

Design & Installation Guide

MASS TIMBER FLOORS SYSTEMS

New Zealand | v2.5 | May 2023



SoundDownTM Floor Systems

Sustainable, engineered solutions solving mass timber acoustics



High acoustic energy rooms



Large open spaces



Living Spaces



Modern workspaces



High traffic areas

This Design and Installation Guide has been prepared as a source of information to provide general guidance to consultants – and in no way replaces the services of the professional consultant and relevant engineers designing the project.

It is the responsibility of the architectural designer and engineering parties to ensure that the details in this Design and Installation Guide are appropriate for the intended application.

The recommendations of this guide are formulated along the lines of good building practice, but are not intended to be an exhaustive statement of all relevant data.

CONTENTS

01 INTRODUCTION	4
02 USE OF THIS GUIDE	5
03 INTRODUCING SOUNDDOWN™ ACOUSTIC FLOOR SYSTEMS	6
04 INTRODUCING SOUNDDOWN™ SHOWER TRAY MODULE	7
05 PRODUCTS, ACCESSORIES & TOOLS	8
06 SOUNDDOWN™ ACOUSTIC PERFORMANCE	9
07 SOUNDDOWN™ SDP LAYOUT	10
08 SOUNDDOWN™ SDP CONSTRUCTION DETAILS	11
09 SOUNDDOWN™ SDP INSTALLATION	12
10 SOUNDDOWN™ PAB LAYOUT	13
11 SOUNDDOWN™ PAB CONSTRUCTION DETAILS	14
12 SOUNDDOWN™ PAB INSTALLATION	15
13 WET AREAS & PENETRATIONS	16
14 SOUNDDOWN™ PAB SHOWER TRAY MODULE DETAILS	17
15 SOUNDDOWN™ SHOWER TRAY MODULE INSTALLATION	18
15 SOUNDDOWN™ SHOWER TRAY MODULE INSTALLATION	19
15 SOUNDDOWN™ SHOWER TRAY MODULE INSTALLATION	20
16 FURTHER INFORMATION	21

01 | INTRODUCTION

SoundDown[™] are leaders in innovation for acoustic-rated intertenancy floor and ceiling systems suitable for high density residential, commercial, educational and healthcare applications. SoundDown[™] Floor Systems are engineered to solve complex acoustic problems associated with CLT structural floors while maintaining the ethos and values of Mass Timber construction.

SoundDownTM PAB and SDP systems are sustainable, lightweight solutions designed to reduce noise and vibration for CLT structural floors that the market is accustomed to with the likes of reinforced concrete. The benefits of SoundDownTM are simply reducing onsite labour requirements and removing messy wet trades; leading to fast and efficient installation and ultimately, allowing the project to realise construction programme and cost benefits.

The systems are comprised of proprietary SoundDown[™] products and industry-leading building materials to create a practical, resilient, dry subfloor as an alternative to wet screeds and concrete toppings which diminish the value of Cross-Laminated Timber (CLT). SoundDown[™] Acoustic Floor Systems were developed to offer a variety of airborne and impact sound options, services integration and project-unique floor depth requirements to meet the vast range of project and customer needs.

In addition to Acoustic Floor Systems, SoundDownTM offer a preassembled Shower Tray Module to compliment SoundDownTM PAB system; allowing for a prefabricated option to enable seamless floor transition to the shower and removing wet screeds unlocking certainty in quality, compliance of falls, speed and ease of installation.

As the construction field evolves, the market, industry and governing bodies are continually calling for better quality and safer systems constructed of moisture resistant, non-combustible and non-hazardous materials to drive positive change in the built environment. SoundDown $^{\text{TM}}$ acknowledges the changing landscape and brings progressive solutions to the market guaranteeing compliance and best in class practices.

The Benefits of SoundDown™

- Highly durable topping
- · Available in easy to carry unit sizes
- Designed to be installed by one person
- · Simple design and construction detailing
- Lightweight solution through resiliency over mass
- Suitable for wet areas
- Use of recycled and sustainable materials

For further information or project support:

web email phone

www.sounddown.co.nz warren@sounddown.co.nz (+64) 022 377 2162





Acoustic Rated



Fast & Efficient



Non-Combustible Topping Option



Moisture Resistant



Non-Hazardous



Simple Design



High Value



www.sounddown.co.nz

02 | USE OF THIS GUIDE

Industry Professionals

This Design & Installation guide has been prepared for use by qualified construction professionals to provide the necessary technical information on SoundDown™ PAB and SDP Floor Systems for CLT structural floors in Mass Timber buildings for New Zealand.

Products referred to in this document other than SoundDownTM products are required to be used to meet the specified performance values. New Zealand standards and other manufacturer literature are required to be consulted by all stakeholders to ensure safe and compliant design and construction.

This guide does not provide exhaustive information and as such, projects may require professional advice from qualified subject matter experts to assess the suitability of SoundDown™ Acoustic Floor Systems and detailing for your project. This can include acoustics, structural, waterproofing and fire engineering.

This guide is for designers and installers; professional judgement must be used when referencing this document. Full responsibility for the design and compliance with the New Zealand Building Code (NZBC) and New Zealand Standards, rests with the design professional specifying the product.

SoundDown[™] will not accept any liability for the failure of any other elements of the building which cause a subsequent failure of a SoundDown[™] system.

While all reasonable efforts have been made to ensure the accuracy of information provided, this guide is a guide only. It may be subject to change.

Technical assistance is available at www.sounddown.co.nz.

Designers & Specifiers

As per Clause G6 'Airborne and Impact sound' to the New Zealand Building Code (NZBC), the Sound Transmission Class (STC) and the Impact Insulation Class (IIC) for intertenancy floors shall be no less than 55. SoundDown™ systems have been tested and verified to achieve STC & IIC values well above the minimum requirements of Clause-G6 of the NZBC.

Ensure the information in this design and installation guide is appropriate for the application you are planning and that you undertake specific design and detailing for areas which fall outside the scope of the following contents.

Installers

Ensure that you follow the design detailing and associated product literature provided to you.

High risk areas such as wet areas, penetrations and wall to floor junctions require you to practice care and caution. Waterproofing systems must be installed by an accredited installer.

Please contact SoundDown $^{\text{TM}}$ if you seek further support.

Version Control

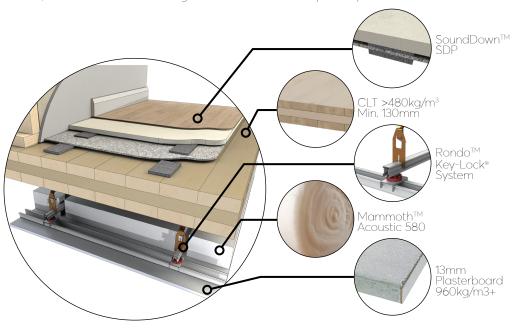
This design and installation guide receives updates and version control is used. The latest issue is always available on the SoundDown™ website. It is the user's responsibility to ensure that the latest version is in use at all times.

03 | INTRODUCING SOUNDDOWN™ ACOUSTIC FLOOR SYSTEMS FOR MASS TIMBER

SoundDownTM offer engineered floor systems to assure premium acoustic performance for buildings in New Zealand utilising Cross-Laminated Timber structural floors over 130mm (8.12in"). There are two types of SoundDownTM Acoustic Floor Systems:

SoundDown™ SDP

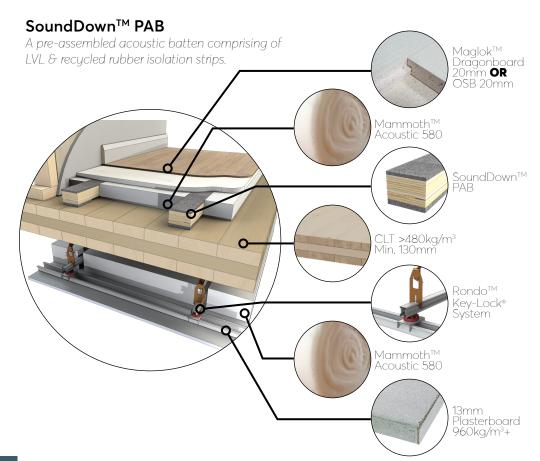
A pre-assembled acoustic sandwich panel comprising of Maglok Dragonboard 20mm, Saveboard 6mm and recycled rubber isolation strips and pads.



System Information

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4

A tailored solution suitable for projects conscious of floor-to-floor heights and speed of installation.



System Information

Total System Depth:	460mm
SoundDown™ Build U	Jp: 80mm
Services Routing:	✓
Topping Durability:	Maglok 🗸
Installation Time:	>3m2/HOUR
IIC (OSB):	57
IIC (Maglok):	60
STC:	66

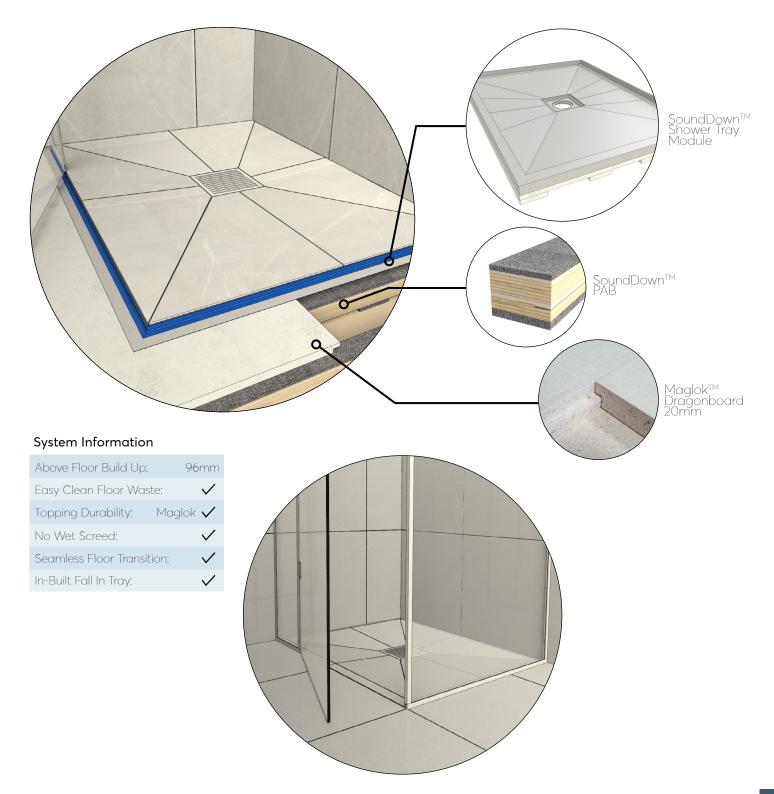
A high performance solution for projects requiring services integration and flexibility of topping layer.

04 | INTRODUCING SOUNDDOWN™ SHOWER TRAY MODULE

SoundDown[™] offer a pre-assembled wet area solution to compliment SoundDown[™] PAB acoustic floor system for buildings in New Zealand utilising Cross-Laminated Timber structural floors. The following system removes the requirement to build up the shower floor with wet screeds, enables a seamless, flush shower entry and reduces onsite labour whilst providing an endorsed, proprietary waterproofing system.

SoundDown™ Shower Tray Module for SoundDown™ PAB

A pre-assembled, acoustically isolated, preformed shower tray mounted on a moisture-resistant Maglok Dragonboard 40m base ready for waterproofing and tiling.



05 | PRODUCTS, ACCESSORIES & TOOLS

SoundDown™ raised acoustic floor systems are feature properiertary and market-available, reputable construction products, available through Trade Supply (tradesupply.co.nz).

D			
Product	 T		
	SoundDown™ PAB A pre-assembled acoustic bat isolation strips, 45x46mm. Available in 1.0m, 1.8m, 2.4m &	tten comprising of LVL & recycled rubber 3.0m lengths.	
Ф	Maglok™ Dragonboard A chloride-free, fibre-reinforced MgO board for use as structural sub-floor featuring a shiplap joint on the long edge, Available in 2000x1200x20mm and 1800x600x20mm. *1800x600x20mm is preferred for SoundDown™ PAB due to fitting batten spacing.		
	Mammoth™ Acoustic 580 A 580gsm, moisture-resistant, non-sag, polyester insulation available in blankets and sections. Available in 600x2500mm roll (2pcs/30m² per pack).		
Ф	Oriented-Strand Board (OSB) 20mm A oriented strand board (OSB) for use as a structural sub-floor featuring a tongue and groove joint on the long edge. SoundDown™recommends the use of either: - IBS™ Eurofloor, Available in 2400x1200x20mm & 3600x1200x20mm Laminex Strandfloor T&G. Available in 2400x1200x20mm & 3600x1200x20mm. *Where used in wet areas; a moisture-resistant OSB is required, H3.1 grade or higher.		
Ф	Plasterboard (13mm) A 960kg/m³+ 13mm high-performance acoustic and fire plasterboard lining is required. SoundDown™ recommends GIB™ Braceline® Noiseline® 13mm Plasterboard. Available in 1200 x 2400 2700 3000 3600.		
	Rondo KEY-LOCK® Suspended Ceiling System A performance, snap-fit acoustically-rated suspended ceiling system. The following products must be used: - Rondo 547 Suspension Bracket - Rondo 2534 Suspension Clip 110mm (To suit TCR 127/128) - Rondo 121 Suspension Rod - Rondo 127 TCR 25mm (*128 TCR 38mm permitted for use) - Rondo STSU Acoustic Isolator - Rondo 129 Furring Channel (28x38mm) - Rondo 272 TCR Joiner		
	system. Refer to www.rondo.co		
	Ardex Waterproofing System A complete waterproofing pro		
	SoundDown™ recommends the use of:		
Ф	Tray Adhesive: Substrate Primer: Waterproofing Tape: Liquid Membrane: Tile Adhesive to Shower Tray: Tile Grout:	Ardex EG 15 epoxy or FG 8 + Grout Booster o l FSDD + Grout Booster	
		Ardex EG 15 epoxy or FG 8 + Grout Boo	

Accesso	ries
	SoundDown [™] SDP Acoustic Isolation Kit A kit of additional isolation strips and pads to reinforce SoundDown [™] SDP panels where cutting has removed pre-assembled isolation material.
	Screws 8G x 50mm Countersunk (CSK) Self-Tapping Screw Dry Areas: Min. Class 3 Galvanised Wet Areas: SS304 or SS316 Required.
	Construction Adhesive Examples: Sika™ Nail Bond Premium, Holdfast Gorilla™ Grip, Bostik™ Alpha Grip & Selleys™ Liquid Nails
	Fire & Acoustic Sealant Examples: Selleys Superfire 810 or similar
	Backing Rod Closed-cell, 10mm backing rod for control joints
	Expansion Joint Filler Self adhesive backed closed-cell foam; 10x50mm Sika Abelflex or similar.
	Insulation Ties/Strap
SoundD	own™ Tools
	SoundDown [™] PAB Setout Tool A prefabricated setout tool, removing onsite measuring and maintaining alignment during installation of SoundDown [™] PAB battens.
Power To	pols
	Simpson Strong-Tie Quik Drive Screw® Driving System An extended, collated, auto-feed screw gun enabling fast fixing of subfloor topping panels. (SoundDown™ PAB Only)
	Cordless Impact Driver / Drill
	Track Saw with Vacuum Dust Extraction (M Class or Higher)
	180mm+ Diamond-Tipped Saw Blade
Hand To	ols
	Gorilla™ Gripper
	Spatula / Joint Knife



All Ardex wet area materials have a 15 year warranty. See website or contact SoundDown™ directly for the latest waterproofing



Denotes interchangeability of products permitted when a professional acoustician, fire engineer or manufacturer has provided a technical specification suitable for your project needs.

06 | SOUNDDOWN™ ACOUSTIC PERFORMANCE

SoundDown[™] have undertaken acoustic system testing in accredited laboratories to guarantee compliance and performance of the systems within this guide. Alternative structural and subfloor options are presented below. Where the option has not been tested; it is advised that the project seek a professional opinion from an acoustician.

SOUNDDOWN™ PAB ACOUSTIC MATRIX | CLT Specification & Topping

SUBFLOOR TOP- PING	MAGLOK™ DRAGONBOARD		0	SB
	STC	IIC	STC	IIC
C3/130mm	66 ¹	60¹	66 ¹	57 ¹
C5/140mm	66 ²	61 ²	66 ²	58 ²
C5/170mm	67 ²	63 ²	67 ²	60 ²
C5/200mm	68 ²	65 ²	68 ²	62 ²
C5/220mm	68 ²	66 ²	68 ²	63 ²
C7/240mm	69 ²	67 ²	69 ²	642
C7/260mm	69 ²	67 ²	69 ²	64 ²
C7/310mm	70 ²	68 ²	70 ²	65 ²

¹ Tested by University of Auckland, Reports available from www.sounddown.co.nz

SOUNDDOWN™ SDP ACOUSTIC MATRIX | CLT Specification

SUBFLOOR TOP- PING	MAGLOK™ DRAGONBOARD		
	STC	IIC	
C3/130mm	64 ¹	62 ¹	
C5/140mm	64 ²	63 ²	
C5/170mm	65 ²	66²	
C5/200mm	66 ²	68 ²	
C5/220mm	66 ²	69 ²	
C7/240mm	67 ²	70 ²	
C7/260mm	67 ²	70 ²	
C7/310mm	68 ²	73 ²	

¹ Tested by University of Auckland, Reports available from www.sounddown.co.nz

² Estimate by professional; acoustic modelling or advice required for project use.



All System combinations feature the same system depth, insulation and ceiling specification.

This table provides information relating to changing the structural CLT thickness, number of CLT lamellas and in the case of using SoundDown™, the subfloor topping material.

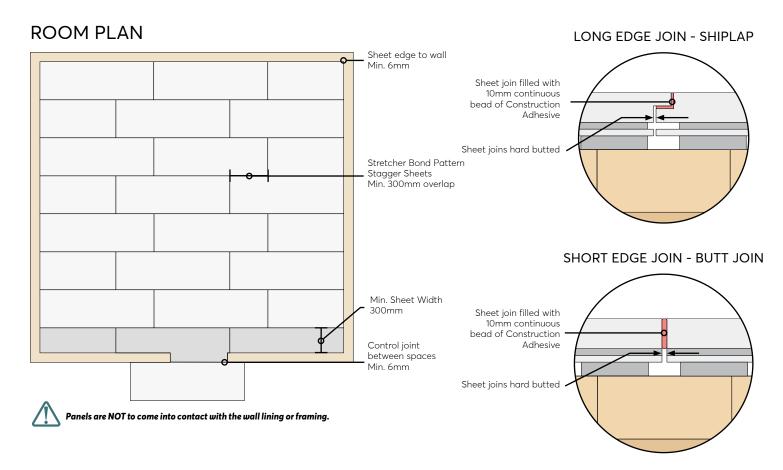
Acoustic Considerations

The sound insulation of CLT building elements relies on appropriate design and construction detailing. The compliant rating can be effectively achieved by SoundDown™ floor assemblies incorporated in mass timber (CLT) floor structure, resilient layers, air gaps, and absorbent insulation within cavities.

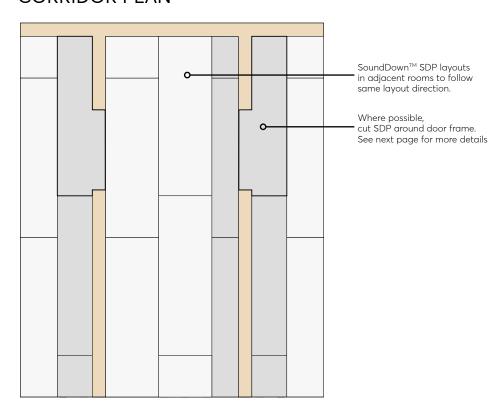
Designers must detail to avoid 'flanking' sound transmission via alternative paths e.g. through air gaps, services ducts or adjoining elements which are common to two tenancies. There are significant interdependencies between acoustic solutions which require them to be considered together at an early stage. SoundDown™ recommend discontinuous floor systems between spaces to ensure impact sound is not transmitted through flanking paths.

² Estimate by professional; acoustic modelling or advice required for project use.

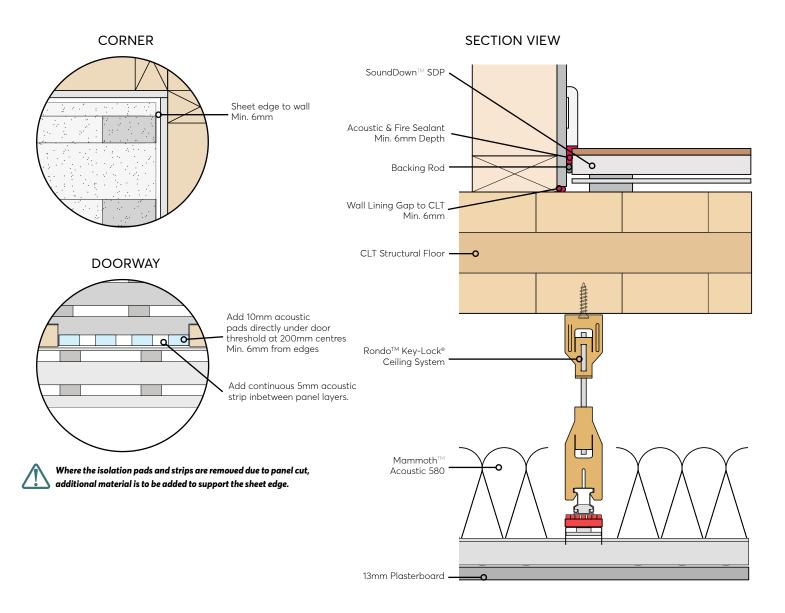
07 | SOUNDDOWN™ SDP | LAYOUT



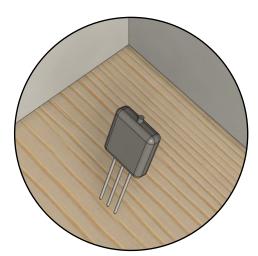
CORRIDOR PLAN



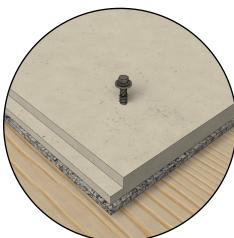
08 | SOUNDDOWN™ SDP | CONSTRUCTION DETAILS



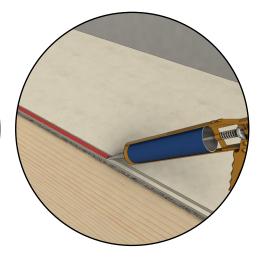
09 | SOUNDDOWN™ SDP | INSTALLATION



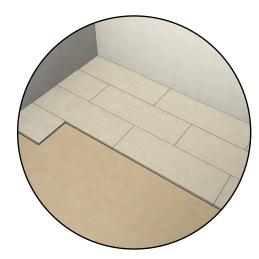
- Ensure CLT is free of debris, dust, nails and screws.
- Check CLT moisture content, must be under <16% before installation.
- If the CLT has been coated, install after desired curing time has lapsed.
- Wall lining to be installed before installing SoundDown™ SDP Floor System, and not touching the CLT structural floor.



- The first panel may be secured in two locations using 8Gx50mm hex head screws at diagonally opposing sides. This is to ensure the panel does not move while butting up the next panels.
- The screws MUST be removed after installation and holes filled with fire and acoustic sealant through the entire panel depth.



- Measure room layout, calculate panel sizing (considering minimum cut panel size), ensure panels can be positioned to allow for minimum stretcher-bond overlap. See Construction Details.
- Start installation from the furthest corner from the door opening.
 - Apply a continuous bead of the specified Construction Adhesive into the joint and scrape excess.
- Ensure Construction Adhesive is applied at the butt-join where sheet ends meet.



 Follow layout to front of the area. Panel width cuts may be required with additional SoundDown™ 10mm Acoustic Pads to be placed under the SDP board. See Construction Details for further information on cut SDP panel detailing.

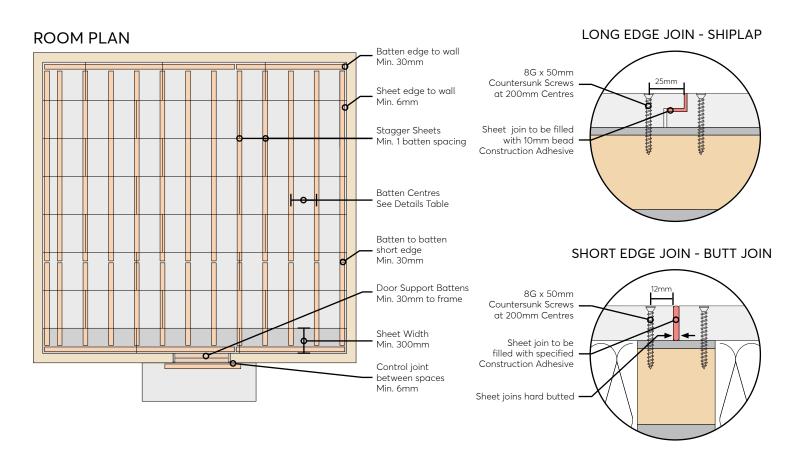


Where cutting of panels leads to removal of inbuilt isolation strip, add a continuous length of 5mm isolation material to the inside edge of panel, using a generous amount of construction adhesive.

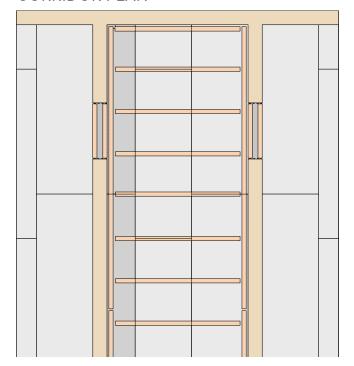


- Add 10mm isolation pads at 250mm centres to the underside of the panel along the cut edge, using a generous amount of construction adhesive.
- Panel edge to be clamped firmly until the isolation strips are securely adhered

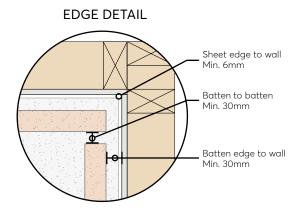
10 | SOUNDDOWN™ PAB | LAYOUT



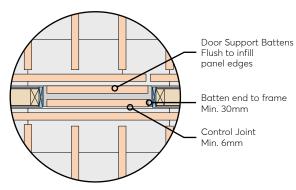
CORRIDOR PLAN



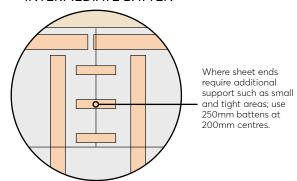
11 | SOUNDDOWN™ PAB | CONSTRUCTION DETAILS

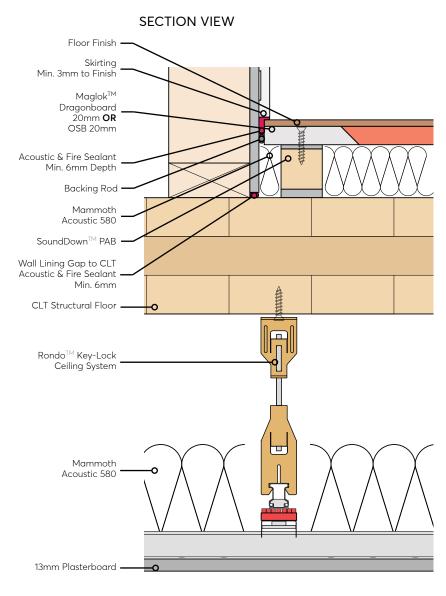


DOOR TRANSITION DETAIL



INTERMEDIATE BATTEN





BATTEN SPACING

SoundDown™ PAB must be installed at a maximum of 450mm centres. The options listed below are to minimise panel cutting and wastage.

Topping Type	MAGLOK™ DRAGONBOARD	OSB	
Topping Panel Size	1800x600x20mm	2400x1200x20mm	2400x1200x20mm
SoundDown™ PAB 45x45mm	450mm Centres	400mm Centres	400mm Centres



Panels & Battens are NOT to come into contact with the wall lining or framing.

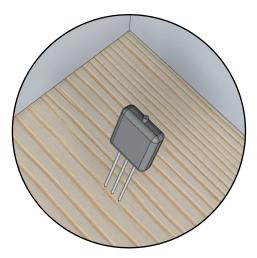
FIXING SPACING

	MAGLOK™ DRAGONBOARD		0:	SB
SCREWS	FASTENER EDGE DISTANCE	FASTENER SPACING	FASTENER EDGE DISTANCE	FASTENER SPACING
	Shiplap Edge - 25mm Butt Edge - 15mm	Sheet Edge - 300mm Sheet Centre - 400mm		Sheet Edge - 150mm Sheet Centre - 300mm



SoundDown™ recommends the use of Simpson Strong-Tie Quik Drive® Screw Driving System or similar

12 | SOUNDDOWN™ PAB | INSTALLATION







- Ensure CLT is free of debris, dust, nails and screws.
- Check CLT moisture content, must be under <16% before installation.
- If the CLT has been coated, install after desired curing time has lapsed.
- Wall lining to be installed before installing SoundDown™ Acoustic Batten Floor System, and not touching the CLT structural floor.
- Measure room layout, calculate panel sizing (considering minimum cut panel size) and ensure battens can support sheet edges adequately. Use PAB Setout Tool to set wall distance (30mm).
- Start installing the SoundDown $^{\text{TM}}$ Acoustic Battens around the perimeter, completing the doorway detail, followed by the room centre. See Construction Details for batten edge distances and spacing.
- Use SoundDown™Setout Tool to accurately align and hold battens at 450mm centres for Topping Panel installation.
- Where a PAB batten is cut and isolation pads are removed, 10mm isolation pads must be glued to the batten to support the batten ends.
- Do NOT mechanically fix the battens to the CLT structural floor. The Acoustic Battens are designed to 'float' over the floor.



Install the specified the Structural Topping sub-floor panel at the furthest corner from the doorway

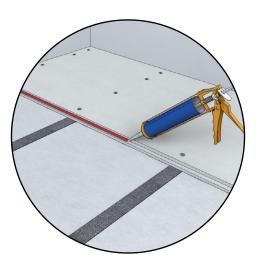
or exit path; checking the correct

fasteners and fastener spacing is

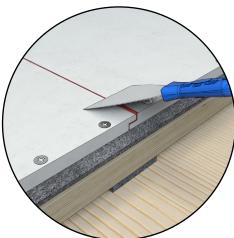
used the for specified substrate.

See Construction Details for more

information. Use chalkline to mark batten centres on topping panel before progressing.



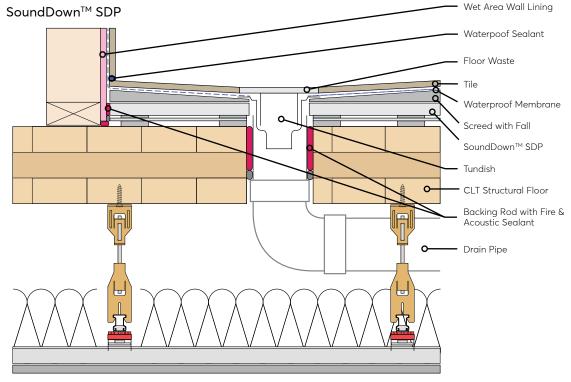
- Apply a continuous bead of the specified Construction Adhesive into the joint.
- Ensure Construction Adhesive is applied at the butt-join where sheet ends meet.

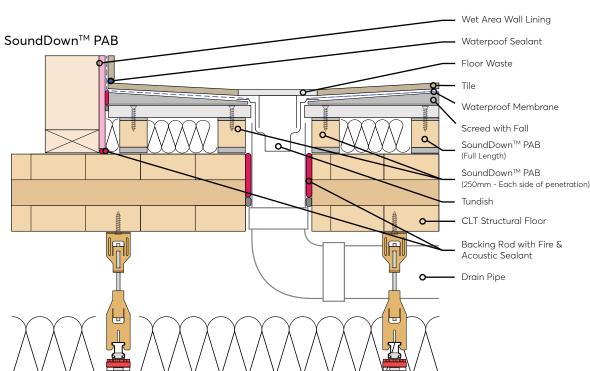


- Using a joint knife, scrape excess adhesive.
- In wet areas, cover fastener heads with a waterproof acrylic sealant after room has been completed. Refer to Wet Area section for further information.

13 | WET AREAS & PENETRATIONS

SoundDown[™] Floor Systems utilise a common wet area and penetration detail for insitu bathrooms. If your project features the use of bathroom pods or other pre-fabricated elements, it is the designers responsibility to coordinate design and detailing with all parties to ensure a compliant and secure waterproof details.





SoundDown TM Systems

- Penetrations must be only 10mm larger than required pipe/ducting and filled with fire & acoustic sealant.
- PAB and SDP require additional min. 250mm supports at either side of the penetrations.

$SoundDown^{\mathsf{TM}}\ PAB\ Sysem$

- Only Maglok
 Dragonboard in wet areas.
- Stainless steel screws only to be used in wet areas.
- Fastener heads to be covered in waterproof sealant, scrape flush to floor

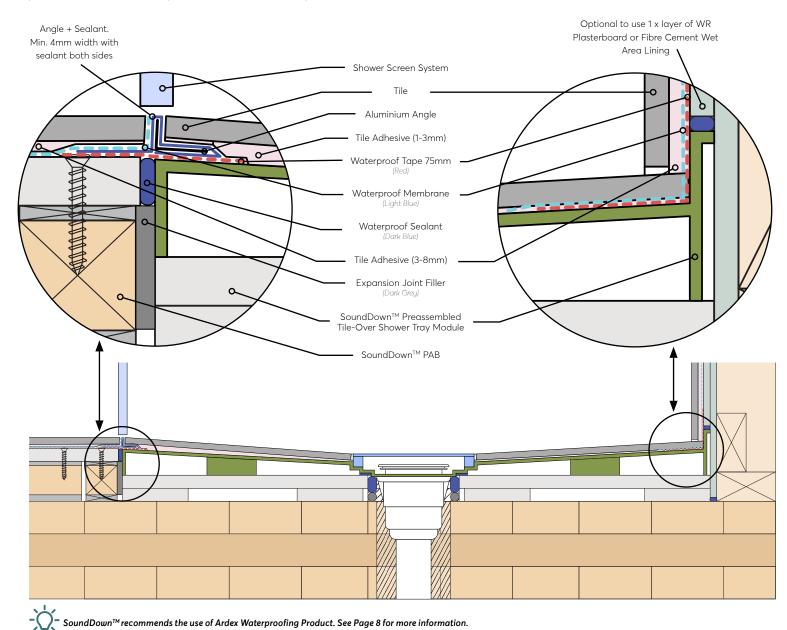
Important Information

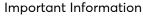
 Fire & Acoustic performance can be adversely affected by penetrations; it is the responsibility of the designer to coordinate with 3rd parties to ensure penetrations and products used are compliant and meet your requirements.

14 | SOUNDDOWN™ PAB | SHOWER TRAY MODULE DETAILS

SoundDown TM PAB acoustic floor system can accommodate a tileable shower tray to achieve a flush shower entry threshold for insitu bathrooms installations.

If your project features the use of shower trays, it is the designers responsibility to coordinate design and detailing with all parties to ensure a compliant and secure waterproof details.



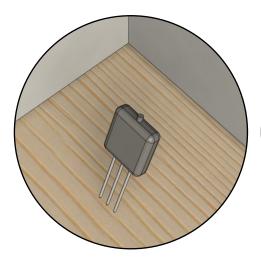


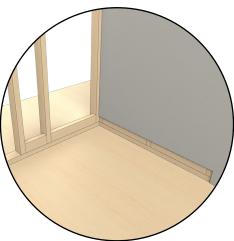
- Where a CLT wall is specified, the detail remains the same as listed above.
- By partnering with Ardex, SoundDown[™] offer a warranted solution. Where an alternate waterproofing system is specified; consult the manufacturer to confirm suitability of products and warranty terms and conditions.
- Fire & Acoustic performance can be adversely affected by penetrations; it is the responsibility of the designer to coordinate with 3rd parties to ensure penetrations and products used are compliant and meet your requirements.

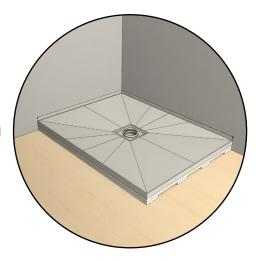
SoundDown™ PAB System

- Penetrations must be a maximum of 10mm larger than required pipe/ducting and filled with backing rod & waterproof sealant.
- Stainless steel screws only to be used in wet areas.
- Fastener heads to be covered in waterproof sealant, scrape flush to floor.

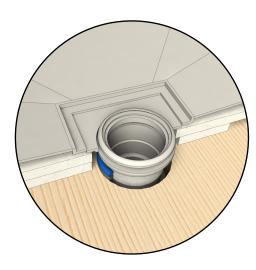
15 | SOUNDDOWN™ SHOWER TRAY MODULE | INSTALLATION



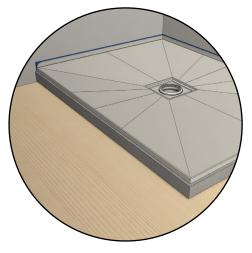




- Ensure CLT is free of debris, dust, nails and screws.
- Check CLT moisture content, must be under <16% before installation.
- If the CLT has been coated, install after desired curing time has lapsed.
- Wall lining to be installed before installing SoundDown™ Shower Tray Module.
- If adjoining wall is stud frame, additional studs and turned noggins on base plate are required to support shower tray module width and length.
- If adjoining wall is CLT, additional furring channels are required.
- Measure shower tray and cut out notches in wet area lining to allow for shower tray module upstands, allow for a tight fit between shower tray module and wet area lining.
- Position Shower Tray Module, ensuring penetration is aligned to the drain waste of the Shower Tray Module.
- Check penetrations in the CLT floor are no bigger than 10mm than the Easy Clean Waste Drain outlet.
- Use an epoxy adhesive to glue back of Shower Tray Module to wall base
- Do NOT mechanically fix Shower Tray Module to the CLT structural floor. The Shower Tray Module is designed to 'float' over the floor.

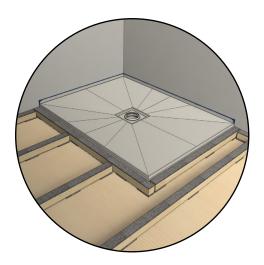




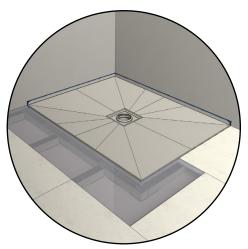


- Install the Easy Clean Waste with extended drain pipe into the penetration, seal the penetration with 10mm backing rod and filling penetration gap with waterproof sealant.
- The project may require an alternate detail such as use of waterproof elastic collars or other; follow the 3rd party manufacturer's recommendations.
- Apply a continuous 6-8mm bead of the waterproof sealant at the joint between Shower Tray Module and Wet Area Lining.
- Fix a 10x50mm Expansion Joint Filler to the Shower Tray Module, ensure there is a 20mm distance from top of the shower tray.

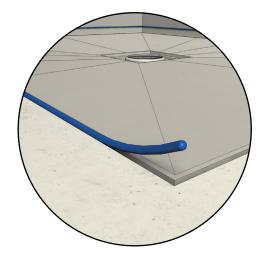
15 | SOUNDDOWN™ SHOWER TRAY MODULE | INSTALLATION



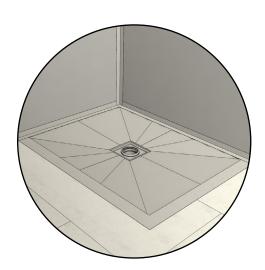
- Prepare PAB battens to suit length and width of Shower Tray Module; see construction details for dimensions.
- Install PAB battens hard up against Expansion Joint Filler.



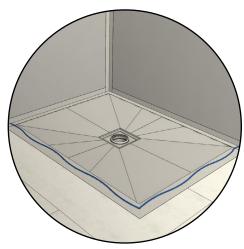
- Install Maglok Dragonboard 20mm; see pages 13 to 15 for construction details and installation procedure.
- Allow for 6mm gap between Maglok Dragonboard panels and Shower Tray Module.



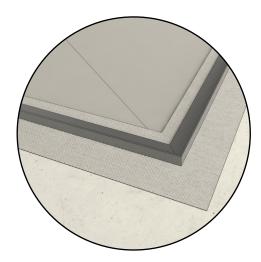
Seal the gap between the
Shower Tray Module and Maglok
Dragonboard entirely with Flexible
Joint Sealant until it reaches the
Expansion Joint Filler.



- Start waterproofing on the floor by applying a 75mm waterproofing tape along the Shower Tray Module and Maglok Dragongboard junction, ensuring equally distant on both sides of the joint.
- After the floor is taped, Tape the floor-to-wall junctions followed by internal wall corners.

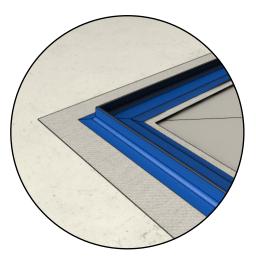


- Measure and mark location for aluminium angle.
- Apply a continuous 6-8mm bead of the waterproof sealant

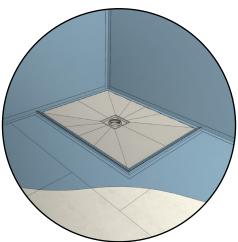


- Place aluminium angles where upstand is flush with the Shower Tray Module edge.
- Seal aluminium angle join at the corner.

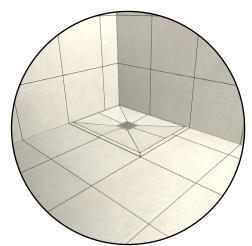
15 | SOUNDDOWN™ SHOWER TRAY MODULE | INSTALLATION



Apply Waterproof Sealant
 generously to create a bond
 breaker on both sides of the
 aluminium angle, tool the sealant to
 create a min. 3-5mm radius.



- Prepare and prime all floors and walls as directed by waterproofing specification.
- Apply liquid waterproof membrane to walls and floors, overlapping the waterproofing tape and aluminium angle by 50mm toward the drain waste.
- Further waterproofing of Shower Tray module is not required.



- Use waterproof sealant instead of grout between the main floor and the Shower Tray Module tile joint.
- Use an epoxy-based tile adhesive for tiling to the Shower Tray Module
- Continue standard tile installation practice.

16 | FURTHER INFORMATION

Ceiling Specification & Installation

The acoustic performance of SoundDown[™] systems are dependant on specifying the correct ceiling system from Rondo. For further information on ceiling specification and installation, visit www.rondo.co.nz.

Handling & Storage

To avoid damage, all SoundDown™ building products should be stored with edges and corners of the product protected from chipping. SoundDown™ building products must be installed in a dry state and protected from weather during transport and storage. The product must be laid flat under cover on a smooth level surface clear of the ground to avoid exposure to water, moisture, etc.

Prohibited Uses

SoundDown™ Floor Systems are not to be used in external applications.

Safe Working Practices

Before starting work, read the relevant Product Safety Data Sheets (SDS).

Take all necessary steps to ensure your safety and the safety of others:

- Ensure adequate ventilation or mechanical dust extraction when cutting or drilling
- Ensure the boards are well supported when cutting and nailing
- Wear appropriate safety equipment, clothing and footwear
- Use all tools in accordance with relevant instruction manuals
- Plan and monitor a safe approach for working at height; select and use the right equipment
- Clear the work area of any obstruction before work starts.

For further information refer to:

- WorkSafe. [July 2018] Small Construction Sites, the Absolutely Essential Health and Safety Toolkit.
- WorkSafe. [December 2016] Health and Safety at Work, Quick Reference Guide.

These documents are available at www.worksafe.govt.nz.

Warranty

Refer to 3rd party warranties and specifications for products by others.

Limitations

SoundDown[™] only warrants the products that are manufactured by SoundDown[™] exclusively. All other 3rd party products cited in this manual carrying their own conditions of use and warranties. SoundDown[™] may supply literature that is correct at the time but may change without notice. It is advised to seek warranty documentation from the manufacturer before specifying and designing your floor system.

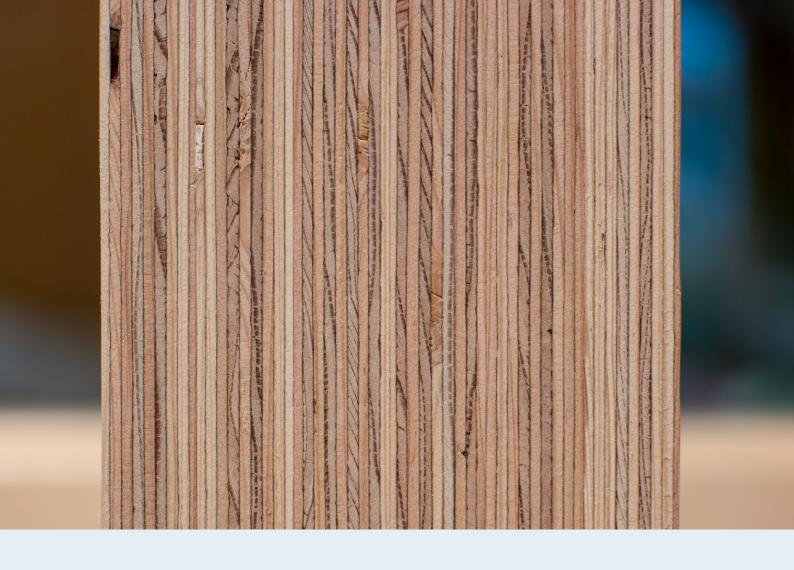
System Variations

SoundDownTM recommends the use of the products listed on page 7. The solutions presented in this guide have been acoustically tested in accredited laboratories. If your project requires the use of an alternate product, SoundDownTM are cannot guarantee performance claims of an untested system.

In all cases where a variation is required, professional advice must be obtained.

Branding, Trademarks & Registrations

The brands, trademarks and registrations of 3rd party manufacturers and suppliers cited in this manual are correct at the time of publication.



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