

PhonoDeck® 28

Product Datasheet.

PhonoDeck® 28 boards offer a high performance impact and airborne noise reduction floating floor solution suitable for use on direct to joist application (*Joists must be at 450mm centres*) new or existing timber, and concrete floors. PhonoDeck® 28 can also be fitted as part of a cradle and batten system on concrete floors where there is a requirement for a service void.

PhonoDeck® 28 comprises an upper face of moisture-resistant, tongue and grooved chipboard with an acoustic felt on the underside that provides mechanical isolation from the existing floor structure. PhonoDeck® 28 is 28mm thick and is designed to dampen vibration whilst attenuating airborne sound and impact noise passing through floors.

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 floor system.



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.

Acoustic Ratings For:

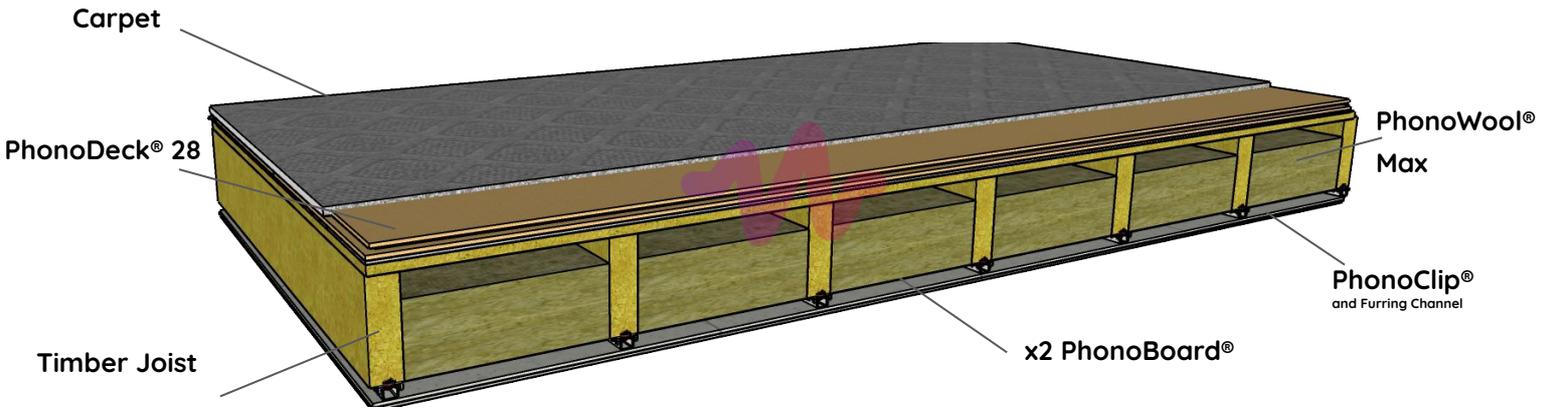


Product Attributes	Board Length	Board Width	Board Thickness	Weight per Board	Weight per m ²	Pallet Quantity
PhonoDeck® 28	2400mm	600mm	28mm	19.2kg	13.3kg	50



PhonoDeck® 28 Applications and their Typical Acoustic Performance.

Timber Joist

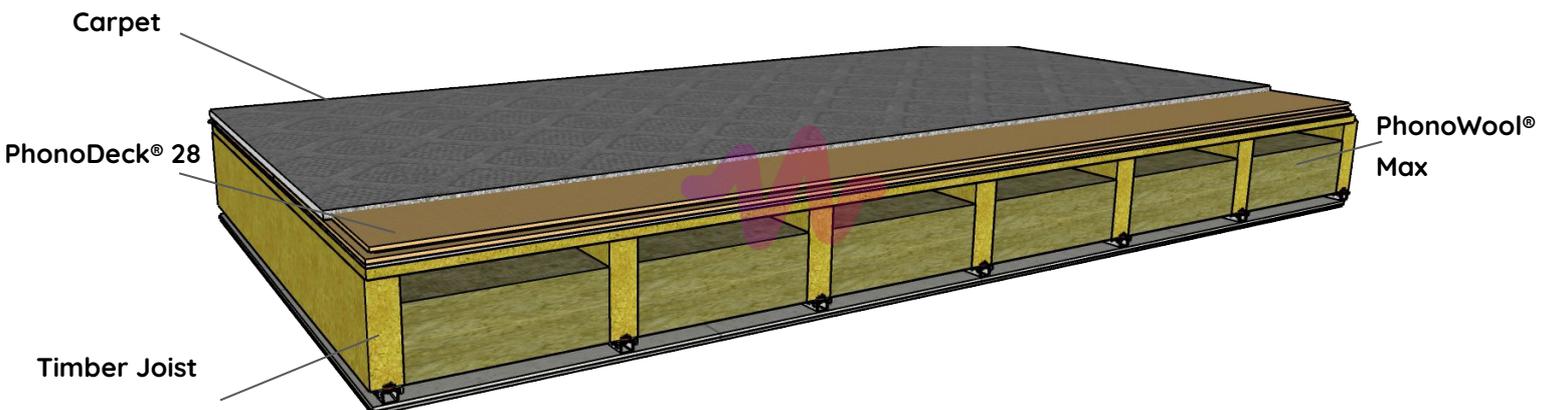


Acoustic Performance.

DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr	LnT,w Impact sound performance	ΔLw Impact noise improvement
54dB	60dB	54dB	26dB

Approved Document E:PhonoDeck 28 on a timber joist application 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 Joist



Acoustic Performance.

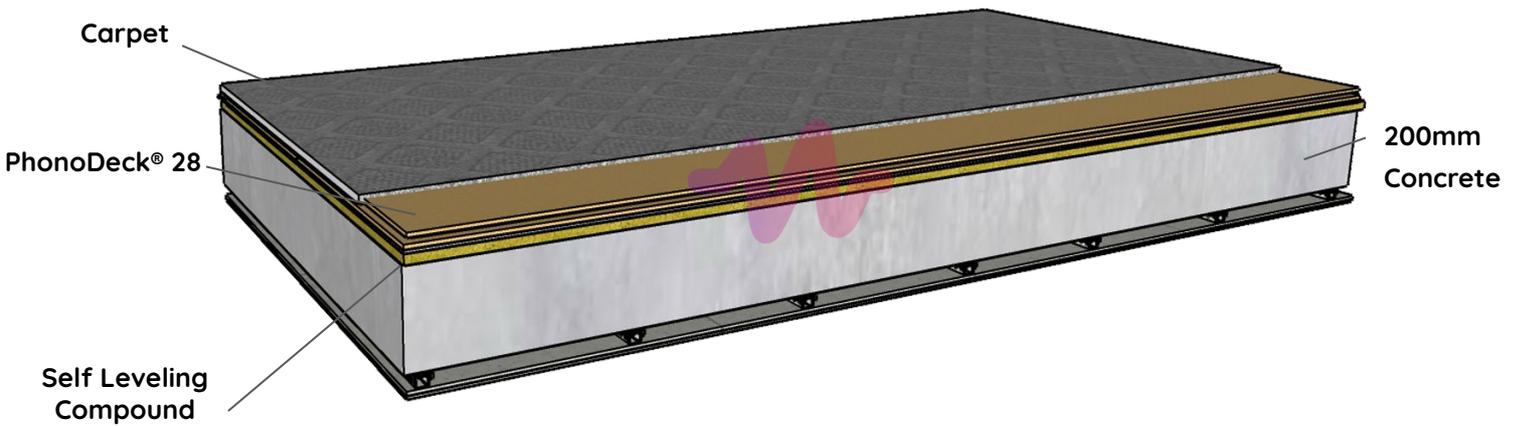
DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr	LnT,w Impact sound performance	ΔLw Impact noise improvement
49dB	53dB	62dB	26dB

Approved Document E:PhonoDeck 28 on a timber joist application 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.



PhonoDeck® 28 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
-	-	-	26dB

Results based on PhonoDeck 28 being laid onto a concrete platform with a plaster skim ceiling treatment and all flanking paths removed. Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.

Acoustic Performance.

Floor Construction	Airborne Sound		Impact Sound	
	DnT,W	DnT,W + Ctr	LnT,W	ΔLW
Approved Document E: PhonoDeck® 28 laid onto joists with 100mm PhonoWool continuously between 225mm x 50mm timber joists. Resilient Bars to be directly fixed to the ceiling joists to support 2 layers of 12.5mm acoustic plasterboard (60 mins Fire Rated).	54dB	60dB	54dB	-
Acoustic improvement (where no access to plaster boarded ceiling below) of an existing ceiling with 2 layers of direct fixed 12.5mm plasterboard: Fit 100mm PhonoWool continuously between the joists and float PhonoDeck® 28 onto the joists or decking.	50dB	42dB	57dB	-
PhonoDeck® 28 on a 365 kg/m ² concrete floor with plaster skim ceiling exceeds the Building Regulations minimum requirement of 17dB.	-	-	-	26 dB

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.



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

Packaging, Handling & Storage.

PhonoDeck® 28 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® 28 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.

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Installation Guidelines.

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 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. PhonoDeck® 28 is laid as a floated floor (no fixings) onto a flat supporting deck. 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.
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You may also require:



PhonoStrip® SAB



PhonoClip®



Scrim Tape



PhonoSeal®



PhonoBond®



PhonoClip® Furring Bar