SINIAt SELECT®



Siniat Proposal

NCC Class 3 - HighRise Hotel

NSW 2036

Partition and Ceiling Information

Issued By	Date	Comments
Siniat Technical Services	October 4, 2021	Siniat standard wall and ceiling systems recommended for Class 3 high-rise hotel building made of reinforced concrete structure to meet the deemed-to-satisfy provisions of the NCC.
Reviewed By		
Approved By		

• This document is a proposal only and is subject to the project/builder's approval.

 It is the responsibility of project certifier to determine if the specified products and performance properties including FRL, RISF, Rw, Rw + Ctr, Lnw and Total R-Value, etc. ratings are suitable for the intended applications.

- For dimensions and performance properties of systems in this proposal that use products not manufactured or supplied by Etex Australia and branded Siniat, refer to the relevant product manufacturer.
- In wet areas, replace Mastashield with Watershield, Soundshield with Trurock, and Fireshield with Trurock or Multishield of same thickness, and replace 10mm Opal or 10mm Soundshield with 13mm Watershield.
- For enhanced impact resistance, replace any plasterboard with Trurock of same thickness.
- For framing design of internal steel walls and ceilings, refer to the framing tables in the Blueprint. For framing design of external steel walls and ceilings, please contact Siniat Engineering Services.



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Warranty

Siniat products are guaranteed by a 10 Year Warranty.

Visit https://siniat.com.au for details.

Disclaimer

Products manufactured and systems designed by Etex Australia Pty Ltd and branded Siniat, are produced in accordane with the Building Code of Australia and relevant Australian Standards. Information in this document is to be used as a guide only and is subject to project approval as many aspects of construction are not comprehensively covered. It is also the responsibility of the project to determine if our products and systems are suitable for the intended application and they meet the relevant building code and project requirements. Etex Australia Pty Ltd will not be held responsible for any claims resulting from the installation of its products or other associated products not in accordance with the recommendations of the manufacturer's technical literature or relevant Australian Standards, or for situations not covered by our certification reports

Siniat technical information is regularly updated. To ensure this document is current with the latest information, visit siniat.com.au or contact Siniat Customer Service Centre on 1300 724 505

General Notes

Siniat has attempted to match the system properties provided in this document to that published in the latest technical literature. Should there be any discrepancies, please inform Siniat Technical Services.

The total weight of a system provided in this document is an estimate based on available product data, and does not include the weight of the structural members such as columns and beams, floor/roof joists, etc. and finishes such as tiling, roofing, etc.

The Insulation Pathway Total R-Value of a system provided in this document is an estimate based on sum of the thermal resistances (R-Values) of the individual component layers in a composite element including any building material, insulating material, airspace and associated surface resistances. It is calculated along the insulation pathway only without taking into account the thermal bridging effects of framing components and is only valid for summer heat flow (mean temperature of 23°C). Only the NCC Compliant Total R-Value, if provided, complies to the Section J of Building Code of Australia, NCC 2019 Volume One.

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System Reference	System Properties
It is the responsibility of project certifier to determine if bel System properties like FRL, Rw, Rw + Ctr, etc. printed anyw	ow specified products and performances are suitable for the intended application. where other than inside the 'Properties' column are not verified by Siniat.
External Wall NCC-C3-NLB-F1R1 (Less than 1.5 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/90/90 ; Load Bearing FRL : 60/60/60 ; Airborne Rw : 48 ; Airborne Rw + Ctr : 41 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.53
External Wall NCC-C3-NLB-F1R2 (Less than 1.5 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R2.8 requirement.)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/90/90 ; Load Bearing FRL : 60/60/60 ; Airborne Rw : 49 ; Airborne Rw + Ctr : 44 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 4.53
External Wall NCC-C3-NLB-F1R3 (Less than 1.5 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R3.3 requirement.)	Fire Protection : Rated from both sides ; FRL1 : -/90/90 ; FRL2 : 60/60/60 ; Airborne Rw : 61 ; Airborne Rw + Ctr : 51 ; Insulation Pathway Total R-Value (m2.K/W) : 5.530
External Wall NCC-C3-NLB-F2R1 (1.5 m to less than 3 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.)	Fire Protection : Rated from both sides ; FRL from both sides : -/60/60 ; Airborne Rw : 46 ; Airborne Rw + Ctr : 39 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.49
External Wall NCC-C3-NLB-F2R2 (1.5 m to less than 3 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R2.8 requirement.)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/60/60 ; Load Bearing FRL : 30/30/30 ; Airborne Rw : 48 ; Airborne Rw + Ctr : 42 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 4.49
External Wall NCC-C3-NLB-F2R3 (1.5 m to less than 3 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R3.3 requirement.)	Fire Protection : Rated from both sides; FRL1 : -/60/60; FRL2 : 30/30/30; Airborne Rw : 59; Airborne Rw + Ctr : 49; Insulation Pathway Total R-Value (m2.K/W) : 5.490
External Wall NCC-C3-NLB-F3R2 (Non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R2.8 requirement.)	Fire Protection : Rated from both sides ; FRL1 : -/ 120/120 ; FRL2 : 90/90/90 ; Airborne Rw : 69 ; Airborne Rw + Ctr : 57 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 4.640
External Wall NCC-C3-NLB-F3R3 (Non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R3.3 requirement.)	Fire Protection : Rated from both sides ; FRL1 : -/120/120; FRL2 : 90/90/90; Airborne Rw : 69; Airborne Rw + Ctr : 57; Impact Sound Resistant : Yes - Discontinuous Construction; Insulation Pathway Total R-Value (m2.K/W) : 6.040
External Wall NCC-C3-NLB-F3R4 (Non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R3.8 requirement.)	Fire Protection : Rated from both sides ; FRL1 : -/120/120 ; FRL2 : 90/90/90 ; Airborne Rw : 72 ; Airborne Rw + Ctr : 61 ; Insulation Pathway Total R-Value (m2.K/W) : 6.840
External Wall NCC-C3-LB-F1 (External loadbearing concrete shear wall)	Fire Protection : Rated from both sides ; FRL : Masonry FRL ; Airborne Rw : 64 ; Airborne Rw + Ctr : 53 ; Insulation Pathway Total R-Value (m2.K/W) : 2.52
Spandrel Wall NCC-C3-NLB-F1 (Lightweight non-loadbearing fire-rated spandrel wall)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/60/60 ; Load Bearing FRL : 30/30/30 ; Airborne Rw : 41 ; Airborne Rw + Ctr : 32 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.310
Spandrel Wall NCC-C3-LB-F1 (Lightweight loadbearing fire-rated spandrel wall)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/90/90 ; Load Bearing FRL : 60/60/60 ; Airborne Rw : 43 ; Airborne Rw + Ctr : 34 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.35

System Reference	System Properties
	low specified products and performances are suitable for the intended application. where other than inside the 'Properties' column are not verified by Siniat.
External Wall NCC-C3-NLB-A1R1 (Lightweight non-loadbearing external wall - Rw 41, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.)	Airborne Rw : 44 ; Airborne Rw + Ctr : 35 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.4
External Wall NCC-C3-NLB-A2R1 (Lightweight non-loadbearing external wall - Rw 47, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.)	Airborne Rw : 49 ; Airborne Rw + Ctr : 42 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.49
External Wall NCC-C3-NLB-A3R1-1 (Lightweight non-loadbearing external wall - Rw 52, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.)	Airborne Rw : 55 ; Airborne Rw + Ctr : 45 ; Impact Sound Resistant : Yes ; Insulation Pathway Total R-Value (m2.K/W) : 2.41
External Wall NCC-C3-NLB-A3R1-2 (Lightweight non-loadbearing external wall - Rw 52, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.)	Airborne Rw : 52 ; Airborne Rw + Ctr : 45 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.62
Corridor Wall NCC-C3-NLB-S1-1 (Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.39 kPa)	Fire Protection : Rated from both sides ; FRL1 : -/60/60 ; FRL2 : 30/30/30 ; Airborne Rw : 50 ; Airborne Rw + Ctr : 41 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.110
Corridor Wall NCC-C3-NLB-S1-2 (Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.39 kPa)	Fire Protection : Rated from both sides ; FRL1 : -/90/90 ; FRL2 : 60/60/60 ; Airborne Rw : 51 ; Airborne Rw + Ctr : 43 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.150
Corridor Wall NCC-C3-NLB-S1-3 (Lightweight non-load bearing wall separating SOU from public corridor, additional cavity for services on one side with non-fire rated penetrations, applicable internal ultimate limit state wind load not more than 0.39kPa.)	Fire Protection : Rated from both sides ; FRL1 : -/60/60 ; FRL2 : 30/30/30 ; Airborne Rw : 51 ; Airborne Rw + Ctr : 37 ; Insulation Pathway Total R-Value (m2.K/W) : 2.790
Corridor Wall NCC-C3-NLB-S2-1 (Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.54 kPa)	Fire Protection : Rated from both sides ; FRL1 : -/90/90 ; FRL2 : 60/60/60 ; Airborne Rw : 51 ; Airborne Rw + Ctr : 43 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.150
Corridor Wall NCC-C3-NLB-S2-2 (Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.54 kPa)	Fire Protection : Rated from both sides ; FRL1 : -/90/90 ; FRL2 : 30/30/30 ; Airborne Rw : 50 ; Airborne Rw + Ctr : 43 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.190
Corridor Wall NCC-C3-NLB-S2-3 (Lightweight non-load bearing wall separating SOU from public corridor, additional cavity for services on one side with non-fire rated penetrations, applicable internal ultimate limit state wind load not more than 0.54kPa)	Fire Protection : Rated from both sides ; FRL1 : -/60/60 ; FRL2 : 30/30/30 ; Airborne Rw : 52 ; Airborne Rw + Ctr : 38 ; Insulation Pathway Total R-Value (m2.K/W) : 2.790

System Reference	System Properties	
It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.		
Corridor Wall NCC-C3-NLB-S3-1 (Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 1.0 kPa)	Fire Protection : Rated from both sides ; FRL1 : -/60/60 ; FRL2 : 30/30/30 ; Airborne Rw : 51 ; Airborne Rw + Ctr : 43 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 2.270	
Corridor Wall NCC-C3-NLB-S3-2 (Lightweight non-load bearing wall separating SOU from public corridor, additional cavity for services on one side with non-fire rated penetrations, applicable internal ultimate limit state wind load not more than 0.95 kPa)	Fire Protection : Rated from both sides ; FRL1 : -/60/60 ; FRL2 : 30/30/30 ; Airborne Rw : 52 ; Airborne Rw + Ctr : 38 ; Insulation Pathway Total R-Value (m2.K/W) : 2.790	
Corridor Wall NCC-C3-NLB-S3-3 (Lightweight non-load bearing wall separating SOU from public corridor, additional cavity for services on both sides with non-fire rated penetrations, applicable internal ultimate limit state wind load not more than 0.95 kPa)	Fire Protection : Rated from both sides ; FRL1 : -/60/60 ; Airborne Rw : 55 ; Airborne Rw + Ctr : 38 ; Insulation Pathway Total R-Value (m2.K/W) : 2.860	
Corridor Wall NCC-C3-LB-M-1 (Masonry loadbearing wall separating SOU from public corridor, NCC Deemed-to-Satisfy construction)	Fire Protection : Rated from both sides ; FRL from Both Sides : Masonry FRL ; Airborne Rw : 57 ; Airborne Rw + Ctr : 47 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 1.28	
Separating Wall NCC-C3-NLB-BW (Lightweight non-load bearing wall separating adjoining SOUs, encasing concrete blade wall.)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/90/90 ; Load Bearing FRL : 60/60/60 ; Airborne Rw : 61 ; Airborne Rw + Ctr : 51 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 3.95	
Separating Wall NCC-C3-LB-BW (Loadbearing concrete blade wall inside separating wall)	Airborne Rw : 60; Airborne Rw + Ctr : 52; Impact Sound Resistant : Yes - Discontinuous Construction; Insulation Pathway Total R-Value (m2.K/W) : 1.890	
Separating Wall NCC-C3-NLB-1 (Lightweight non-load bearing wall separating adjoining SOUs)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/90/90 ; Load Bearing FRL : 60/60/60 ; Airborne Rw : 60 ; Airborne Rw + Ctr : 50 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 4.13	
Separating Wall NCC-C3-NLB-2 (Lightweight non-load bearing wall separating adjoining SOUs and encasing non-fire protected loadbearing component)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/120/120 ; Load Bearing FRL : 90/90/90 ; Airborne Rw : 64 ; Airborne Rw + Ctr : 55 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 4.07	
Separating Wall NCC-C3-NLB-3 (Lightweight non-load bearing wall separating adjoining SOUs, non-fire rated penetrations permitted on wall linings)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/60/60 ; Airborne Rw : 66 ; Airborne Rw + Ctr : 53 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 4.06	
Separating Wall NCC-C3-LB-T (Timber studs loadbearing wall separating adjoining SOUs in the top floor)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/120/120 ; Load Bearing FRL : 90/90/90 ; Airborne Rw : 64 ; Airborne Rw + Ctr : 56 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 2.47	
Separating Wall NCC-C3-LB-M (Masonry loadbearing wall separating adjoining SOUs, similar type of rooms on each side)	Fire Protection : Rated from both sides ; FRL from Both Sides : Masonry FRL ; Airborne Rw : 61 ; Airborne Rw + Ctr : 50 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 1.82	
Lift Shaft Wall NCC-C3-LB-1 (Masonry loadbearing wall separating SOU from a lift shaft)	Fire Protection : Rated from both sides ; FRL from Both Sides : Masonry FRL ; Airborne Rw : 59 ; Airborne Rw + Ctr : 52 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 1.57	
Stair Shaft Wall NCC-C3-LB-1 (Masonry loadbearing wall separating SOU from a stair shaft, cavity on SOU side only)	Fire Protection : Rated from both sides ; FRL from Both Sides : Masonry FRL ; Airborne Rw : 50 ; Airborne Rw + Ctr : 44 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 0.42	

System Reference	System Properties
	ow specified products and performances are suitable for the intended application. where other than inside the 'Properties' column are not verified by Siniat.
Stair Shaft Wall NCC-C3-LB-2 (Masonry loadbearing wall separating SOU from a stair shaft, cavities on both sides)	Fire Protection : Rated from both sides ; FRL from Both Sides : Masonry FRL ; Airborne Rw : 57 ; Airborne Rw + Ctr : 47 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 1.12
Cupboard Shaft Wall NCC-C3-NLB-1 (Lightweight non-load bearing wall enclosing cupboard or like space below non fire-isolated stairway and ramp)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/60/60 ; Airborne Rw : 39 ; Airborne Rw + Ctr : 32 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 0.4
Riser Shaft Wall NCC-C3-NLB-A1-1 (Lightweight non-load bearing wall separating SOU from services riser shaft in a habitable room other than kitchen)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/120/120 ; Airborne Rw : 50 ; Airborne Rw + Ctr : 42 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 1.57
Riser Shaft Wall NCC-C3-NLB-A1-2 (Lightweight non-load bearing wall separating SOU from services riser shaft in a habitable room other than kitchen, non-fire rated penetrations allowed on room side)	Fire Protection : Rated from both sides ; FRL1 : -/90/90 ; Airborne Rw : 53 ; Airborne Rw + Ctr : 41 ; Insulation Pathway Total R-Value (m2.K/W) : 1.670
Riser Shaft Wall NCC-C3-NLB-A2-1 (Lightweight non-load bearing wall separating SOU from services riser shaft in a kitchen or non-habitable room)	Fire Protection : Rated from both sides ; FRL : -/90/90 ; Airborne Rw : 37 ; Airborne Rw + Ctr : 34 ; Insulation Pathway Total R-Value (m2.K/W) : 0.39
Plant Room Wall NCC-C3-NLB-1 (Lightweight non-load bearing wall separating SOU from plant room)	Fire Protection : Rated from both sides ; Non-Load Bearing FRL : -/120/120 ; Load Bearing FRL : 60/60/60 ; Airborne Rw : 59 ; Airborne Rw + Ctr : 48 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 1.64
Plant Room Wall NCC-C3-LB-1 (Masonry loadbearing wall separating SOU from plant room)	Fire Protection : Rated from both sides ; FRL from Both Sides : Masonry FRL ; Airborne Rw : 52 ; Airborne Rw + Ctr : 46 ; Impact Sound Resistant : Yes - Discontinuous Construction ; Insulation Pathway Total R-Value (m2.K/W) : 0.5
Waste Pipe Wall NCC-C3-NLB-A1 (Lightweight non-load bearing wall separating SOU from soil and waste pipes without acoustic lagging in a habitable room other than kitchen)	Airborne Rw : 48 ; Airborne Rw + Ctr : 40 ; Insulation Pathway Total R-Value (m2.K/W) : 2.79
Waste Pipe Wall NCC-C3-NLB-A2 (Lightweight non-load bearing wall or ceiling separating SOU from soil and waste pipes without acoustic lagging in a kitchen or non- habitable room)	Airborne Rw : 29 ; Airborne Rw + Ctr : 26 ; Insulation Pathway Total R-Value (m2.K/W) : 0.24
Waste Pipe Ceiling NCC-C3-A1-1 (Ceiling separating SOU from soil and waste pipes without acoustic lagging in a habitable room other than kitchen)	Rw : 54 ; Rw + Ctr : 41
Waste Pipe Ceiling NCC-C3-A1-2 (Lightweight non-load bearing wall or ceiling separating SOU from soil and waste pipes with acoustic lagging in a habitable room other than kitchen)	Airborne Rw : 48 ; Airborne Rw + Ctr : 40
Separating Floor NCC-C3-LB-1 (Floors separating adjoining SOUs)	Airborne Rw : 62; Airborne Rw + Ctr : 52; Impact Ln,w : 62
Separating Floor NCC-C3-LB-2 (Floors separating adjoining SOUs)	Airborne Rw : 63; Airborne Rw + Ctr : 52; Impact Ln,w : 61
Ceiling Under Roof NCC-C3-LB-1 (Ceilings under roofs, separating wall only extends to the ceiling level)	Fire Protection : Rated from below only ; RISF : 60 ; Airborne Rw : 59 ; Airborne Rw + Ctr : 50

System Reference	System Properties
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Fire Escape Wall NCC-C3-LB-1 (Loadbearing wall of fire-isolated passageway)	Fire Protection : Rated from outside only ; FRL From Outside Only : 90/90/90 ; Insulation Pathway Total R-Value (m2.K/W) : 0.63
Fire Escape Roof NCC-C3-LB-1 (Roof of a fire-isolated passageway, fire-resisting lift or stair shaft)	Fire Protection : Rated from outside only; FRL : 90/90/90
Partition Wall NCC-C3-NLB-1 (Typical internal partition wall)	Airborne Rw : 42 ; Airborne Rw + Ctr : 33 ; Impact Sound Resistant : No ; Insulation Pathway Total R-Value (m2.K/W) : 1.51

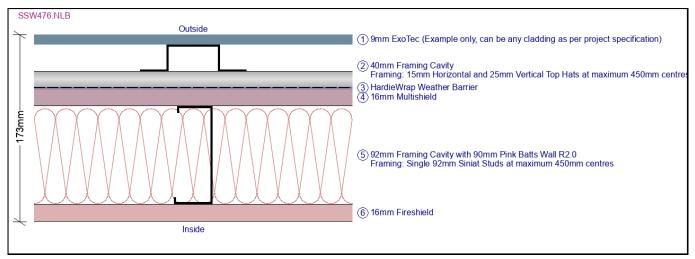
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Single Section 2 System Details

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System No.	1	
System Reference	External Wall NCC-C3-NLB-F1R1	
System Code	SSW476.NLB	5.9
Comments	Less than 1.5 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/90/90 Load Bearing FRL: 60/60/60 Airborne Rw: 48 Airborne Rw + Ctr: 41 Impact Sound Resistant: No Total Thickness (mm): 173 Insulation Pathway Total R-Value (m2.K/W): 2.53 Estimated Total Weight (kg/m2): 46.85	 External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : 15mm Horizontal and 25mm Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: HardieWrap Weather Barrier External Lining: 16mm Multishield Wall Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0

System Notes

1. Fire Report: FC13921

2. Acoustic Report: Insul v9 prediction

3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

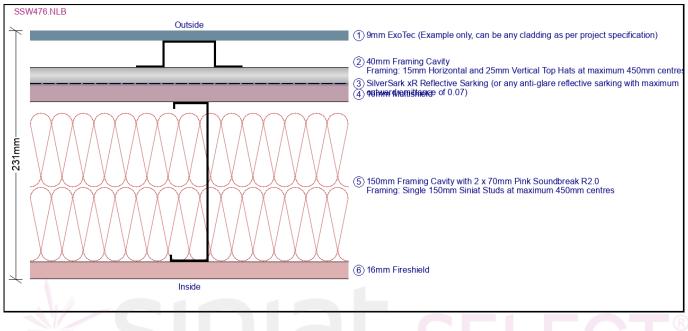
Framing Details



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System No.	2	
System Reference	External Wall NCC-C3-NLB-F1R2	The second second
System Code	SSW476.NLB	× . 4
Comments	Less than 1.5 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R2.8 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/90/90 Load Bearing FRL: 60/60/60 Airborne Rw: 49 Airborne Rw + Ctr: 44 Impact Sound Resistant: No Total Thickness (mm): 231 Insulation Pathway Total R-Value (m2.K/W): 4.53 Estimated Total Weight (kg/m2): 50.98	 External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : 15mm Horizontal and 25mm Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: SilverSark xR Reflective Sarking (or any anti-glare reflective sarking with maximum outward emittance of 0.07) External Lining: 16mm Multishield Wall Cavity: 150mm Framing Cavity Framing : Single 150mm Siniat Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 2 x 70mm Pink Soundbreak R2.0

System Notes

1. Fire Report: FC13921

2. Acoustic Report: Insul v9 prediction

3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

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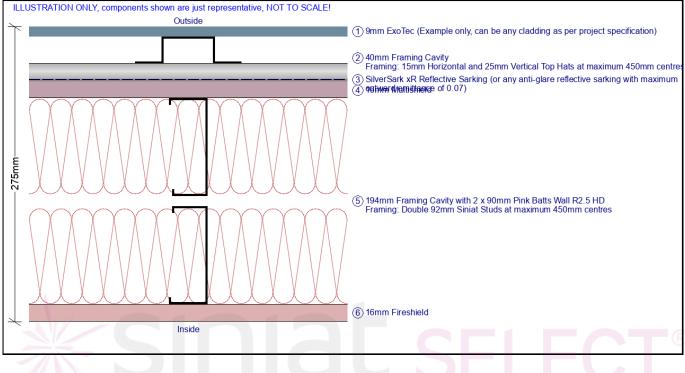
Framing Details



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System No.	3	
System Reference	External Wall NCC-C3-NLB-F1R3	
Comments	Less than 1.5 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R3.3 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/90/90 FRL2: 60/60/60 Airborne Rw: 61 Airborne Rw + Ctr: 51 Total Thickness (mm): 275.00 Insulation Pathway Total R-Value (m2.K/W): 5.530 Estimated Total Weight (kg/m2): 52.22	External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : Horizontal and Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: SilverSark xR Reflective Sarking (or any anti-glare reflective sarking with maximum outward emittance of 0.07) External Lining: 16mm Multishield Wall Cavity: 194mm Framing Cavity Framing : Double Steel Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 2 x 90mm Pink Batts Wall R2.5 HD Internal Lining: 16mm Fireshield

System Notes

1. Fire Report: FC13921

2. Acoustic Report: Insul v9 prediction

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

^{3. 16}mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas

^{4.} The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

^{5.} The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

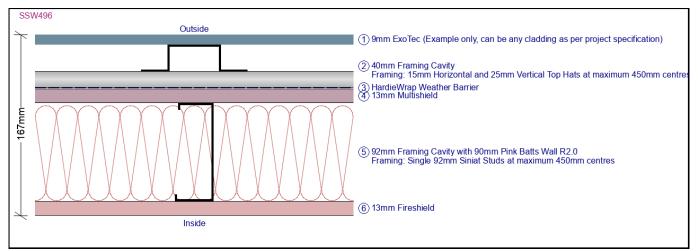
Framing Details



SINIAL SELECT

System No.	4	
System Reference	External Wall NCC-C3-NLB-F2R1	
System Code	SSW496	× . 8
Comments	1.5 m to less than 3 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL from both sides: -/60/60 Airborne Rw: 46 Airborne Rw + Ctr: 39 Impact Sound Resistant: No Total Thickness (mm): 167 Insulation Pathway Total R-Value (m2.K/W): 2.49 Estimated Total Weight (kg/m2): 42.05	 External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : 15mm Horizontal and 25mm Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: HardieWrap Weather Barrier External Lining: 13mm Multishield Wall Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 13mm Fireshield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Insul v9 prediction

3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

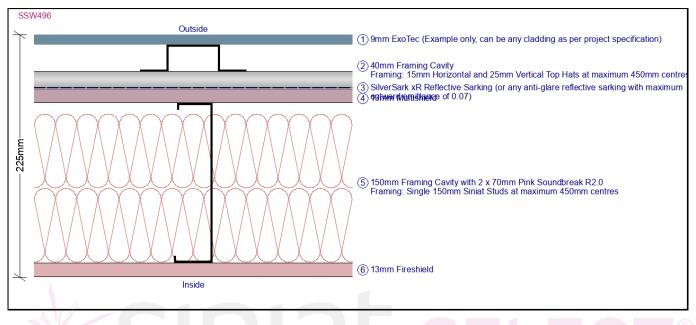
Framing Details



SINIAL SELECT

System No.	5	
System Reference	External Wall NCC-C3-NLB-F2R2	
System Code	SSW496	2 2
Comments	1.5 m to less than 3 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R2.8 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/60/60 Load Bearing FRL: 30/30/30 Airborne Rw: 48 Airborne Rw + Ctr: 42 Impact Sound Resistant: No Total Thickness (mm): 225 Insulation Pathway Total R-Value (m2.K/W): 4.49 Estimated Total Weight (kg/m2): 46.18	 External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : 15mm Horizontal and 25mm Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: SilverSark xR Reflective Sarking (or any anti-glare reflective sarking with maximum outward emittance of 0.07) External Lining: 13mm Multishield Wall Cavity: 150mm Framing Cavity Framing : Single 150mm Siniat Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 2 x 70mm Pink Soundbreak R2.0

System Notes

1. Fire Report: FC13921

2. Acoustic Report: Insul v9 prediction

3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

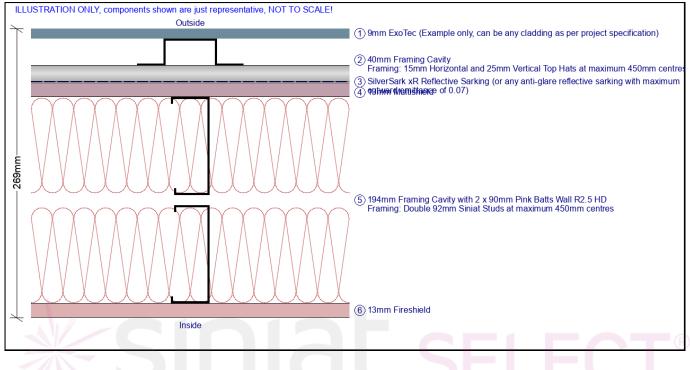
Framing Details



SINIAL SELECT

System No.	6	0,50
System Reference	External Wall NCC-C3-NLB-F2R3	000000000000000000000000000000000000000
Comments	1.5 m to less than 3 m from fire-source feature, no non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R3.3 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/60/60 FRL2: 30/30/30 Airborne Rw: 59 Airborne Rw + Ctr: 49 Total Thickness (mm): 269.00 Insulation Pathway Total R-Value (m2.K/W): 5.490 Estimated Total Weight (kg/m2): 47.42	External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : Horizontal and Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: SilverSark xR Reflective Sarking (or any anti-glare reflective sarking with maximum outward emittance of 0.07) External Lining: 13mm Multishield Wall Cavity: 194mm Framing Cavity Framing : Double Steel Studs at maximum 450mm centres (Specific stud <i>BMT and spacing as per framing design</i>) Insulation : 2 x 90mm Pink Batts Wall R2.5 HD Internal Lining: 13mm Fireshield

System Notes

1. Fire Report: FC13921

2. Acoustic Report: Insul v9 prediction

3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

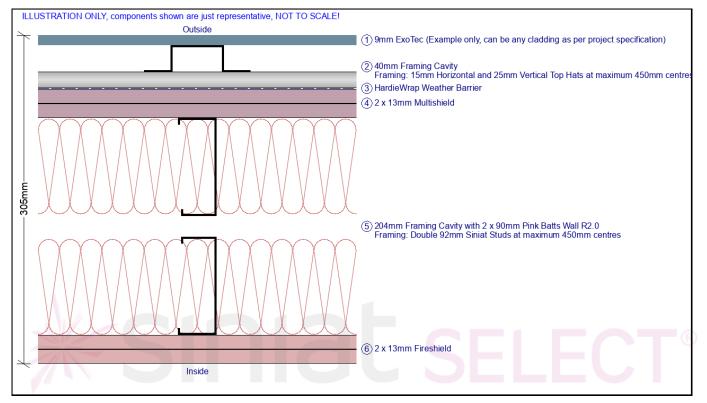
Framing Details



SINIAL SELECT

System No.	7	0668
System Reference	External Wall NCC-C3-NLB-F3R2	
Comments	Non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R2.8 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/120/120 FRL2: 90/90/90 Airborne Rw: 69 Airborne Rw + Ctr: 57 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 305.00 Insulation Pathway Total R-Value (m2.K/W): 4.640 Estimated Total Weight (kg/m2): 66.10	External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : Horizontal and Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: HardieWrap Weather Barrier External Lining: 2 x 13mm Multishield Wall Cavity: 204mm Framing Cavity Framing : Double Steel Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design. Cavity size can be increased as required to encase loadbearing elements.) Insulation : 2 x 90mm Pink Batts Wall R2.0 Internal Lining: 2 x 13mm Fireshield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Insul v9 prediction
- 3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

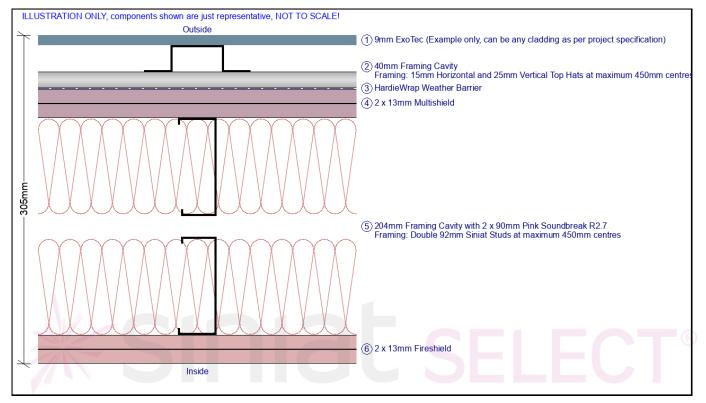
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.

SINIAT SELECT®

SINIAL SELECT

System No.	8	0554
System Reference	External Wall NCC-C3-NLB-F3R3	
Comments	Non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R3.3 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/120/120 FRL2: 90/90/90 Airborne Rw: 69 Airborne Rw + Ctr: 57 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 305.00 Insulation Pathway Total R-Value (m2.K/W): 6.040 Estimated Total Weight (kg/m2): 68.98	External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : Horizontal and Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: HardieWrap Weather Barrier External Lining: 2 x 13mm Multishield Wall Cavity: 204mm Framing Cavity Framing : Double Steel Studs at maximum 450mm centres (Specific stud <i>BMT and spacing as per framing design. Cavity size can be increased as required</i> <i>to encase loadbearing elements.</i>) Insulation : 2 x 90mm Pink Soundbreak R2.7 Internal Lining: 2 x 13mm Fireshield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Insul v9 prediction
- 3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

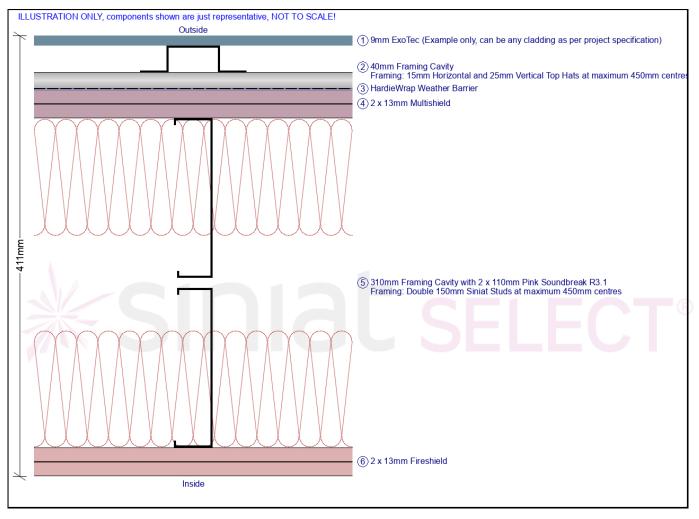
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.

SINIAT SELECT®

SINIAL SELECT

System No.	9	0,000
System Reference	External Wall NCC-C3-NLB-F3R4	
Comments	Non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R3.8 requirement.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/120/120 FRL2: 90/90/90 Airborne Rw: 72 Airborne Rw + Ctr: 61 Total Thickness (mm): 411.00 Insulation Pathway Total R-Value (m2.K/W): 6.840 Estimated Total Weight (kg/m2): 72.91	External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 40mm Framing Cavity Framing : Horizontal and Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: HardieWrap Weather Barrier External Lining: 2 x 13mm Multishield Wall Cavity: 310mm Framing Cavity Framing : Double Steel Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design. Cavity size can be increased as required to encase loadbearing elements.) Insulation : 2 x 110mm Pink Soundbreak R3.1 Internal Lining: 2 x 13mm Fireshield

System Notes

1. Fire Report: FC13921

2. Acoustic Report: Insul v9 prediction

3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

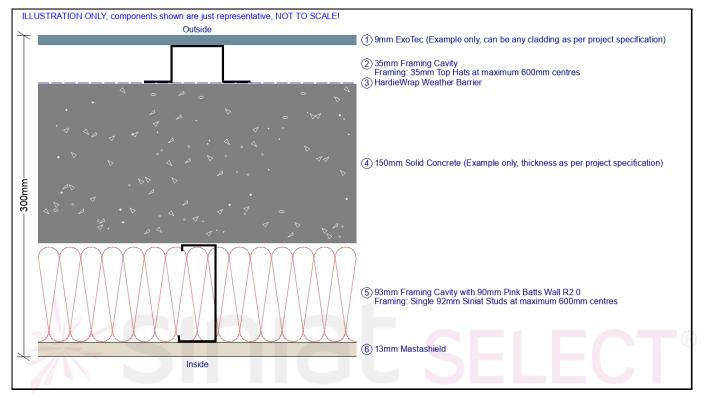
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAL SELECT

System No.	10	0000
System Reference	External Wall NCC-C3-LB-F1	
Comments	External loadbearing concrete shear wall	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL: Masonry FRL Airborne Rw: 64 Airborne Rw + Ctr: 53 Total Thickness (mm): 300 Insulation Pathway Total R-Value (m2.K/W): 2.52 Estimated Total Weight (kg/m2): 390.96	External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 35mm Framing Cavity Framing : 35mm Top Hats at maximum 600mm centres (Example only, any framing as per cladding manufacturer) Sarking: HardieWrap Weather Barrier Shear Wall: 150mm Solid Concrete (Example only, thickness as per project specification) Internal Wall Cavity: 93mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 600mm centres (Cavity size and insulation as required to comply with NCC Volume One Section J requirements) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 13mm Mastashield

System Notes

- 1. Fire Report: Refer to masonry manufacturer
- 2. Acoustic Report: Insul v9 prediction
- 3. 13mm Mastashield can be substituted with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

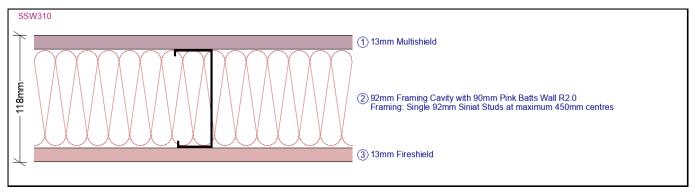
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.

SINIAL SELECT

SINIAt SELECT

System No.	11	
System Reference	Spandrel Wall NCC-C3-NLB-F1	
Comments	Lightweight non-loadbearing fire-rated spandrel wall	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/60/60 Load Bearing FRL: 30/30/30 Airborne Rw: 41 Airborne Rw + Ctr: 32 Impact Sound Resistant: No Total Thickness (mm): 118.00 Insulation Pathway Total R-Value (m2.K/W): 2.310 Estimated Total Weight (kg/m2): 24.05	External Lining: 13mm Multishield Cavity: 92mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 13mm Fireshield

System Notes

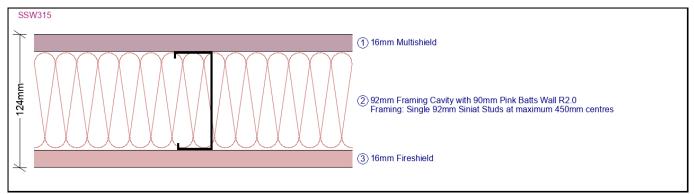
- 1. Fire Report: FC13921
- 2. Acoustic Report: Insul v9 prediction
- 3. Acoustics ratings valid for 1.0mm to 1.6mm BMT studs at minimum 450mm centers.
- 4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.
- 5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	12	
System Reference	Spandrel Wall NCC-C3-LB-F1	
System Code	SSW315	
Comments	Lightweight loadbearing fire-rated spandrel wall	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/90/90 Load Bearing FRL: 60/60/60 Airborne Rw: 43 Airborne Rw + Ctr: 34 Impact Sound Resistant: No Total Thickness (mm): 124 Insulation Pathway Total R-Value (m2.K/W): 2.35 Estimated Total Weight (kg/m2): 28.85	External Lining: 16mm Multishield Cavity 1: 92mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 16mm Fireshield

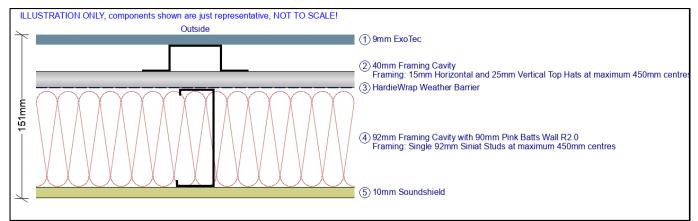
System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Insul v9 prediction
- 3. Acoustics ratings valid for 1.0mm to 1.6mm BMT studs at minimum 450mm centers.
- 4. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas
- 5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.
- 6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	13	0000
System Reference	External Wall NCC-C3-NLB-A1R1	
Comments	Lightweight non-loadbearing external wall - Rw 41, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.	



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 44 Airborne Rw + Ctr: 35 Impact Sound Resistant: No Total Thickness (mm): 151 Insulation Pathway Total R-Value (m2.K/W): 2.4 Estimated Total Weight (kg/m2): 29.25	External Cladding: 9mm ExoTec Cladding Cavity: 40mm Framing Cavity Framing : 15mm Horizontal and 25mm Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: HardieWrap Weather Barrier Wall Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 10mm Soundshield

System Notes

1. Acoustic Report: Insul v9 prediction

2. 10mm Soundshield can be substituted with 13mm Watershield in wet areas

3. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

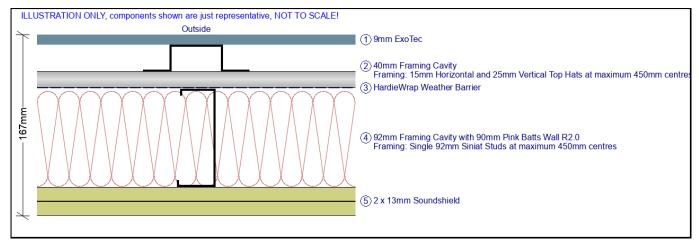
4. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

5. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	14	0500
System Reference	External Wall NCC-C3-NLB-A2R1	
Comments	Lightweight non-loadbearing external wall - Rw 47, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.	



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 49 Airborne Rw + Ctr: 42 Impact Sound Resistant: No Total Thickness (mm): 167 Insulation Pathway Total R-Value (m2.K/W): 2.49 Estimated Total Weight (kg/m2): 45.65	External Cladding: 9mm ExoTec Cladding Cavity: 40mm Framing Cavity Framing : 15mm Horizontal and 25mm Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: HardieWrap Weather Barrier Wall Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 2 x 13mm Soundshield

System Notes

1. Acoustic Report: Insul v9 prediction

2. 13mm Soundshield can be substituted with 13mm Trurock in wet areas

3. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

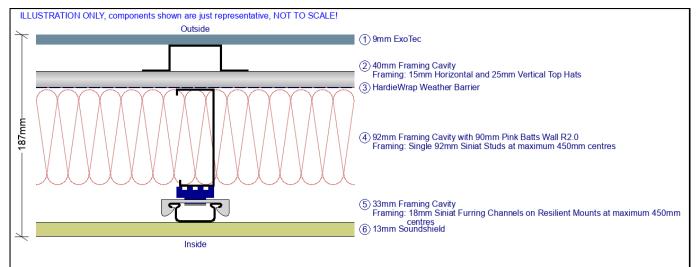
4. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

5. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	15	
System Reference	External Wall NCC-C3-NLB-A3R1-1	
Comments	Lightweight non-loadbearing external wall - Rw 52, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.	



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 55 Airborne Rw + Ctr: 45 Impact Sound Resistant: Yes Total Thickness (mm): 187 Insulation Pathway Total R-Value (m2.K/W): 2.41 Estimated Total Weight (kg/m2): 33.66	External Cladding: 9mm ExoTec Cladding Cavity: 40mm Framing Cavity Framing : 15mm Horizontal and 25mm Vertical Top Hats (Example only, specific framing as per cladding manufacturer) Sarking: HardieWrap Weather Barrier Wall Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 450mm centres (Specific studs BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Additional Frame Cavity: 33mm Framing Cavity Framing : 18mm Siniat Furring Channels on Resilient Mounts at maximum 450mm centres Internal Lining: 13mm Soundshield

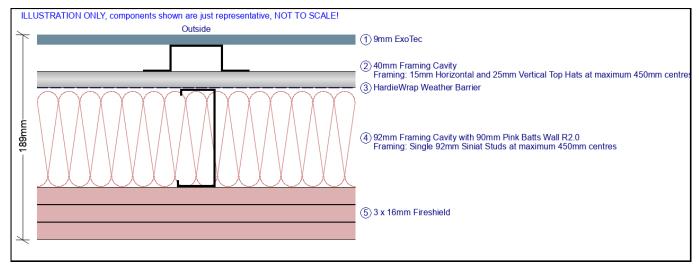
System Notes

- 1. Acoustic Report: Insul v9 prediction
- 2. 13mm Soundshield can be substituted with 13mm Trurock in wet areas
- 3. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.
- 4. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 5. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	16	0,000
System Reference	External Wall NCC-C3-NLB-A3R1-2	
Comments	Lightweight non-loadbearing external wall - Rw 52, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall. This wall meets NCC 2019 Volume One Section J R1.4 requirement.	



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 52 Airborne Rw + Ctr: 45 Impact Sound Resistant: No Total Thickness (mm): 189 Insulation Pathway Total R-Value (m2.K/W): 2.62 Estimated Total Weight (kg/m2): 59.85	External Cladding: 9mm ExoTec Cladding Cavity: 40mm Framing Cavity Framing : 15mm Horizontal and 25mm Vertical Top Hats at maximum 450mm centres (Example only, specific framing system as per cladding manufacturer) Sarking: HardieWrap Weather Barrier Wall Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 450mm centres (Specific stud BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 3 x 16mm Fireshield

System Notes

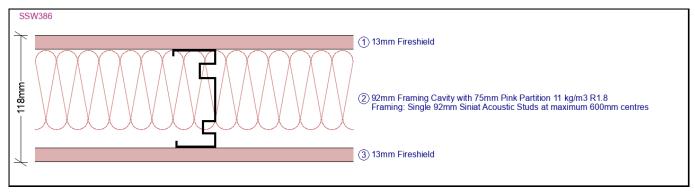
- 1. Acoustic Report: Insul v9 prediction
- 2. 16mm Fireshield can be substituted with 16mm Multishield in wet areas
- 3. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.
- 4. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 5. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAL SELECT

System No.	17	
System Reference	Corridor Wall NCC-C3-NLB-S1-1	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.39 kPa	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/60/60 FRL2: 30/30/30 Airborne Rw: 50 Airborne Rw + Ctr: 41 Impact Sound Resistant: No Total Thickness (mm): 118.00 Insulation Pathway Total R-Value (m2.K/W): 2.110 Estimated Total Weight (kg/m2): 23.91	Side 1: 13mm Fireshield Cavity 1: 92mm Framing Cavity Framing : Single Acoustic Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m3 R1.8 Side 2: 13mm Fireshield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Test Report TL609-02 (Based on Siniat System SSW386.L1C2)
- 3. Acoustic ratings valid for studs at 600mm centres
- 4. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas
- 5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.
- 6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

Refer to next page for framing details.

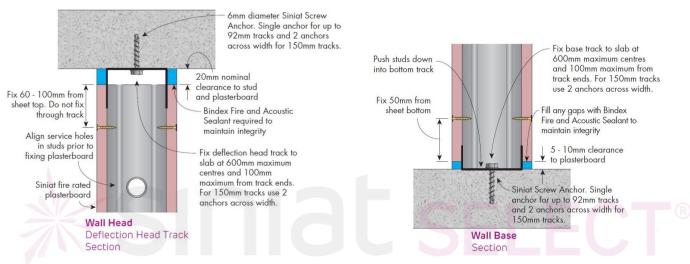
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System No.	17
System Reference	Corridor Wall NCC-C3-NLB-S1-1
Framing System Code	SSW-FL2-AAS92-13RE (SSW-FL2-AAS92-13RE.1-600S41D11-3A250390)

Framing Details

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 0.39 Serviceability Wind Pressure, Ws (kPa): 0.25 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall Height (mm): 3760 Stud: Single 92mm x 0.55mm Siniat Acoustic Stud Stud - Spacing (mm): 600 Head Track: 92mm x 0.55mm Siniat Track DH Base Track: 92mm x 0.5mm Siniat Track Anchor: SA6x45



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).

6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 65\% of ultimate.

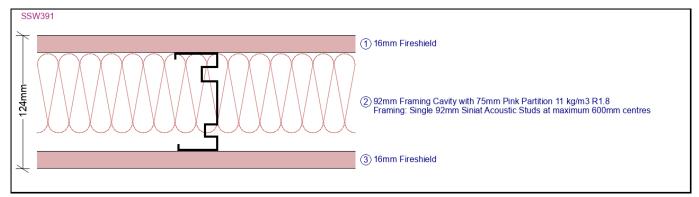
7. Noggings in Acoustic Stud Walls may reduce sound insulation performance.

8. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.

SINIAL SELECT

System No.	18	
System Reference	Corridor Wall NCC-C3-NLB-S1-2	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.39 kPa	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/90/90 FRL2: 60/60/60 Airborne Rw: 51 Airborne Rw + Ctr: 43 Impact Sound Resistant: No Total Thickness (mm): 124.00 Insulation Pathway Total R-Value (m2.K/W): 2.150 Estimated Total Weight (kg/m2): 28.91	Side 1 Lining: 16mm Fireshield Cavity: 92mm Framing Cavity Framing : Single Acoustic Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m3 R1.8 Side 2 Lining: 16mm Fireshield

System Notes

1. Fire Report: FC13921

- 2. Acoustic Report: Test Report TL609-01 (Based on Siniat System SSW391.L1C2)
- 3. Acoustic ratings valid for studs at 600mm centres
- 4. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas
- 5. Boards, while installed horizontally, staggering of recessed joints on each side of the wall not required to achieve an FRL of -/60/60

6. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

7. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

8. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

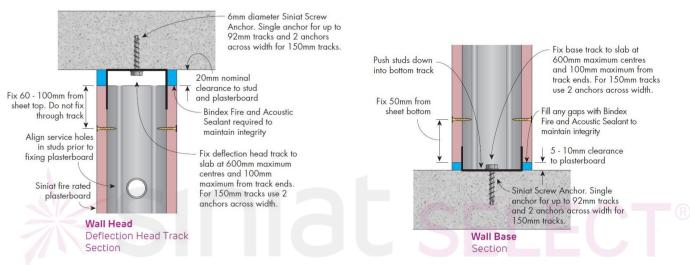
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System No.	18	
System Reference	Corridor Wall NCC-C3-NLB-S1-2	
Framing System Code	SSW-FL2-AAS92-16FR (SSW-FL2-AAS92-16FR.1-600S41D11-3A250390)	

Framing Details

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 0.39 Serviceability Wind Pressure, Ws (kPa): 0.25 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall Height (mm): 3760 Stud: Single 92mm x 0.55mm Siniat Acoustic Stud Stud - Spacing (mm): 600 Head Track: 92mm x 0.55mm Siniat Track DH Base Track: 92mm x 0.5mm Siniat Track Anchor: SA6x45



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).

6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 65\% of ultimate.

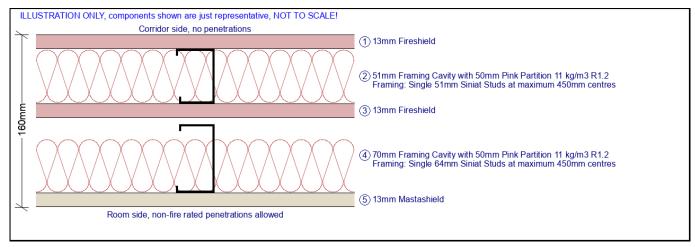
7. Noggings in Acoustic Stud Walls may reduce sound insulation performance.

8. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.



System No.	19	
System Reference	Corridor Wall NCC-C3-NLB-S1-3	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, additional cavity for services on one side with non-fire rated penetrations, applicable internal ultimate limit state wind load not more than 0.39kPa.	Nor all, such is defined and the

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides	Side 1: 13mm Fireshield
FRL1: -/60/60	Cavity 1: 51mm Framing Cavity
FRL2: 30/30/30	Framing : Single Steel Studs at maximum 450mm centres
Airborne Rw: 51	Insulation : 50mm Pink Partition 11 kg/m3 R1.2
Airborne Rw + Ctr: 37	Centre 1: 13mm Fireshield
Total Thickness (mm): 160.00	Cavity 2: 70mm Framing Cavity
Insulation Pathway Total R-Value	Framing : Single Steel Studs at maximum 450mm centres
(m2.K/W): 2.790	Insulation : 50mm Pink Partition 11 kg/m3 R1.2
Estimated Total Weight (kg/m2): 33.03	Side 2: 13mm Mastashield

System Notes

- 1. Fire Report: FC13921 (Based on Siniat System SSW310)
- 2. Acoustic Report: Insul v9 prediction

3. 13mm Mastashield can be replaced with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

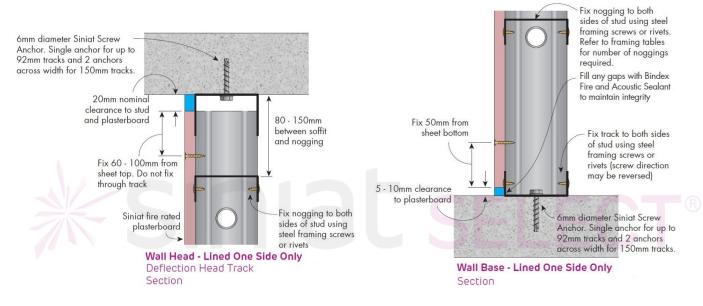
Framing Details

System No.	19
System Reference	Corridor Wall NCC-C3-NLB-S1-3
Framing System Code	SSW-FL1-AS64-13RE (SSW-FL1-AS64-13RE.1-450S21D113N-3A250390)

Framing Details

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3	Maximum Wall Height (mm): 3330
Wind Region: A	Stud: Single 64mm x 0.5mm Siniat Stud
Ultimate Wind Pressure, Wu (kPa): 0.39	Stud - Spacing (mm): 450
Serviceability Wind Pressure, Ws (kPa): 0.25	Head Track: 64mm x 0.55mm Siniat Track DH
Deflection Class: Maximum H/240 or 30 mm	Base Track: 64mm x 0.5mm Siniat Track
Design Standard: AS/NZS 4600:2005 'Cold	Nogging Track: 3 x 64mm x 0.7mm Siniat Track Nogging
Formed Steel Structures'	Anchor: SA6x45



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.

6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 65\% of ultimate.

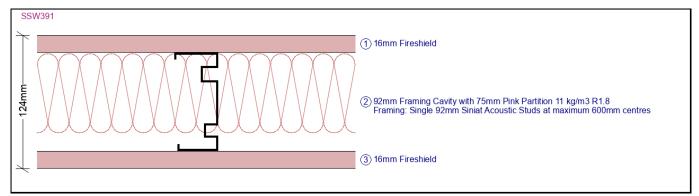
7. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.

SINIAL SELECT

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System No.	20	
System Reference	Corridor Wall NCC-C3-NLB-S2-1	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.54 kPa	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/90/90 FRL2: 60/60/60 Airborne Rw: 51 Airborne Rw + Ctr: 43 Impact Sound Resistant: No Total Thickness (mm): 124.00 Insulation Pathway Total R-Value (m2.K/W): 2.150 Estimated Total Weight (kg/m2): 28.91	Side 1 Lining: 16mm Fireshield Cavity: 92mm Framing Cavity Framing : Single Acoustic Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m3 R1.8 Side 2 Lining: 16mm Fireshield

System Notes

1. Fire Report: FC13921

- 2. Acoustic Report: Test Report TL609-01 (Based on Siniat System SSW391.L1C2)
- 3. Acoustic ratings valid for studs at 600mm centres
- 4. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas
- 5. Boards, while installed horizontally, staggering of recessed joints on each side of the wall not required to achieve an FRL of -/60/60

6. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

7. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

8. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

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System No.	20
System Reference	Corridor Wall NCC-C3-NLB-S2-1
Framing System Code	SSW-FL2-AAS92-16FR (SSW-FL2-AAS92-16FR.1-600S41D21-3A350540)

Framing Details

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 0.54 Serviceability Wind Pressure, Ws (kPa): 0.35 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall Height (mm): 4440 Stud: Single 92mm x 0.55mm Siniat Acoustic Stud Stud - Spacing (mm): 600 Head Track: 92mm x 0.7mm Siniat Track DH (Additional 100mm long Soldier Stud screw fixed to each stud at top) Base Track: 92mm x 0.5mm Siniat Track (Screw fix track to studs) Anchor: SA6x45
6mm diameter Siniat Screw Anchor, Single anchor for up to 92mm tracks and 2 anchors across width for 150mm tracks.	Push study down



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).

6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 65\% of ultimate.

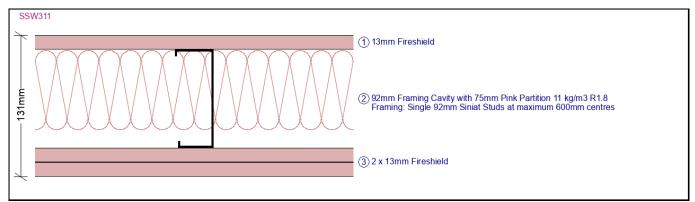
7. Noggings in Acoustic Stud Walls may reduce sound insulation performance.

8. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.

SINIAL SELECT

System No.	21	
System Reference	Corridor Wall NCC-C3-NLB-S2-2	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.54 kPa	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/90/90 FRL2: 30/30/30 Airborne Rw: 50 Airborne Rw + Ctr: 43 Impact Sound Resistant: No Total Thickness (mm): 131.00 Insulation Pathway Total R-Value (m2.K/W): 2.190 Estimated Total Weight (kg/m2): 33.83	Side 1 Lining: 13mm Fireshield Cavity: 92mm Framing Cavity Framing : Single Steel Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m3 R1.8 Side 2 Lining: 2 x 13mm Fireshield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Test Report TL561-05 (Based on Siniat System SSW311.L1C9)
- 3. Acoustic ratings valid for minimum BMT studs at 600mm centres
- 4. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas
- 5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.
- 6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

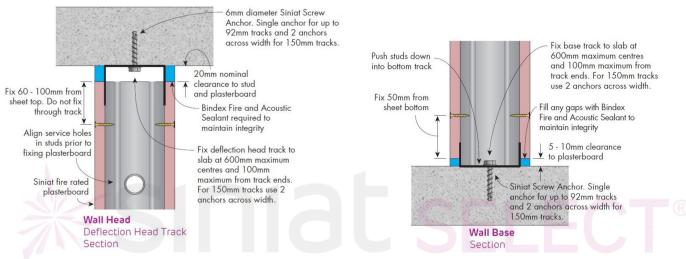
Framing Details

NCC Class 3 - HighRise	Hotel *SINIAL SELEC	T°
System No.	21	
System Reference	Corridor Wall NCC-C3-NLB-S2-2	
Framing System Code	SSW-FL2-AS92-13RE (SSW-FL2-AS92-13RE.1-600S41D11-3A350540)	

Framing Details

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 0.54 Serviceability Wind Pressure, Ws (kPa): 0.35 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall Height (mm): 3580 Stud: Single 92mm x 0.55mm Siniat Stud Stud - Spacing (mm): 600 Head Track: 92mm x 0.55mm Siniat Track DH Base Track: 92mm x 0.5mm Siniat Track Anchor: SA6x45



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).

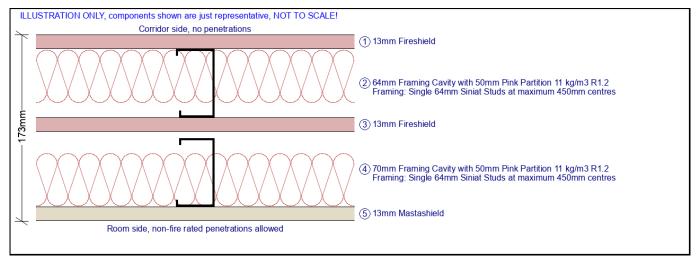
6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 65\% of ultimate.

7. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.



System No.	22	
System Reference	Corridor Wall NCC-C3-NLB-S2-3	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, additional cavity for services on one side with non-fire rated penetrations, applicable internal ultimate limit state wind load not more than 0.54kPa	Receiption and the second seco

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/60/60 FRL2: 30/30/30 Airborne Rw: 52 Airborne Rw + Ctr: 38 Total Thickness (mm): 173.00 Insulation Pathway Total R-Value (m2.K/W): 2.790 Estimated Total Weight (kg/m2): 33.16	Side 1: 13mm Fireshield Cavity 1: 64mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Centre 1: 13mm Fireshield Cavity 2: 70mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (BMT not less than 0.75mm) Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Side 2: 13mm Mastashield

System Notes

1. Fire Report: FC13921 (Based on Siniat System SSW310)

2. Acoustic Report: Insul v9 prediction

3. 13mm Mastashield can be replaced with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

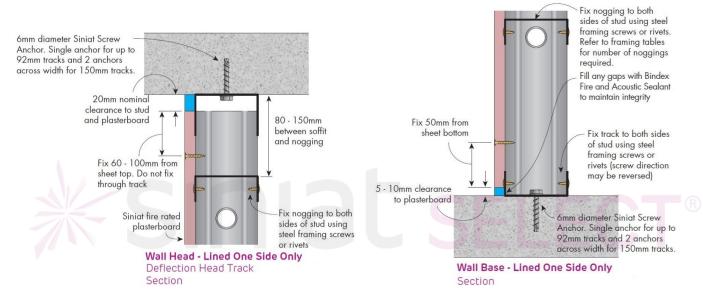
Framing Details

System No.	22
System Reference	Corridor Wall NCC-C3-NLB-S2-3
Framing System Code	SSW-FL1-AS64-13RE (SSW-FL1-AS64-13RE.1-450S22D223N-3A350540)

Framing Details

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3	Maximum Wall Height (mm): 3300
Wind Region: A	Stud: Single 64mm x 0.75mm Siniat Stud
Ultimate Wind Pressure, Wu (kPa): 0.54	Stud - Spacing (mm): 450
Serviceability Wind Pressure, Ws (kPa): 0.35	Head Track: 64mm x 0.7mm Siniat Track DH
Deflection Class: Maximum H/240 or 30 mm	Base Track: 64mm x 0.7mm Siniat Track
Design Standard: AS/NZS 4600:2005 'Cold	Nogging Track: 3 x 64mm x 0.7mm Siniat Track Nogging
Formed Steel Structures'	Anchor: SA6x45



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.

6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 65\% of ultimate.

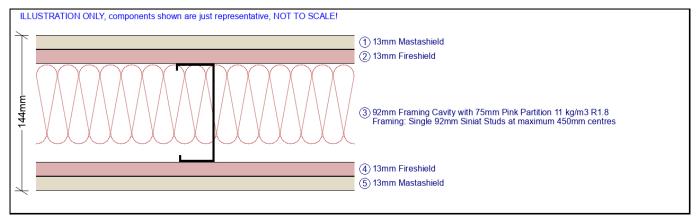
7. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.

SINIAL SELECT



System No.	23	
System Reference	Corridor Wall NCC-C3-NLB-S3-1	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 1.0 kPa	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/60/60 FRL2: 30/30/30 Airborne Rw: 51 Airborne Rw + Ctr: 43 Impact Sound Resistant: No Total Thickness (mm): 144.00 Insulation Pathway Total R-Value (m2.K/W): 2.270 Estimated Total Weight (kg/m2): 39.98	Side 1: 13mm Fireshield plus 13mm Mastashield Cavity 1: 92mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres Insulation : 75mm Pink Partition 11 kg/m3 R1.8 Side 2: 13mm Fireshield plus 13mm Mastashield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Insul v9 prediction
- 3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas
- 4. 13mm Mastashield can be substituted with 13mm Watershield in wet areas
- 5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.
- 6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

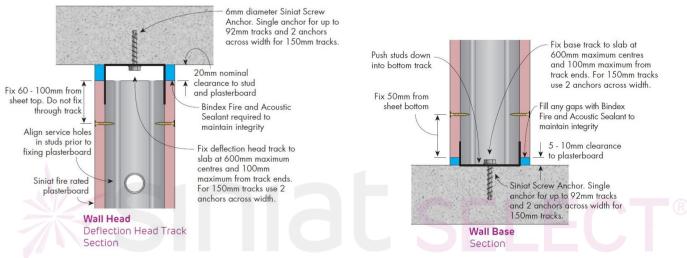
/stem No.	23
ystem Reference	Corridor Wall NCC-C3-NLB-S3-1
raming System Code	SSW-FL2-AS92-13RE (SSW-FL2-AS92-13RE.1-450S42D32-3A6501000)

Framing Details

Sy Sy Fra

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 1.00 Serviceability Wind Pressure, Ws (kPa): 0.65 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall Height (mm): 3870 Stud: Single 92mm x 0.75mm Siniat Stud Stud - Spacing (mm): 450 Head Track: 92mm x 1.15mm Siniat Track DH Base Track: 92mm x 0.7mm Siniat Track Anchor: SA6x45



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).

6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 65\% of ultimate.

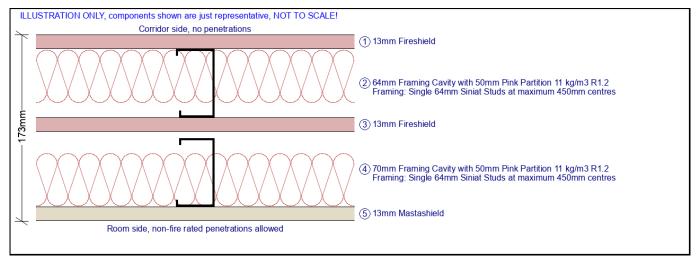
7. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.

SINIAL SELECT



System No.	24	
System Reference	Corridor Wall NCC-C3-NLB-S3-2	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, additional cavity for services on one side with non-fire rated penetrations, applicable internal ultimate limit state wind load not more than 0.95 kPa	Rection on the off providence description

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/ 60 /60 FRL2: 30/30/30 Airborne Rw: 52 Airborne Rw + Ctr: 38 Total Thickness (mm): 173.00 Insulation Pathway Total R-Value (m2.K/W): 2.790 Estimated Total Weight (kg/m2): 33.16	Side 1: 13mm Fireshield Cavity 1: 64mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (BMT not less than 1.15mm) Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Centre 1: 13mm Fireshield Cavity 2: 70mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (BMT not less than 1.15mm) Insulation : 50mm Pink Partition 11 kg/m3 R1.2
	Side 2: 13mm Mastashield

System Notes

1. Fire Report: FC13921 (Based on Siniat System SSW310)

2. Acoustic Report: Insul v9 prediction

3. 13mm Mastashield can be replaced with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

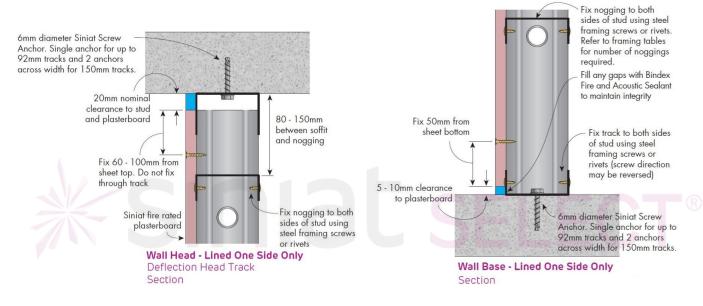
Framing Details

System No.	24
System Reference	Corridor Wall NCC-C3-NLB-S3-2
Framing System Code	SSW-FL1-AS64-13RE (SSW-FL1-AS64-13RE.1-450S23D333N-3B400950)

Framing Details

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3	Maximum Wall Height (mm): 3570
Wind Region: B	Stud: Single 64mm x 1.15mm Siniat Stud
Ultimate Wind Pressure, Wu (kPa): 0.95	Stud - Spacing (mm): 450
Serviceability Wind Pressure, Ws (kPa): 0.40	Head Track: 64mm x 1.15mm Siniat Track DH
Deflection Class: Maximum H/240 or 30 mm	Base Track: 64mm x 1.15mm Siniat Track
Design Standard: AS/NZS 4600:2005 'Cold	Nogging Track: 3 x 64mm x 0.7mm Siniat Track Nogging
Formed Steel Structures'	Anchor: SA6x45



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.

6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 42\% of ultimate.

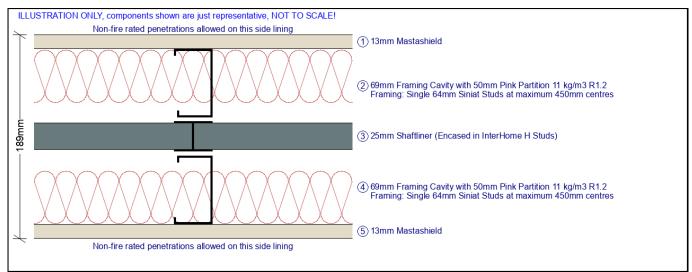
7. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.

SINIAt SELECT



System No.	25	
System Reference	Corridor Wall NCC-C3-NLB-S3-3	
Comments	Lightweight non-load bearing wall separating SOU from public corridor, additional cavity for services on both sides with non-fire rated penetrations, applicable internal ultimate limit state wind load not more than 0.95 kPa	De la restricta de di a fin da la re

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/60/60 Airborne Rw: 55 Airborne Rw + Ctr: 38 Total Thickness (mm): 189.00 Insulation Pathway Total R-Value (m2.K/W): 2.860 Estimated Total Weight (kg/m2): 40.26	Side 1: 13mm Mastashield Cavity 1: 69mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Centre 1: 25mm Shaftliner (Encased in InterHome H Studs) Cavity 2: 69mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Side 2: 13mm Mastashield

System Notes

1. Fire Report: FAR4815 (Based on Siniat System IHS115)

2. Acoustic Report: Insul v9 prediction

3. 13mm Mastashield can be substituted with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

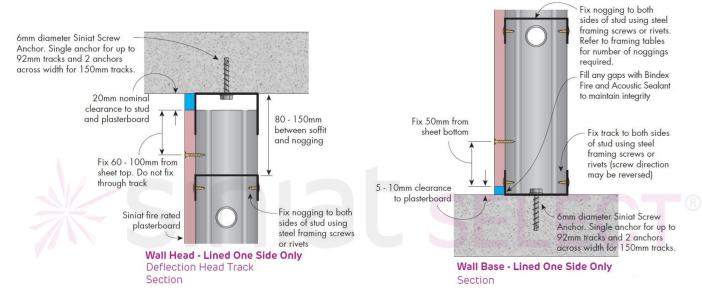
Framing Details

System No.	25
System Reference	Corridor Wall NCC-C3-NLB-S3-3
Framing System Code	SSW-FL1-AS64-13RE (SSW-FL1-AS64-13RE.1-450S23D333N-3B400950)

Framing Details

It is the responsibility of the builder to determine if below specified framing design criteria is suitable for the intended application.

Framing Design Criteria	Framing System Description
Building Importance Level: up to 3	Maximum Wall Height (mm): 3570
Wind Region: B	Stud: Single 64mm x 1.15mm Siniat Stud
Ultimate Wind Pressure, Wu (kPa): 0.95	Stud - Spacing (mm): 450
Serviceability Wind Pressure, Ws (kPa): 0.40	Head Track: 64mm x 1.15mm Siniat Track DH
Deflection Class: Maximum H/240 or 30 mm	Base Track: 64mm x 1.15mm Siniat Track
Design Standard: AS/NZS 4600:2005 'Cold	Nogging Track: 3 x 64mm x 0.7mm Siniat Track Nogging
Formed Steel Structures'	Anchor: SA6x45



Framing Notes

1. Design suitable for untiled internal plasterboard walls and not suitable for external walls.

2. Design includes self weight but is not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.

3. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.

4. The nominated lateral pressure and deflection limit must be checked for suitability for a specific project.

5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.

6. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions. Serviceability wind pressure taken as 42\% of ultimate.

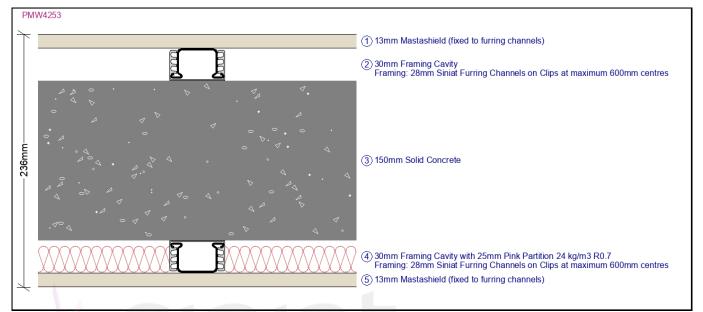
7. Calculation based upon a single span and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.

SINIAt SELECT

SINIAL SELECT

System No.	26	
System Reference	Corridor Wall NCC-C3-LB-M-1	
System Code	PMW4253	F
Comments	Masonry loadbearing wall separating SOU from public corridor, NCC Deemed-to-Satisfy construction	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL from Both Sides: Masonry FRL Airborne Rw: 57 Airborne Rw + Ctr: 47 Impact Sound Resistant: No Total Thickness (mm): 236 Insulation Pathway Total R-Value (m2.K/W): 1.28 Estimated Total Weight (kg/m2): 378.44	Side 1 Lining: 13mm Mastashield (fixed to furring channels) Side 1 Cavity: 30mm Framing Cavity Framing : 28mm Siniat Furring Channels on Clips at maximum 600mm centres Masonry: 150mm Solid Concrete Side 2 Cavity: 30mm Framing Cavity Framing : 28mm Siniat Furring Channels on Clips at maximum 600mm centres Insulation : 25mm Pink Partition 24 kg/m3 R0.7 Side 2 Lining: 13mm Mastashield (fixed to furring channels)

System Notes

1. Fire Report: Refer to masonry manufacturer

2. Acoustic Report: Acoustic opinion 1021067 (Based on Siniat System PMW4253.L1C1)

3. 13mm Mastashield can be substituted with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

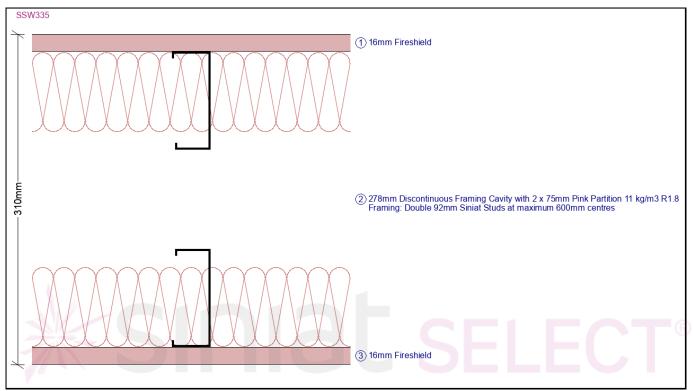
Framing Details





System No.	27	
System Reference	Separating Wall NCC-C3-NLB-BW	
System Code	SSW335	
Comments	Lightweight non-load bearing wall separating adjoining SOUs, encasing concrete blade wall.	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/90/90 Load Bearing FRL: 60/60/60 Airborne Rw: 61 Airborne Rw + Ctr: 51 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 310 Insulation Pathway Total R-Value (m2.K/W): 3.95 Estimated Total Weight (kg/m2): 30.65	Side 1 Lining: 16mm Fireshield Cavity: 278mm Discontinuous Framing Cavity Framing : Double 92mm Siniat Studs at maximum 600mm centres Insulation : 2 x 75mm Pink Partition 11 kg/m3 R1.8 Side 2 Lining: 16mm Fireshield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: CSIRO Test TL525-3 (Based on Siniat System SSW335.L1C15)
- 3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas

4. Boards, while installed horizontally, staggering of recessed joints on each side of the wall not required to achieve an FRL of -/60/60

5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

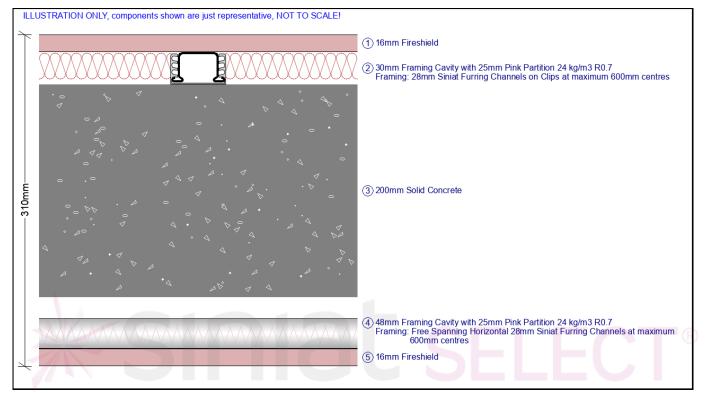
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.

SINIAL SELECT®



System No.	28	
System Reference	Separating Wall NCC-C3-LB-BW	
Comments	Loadbearing concrete blade wall inside separating wall	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 60 Airborne Rw + Ctr: 52 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 310.00 Insulation Pathway Total R-Value (m2.K/W): 1.890 Estimated Total Weight (kg/m2): 508.84	Side 1: 16mm Fireshield Cavity 1: 30mm Framing Cavity Framing : Furring Channels on Clips at maximum 600mm centres Insulation : 25mm Pink Partition 24 kg/m3 R0.7 Centre 1: 200mm Solid Concrete Cavity 2: 48mm Framing Cavity Framing : Free Spanning Horizontal Furring Channels at maximum 600mm centres Insulation : 25mm Pink Partition 24 kg/m3 R0.7 Side 2: 16mm Fireshield

System Notes

1. Acoustic Report: 1021067-L01 (Based on Siniat System PMW102)

2. 16mm Fireshield can be replaced with 16mm Multishield or 16mm Trurock in wet areas

3. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and

calculated without taking into account the thermal bridging effects of framing components.

4. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

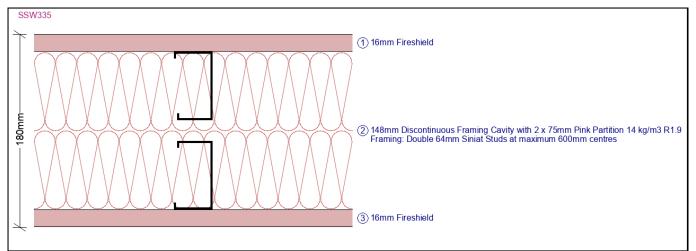
Framing Details





System No.	29	
System Reference	Separating Wall NCC-C3-NLB-1	
System Code	SSW335	
Comments	Lightweight non-load bearing wall separating adjoining SOUs	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/90/90 Load Bearing FRL: 60/60/60 Airborne Rw: 60 Airborne Rw + Ctr: 50 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 180 Insulation Pathway Total R-Value (m2.K/W): 4.13 Estimated Total Weight (kg/m2): 30.38	Side 1 Lining: 16mm Fireshield Cavity: 148mm Discontinuous Framing Cavity Framing : Double 64mm Siniat Studs at maximum 600mm centres Insulation : 2 x 75mm Pink Partition 14 kg/m3 R1.9 Side 2 Lining: 16mm Fireshield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Day Design 5008-41 (Based on Siniat System SSW335.L1C3)
- 3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas
- 4. Boards, while installed horizontally, staggering of recessed joints on each side of the wall not required to achieve an FRL of -/60/60

5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

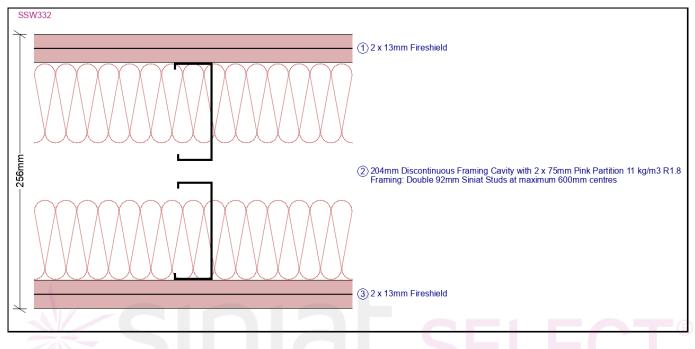
7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	30	
System Reference	Separating Wall NCC-C3-NLB-2	
System Code	SSW332	
Comments	Lightweight non-load bearing wall separating adjoining SOUs and encasing non-fire protected loadbearing component	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/120/120 Load Bearing FRL: 90/90/90 Airborne Rw: 64 Airborne Rw + Ctr: 55 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 256 Insulation Pathway Total R-Value (m2.K/W): 4.07 Estimated Total Weight (kg/m2): 46.65	Side 1 Lining: 2 x 13mm Fireshield Cavity: 204mm Discontinuous Framing Cavity Framing : Double 92mm Siniat Studs at maximum 600mm centres Insulation : 2 x 75mm Pink Partition 11 kg/m3 R1.8 Side 2 Lining: 2 x 13mm Fireshield

System Notes

1. Fire Report: FC13921

2. Acoustic Report: Day Design 4738-L12 (Based on Siniat System SSW332.L1C6)

3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

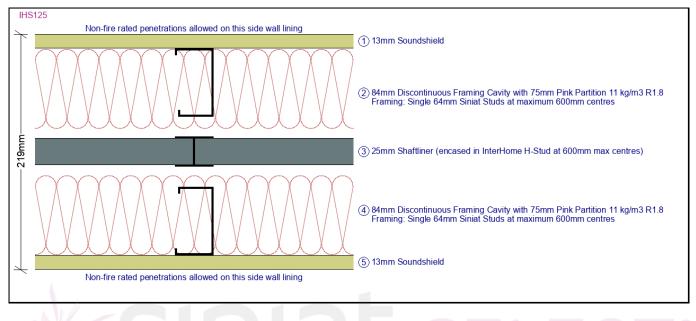
Framing Details



SINIAL SELECT

System No.	31	
System Reference	Separating Wall NCC-C3-NLB-3	
System Code	IHS125	
Comments	Lightweight non-load bearing wall separating adjoining SOUs, non- fire rated penetrations permitted on wall linings	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides	Side 1 Lining: 13mm Soundshield
Non-Load Bearing FRL: -/60/60	Side 1 Cavity: 84mm Discontinuous Framing Cavity
Airborne Rw: 66	Framing : Single 64mm Siniat Studs at maximum 600mm centres
Airborne Rw + Ctr: 53	Insulation : 75mm Pink Partition 11 kg/m3 R1.8
Impact Sound Resistant: Yes -	Central Barrier: 25mm Shaftliner (encased in InterHome H-Stud at 600mm max
Discontinuous Construction	centres)
Total Thickness (mm): 219	Side 2 Cavity: 84mm Discontinuous Framing Cavity
Insulation Pathway Total R-Value	Framing : Single 64mm Siniat Studs at maximum 600mm centres
(m2.K/W): 4.06	Insulation : 75mm Pink Partition 11 kg/m3 R1.8
Estimated Total Weight (kg/m2): 48.73	Side 2 Lining: 13mm Soundshield

System Notes

- 1. Fire Report: FAR4815
- 2. Acoustic Report: Day Design 5008-18 (Based on Siniat System IHS125.L1C2)
- 3. 13mm Soundshield can be substituted with 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

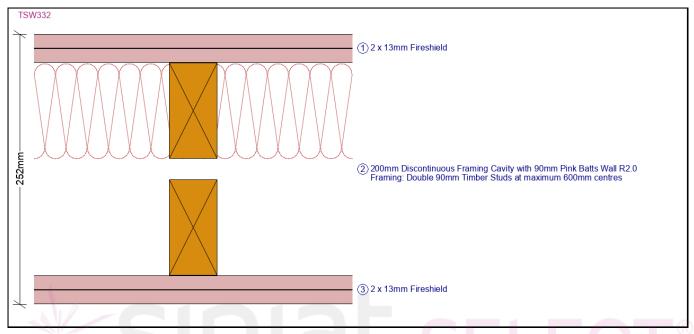
Framing Details



SINIAL SELECT

System No.	32	
System Reference	Separating Wall NCC-C3-LB-T	
System Code	TSW332	
Comments	Timber studs loadbearing wall separating adjoining SOUs in the top floor	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/120/120 Load Bearing FRL: 90/90/90 Airborne Rw: 64 Airborne Rw + Ctr: 56 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 252 Insulation Pathway Total R-Value (m2.K/W): 2.47 Estimated Total Weight (kg/m2): 51.7	Side 1 Lining: 2 x 13mm Fireshield Cavity: 200mm Discontinuous Framing Cavity Framing : Double 90mm Timber Studs at maximum 600mm centres Insulation : 90mm Pink Batts Wall R2.0 Side 2 Lining: 2 x 13mm Fireshield

System Notes

1. Fire Report: FAR3348

2. Acoustic Report: Day Design 3094-45 (Based on Siniat System TSW332.L1C7)

3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

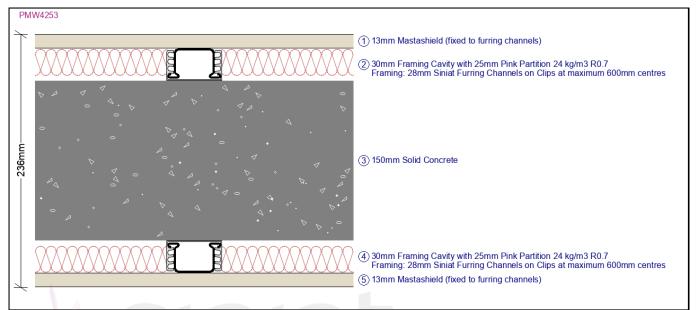
Framing Details



SINIAL SELECT

System No.	33	
System Reference	Separating Wall NCC-C3-LB-M	
System Code	PMW4253	H.
Comments	Masonry loadbearing wall separating adjoining SOUs, similar type of rooms on each side	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL from Both Sides: Masonry FRL Airborne Rw: 61 Airborne Rw + Ctr: 50 Impact Sound Resistant: No Total Thickness (mm): 236 Insulation Pathway Total R-Value (m2.K/W): 1.82 Estimated Total Weight (kg/m2): 379.04	Side 1 Lining: 13mm Mastashield (fixed to furring channels) Side 1 Cavity: 30mm Framing Cavity Framing : 28mm Siniat Furring Channels on Clips at maximum 600mm centres Insulation : 25mm Pink Partition 24 kg/m3 R0.7 Masonry: 150mm Solid Concrete Side 2 Cavity: 30mm Framing Cavity Framing : 28mm Siniat Furring Channels on Clips at maximum 600mm centres Insulation : 25mm Pink Partition 24 kg/m3 R0.7 Side 2 Lining: 13mm Mastashield (fixed to furring channels)

System Notes

1. Fire Report: Refer to masonry manufacturer

2. Acoustic Report: Acoustic opinion 1021067 (Based on Siniat System PMW4253.L1C2)

3. 13mm Mastashield can be substituted with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

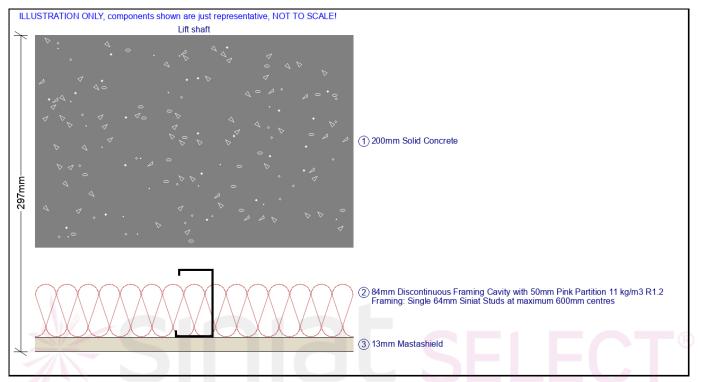
Framing Details





System No.	34	Lit skal
System Reference	Lift Shaft Wall NCC-C3-LB-1	
Comments	Masonry loadbearing wall separating SOU from a lift shaft	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL from Both Sides: Masonry FRL Airborne Rw: 59 Airborne Rw + Ctr: 52 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 297 Insulation Pathway Total R-Value (m2.K/W): 1.57 Estimated Total Weight (kg/m2): 489.79	Side 1: 200mm Solid Concrete Cavity 1: 84mm Discontinuous Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Side 2: 13mm Mastashield

System Notes

- 1. Fire Report: Refer to masonry manufacturer
- 2. Acoustic Report: ESTIMATE ONLY, based on Siniat System PMW5251.L1C2
- 3. 13mm Mastashield can be substituted with 13mm Watershield in wet areas
- 4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

Framing Details

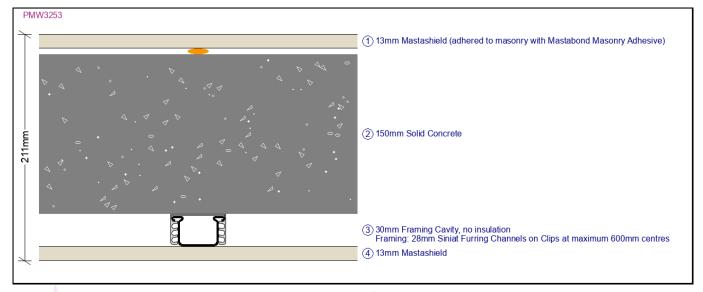


SINIAL SELECT

System No.	35	
System Reference	Stair Shaft Wall NCC-C3-LB-1	
System Code	PMW3253	
Comments	Masonry loadbearing wall separating SOU from a stair shaft, cavity on SOU side only	



System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides	Side 1 Lining: 13mm Mastashield (adhered to masonry with Mastabond Masonry
FRL from Both Sides: Masonry FRL	Adhesive)
Airborne Rw: 50	Side 1 Cavity: 5mm Cavity with Adhesive Daubs
Airborne Rw + Ctr: 44	Masonry: 150mm Solid Concrete
Impact Sound Resistant: No	Side 2 Cavity: 30mm Framing Cavity
Total Thickness (mm): 211	Framing : 28mm Siniat Furring Channels on Clips at maximum 600mm
Insulation Pathway Total R-Value	centres
(m2.K/W): 0.42	Insulation : No insulation
Estimated Total Weight (kg/m2): 377.02	Side 2 Lining: 13mm Mastashield

System Notes

- 1. Fire Report: Refer to masonry manufacturer
- 2. Acoustic Report: Acoustic opinion 1021067 (Based on Siniat System PMW3253.L1C1)
- 3. 13mm Mastashield on furring channels can be substituted with 13mm Watershield in wet areas
- 4. 13mm Mastashield adhered with Mastabond Masonry Adhesive can be substituted with 13mm render
- 5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

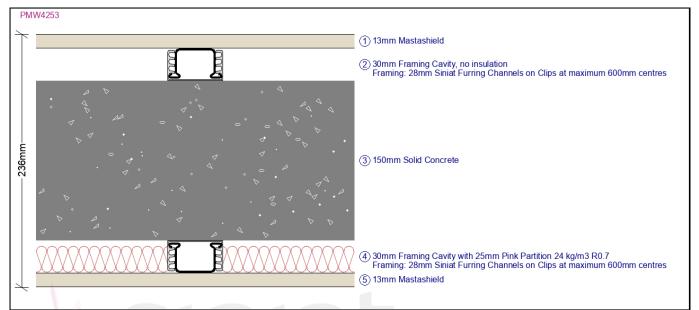
7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAL SELECT

System No.	36	
System Reference	Stair Shaft Wall NCC-C3-LB-2	
System Code	PMW4253	5
Comments	Masonry loadbearing wall separating SOU from a stair shaft, cavities on both sides	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL from Both Sides: Masonry FRL Airborne Rw: 57 Airborne Rw + Ctr: 47 Impact Sound Resistant: No Total Thickness (mm): 236 Insulation Pathway Total R-Value (m2.K/W): 1.12 Estimated Total Weight (kg/m2): 378.44	Side 1 Lining: 13mm Mastashield Side 1 Cavity: 30mm Framing Cavity Framing : 28mm Siniat Furring Channels on Clips at maximum 600mm centres Insulation : No insulation Masonry: 150mm Solid Concrete Side 2 Cavity: 30mm Framing Cavity Framing : 28mm Siniat Furring Channels on Clips at maximum 600mm centres Insulation : 25mm Pink Partition 24 kg/m3 R0.7 Side 2 Lining: 13mm Mastashield

System Notes

1. Fire Report: Refer to masonry manufacturer

2. Acoustic Report: Acoustic opinion 1021067 (Based on Siniat System PMW4253.L1C1)

3. 13mm Mastashield can be substituted with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

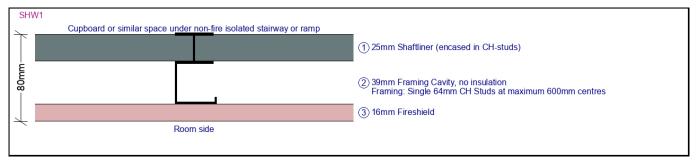
5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.



SINIAt SELECT

System No.	37	
System Reference	Cupboard Shaft Wall NCC-C3-NLB-1	
System Code	SHW1	
Comments	Lightweight non-load bearing wall enclosing cupboard or like space below non fire-isolated stairway and ramp	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/60/60 Airborne Rw: 39 Airborne Rw + Ctr: 32 Impact Sound Resistant: No Total Thickness (mm): 80 Insulation Pathway Total R-Value (m2.K/W): 0.4 Estimated Total Weight (kg/m2): 34.88	Cupboard Side Lining: 25mm Shaftliner (encased in CH-studs) Cavity: 39mm Framing Cavity Framing : Single 64mm CH Studs at maximum 600mm centres Insulation : No insulation Room Side Lining: 16mm Fireshield

System Notes

1. Fire Report: FAR2863

- 2. Acoustic Report: Day Design 3094-18 (Based on Siniat System SHW1.L1C1)
- 3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

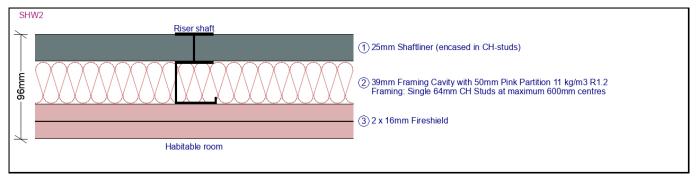
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAt SELECT

System No.	38	
System Reference	Riser Shaft Wall NCC-C3-NLB-A1-1	
System Code	SHW2	
Comments	Lightweight non-load bearing wall separating SOU from services riser shaft in a habitable room other than kitchen	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/120/120 Airborne Rw: 50 Airborne Rw + Ctr: 42 Impact Sound Resistant: No Total Thickness (mm): 96 Insulation Pathway Total R-Value (m2.K/W): 1.57 Estimated Total Weight (kg/m2): 48.43	Shaft Side Lining: 25mm Shaftliner (encased in CH-studs) Cavity: 39mm Framing Cavity Framing : Single 64mm CH Studs at maximum 600mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Room Side Lining: 2 x 16mm Fireshield

System Notes

1. Fire Report: FAR2863

2. Acoustic Report: Day Design 3094-18 (Based on Siniat System SHW2.L1C2)

3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

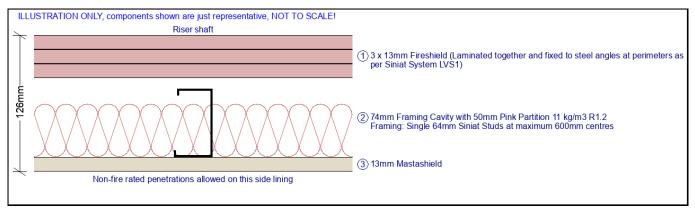
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	39	How that
System Reference	Riser Shaft Wall NCC-C3-NLB-A1-2	
Comments	Lightweight non-load bearing wall separating SOU from services riser shaft in a habitable room other than kitchen, non-fire rated penetrations allowed on room side	No do rand pandnino sheed of the set long

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL1: -/90/90 Airborne Rw: 53 Airborne Rw + Ctr: 41 Total Thickness (mm): 126.00 Insulation Pathway Total R-Value (m2.K/W): 1.670 Estimated Total Weight (kg/m2): 41.29	Side 1: 3 x 13mm Fireshield (Laminated together and fixed to steel angles at perimeters as per Siniat System LVS1) Cavity 1: 74mm Framing Cavity Framing : Single Steel Studs at maximum 600mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Side 2: 13mm Mastashield

System Notes

- 1. Fire Report: FAR1660 (Based on Siniat System LVS1)
- 2. Acoustic Report: Insul v9 prediction
- 3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas
- 4. 13mm Mastashield can be substituted with 13mm Watershield in wet areas

5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

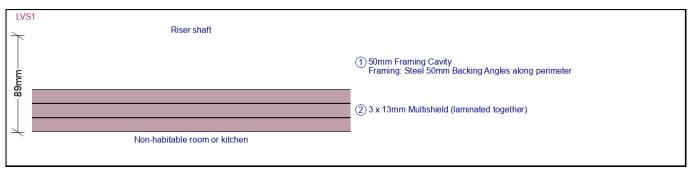
7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAL SELECT

System No.	40	
System Reference	Riser Shaft Wall NCC-C3-NLB-A2-1	
System Code	LVS1	
Comments	Lightweight non-load bearing wall separating SOU from services riser shaft in a kitchen or non-habitable room	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL: -/90/90 Airborne Rw: 37 Airborne Rw + Ctr: 34 Total Thickness (mm): 89 Insulation Pathway Total R-Value (m2.K/W): 0.39 Estimated Total Weight (kg/m2): 33.32	Cavity 1: 50mm Framing Cavity Framing : Steel 50mm Backing Angles along perimeter Duct Lining: 3 x 13mm Multishield (laminated together)

System Notes

- 1. Fire Report: FAR3361, FAR1660
- 2. Acoustic Report: Day Design 3094-33 (Based on Siniat System LVS1.L2C1)
- 3. Laminated Vertical Duct can be 1, 2, 3 or 4 sided
- 4. Minimum 50mm x 50mm x 0.7mm BMT Steel angles must be provided at perimeter as per Blueprint technical manual
- 5. Maximum height and maximum width restrictions apply, refer to Blueprint technical manual

6. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

7. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

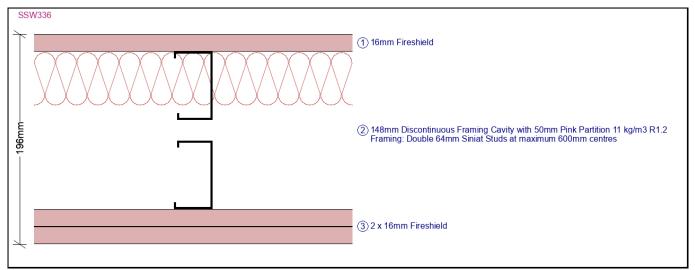
8. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	41	
System Reference	Plant Room Wall NCC-C3-NLB-1	
System Code	SSW336	
Comments	Lightweight non-load bearing wall separating SOU from plant room	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides Non-Load Bearing FRL: -/120/120 Load Bearing FRL: 60/60/60 Airborne Rw: 59 Airborne Rw + Ctr: 48 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 196 Insulation Pathway Total R-Value (m2.K/W): 1.64 Estimated Total Weight (kg/m2): 41.83	Side 1 Lining: 16mm Fireshield Cavity: 148mm Discontinuous Framing Cavity Framing : Double 64mm Siniat Studs at maximum 600mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Side 2 Lining: 2 x 16mm Fireshield

System Notes

- 1. Fire Report: FC13921
- 2. Acoustic Report: Day Design 3094-33 (Based on Siniat System SSW336.L1C2)
- 3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

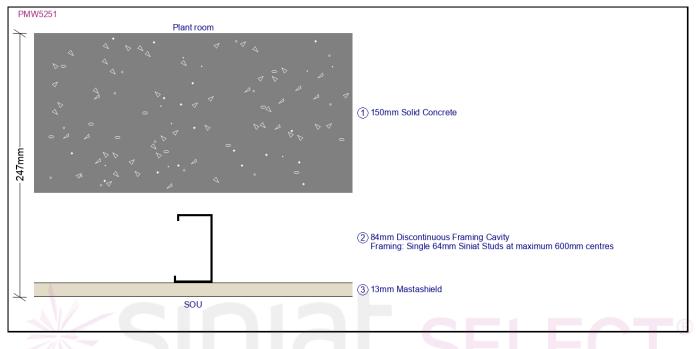
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	42	
System Reference	Plant Room Wall NCC-C3-LB-1	
System Code	PMW5251	
Comments	Masonry loadbearing wall separating SOU from plant room	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from both sides FRL from Both Sides: Masonry FRL Airborne Rw: 52 Airborne Rw + Ctr: 46 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 247 Insulation Pathway Total R-Value (m2.K/W): 0.5 Estimated Total Weight (kg/m2): 369.24	Side 1: 150mm Solid Concrete Cavity 1: 84mm Discontinuous Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Side 2: 13mm Mastashield

System Notes

1. Fire Report: Refer to masonry manufacturer

2. Acoustic Report: Acoustic opinion 1021067 (Based on Siniat System PMW5251.L1C1)

3. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

4. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

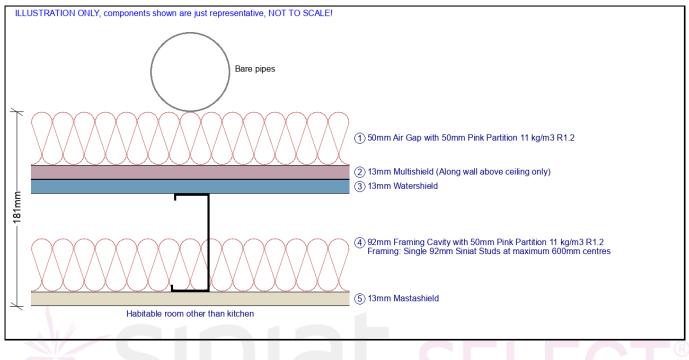
5. Refer to latest published Siniat Technical Manual for installation instructions and construction details.





System No.	43	Dam pers
System Reference	Waste Pipe Wall NCC-C3-NLB-A1	
Comments	Lightweight non-load bearing wall separating SOU from soil and waste pipes without acoustic lagging in a habitable room other than kitchen	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 48 Airborne Rw + Ctr: 40 Total Thickness (mm): 181 Insulation Pathway Total R-Value (m2.K/W): 2.79 Estimated Total Weight (kg/m2): 30.8	 Pipes: Bare pipes Pipe Side Cavity: 50mm Air Gap Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Additional Lining in Ceiling Plenum: 13mm Multishield (Along wall above ceiling only) Bathroom Side Lining: 13mm Watershield Wall Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Studs at maximum 600mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Habitable Room Side Lining: 13mm Mastashield

System Notes

1. Acoustic Report: ESTIMATE ONLY, based on Siniat System SWP114.L1C2

2. Pipes must not be in contact with framing member, insulation or plasterboard

3. Wall insulation must extend to minimum 500mm below ceiling

4. Ceiling insulation can be placed along wall or above ceiling

5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

6. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

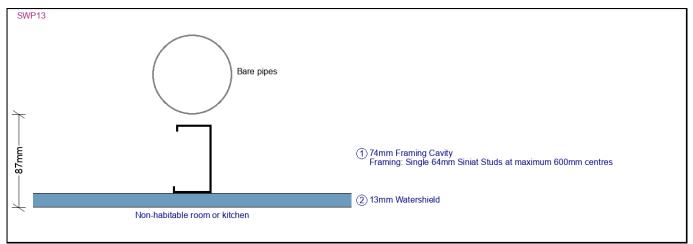
7. Refer to latest published Siniat Technical Manual for installation instructions and construction details.



SINIAt SELECT

System No.	44	\bigcirc
System Reference	Waste Pipe Wall NCC-C3-NLB-A2	
System Code	SWP13	
Comments	Lightweight non-load bearing wall or ceiling separating SOU from soil and waste pipes without acoustic lagging in a kitchen or non- habitable room	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 29 Airborne Rw + Ctr: 26 Total Thickness (mm): 87 Insulation Pathway Total R-Value (m2.K/W): 0.24 Estimated Total Weight (kg/m2): 10.54	Pipes: Bare pipes Cavity 1: 74mm Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Wall Lining: 13mm Watershield

System Notes

- 1. Acoustic Report: Day Design 3094-35 (Based on Siniat System SWP13.L1C1)
- 2. 13mm Mastashield can be substituted with 13mm Watershield in wet areas
- 3. Pipes must not be in contact with framing member, insulation or plasterboard

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

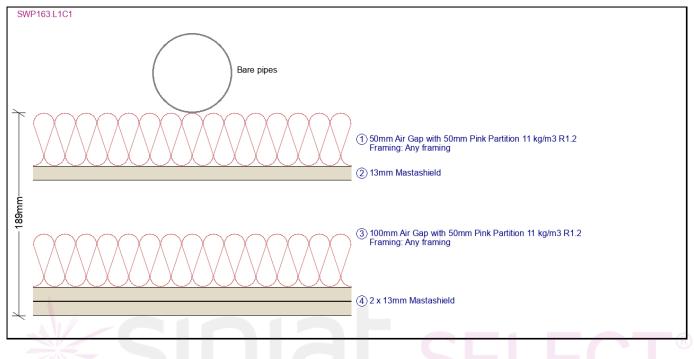
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAL SELECT

System No.	45	Inner duct lining
System Reference	Waste Pipe Ceiling NCC-C3-A1-1	\$50mm
System Code	SWP163	
Comments	Ceiling separating SOU from soil and waste pipes without acoustic lagging in a habitable room other than kitchen	Outer lining -

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Total Thickness (mm): 189 Rw: 54 Rw + Ctr: 41 Estimated Total Weight (kg/m2): 25.4	Encasing Box Lining: 13mm Mastashield Wall or Ceiling Lining: 2 x 13mm Mastashield Pipe Side Cavity - Description: Air Gap Encasing Box Framing : Any framing Pipe Side Cavity - Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Pipe Side Cavity - Size: 50 Wall or Ceiling Cavity - Description: Air Gap Outer Framing : Any framing Wall or Ceiling Cavity - Stud Size : NA Wall or Ceiling Cavity - Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Wall or Ceiling Cavity - Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Wall or Ceiling Cavity - Size: 100 Downlights - Counts: 4

System Notes

- 1. Acoustic Report: Day Design 5008-1
- 2. Number of downlights per 5 m2 area, downlights should be evenly distributed and no closer than 900mm apart
- 3. Pipes must not be in contact with framing member, insulation or plasterboard
- 4. No connection between inner and outer plasterboard layers
- 5. Soil and waste pipe systems can be a ceiling, wall, bulkhead or duct
- 6. Insulation to 1200mm minimum on both sides of pipe

7. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

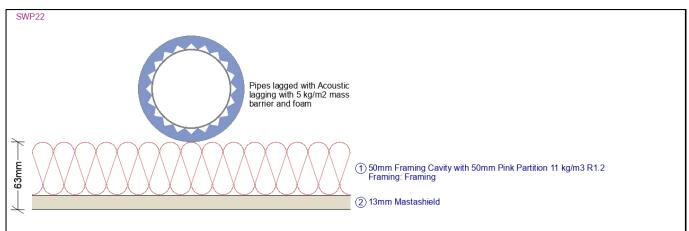
8. Refer to latest published Siniat Technical Manual for installation instructions and construction details.



SINIAL SELECT

System No.	46	
System Reference	Waste Pipe Ceiling NCC-C3-A1-2	
System Code	SWP22	
Comments	Lightweight non-load bearing wall or ceiling separating SOU from soil and waste pipes with acoustic lagging in a habitable room other than kitchen	•

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 48 Airborne Rw + Ctr: 40 Total Thickness (mm): 63 Estimated Total Weight (kg/m2): 8.65	Pipes: Pipes lagged with Acoustic lagging with 5 kg/m2 mass barrier and foam Wall or Ceiling Cavity: 50mm Framing Cavity Framing : Framing Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Wall or Ceiling Lining: 13mm Mastashield

System Notes

1. Acoustic Report: Day Design 3094-35 (Based on Siniat System SWP22.L1C2)

2. Pipes must not be in contact with framing member, insulation or plasterboard

3. Soil and waste pipe systems can be a ceiling, wall, bulkhead or duct

4. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

5. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

47

CUC34

Separating Floor NCC-C3-LB-1

Floors separating adjoining SOUs



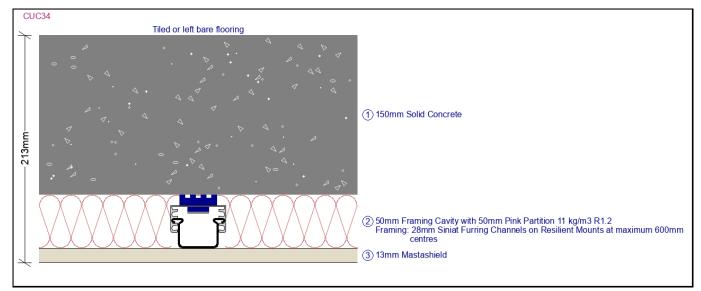
System Illustration

System No.

System Code

Comments

System Reference



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 62 Airborne Rw + Ctr: 52 Impact Ln,w: 62 Total Thickness (mm): 213 Estimated Total Weight (kg/m2): 369.47	Floor Covering: Tiled or left bare flooring Flooring: 150mm Solid Concrete Ceiling Cavity: 50mm Framing Cavity Framing : 28mm Siniat Furring Channels on Resilient Mounts at maximum 600mm centres (Maximum furring channel spacing 600mm) Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Ceiling Lining: 13mm Mastashield

System Notes

1. Acoustic Report: Day Design 5008-25 (Based on Siniat System CUC34.L1C2)

2. 13mm Mastashield can be substituted with 13mm Watershield in wet areas

3. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

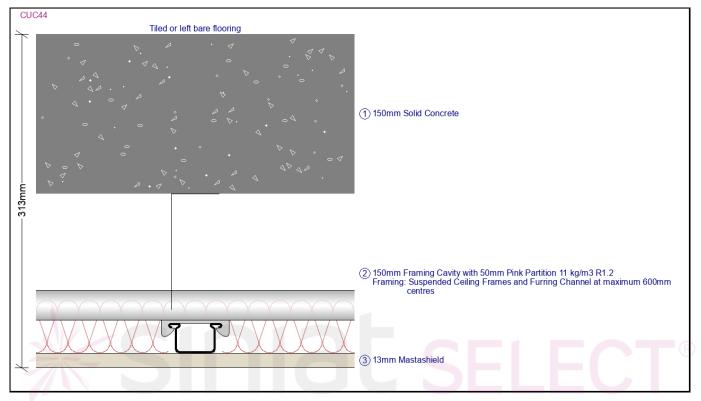
4. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details



System No.	48	
System Reference	Separating Floor NCC-C3-LB-2	
System Code	CUC44	- on
Comments	Floors separating adjoining SOUs	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 63 Airborne Rw + Ctr: 52 Impact Ln,w: 61 Total Thickness (mm): 313 Estimated Total Weight (kg/m2): 369.27	Floor Covering: Tiled or left bare flooring Flooring: 150mm Solid Concrete Ceiling Cavity: 150mm Framing Cavity Framing : Suspended Ceiling Frames and Furring Channel at maximum 600mm centres (Maximum furring channel spacing 600mm) Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Ceiling Lining: 13mm Mastashield

System Notes

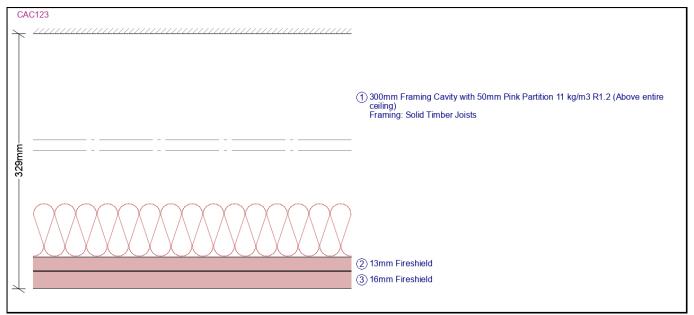
- 1. Acoustic Report: Day Design 5008-25 (Based on Siniat System CUC44.L1C4)
- 2. 13mm Mastashield can be substituted with 13mm Watershield in wet areas
- 3. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 4. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAt SELECT

System No.	49	1 1 1
System Reference	Ceiling Under Roof NCC-C3-LB-1	
Comments	Ceilings under roofs, separating wall only extends to the ceiling level	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from below only RISF: 60 Airborne Rw: 59 Airborne Rw + Ctr: 50 Total Thickness (mm): 329.00 Estimated Total Weight (kg/m2): 24.05	Acoustic Barrier: No acoustic barrier Ceiling Cavity: 300mm Framing Cavity Framing : Solid Timber Joists (Joists must be discontinuous over wall) Insulation : 50mm Pink Partition 11 kg/m3 R1.2 (Above entire ceiling) Ceiling Lining: 13mm Fireshield plus 16mm Fireshield

System Notes

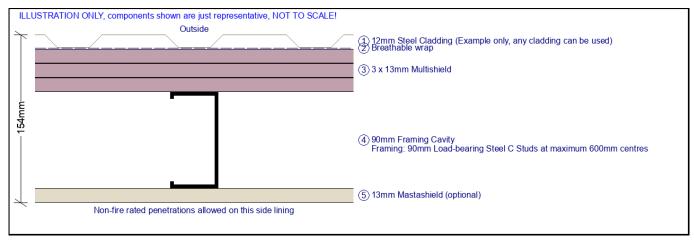
- 1. Fire Report: FAR2879 (Based on Siniat System CUR213)
- 2. Acoustic Report: Day Design 4738-5 (Based on Siniat System CAC123.L1C3)
- 3. Ceiling can be under a floor or roof with discontinuous timber or steel framing
- 4. Not acoustically treated penetrations in ceiling lining, other than 1 downlight per 5m2 of ceiling, may degrade sound insulation performance.
- 5. Wall must be double stud timber or steel frame wall with minimum 20mm air-gap
- 6. Wall to have equal or higher sound insulation rating than CAC ceiling
- 7. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 8. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAL SELECT

System No.	50	0000
System Reference	Fire Escape Wall NCC-C3-LB-1	
Comments	Loadbearing wall of fire-isolated passageway	Host-fire railed pandwinters offered on this solar limiting

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from outside	External cladding: 12mm Steel Cladding (Example only, any cladding can be used)
only	Sarking: Any Breathable wrap
FRL From Outside Only: 90/90/90	External Lining: 3 x 13mm Multishield
Total Thickness (mm): 154	Wall Cavity: 90mm Framing Cavity
Insulation Pathway Total R-Value	Framing : 90mm Load-bearing Steel C Studs at maximum 600mm centres
(m2.K/W): 0.63	(Example only, loadbearing framing as per structural design)
Estimated Total Weight (kg/m2): 48.6	Internal Lining: 13mm Mastashield (optional)

System Notes

1. Fire Report: FC13921

2. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

3. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

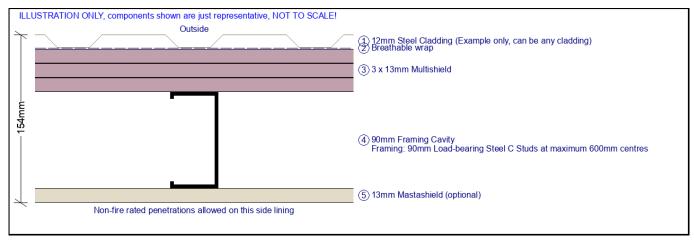
4. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAL SELECT

System No.	51	0.655
System Reference	Fire Escape Roof NCC-C3-LB-1	
Comments	Roof of a fire-isolated passageway, fire-resisting lift or stair shaft	Hon-fire railed percentrations ellowed on this side limits

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from outside only FRL: 90/90/90 Total Thickness (mm): 154 Estimated Total Weight (kg/m2): 48.6	Roof: 12mm Steel Cladding (Example only, can be any cladding) Sarking: Any Breathable wrap External Lining: 3 x 13mm Multishield Roof Cavity: 90mm Framing Cavity Framing : 90mm Load-bearing Steel C Studs at maximum 600mm centres (Example only, loadbearing framing as per structural design) Internal Lining: 13mm Mastashield (optional)

System Notes

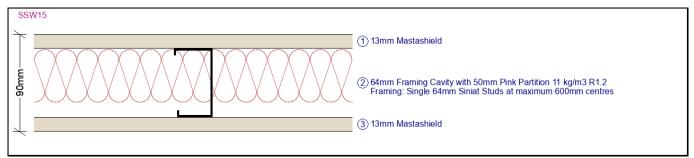
- 1. Fire Report: FAR4456 (Based on Siniat System SSC7)
- 2. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
- 3. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

SINIAt SELECT

System No.	52	
System Reference	Partition Wall NCC-C3-NLB-1	
System Code	SSW15	
Comments	Typical internal partition wall	

System Illustration



System Details

It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne Rw: 42 Airborne Rw + Ctr: 33 Impact Sound Resistant: No Total Thickness (mm): 90 Insulation Pathway Total R-Value (m2.K/W): 1.51 Estimated Total Weight (kg/m2): 17.89	Side 1 Lining: 13mm Mastashield Cavity: 64mm Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Side 2 Lining: 13mm Mastashield

System Notes

1. Acoustic Report: Day Design 3094-33 (Based on Siniat System SSW15.L1C4)

2. Acoustic ratings valid for minimum BMT studs at 600mm centres

3. 13mm Mastashield can be substituted with 13mm Watershield in wet areas

4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.

5. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.

6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

