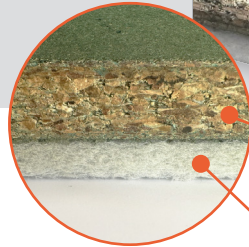




TESTED  
AT SALFORD  
UNIVERSITY

DETAILS ON  
PAGE 4



T&G Chipboard

10mm PET mat

# TEKFON

## ACUSTOP CHIPBOARD 28 & 32

### PRODUCT DETAILS

**Twice recycled PET mat laminated to P5 PEFC & FSC T&G Chipboard.**

Boards are manufactured from PEFC & FSC certified chipboard with a heat-treated green top surface finish bonded to a 100% twice recycled 10mm PET mat.

Sheets are supplied in a 2400mm x 600mm board, either 28mm or 32mm thick (including the mat) for the acoustic treatment of concrete and timber floors when used in conjunction with a recognised acoustic ceiling treatment.

The system can be installed over an existing timber or concrete subfloor, or onto timber joists with the addition of our acoustic joist isolation strips.

**It should be noted that the 28mm board direct to joists application can only be fitted at a maximum of 400mm joist centres with joist strips. For joists built at 600mm centres the 32mm thick board should be used also with self-adhesive joist strips.**

It is the customers responsibility to ensure that the subfloor or joists can provide the support required. Noggins/additional support must be fitted when required. No boards should be installed with unsupported ends.

Boards are installed as a floating floor system with the requirement of our acoustic perimeter strip to ensure isolation of the boards from the superstructure and skirting boards.

### KEY FEATURES

- Low profile acoustic solution
- Twice recycled PET Mat
- 14 recycled bottles used for every board
- PET mat considered hypoallergenic
- Extremely low VOCs
- PEFC & FSC chipboard
- P5 moisture resistant
- Hard wearing surface
- Suitable for carpets with underlay
- Suitable for LVT & vinyls
- Can be tiled over in conjunction with a decoupling mat

### PERFORMANCE

Tekfon Acustop Chipboard 28 & 32 require that all components are utilised as specified. The ceiling treatment below the subfloor or joists is also vital for the performance of the system.

The Tekfon components are as follows:

- Tekfon Acustop Chipboard 28 or 32mm
- Tekfon Perimeter Strip
- Tekfon Self-Adhesive Joist Strip
- Tekfon Water Resistant 2 in 1 Adhesive
- Tekfon Acoustic and Intumescent Mastic

The ceiling treatment requires the use of 2 layers of 15mm Acoustic plasterboard fitted onto resilient bars\* at 400mm centres. Additionally, a 100mm 60kgm<sup>3</sup> slab should be fitted between the joists, or into the ceiling void below the subfloor to complete the treatment. All edges to be sealed with acoustic sealant.



## INSTALLATION GUIDE

The subfloor should be prepared with any fixings driven below the surface. All boards should be securely fixed, dust & debris free and be of serviceable quality.

Start by cutting the tongue from the boards that are to abut the wall, and scribe in as necessary. Perimeter boards should be separated from contact with the wall by use of our acoustic foam perimeter strip that will also isolate the board from the skirting board.

Boards should be laid in a half bond pattern commencing as far as possible away from any doorway. Where the installation is to be directly onto joists the boards should be laid in an orientation at 90° to the run of the joists.

When fitting direct to joists, our self-adhesive acoustic joist strip should be installed running the length of the joists to ensure no direct contact between the board and the joist. When cutting boards some dust will be generated; the use of PPE is recommended. It may be necessary to provide additional bracing and noggins to ensure sufficient rigidity of the supporting medium.

Any pipework or services that need to pass through the floor should be passed through a hole larger than the pipe or service with the gap being sealed with Tekfon acoustic and intumescent mastic. In a bathroom or kitchen installation the units should be installed on a separate platform formed from plywood or OSB on isolating pads and not directly on to the Tekfon Acustop Chipboard. Any new partitions should be constructed directly from the subfloor and isolated from the panels using the acoustic foam perimeter strip.

Mechanical fixings should not be used except where 2 panels with cut edges abut at a doorway to secure the end of the panel.

All tongue and groove joints should be tightly butted and glued top & bottom with our Tekfon 2 in 1 water resistant glue with any excess being removed from the surface. Once installed the boards should not be trafficked for a minimum of 24 hours prior to the installation of the skirting boards or surface finishes.

A final check should be conducted to ensure that there are no open voids through the installation which if found should be sealed with Tekfon acoustic and intumescent sealant.

## BUILDING REGULATIONS - APPROVED DOCUMENT E

### Purpose built dwelling-houses and flats standards\*

	AIRBORNE SOUND INSULATION DnT,w + Ctr dB	IMPACT SOUND INSULATION L' nT,w dB
Walls	45	-
Floors and Stairs	45	62
<b>CHANGE OF USE</b>		
Walls	43	-
Floors and Stairs	43	64

### Rooms for residential purposes\*\*

	AIRBORNE SOUND INSULATION DnT,w + Ctr dB	IMPACT SOUND INSULATION L' nT,w dB
Walls	43	-
Floors and Stairs	45	62
<b>CHANGE OF USE</b>		
Walls	43	-
Floors and Stairs	43	64

The Tekfon Acustop Chipboard systems 28 & 32 have been designed to provide acoustic solutions and are subject to our continued testing, monitoring and development. As previously stated, they require the use of all components and the ceiling treatments to perform to their intended performance.

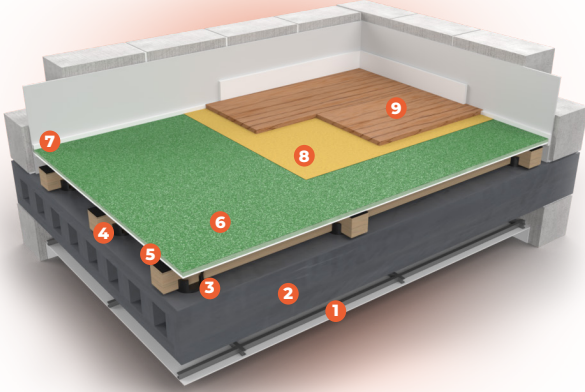
\*Acoustic Ceiling treatment required, see performance on page 1.

\*\*Current at time of production. It is the installers responsibility to ensure that the work is compliant with current Building Regulations.



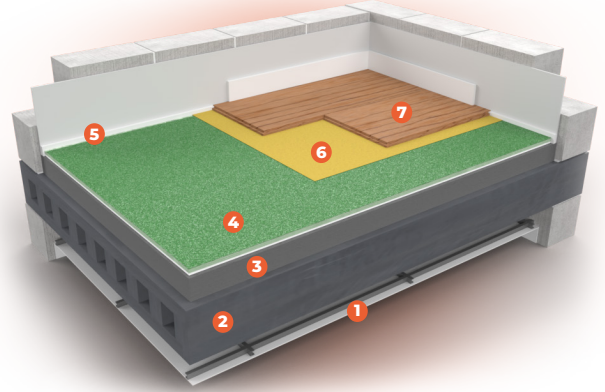
## INSTALLATION OPTIONS

### Acustop on Acoustic Cradle



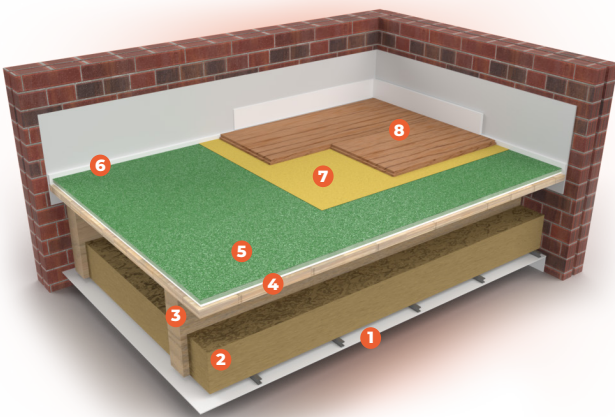
- |                                     |                           |
|-------------------------------------|---------------------------|
| 1. Acoustic Ceiling*                | 6. Acustop Chipboard      |
| 2. Concrete Slab                    | 7. Tekfon Perimeter Strip |
| 3. Acoustic Cradle                  | 8. Flooring Underlay      |
| 4. Timber Batten                    | 9. Floor Covering         |
| 5. Tekfon Self-Adhesive Joist Strip |                           |

### Acustop on Concrete/Screed Subfloor



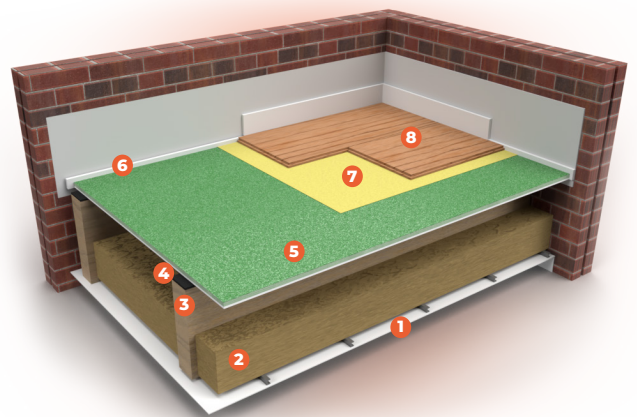
- |                      |                           |
|----------------------|---------------------------|
| 1. Acoustic Ceiling* | 5. Tekfon Perimeter Strip |
| 2. Concrete Slab     | 6. Flooring Underlay      |
| 3. Screed            | 7. Floor Covering         |
| 4. Acustop Chipboard |                           |

### Acustop on Timber Subfloor



- |                                 |                           |
|---------------------------------|---------------------------|
| 1. Acoustic Ceiling*            | 5. Acustop Chipboard      |
| 2. 100mm 60kgm³ Insulation Slab | 6. Tekfon Perimeter Strip |
| 3. Joist                        | 7. Flooring Underlay      |
| 4. Floorboards                  | 8. Floor Covering         |

### Acustop on Timber Joists



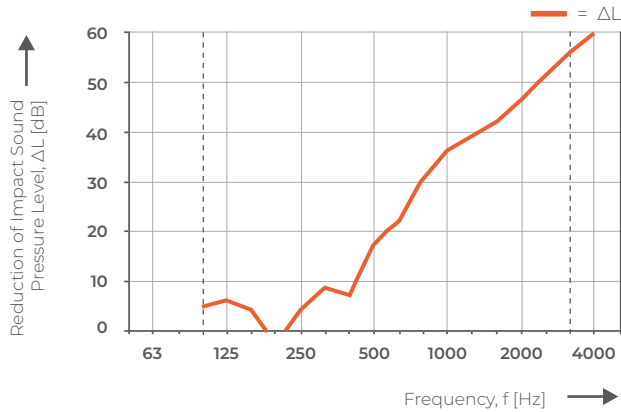
- |                                     |                           |
|-------------------------------------|---------------------------|
| 1. Acoustic Ceiling*                | 5. Acustop Chipboard      |
| 2. 100mm 60kgm³ Insulation Slab     | 6. Tekfon Perimeter Strip |
| 3. Joist                            | 7. Flooring Underlay      |
| 4. Tekfon Self-Adhesive Joist Strip | 8. Floor Covering         |

## TESTING

### Test BS EN ISO 10140-3:2021 Acoustics - Laboratory measurement of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor.

Results show reduction only of product applied to an existing floor structure which will have an impact reduction already.

#### Acustop T&G Chipboard 28mm overall.

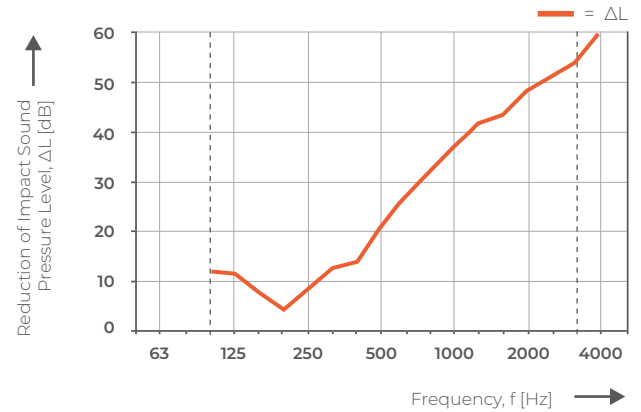


##### RATING ACCORDING TO BS EN ISO 717-2:2020

$$\Delta L_w = 20 \text{ dB} \quad C_{I,\Delta} = -11 \text{ dB} \quad C_{I,r} = 0 \text{ dB}$$

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method giving indicative figures.

#### Acustop T&G Chipboard 28mm overall onto Acustop 5mm thick decoupling isolation strips at 600mm centres.

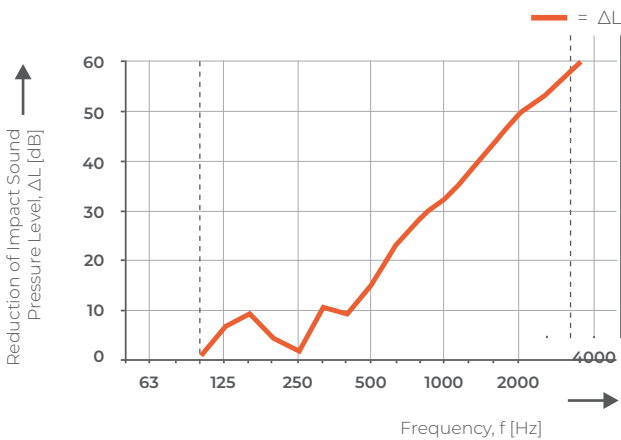


##### RATING ACCORDING TO BS EN ISO 717-2:2020

$$\Delta L_w = 25 \text{ dB} \quad C_{I,\Delta} = -9 \text{ dB} \quad C_{I,r} = -2 \text{ dB}$$

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method giving indicative figures.

#### Acustop T&G Chipboard 32mm overall.

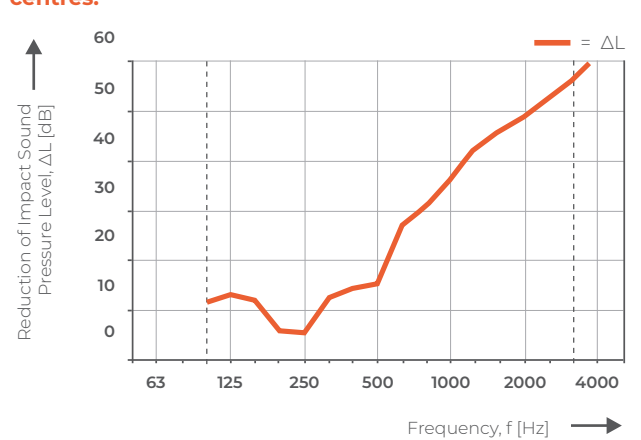


##### RATING ACCORDING TO BS EN ISO 717-2:2020

$$\Delta L_w = 21 \text{ dB} \quad C_{I,\Delta} = -10 \text{ dB} \quad C_{I,r} = -1 \text{ dB}$$

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method giving indicative figures.

#### Acustop T&G Chipboard 32mm overall onto Acustop 5mm thick decoupling isolation strips at 600mm centres.



##### RATING ACCORDING TO BS EN ISO 717-2:2020

$$\Delta L_w = 26 \text{ dB} \quad C_{I,\Delta} = -8 \text{ dB} \quad C_{I,r} = -3 \text{ dB}$$

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method giving indicative figures.