

SoundDown Solo System **INSTALLATION GUIDE**

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General and product information

PURPOSE	This guide relates to the installation of the SoundDown Solo System.
IMPORTANT DOCUMENTS	<p>This guide must be read in conjunction with:</p> <ul style="list-style-type: none">› the SoundDown Solo System pass™› the SoundDown Solo System specification guide› the SoundDown Solo System details› the SoundDown Solo System Installation record› the SoundDown Solo System care and maintenance guide› the SoundDown Solo System warranty› NASH Standard, Part 2: May 2019 Light Steel Framed Buildings› NZS 3604: Timber-framed buildings.
SKILLS REQUIRED	This guide is suitable for use by a licensed building practitioner licensed to the relevant class or by a practitioner who will be supervised by a licensed building practitioner licensed to the relevant class or deemed LBP.
FOR MORE HELP	<p>Technical assistance is available at www.sounddown.co.nz.</p> <p>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.</p>
FOR OUR WARRANTY	Refer to www.sounddown.co.nz .
PRODUCT DESCRIPTION	<p>SoundDown Solo is a floor/ceiling system that provides STC rating of 65 dB and an IIC rating of 56 dB and incorporates a FRR 60/60/60 (USG Boral CT60.1B) fire rated ceiling, so the floor structure is excluded from the fire cell. SoundDown Solo is installed over a timber or lightweight steel floor structure.</p> <p>SoundDown Solo comprises:</p> <ul style="list-style-type: none">› 2 layers of 13 mm thick USG Boral Firestop®, fixed with Gypsum bugle head screws and sealed with Firesound™ sealant› 28 mm Rondo 129 Furring Channel› Rondo STPC Acoustic Mounts fixed with four 8g x 25 mm screws› 240 mm x 45 mm x 1.55 gauge, galvanised steel SteelHaus EZYJOIST› R1.9 90 mm thick Mammoth™ multi polyester insulation› 6 mm x 45 mm SoundDown joist silencer› 20 mm thick Maglok™ DragonBoard®› 8 g 50 mm class 3 galvanised substrate screw fixing› 2.5 mm Jacobsens Tarkett Traffic 250 vinyl.
SCOPE AND LIMITATIONS	For scope of use, limitations, conditions and statement of building code compliance, refer to the SoundDown Solo Flooring System pass™.

Pre-installation

HEALTH AND SAFETY 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 timber and steel are well supported when cutting and fixing
- › 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
- › designate a disposal area for all sharp metal off-cuts
- › 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.

HANDLING AND STORAGE

Correct handling and storage of SoundDown Solo components is critical for best performance, ease of use and warranty adherence.

Handling

Handle all component products with care.

Products must be handled in accordance with component product manufacturer or supplier requirements.

- › Maglok™ Dragonboard® installation refer to www.maglok.co.nz
- › Mammoth downloads refer to www.mammoth.co.nz
- › Rondo Acoustic Assemblies refer to www.rondo.co.nz
- › Rondo KeyLock Concealed Suspended Ceiling System refer to www.rondo.co.nz
- › USG Boral Plasterboard refer to www.usgboral.com/en_nz

In general, ensure USG Boral Firestop® and Maglok™ Dragonboard® products are delivered dry, unmarked and undamaged from freight and handling. The boards should be lifted off the truck by hoist or hand. Slings may be used if the sheet products are on a pallet. All sheets should be inspected upon delivery.

Take care handling the boards to avoid damage to edges and surfaces.

Storage

Store products in a dry and sheltered environment. Stack sheets flat, dry and clear off the ground by 100 mm and supported on dry, clean timber bearers at a maximum of 900 mm centres.

TOOLS AND EQUIPMENT REQUIRED

Install SoundDown Solo using standard carpentry tools and equipment.

Use tools in accordance with good trade practice and supplier's instructions.

Use a skill saw with a fine-tooth tungsten carbide blade for accurate cutting of the Maglock™ Dragonboard®.

Installation

PREPARATION

Step 1

Building consent documentation

Access and view the building consent documentation.

Ensure NZS 3604:2011 and NASH Standard, Part 2: May 2019 Light Steel Framed Buildings are available for reference.

Step 2

Framing substrate

Ensure the framing is straight and true and within framing tolerances as described in section 2 and Table 2.1 of NZS 3604:2011, or section 2.5 and Appendix A of NASH Standard, Part 2: May 2019 Light Steel Framed Buildings.

Check the moisture content of timber framing. It must be less than 20 % at the time of SoundDown Solo installation.

INSTALLATION

Step 1

Details

Access and view the SoundDown Solo Flooring System details in the building consent documentation or access the relevant detail from SoundDown refer to www.sounddown.co.nz.

Step 2

Install joists

Spacing of SteelHaus EZYJOIST must be in accordance with the building consent or SteelHaus fixing requirements, if not specified in the building consent.

Fix joists using an impact drill.

Ensure all joists are fixed on all support walls with the connections specified in the building consent.

Step 3

Install flooring

Install flooring board

Ensure that a SoundDown joist silencer is placed on the top of each SteelHaus EZYJOIST. When fixing the Maglok™ Dragonboard® ensure that the silencer is not displaced.

Install Maglok™ Dragonboard® MGsO flooring board:

- › lay sheets perpendicular to joists with the shiplap edge spanning across the joist, ensuring 1200 mm ends of sheets are joined on the centre of the joist
- › glue shiplaps using expanding polyurethane glue
- › fix with Simpson Strong-Tie 10 g x 50 mm collated screws.

Refer to www.maglok.co.nz.

Install vinyl

Install Jacobsens Tarkett Traffic 250 vinyl sheets:

- › apply a water-based primer and mortar using a trowel to ensure the floor substrate has a smooth finish
- › apply vinyl using a glue that is compatible with MGsO flooring board.

Refer to www.maglok.co.nz and www.jacobsens.co.nz.

Step 4

Install insulation

Install Mammoth™ RI.9 Polyester insulation snugly between the joists. A wire support to the underside of the insulation maybe required to ensure it remains in position in accordance with Mammoth™ technical information.

Refer to www.mammoth.co.nz.

Step 5

Install ceiling

Install acoustic mounts

Fix Rondo STPC Acoustic Mount to joist using four 8 g x 25 mm screws at a maximum spacing of 900 mm in accordance with Rondo technical information.

Refer to www.rondo.co.nz.

Using a laser level, adjust the STPC Acoustic Mounts to the required ceiling height and plane.

Install furring channels

Install Rondo I29 Furring Channel onto the clip system of the STPC Acoustic Mount at maximum spacing of 600 mm centres. The Rondo I29 Furring Channel can be joined using a Rondo section jointer where required.

Install Rondo wall trims to all wall/ceiling junctions in the same plane as the Rondo I29 furring.

Refer to www.rondo.co.nz.

Install plasterboard

Fix USG Boral Firestop® in accordance with USG Boral technical information,

- › install USG Boral Firestop® at right angles to the Rondo I29 Furring Channel
- › ensure sheet ends are supported over a Rondo member
- › offset the second layer of Firestop® sheet joints by a minimum of 200 mm
- › seal the perimeter of the board with Firesound® sealant
- › use 6 g x 25 mm (min) steel screws to first layer of 13 mm Firestop®
- › use 6 g x 40 mm (min) steel screws to second layer of 13 mm Firestop®
- › plasterboard fasteners are to be at 200 mm max centres in field and 150 mm max centres at sheet ends and butt joints
- › all penetrations must be sealed
- › for installation of lighting systems refer to the building consent
- › stop all joints (face layer only) with a 3-coat plaster jointing system.

Ensure that all jointing and plaster finishes are in accordance with USG Boral requirements.

Refer to www.usgboral.com/en_nz and www.usgboral.com/en_nz.

COMPLETION

Check to ensure all components are installed correctly and in accordance with SoundDown Solo Flooring System requirements.

Complete the SoundDown Solo Flooring System installation record. [\[link\]](#)

Ensure all information is available for the building owner to maintain the SoundDown Solo Flooring System.
