



remagin

TECHNICAL MANUAL

Medium-Rise



Version 1
www.remagin.world

Introduction

This technical manual presents a collection of representative details for light gauge steel construction in typical medium rise multi occupancy buildings. The details included are intended to serve as general guidelines and indicative examples for designing and constructing with the Remagin Medium-Rise System.

It is important to note that these details are representative in nature and are Remagin's recommended approach to common typical interfaces.

The performance of any construction detail can be influenced by a variety of factors including site conditions, material variations, and specific project requirements. Therefore, while these details provide a useful reference point, they should be adapted and verified by the project Principal Design team to ensure they meet the unique demands of each project.

By using this manual, users acknowledge that the provided details are typical and indicative, and it is their responsibility to conduct the necessary evaluations and modifications to suit their specific project needs.

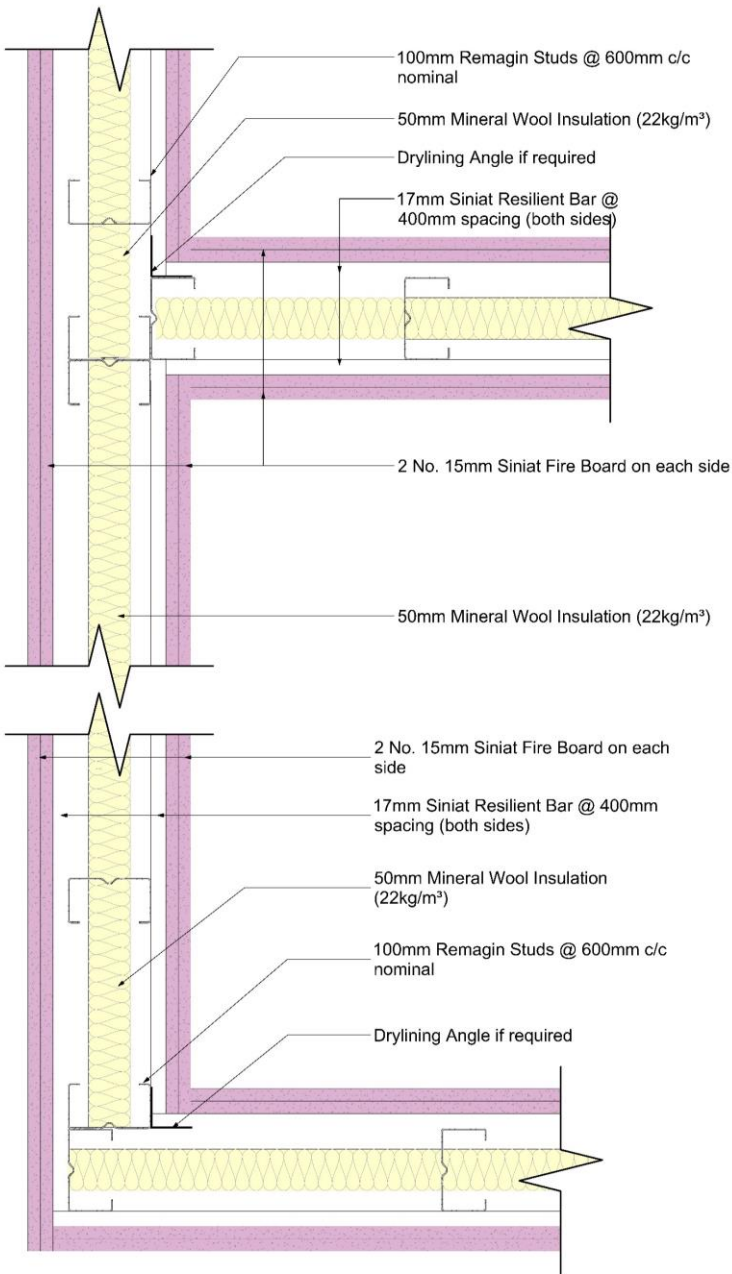
The systems and their various interfaces shown in this Manual are:

- **SWR-015** – Typical Single Stud Loadbearing Separating Wall
- **IW-001** – Typical Single Stud Internal Loadbearing Wall
- **EW-001** – Typical Single Stud External Loadbearing Wall
- **SigDeck100** – Composite Floor System

These systems are representative of a typical \leq REI60 structure and are generally suitable for buildings up to 6–7 storeys in height, subject to confirmation by the Principal Design team.

Summaries of each system's individual components and performance is included within the Appendix.

Diagram shows generic construction details. Final construction details may vary for individual projects with input from an appropriate designer and verification by a specialist third party to determine project-specific performance expectations.



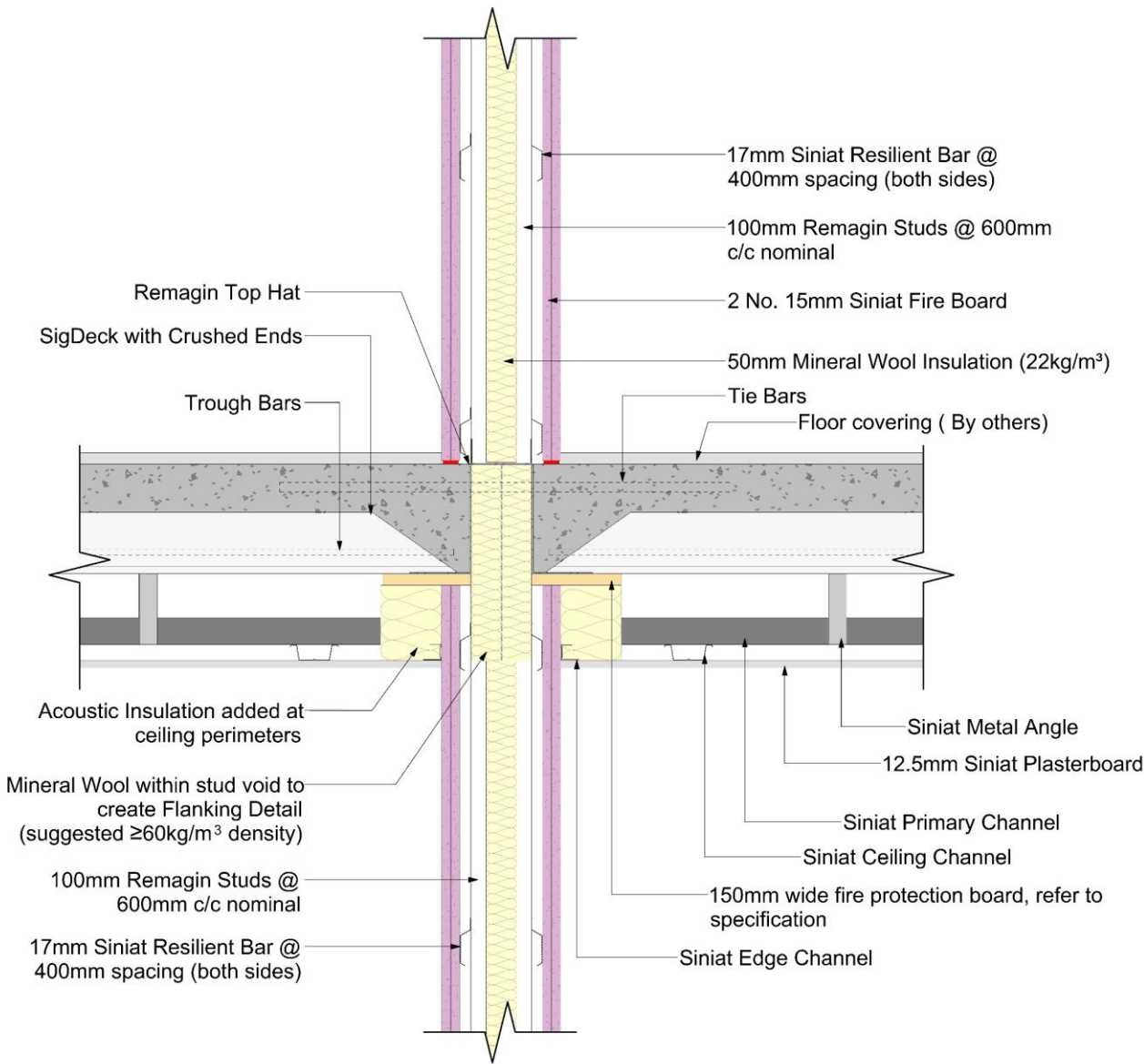
SWR-015 SEPARATING WALL SYSTEM
TEE & 90° JUNCTION



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	SCALE	NTS	CHECKED	CW
		ALL DIMENSIONS IN mm	APPROVED	CW
				REVISION A

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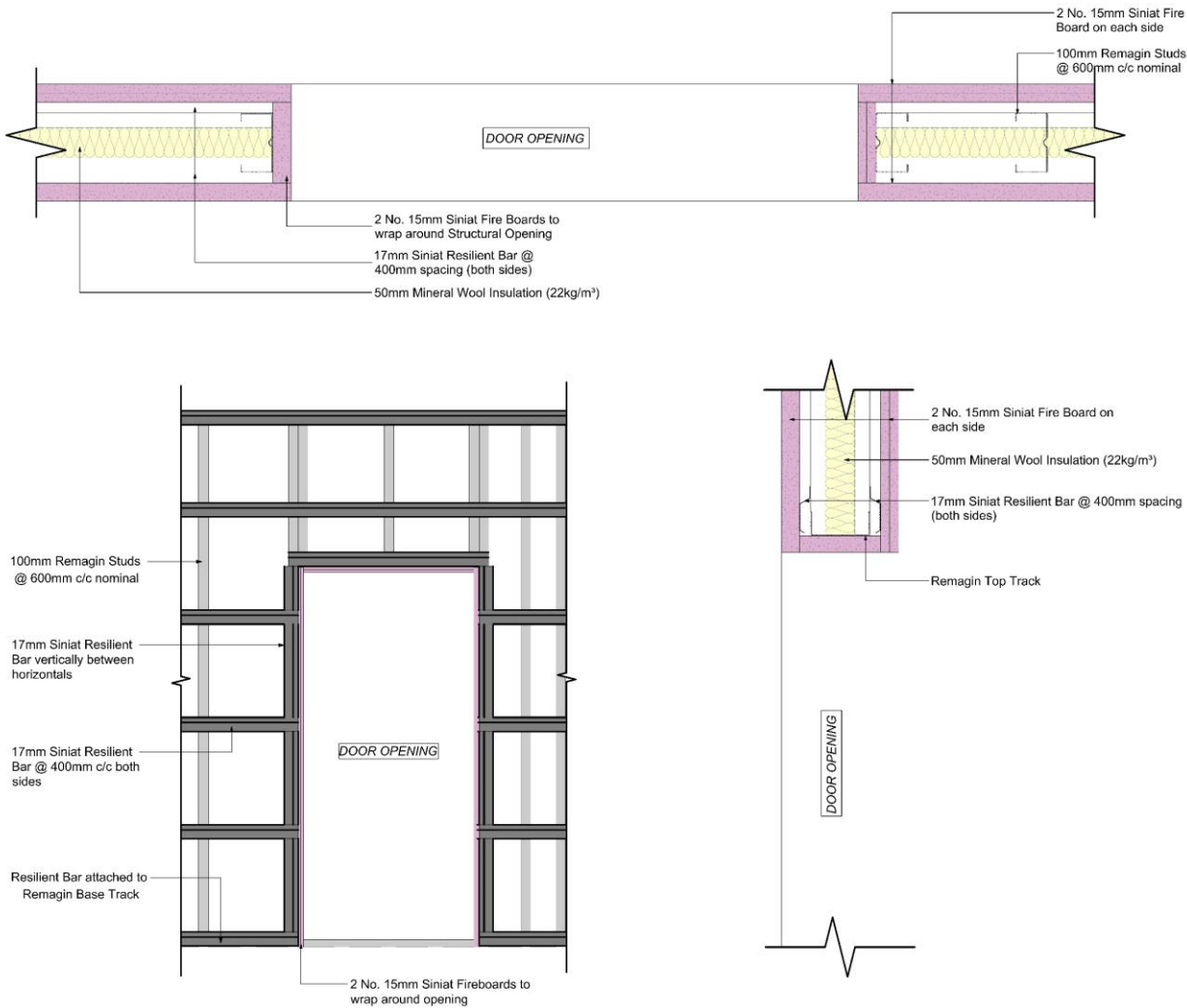
SWR-015 SEPARATING WALL SYSTEM
SIGDECK INTERFACE



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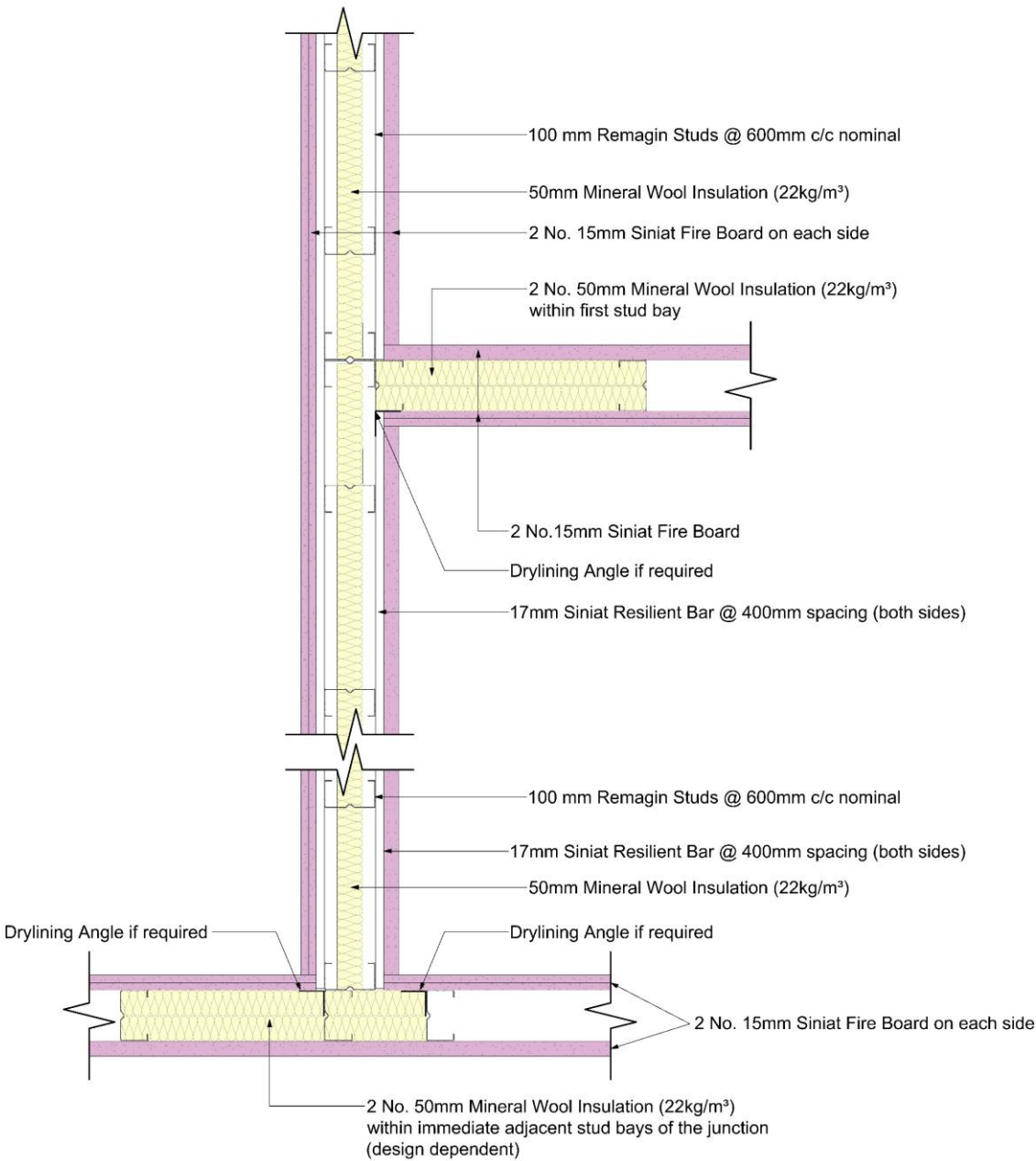
SWR-015 SEPARATING WALL SYSTEM
DOOR DETAIL



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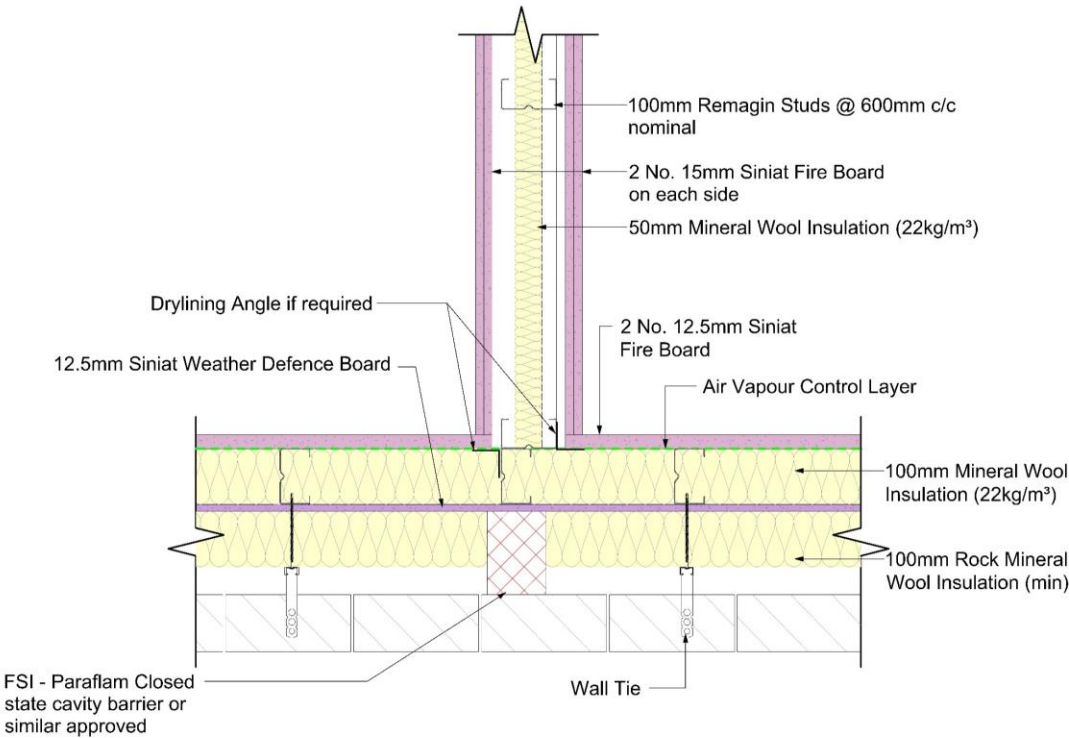
SWR-015 SEPARATING WALL SYSTEM
IW-001 TEE JUNCTIONS



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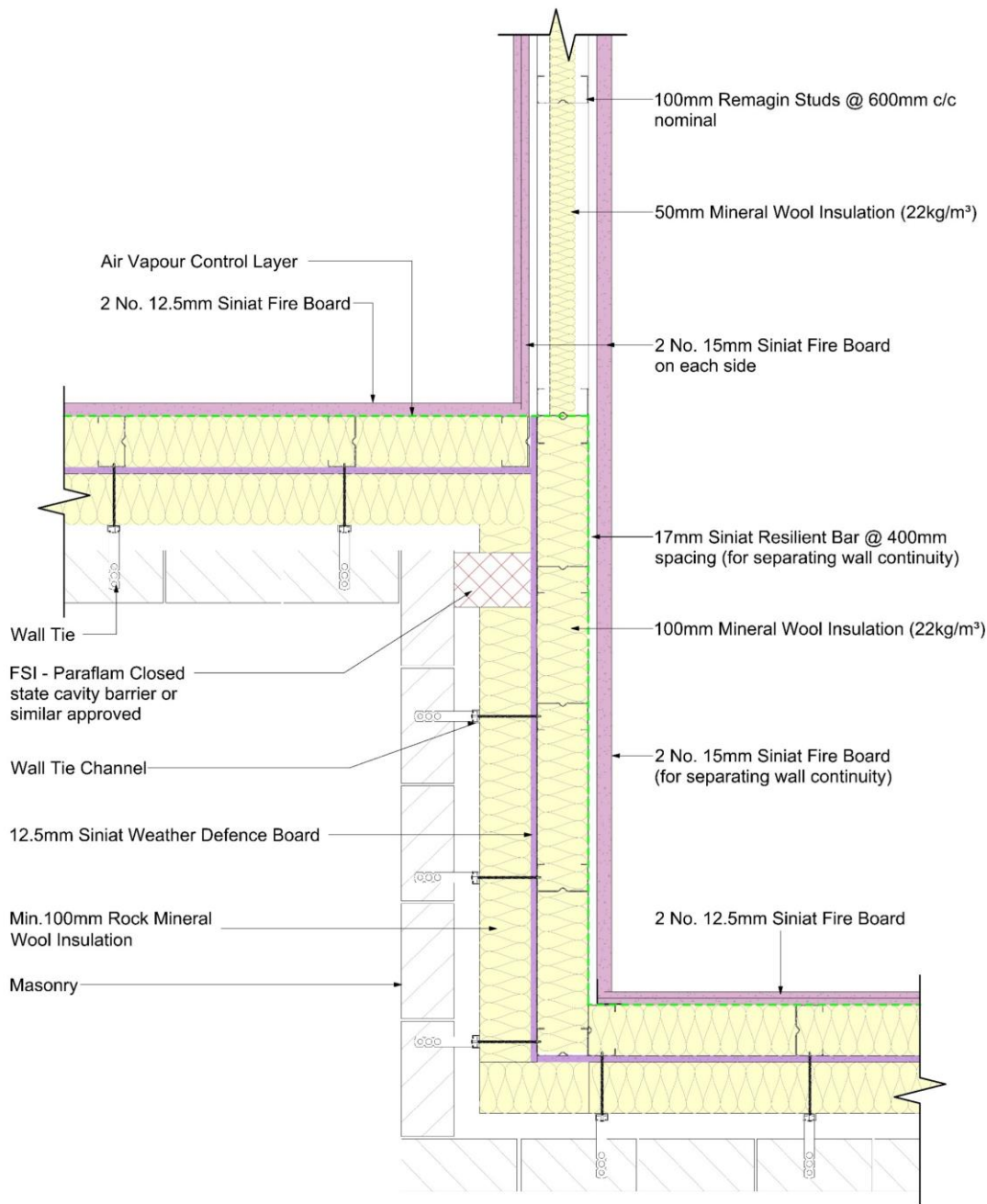
SWR-015 SEPARATING WALL SYSTEM
EW-001 TEE JUNCTION



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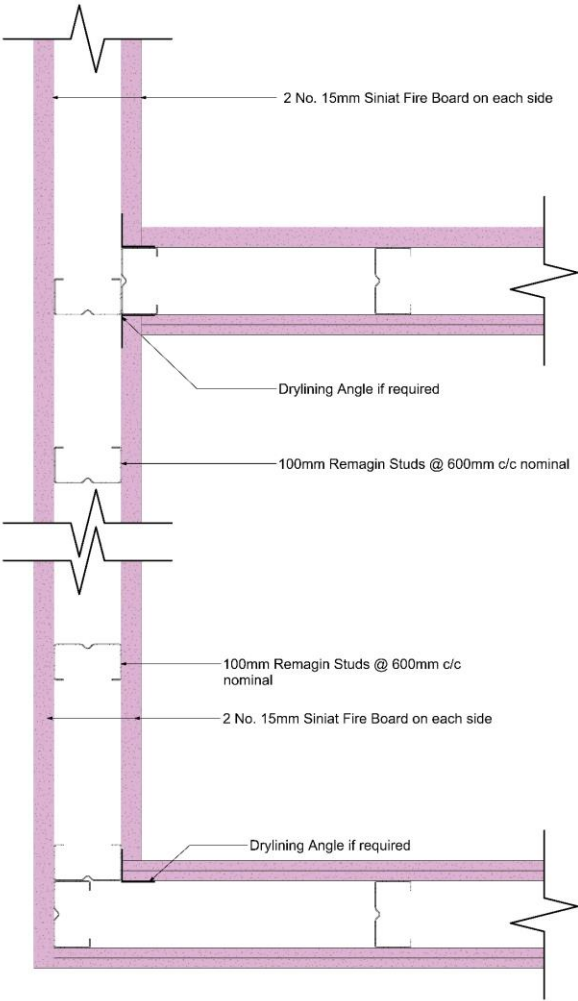
SWR-015 SEPARATING WALL SYSTEM
EW-001 CORNER PLAN



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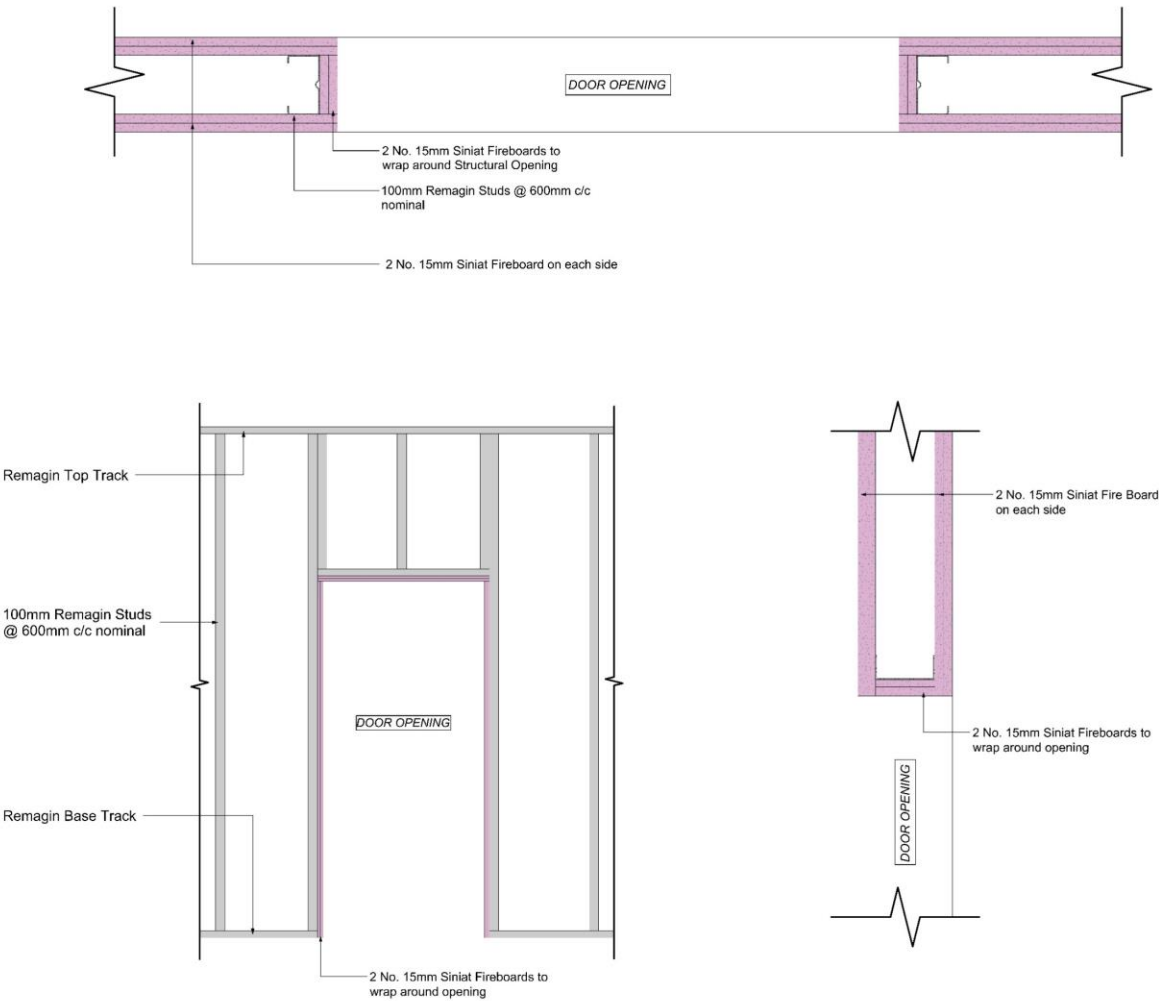
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IW-001 TEE & 90 DEGREE JUNCTIONS	remagin		REV.	DATE	NATURE OF REV.	REV. BY	APP'D
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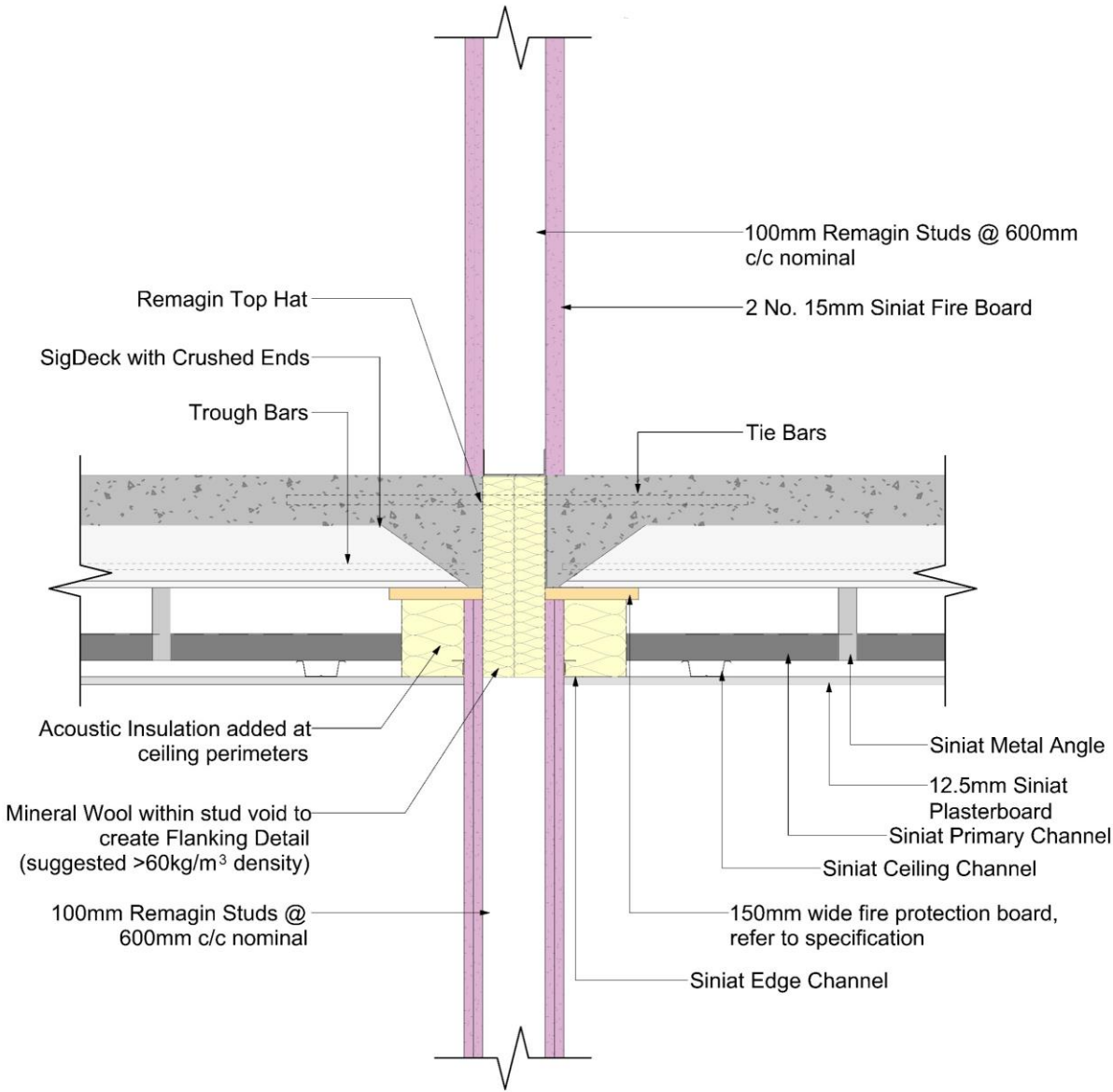
IW-001
DOOR DETAIL



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IW-001
SIGDECK INTERFACE

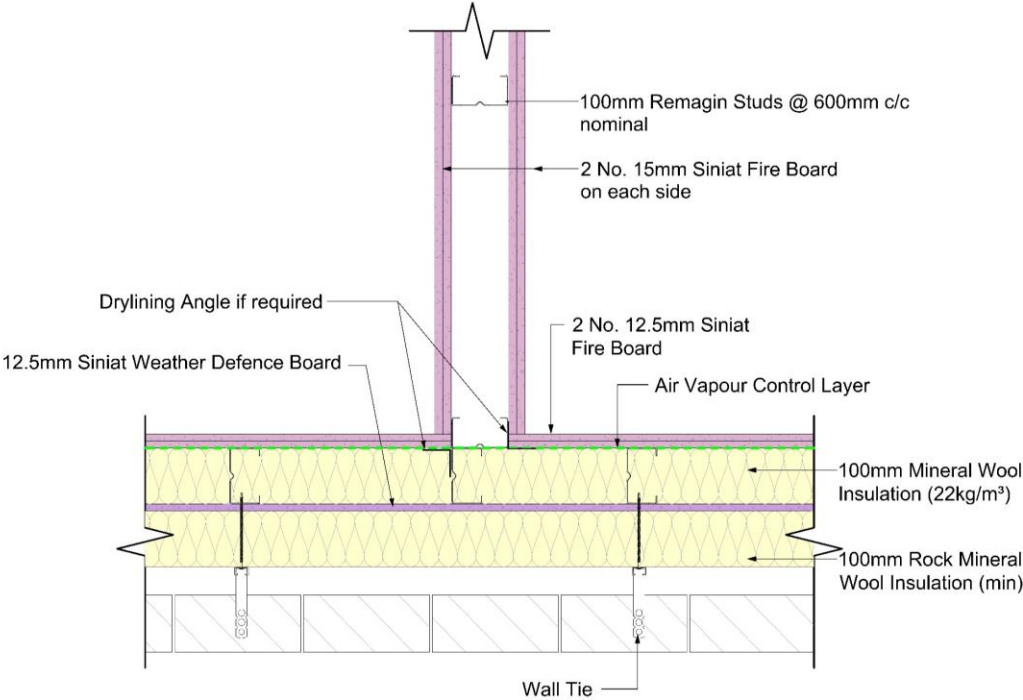


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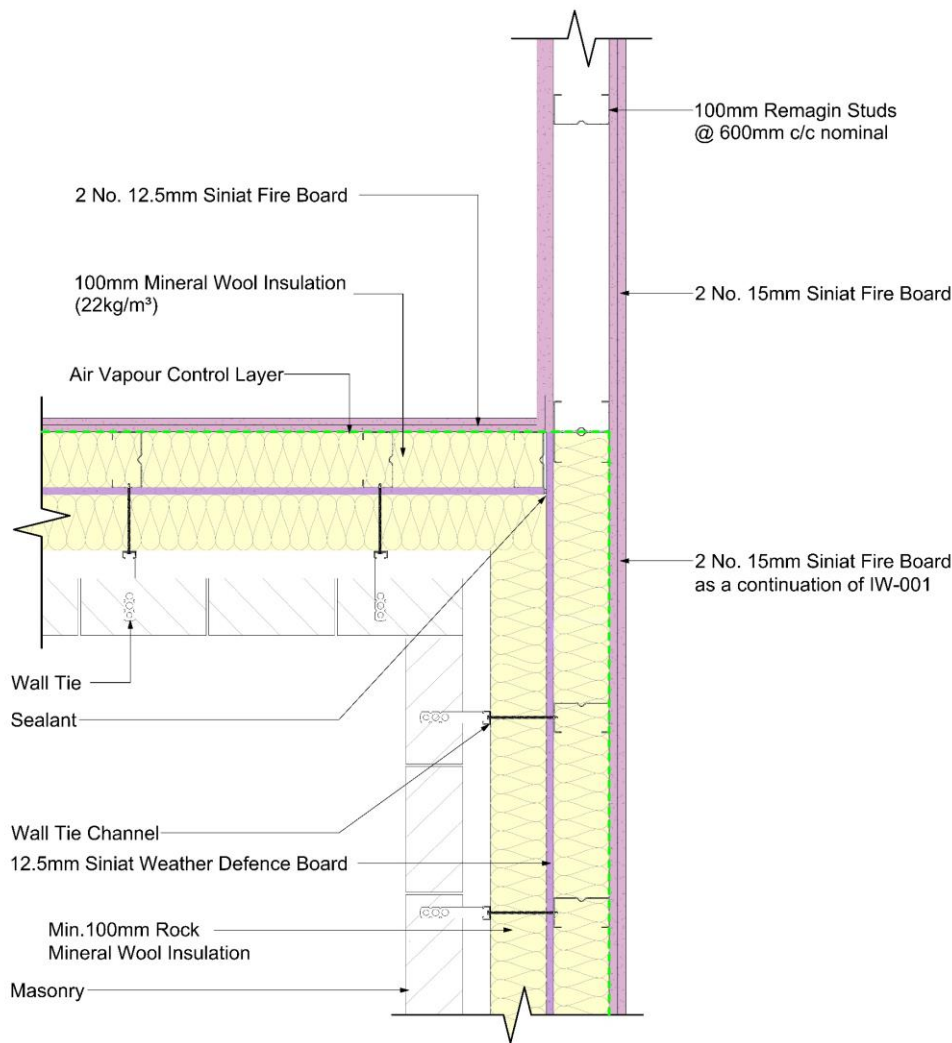


IW-001 & EW-001
TEE JUNCTION



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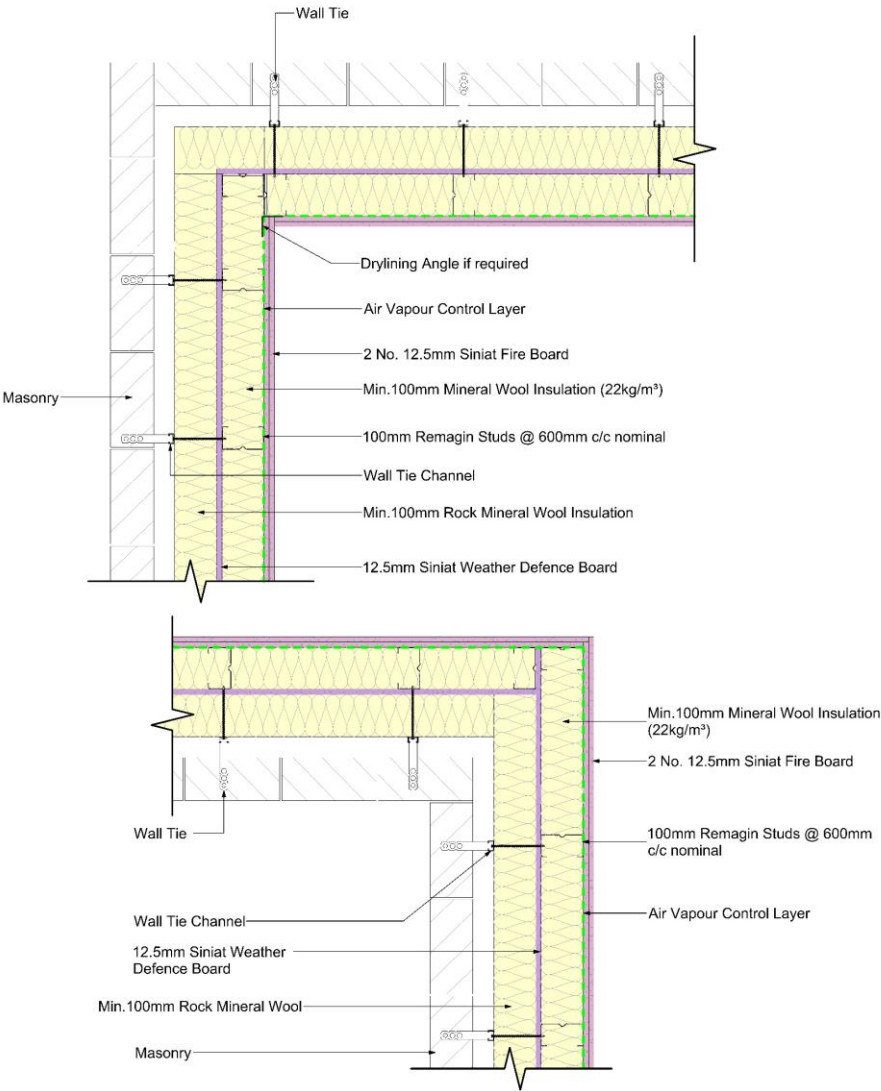
IW-001 & EW-001
CORNER



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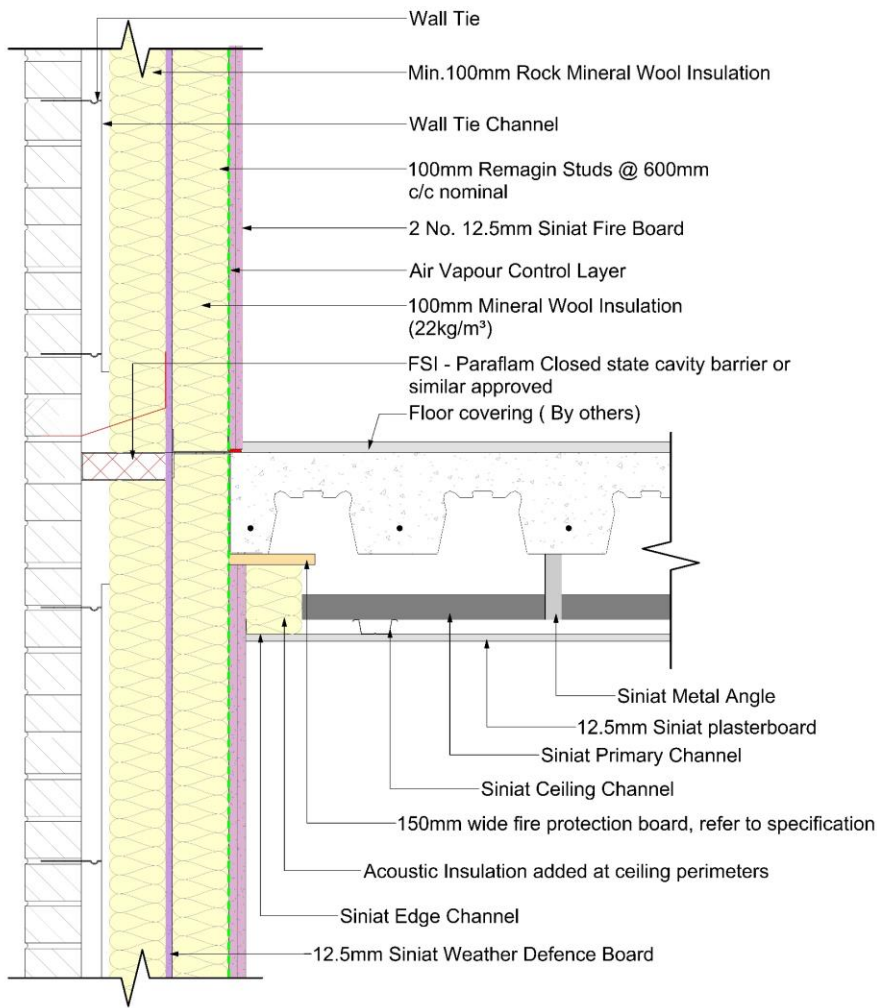


EW-001 INSIDE & OUTSIDE CORNERS



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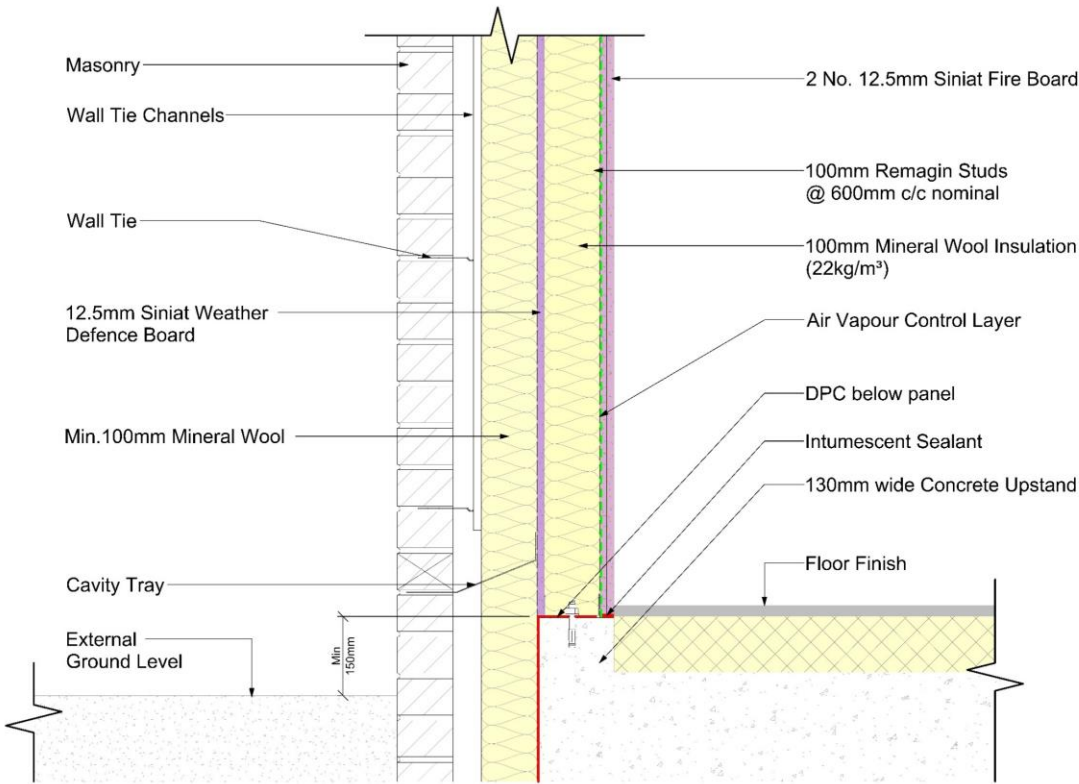
EW-001 & SIGDECK INTERFACE



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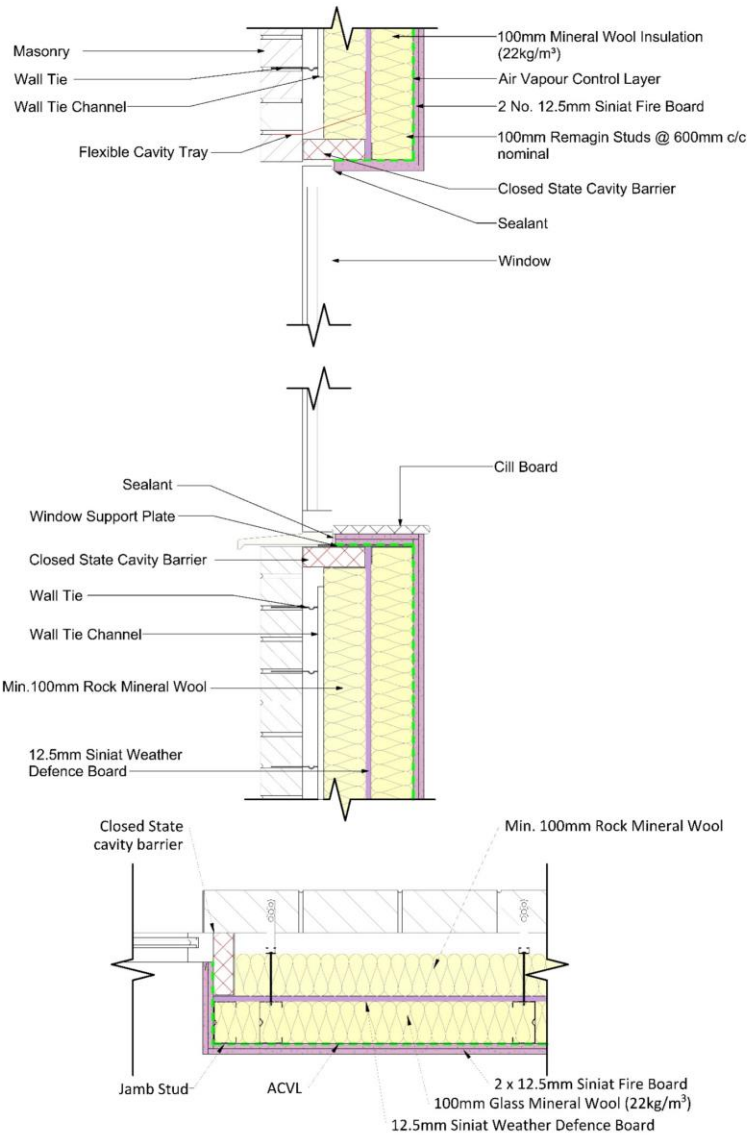
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EW-001 BASE DETAIL	<div>   </div>	REV.	DATE	NATURE OF REV.	REV. BY	APP'D
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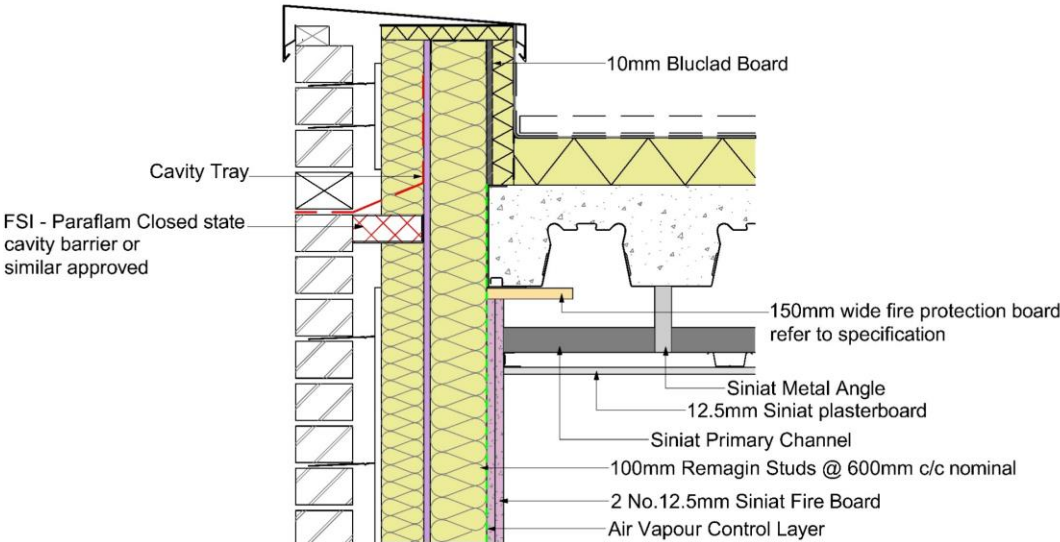
EW-001 & WINDOW INTERFACE
HEAD, CILL, & JAMB



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EW-001 PARAPET INTERFACE



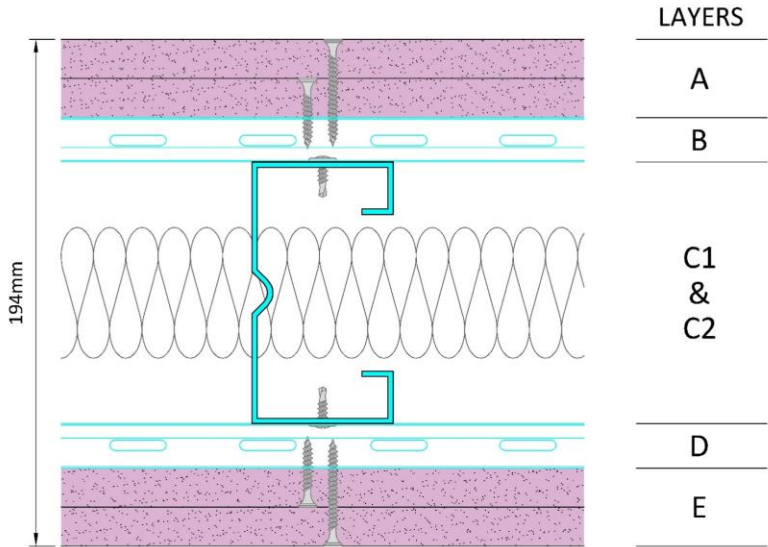
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Appendix A

System Substantiation Sheets

SYSTEM SUBSTANTIATION SHEET



SYSTEM PERFORMANCE	
Fire Resistance (EN 1365-1:2012)	REI 90
Sound Insulation ($R_{w}(C_{tr})$ dB)	59(-6) dB (Estimated, +/-3dB)
Thermal Performance (W/m^2K)	NA
FIRE INFORMATION	
Test Reference	TR20240322-004508
Test Lab & Date	UKTC 13/06/2024
Tested Load (kN/stud)	16.7
θ_{ref} (°C)	@60 minutes: 244, @90 minutes: 577
SYSTEM LAYERS	
Layer A	2 x 15mm Siniat Fire Board
Layer B	Siniat RBD3000 Resilient Bars at 400mm c/c
Layer C1	100x53x1.2mm C Stud (100SN12) at 600mm c/c
Layer C2	50mm Mineral Wool (~22kg/m ³)
Layer D	Siniat RBD3000 Resilient Bars at 400mm c/c
Layer E	2 x 15mm Siniat Fire Board
FIXINGS	
Plasterboard Fixings	25mm Self-Tapping Screws at 600mm c/c (1st layer) 42mm Self-Tapping Screws at 300mm c/c (2nd layer)
Resilient Bar Fixings	12mm Wafer Head Self-Drilling Screws

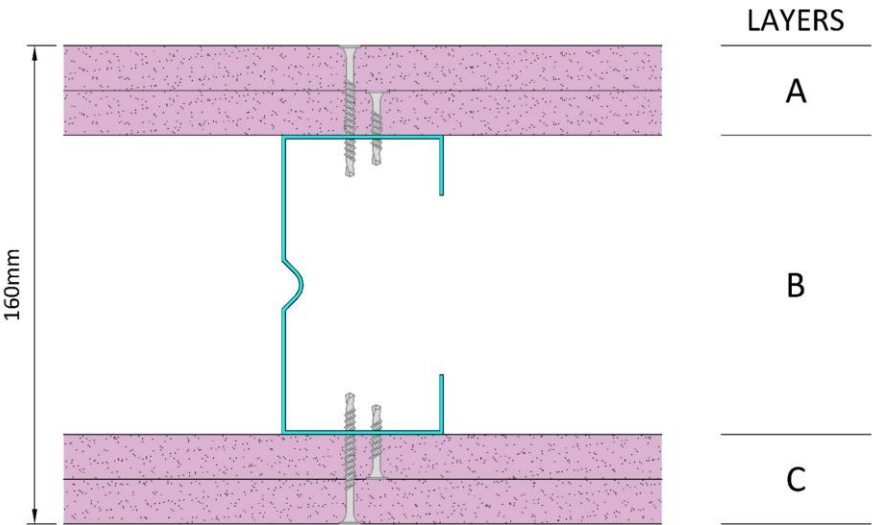
SWR-015
SEPARATING WALL SYSTEM



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SYSTEM SUBSTANTIATION SHEET



SYSTEM PERFORMANCE	
Fire Resistance (EN 1365-1:2012)	REI 90
Sound Insulation ($R_w(C_{50})$ dB)	50(-7) dB (Estimated, +/-3dB)
Thermal Performance (W/m^2K)	NA

FIRE INFORMATION	
Test Reference	TR20240603-000809
Test Lab & Date	UKTC 05/09/2024
Tested Load (kN/stud)	16.7
θ_{ref} (°C)	@60 minutes: 243, @90 minutes: 402

SYSTEM LAYERS	
Layer A	2 x 15mm Siniat Fire Board
Layer B	100x53x1.2mm C Stud (100SN12) at 600mm c/c
Layer C	2 x 15mm Siniat Fire Board

FIXINGS & ACCESSORIES	
Plasterboard Fixings	25mm Self-Drilling Screws at 600mm c/c (1st layer) 42mm Self-Drilling Screws at 300mm c/c (2nd layer)
Horizontal Board Joints	No additional joint reinforcement required

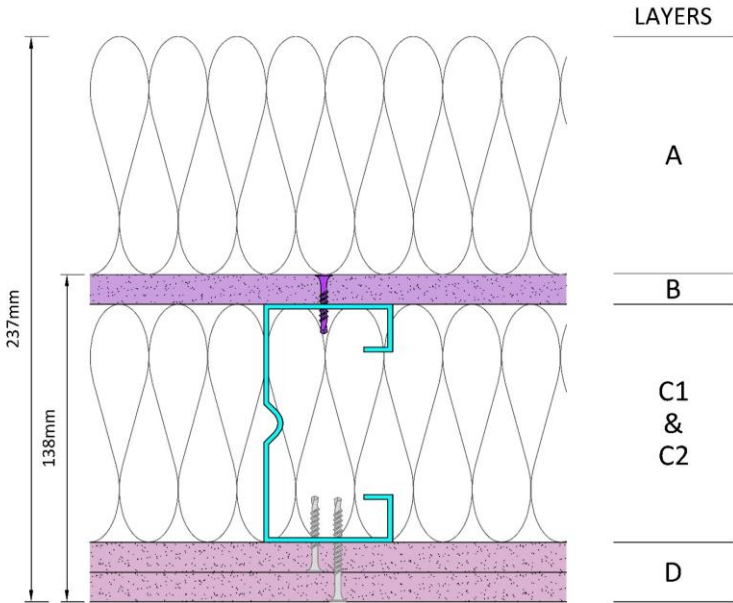
IW-001
INTERNAL WALL SYSTEM



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SYSTEM SUBSTANTIATION SHEET



SYSTEM PERFORMANCE	
Fire Resistance (EN 1365-1:2012)	REI 60 (I→O) & REI 120 (O→I)
Sound Insulation ($R_{w}(C_{tr})$ dB)	48(-7) dB (Estimated, +/-3dB) - excl. facade finishes
Thermal Performance (W/m^2K)	0.21 (excl. facade fixings or external cladding/bracketry)
FIRE INFORMATION	
Test Reference	22757A (I→O) & EUI-23-000593 (O→I)
Test Lab & Date	Warringtonfire (Tisselt) 07/04/2023 & Efectis (Belfast) 01/12/2023
Tested Load (kN/stud)	18 & 20
θ_{ref} (°C)	@60 minutes: <220
SYSTEM LAYERS	
Layer A	[min.] 100mm Mineral Wool (~120kg/m ³)
Layer B	1 x 12.5mm Siniat Weather Defence Board
Layer C1	100x53x1.2mm C Stud (100SN12) at 600mm c/c
Layer C2	100mm Mineral Wool (~22kg/m ³)
Layer D	2 x 12.5mm Siniat Fire Board
FIXINGS & ACCESSORIES	
Plasterboard Fixings	25mm & 42mm Self-Drilling Screws at 300mm c/c (both layers)
Sheathing Board Fixings	25mm Wet Area Self-Drilling Screws at 200mm c/c
Horizontal Board Joints	No additional joint reinforcement required

EW-001
EXTERNAL WALL SYSTEM



REV.	DATE	NATURE OF REV.	REV. BY	APP'D
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Version 1
19/07/2024



SigDeck100 – Technical Datasheet

Description

SigDeck is a unique composite floor system from Remagin. The S450 crushed end trapezoidal deck is 100mm deep and available in 0.8mm, 0.9mm, 1.1mm, and 1.4mm gauges.

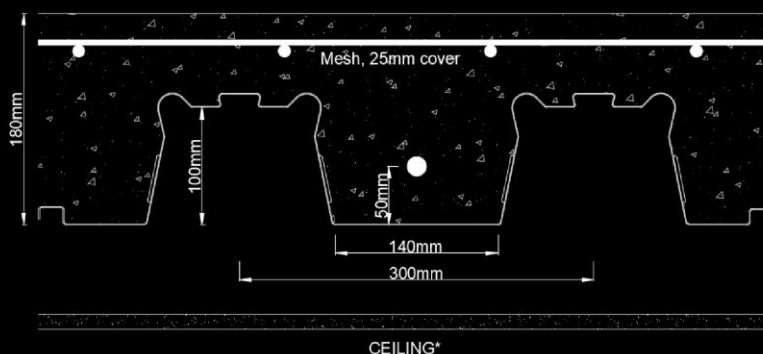


SigDeck has an outstanding unpropped capacity for up to 5.5m spans and uses 180mm deep concrete, which provides excellent flexibility during construction for other trades below the floors. SigDeck can be designed for up to 2-hour fire resistance with varying load types and spans.

Slab Depth (mm)	Volume of Concrete (m ³ /m ²)	Weight of Concrete		Weight of Decking and reinforcement (kN/m ²)
		Wet (kN/m ²)	Dry (kN/m ²)	
180 (excl ponding)	0.127	3.23	3.1	0.185–0.239
180 (max span incl ponding)	0.142	3.63	3.49	0.185–0.239

Profile Properties

Nominal Gauge (mm)	Design Gauge (mm)	Steel Grade (N/mm ²)	Profile Weight kN/m ² (kg/m ²)	Height of neutral axis (mm)	Area of Steel (mm ² /m)	Moment of Inertia (cm ⁴ /m)
0.8	0.76	450	0.112 (11.42)	53.9	1418	266
0.9	0.86	450	0.127 (12.95)	54.8	1604	281
1.1	1.06	450	0.156 (15.92)	54.9	1977	347
1.4	1.36	450	0.20 (20.42)	55.05	2537	445



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Decking Type	Construction stage slab depth at mid span (deflection mm)			
	3.5m	4m	4.5m	5m
180SIG10008	180.5 (0.5)	188 (8)	N/A	N/A
180SIG10009	180 (0)	187 (7)	199 (19)	N/A
180SIG10011	180 (0)	183 (3)	189 (9)	203 (23)(4.9m)
180SIG10014	180 (0)	180 (0)	186 (6)	197 (17)

SigDeck100 Loading Tables (Eurocode)

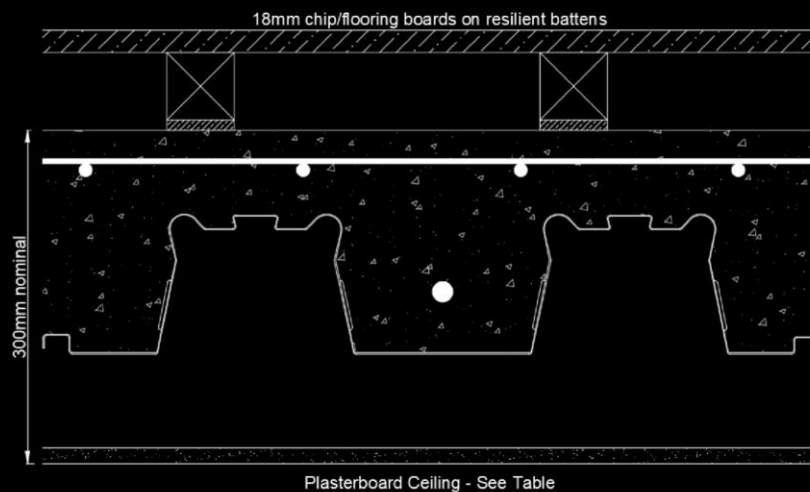
180mm depth – Single unpropped span – S450 – Normal Weight Concrete

Fire Resistance (minutes)	**Min mesh & Reinforcement	Total unfactored applied load (kN/m ²) Max permissible span (m)							
		0.8mm gauge		0.9mm gauge		1.1mm gauge		1.4mm gauge	
		3.5	5.0	3.5	5.0	3.5	5.0	3.5	5.0
60	A142+H12	4.2	4.2	4.6	4.6	5.0	5.0	5.0	5.0
90	A142+H12	4.2	4.2	4.6	4.6	5.0	4.6	5.0	4.6
	A142+H16	4.2	4.2	4.6	4.6	5.0	5.0	5.0	5.0
120*	A142+H12	3.9	3.5	4.1	3.5	3.8	3.5	3.8	3.5
	A142+H16	4.2	4.2	4.6	4.6	5.0	4.8	5.0	4.8

*Minimum 12.5mm Type F (EN520) plasterboard ceiling required to achieve 120 minutes fire resistance in combination with the floor. Any penetrations through the ceiling must be appropriately treated.

**Project specific design is required.

SigDeck100 Acoustic Information



Slab Type	Ceiling Board Density (kg/m ²)	R _w (C; C _{tr}) dB	L _{n,w} dB	STC
180SIGDECK100	1 x 9.8	61 (-3; -9)	53	62
180SIGDECK100	2 x 12.6	62 (-2; -7)	49	62

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