

SoundDown Duo System **SPECIFICATION GUIDE**

November 2021 | V1.0



1. GENERAL

1.1 GENERAL

This specification relates to the installation of the SoundDown Duo Flooring System.

1.2 RELATED WORK

The installation of the SoundDown Duo Flooring System relies on:

- › Timber or lightweight steel framing that complies with the NZ Building Code and is designed and installed in accordance with the building consent and construction drawings and:
 - section 6 and 11 of NZS 3604:2011; or
 - NASH Standard Part 2: May 2019 Light Steel Framed Buildings; or
 - is designed to AS/NZS 1170 Structural design actions or NZS 3404 Parts 1 and 2:1997 Steel Structures Standard.
- › In the case of an existing building, the designer and installer having satisfied themselves that the existing building is suitable for the intended building work.

1.3 DOCUMENTS

Refer to the following manufacturer's documents:

- › the SoundDown Duo System pass™
- › the SoundDown Duo System Specification (this document)
- › the SoundDown Duo System details
- › the SoundDown Duo System Installation guide
- › the SoundDown System Care and Maintenance guide
- › the SoundDown System Warranty.

Refer to the following related documents:

- › NASH Standard Part 2: May 2019 Light Steel Frame Buildings
- › AS/NZS 1170 Structural design actions
- › NZS 3604: Timber-framed buildings
- › NZS 3404 Parts 1 and 2:1997 Steel Structures Standard.

1.4 GENERAL DESIGN CONSIDERATIONS

The system must be specified in accordance with the SoundDown Duo System Design guide and details.

2. PRODUCTS

2.1 PRODUCT DESCRIPTION

SoundDown Duo is a two-layer floor/ceiling system that achieves an STC rating of 64 dB, an IIC rating of 62 dB and incorporates a 60/60/60 fire rated ceiling; the floor structure is excluded from the fire cell. SoundDown Duo is installed in conjunction with a timber or lightweight steel structural frame and timber joists.

SoundDown Duo comprises:

- Maglok™ DragonBoard® Flooring - 20 mm, fixed with 8 g x 50 mm class 3 galvanised substrate screw fixing fixed at 300 mm centres.
- SoundDown acoustic flooring battens - seated on rubber deckchairs set at 450 mm centres.
- Vermiculite lightweight acoustic granules - 70 mm deep. Vermiculite is a phyllosilicate mineral that is an environmentally friendly, low-density granule. It is absorbent and non-combustible, contributing to the acoustic performance.
- Maglok™ DragonBoard® - 20 mm, fixed with Maglok™ floor substrate fixing to timber joists at 200 mm centres.
- SG8 timber joist - 190 mm x 45 mm set at 450 mm centres or lightweight steel framing of equivalent stiffness set at 450 mm.
- Rondo STPC ceiling mounts assembled with acoustic clips
- Mammoth™ polyester insulation R1.8/900 gsm.
- Rondo 129 Furring Channel steel ceiling battens - 28 mm.
- USG Firestop - 2 x 13 mm thick board screwed to steel battens, sealed with USG Firesound®.

2.2 ASSEMBLY COMPONENTS

The following assembly components are required:

- Maglok™ DragonBoard®
- SoundDown acoustic flooring battens
- Vermiculite lightweight acoustic
- Timber joists or lightweight steel framing
- Rondo STPC ceiling mounts
- Mammoth™ polyester insulation R1.8/900 gsm
- Rondo 129 Furring Channel steel ceiling battens - 28 mm
- USG Firestop - (13 mm thick)
- USG Firesound®.

2.3 ACCESSORY COMPONENTS

The following accessory components are required:

- 6 g x 25 mm minimum steel screws
- 6 g x 40 mm minimum steel screws
- Maglok™ floor substrate screw fixings
- Selleys Fireblock PSA fire and acoustic sealant
- 8 x 45 mm acoustic foam tape
- 8 g x 50 mm class 3 galvanised substrate screws.

2.4 SUBSTITUTIONS

Substitutions are not permitted to any of the specified components listed in this section.

3. EXECUTION

-
- 3.1 QUALIFICATIONS** The installation of the SoundDown Duo System must be carried out by a competent and experienced builder.
-
- 3.2 RESTRICTED BUILDING WORK** Where Restricted Building Work applies, the installer shall be a Licensed Building Practitioner (LBP) or be supervised by an LBP with the relevant license class.
-
- 3.3 CHECK RELATED WORK** Confirm the timber or lightweight steel framing has been constructed in accordance with the building consent and construction drawings or, in the case of an existing building, that the existing building is suitable for the intended building work.
-

4. APPLICATION

-
- 4.1 GENERAL** The installation of the SoundDown Duo System must be completed in accordance with the instructions in the SoundDown Duo Installation guide, the relevant details and the building consent documentation.
All conditions contained in the building consent documentation must be met.
-
- 4.2 RECEIPT OF PRODUCT** Ensure that all product supplied is:
- free of defects at the time of delivery and
 - handled and stored in accordance with all of the relevant manufacturer or supplier's requirements and instructions.
-

5. COMPLETION

-
- 5.1 QUALITY CHECK** Check to ensure all components are installed correctly and in accordance with the SoundDown Duo System requirements.
-
- 5.2 WARRANTIES** For warranty information refer to www.sounddown.co.nz.
-
- 5.3 INFORMATION FOR CARE AND MAINTENANCE** The system requires minimal care and maintenance to maintain the performance and appearance of the system. Refer to the SoundDown System care and maintenance guide.
-

6. PROJECT SPECIFIC SELECTIONS

PROJECT DETAILS

Project address

Lot/DP number

Date of plans

Purpose of plans

Description of building work and reference to drawing numbers

DOCUMENTS SUPPLIED (CHECK WHICH APPLIES)

- | | |
|---|--|
| <input type="checkbox"/> SoundDown Duo System pass™ | <input type="checkbox"/> SoundDown Duo System Installation Guide |
| <input type="checkbox"/> SoundDown System Installation Record | <input type="checkbox"/> SoundDown System Care and Maintenance Guide |
| <input type="checkbox"/> SoundDown System Warranty | |

DESIGNER CONFIRMATION (CHECK WHICH APPLIES)

Building

Framing

- | | |
|--|--|
| <input type="checkbox"/> Timber | <input type="checkbox"/> Lightweight steel |
| <input type="checkbox"/> Existing building assessed at equivalent stiffness to NZS 3604:2011 | <input type="checkbox"/> Load bearing support walls identified |
| <input type="checkbox"/> Other (state what was used) | |

ASSEMBLY COMPONENT SELECTIONS

- 13 mm thick USG Boral Firestop®
- USG Firesound®
- Rondo 129 Furring Channel – 28 mm
- Rondo STPC Acoustic Mounts
- R1.8/900 gsm Mammoth™ polyester insulation

- 20 mm thick Maglok™ DragonBoard®
- SoundDown acoustic battens seated of rubber deckchairs
- Vermiculite lightweight acoustic granules.

ACCESSORY COMPONENT SELECTIONS

- 6 g x 25 mm minimum steel screws
- 6 g x 40 mm minimum steel screws
- Maglok™ floor substrate screw fixings
- Selleys Fireblock PSA fire and acoustic sealant
- 8 x 45 mm acoustic foam tape
- 8 g 50 mm class 3 galvanised substrate screws.
- Other (specify)

DETAILS SELECTION

- SoundDown – Sound rated IT Flooring System 01 Typical floor detail
- SoundDown – Sound rated IT Flooring System 02 Typical floor set out
- SoundDown – Sound rated IT Flooring System 03 Typical sheet set out
- SoundDown – Sound rated IT Flooring System 04 Typical tiling detail
- SoundDown – Sound rated IT Flooring System 05 Typical internal doorway
- SoundDown – Sound rated IT Flooring System 06 External doorway section
- SoundDown – Sound rated IT Flooring System 07 Sheet junction
- SoundDown – Sound rated IT Flooring System 08 Pipe penetration
- SoundDown – Sound rated IT Flooring System 09 Timber floating floor detail.