

Defender 28

High Performance Acoustic Floor System

Trim Defender 28 should be laid directly onto the concrete floor in a broken bond pattern with all joints glued and perimeters sealed using 30mm x 5mm Perimeter isolation tape.

Features & Benefits

- Supports Floor Loadings defined in BS: 6399-1: 1996
- Superior Performance - the recycled foam used has excellent impact Improvement characteristics and superior stability within a single layer.
- Foam fire tested to BS4790
- Quality Assured - Trim Acoustics products meet all current standards.



Trim Defender 28 is designed to reduce impact and airborne sound transmission in new build and existing applications. Trim Defender 28 consists of 18mm P5 moisture resistant chipboard bonded to 10mm layer of recycled foam, the base is protected by an anti crumb encapsulating layer. When installed as part of a complete sound reduction system it can achieve Building Regulations Document E standard

Performance

Treated Timber Floor	$D_{nT,w} + C_{tr}$	$L_{nT,w}$
	42dB	62dB

Performance figures based on Defender 28 laid over 18mm chipboard with a ceiling construction of: 45kg/m³ insulation between joist & 30kg/m² double plasterboard.

Treated Concrete Floor	ΔL_w
	19dB

Performance figures based Defender 28 laid over a 365kg/m² concrete floor with a plaster skim.

System Components

Overall Dimensions	2400mm x 600mm x 28mm thick
18mm P5 moisture resistant chipboard	
Resilient layer composition	10mm Recycled Acoustic Chip Foam With anti crumb encapsulating layer.

Defender 28

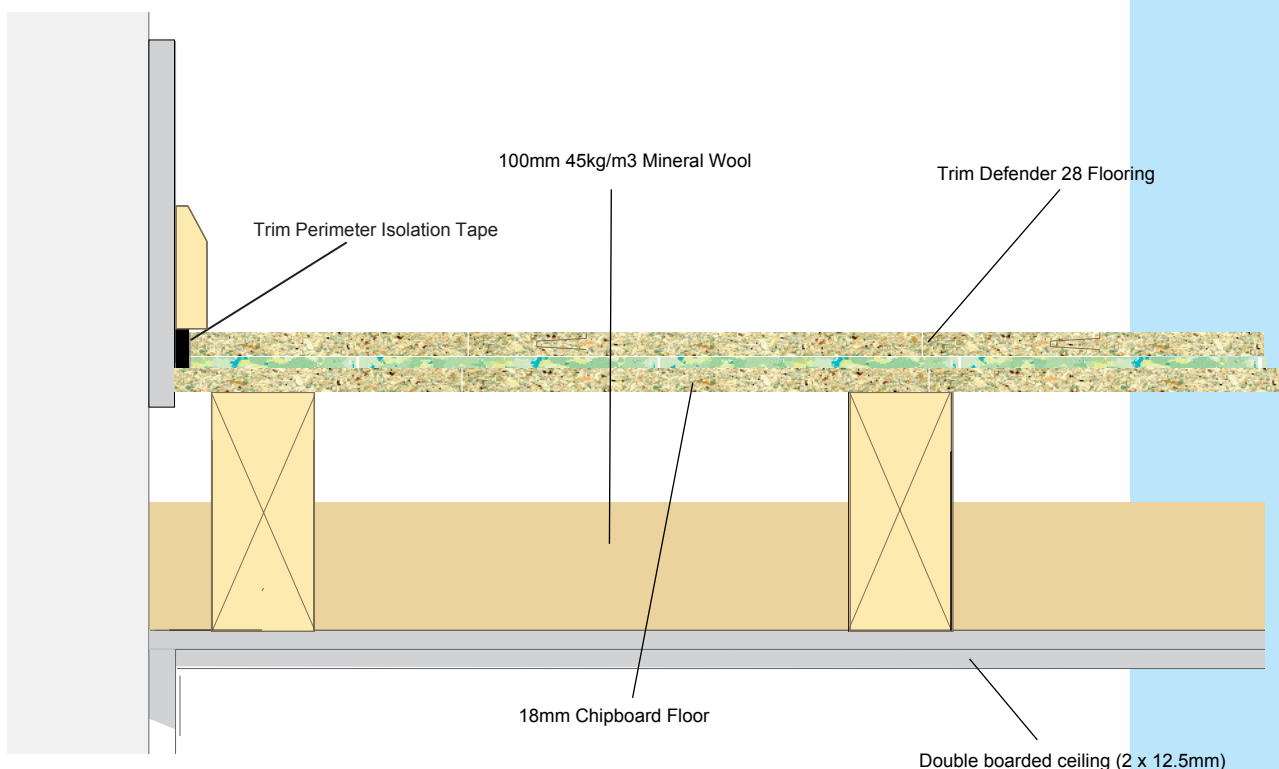
Fitting Instructions

Ceiling Treatments

- Increasing the mass and absorption of the floor by laying mineral wool between the joists
- Form the ceiling with a minimum of two layers of plasterboard (2 x 12.5mm)
- Increased performance can be achieved by the fitting of resilient bars to the joist prior to fitting the plasterboard

Flanking Transmission

The acoustic performance of a floor can be compromised by the passage of sound through walls and ducts, which adjoin or penetrate a floor, a phenomenon known as flanking transmission. To reduce flanking transmission the acoustic flooring must be isolated from walls and other structural elements. Trim Acoustics Isolation Strip is a flexible polyethylene strip designed to form and seal between the flooring and the wall.



Trim Defender 28 over timber joists.

Installation

- Use isolation tape on all perimeter walls
- Lay Defender 28 boards over existing floor in a broken bond pattern, applying adhesive to all tongue and groove panel joints.