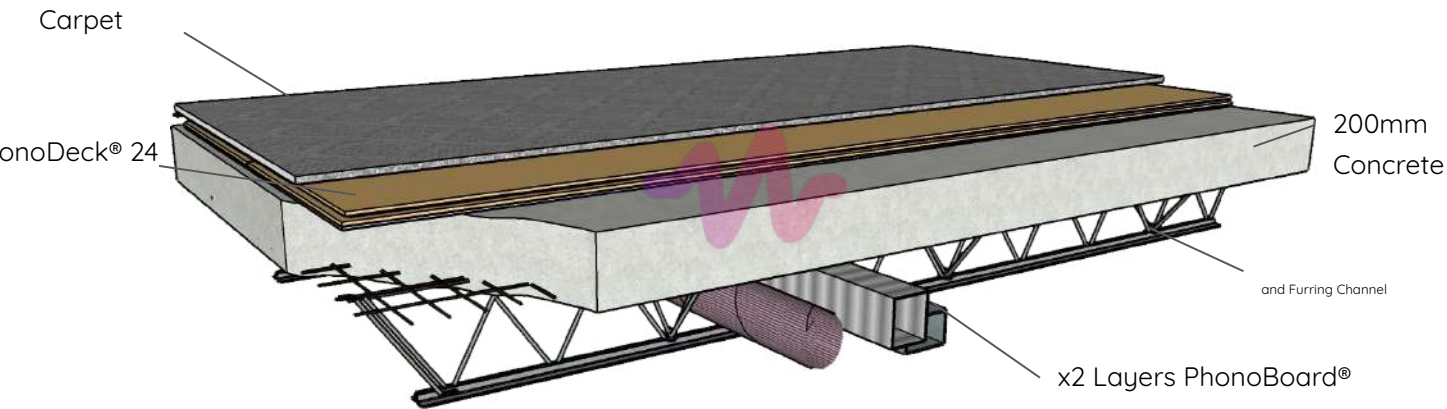


Acoustic Performance

DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr	LnT,w Impact sound performance	ΔLw Impact noise improvement
62dB	55dB	45dB	21dB

Results based on PhonoDeck 24 being laid onto a concrete platform with a suitable ceiling treatment (as shown) and all flanking paths removed. Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.

Concrete Slab



Acoustic Performance

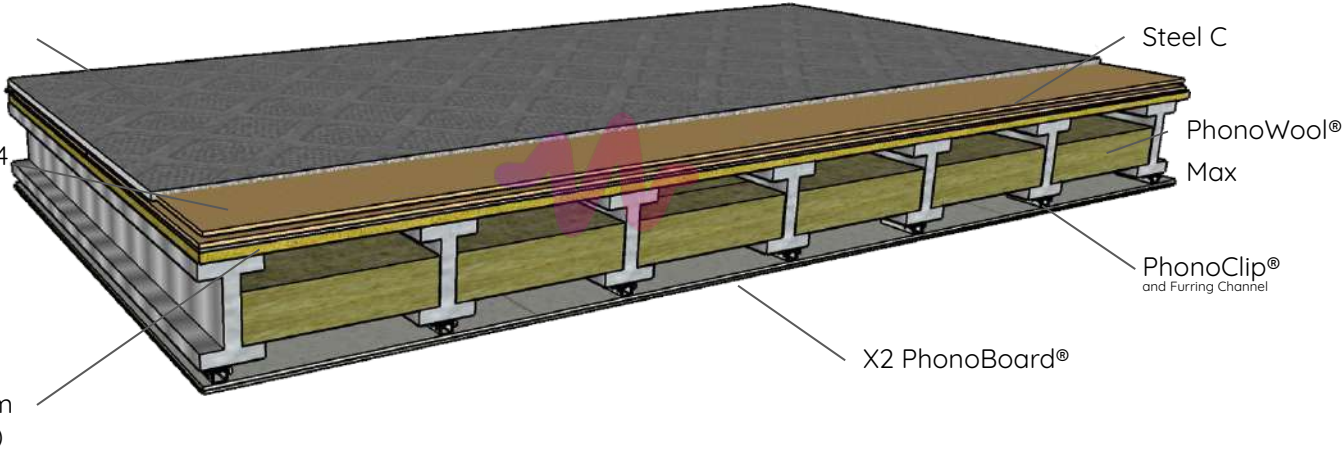
DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr	LnT,w Impact sound performance	ΔLw Impact noise improvement
62dB	55dB	45dB	21dB

Results based on PhonoDeck 24 being laid onto a 200mm concrete platform (as shown) and all flanking paths removed. Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.



PhonoDeck® Applications and their Typical Acoustic Performance.

Steel Joist

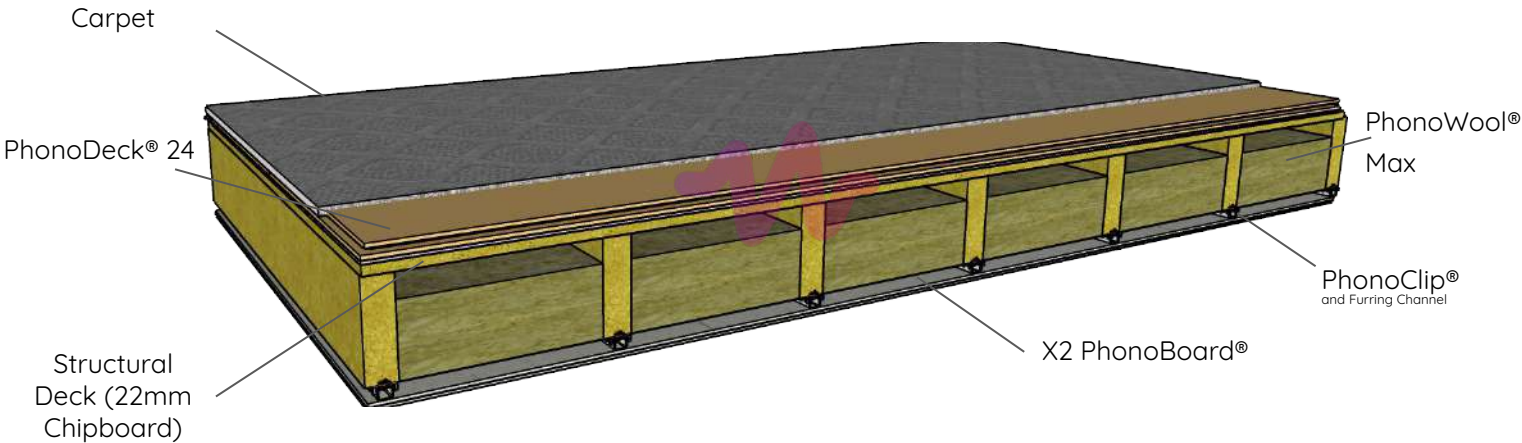


Acoustic Performance

DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr	LnT,w Impact sound performance	ΔLw Impact noise improvement
56dB	49dB	45dB	21dB

Approved Document E: PhonoDeck 24 laid onto joists with 100mm 45 kg/m² mineral fibre laid continuously between 225mm x 50mm timber joists. Resilient Bars to be directly fixed to the ceiling joists to support 2 layers of PhonoBoard® (60 mins Fire Rated) and all flanking paths removed.. For technical advice please contact Acuphon's technical support.

Timber Joisted



Acoustic Performance

DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr	LnT,w Impact sound performance	ΔLw Impact noise improvement
56dB	49dB	45dB	21dB

Approved Document E: PhonoDeck 24 laid onto joists with 100mm 45 kg/m² mineral fibre laid continuously between 225mm x 50mm timber joists. Resilient Bars to be directly fixed to the ceiling joists to support 2 layers of PhonoBoard® (60 mins Fire Rated) and all flanking paths removed.. For technical advice please contact Acuphon's technical support.



Acoustic Performance cont'd (*Flanking Transmission Considerations*)

The performance figures quoted above are based on test results for 225mm timber and 365kg/m² concrete floors using the components indicated and can only be expected if the building design and construction has followed good practice to ensure all potential flanking paths are eliminated. In order for wall and floor constructions to be fully effective, extreme care should be taken to correctly detail the junctions between the separating wall or floor and the associated elements such as external walls and any penetrations. If junctions are not detailed correctly, the acoustic performance will be limited and the strict Building Regulation parameters may not be achieved in practice.

Applications.

- Offices
- Hotels and hostels
- Student accommodation
- Sheltered housing
- Flats and apartments
- Social housing
- Nursing and care homes
- Shops

Environmental Considerations.

Ensuring sustainability has always been a key factor in the development of PhonoDeck® acoustic flooring. The upper substrate layer of chipboard is manufactured using 70% responsibly sourced timber accredited by the FSC (Forestry Stewardship Council). The lower resilient layer of acoustic felt is fully recyclable and is manufactured from 80% recycled polyester fibres

Operating Temperature.

Suitable for normal building temperatures.

Fire Performance.

PhonoDeck® 24 will not add significantly to any existing fire hazard when properly installed.

Packaging, Handling & Storage.

PhonoDeck® 24 can be supplied in packs of four boards and in fully recyclable cardboard boxes which in turn are packed onto timber pallets. Cartons should be stored flat and kept indoors in a dry well-ventilated area and care should always be taken when handling boards to avoid damage

Technical Advice.

It is recommended that all individual projects are discussed with our team of highly qualified technical engineers and are available to offer assistance and advice to clients, architects and contractors on all aspects of noise control to ensure design specifications and acoustic performance requirements are achieved.

Installation & Fixing.

PhonoDeck® 24 is laid as a floated floor (no fixings) onto a flat supporting deck or direct to joist. All board joints must be fully bonded using PhonoBond® Joint Adhesive and all wall edges should be isolated using PhonoStrip® 5mm Isolation Tape. Please consult our website where fitting instructions are available or contact us for more detailed guidance.

The information contained in this data sheet is believed to be correct at the date of publication. The information is based on our general experience and is given in good faith but because of the many factors outside our knowledge and control which may affect the product no warranty is given or is to be implied with respect to such information. Acuphon Ltd reserves the right to alter or amend the specification of their products without notice as their policy is one of constant improvement.



Fire Performance

PhonoDeck® 24 will not add significantly to any existing fire hazard when properly installed.

Installation Guide

1. Ensure that the work area is level and clear of all debris.
2. Use a layout plan of conventional broken bond pattern and avoid any cut panels less than 150mm. In all rooms that the panels are to be installed, the correct perimeter details should be taken into account.
3. Install the floating floor panels soft side down.
4. All tongue and groove joints need to be adhered using the PhonoBond® Joint Adhesive when using:
 - PhonoDeck® Micro 17. **PhonoDeck® 24.** PhonoDeck® 28. PhonoDeck® Tri35s.
5. At No point must any mechanical fixings be used.
6. Neatly press PhonoStrip® into all perimeter gaps forming an airtight seal.
7. Place 2-3mm thick packers along the top of the PhonoDeck® floating floor system, around the perimeter only where skirting board is to be installed.
8. The skirting board should be set, sitting directly on top of the packers keeping it raised 2 – 3mm above the panels.
9. Remove packers when skirting board is fixed soundly in place and add Acoustic Sealant to the previously set 2 – 3mm gap.
10. When using PhonoDeck®24 floating floor system directly over joists it is IMPORTANT that you ensure all joist centres are of adequate spacing to support the PhonoDeck® floor. The use of joist noggins or lateral struts may be necessary to ensure all joists are stiff and firm. By doing so replaces the original joist stiffness created by the original and previously nailed floor boards.
11. PhonoJoist Strip MUST always be used to the top of each joist, noggin and strut before laying PhonoDeck®24 floor direct to joist. These joist strips can be stapled or adhered to the top of the joists.
12. For PhonoDeck® Tri35s structural overlay board, PhonoJoist Strips are not necessary.

You may also require:



PhonoStrip® SAB



PhonoClip®



Scrim Tape



PhonoSeal®



PhonoBond®



PhonoClip® Resilient
Bar