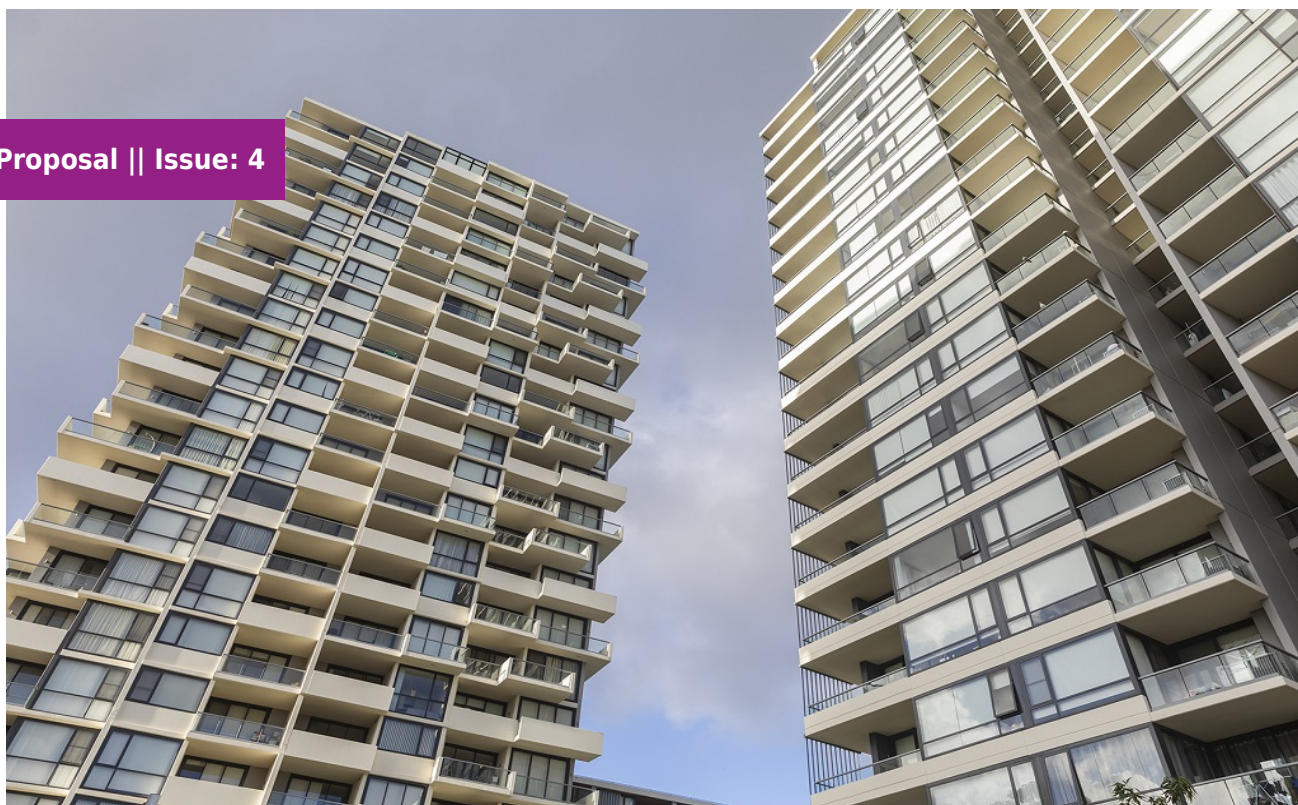


Proposal || Issue: 4



Siniat Proposal

NCC Class 2 - HighRise MultiUnits Residential Building

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 2 high-rise multi-units residential 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.

Contents

SECTION 1 SYSTEM LIST

SECTION 2 SYSTEM SUMMARY

SECTION 3 SYSTEM DETAILS

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 accordance 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.

Section 1

System List



System Reference	System Properties
<p>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.</p>	
<p>External Wall NCC-C2-NLB-F1 (Lightweight non-loadbearing external wall, less than 1.5 m from fire-source feature. No non-fire protected loadbearing components inside the wall.)</p>	<p>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</p>
<p>External Wall NCC-C2-NLB-F2 (Lightweight non-loadbearing external wall, 1.5 m to less than 3 m from fire-source feature. No non-fire protected loadbearing components inside the wall.)</p>	<p>Fire Protection : Rated from both sides; Non-Load Bearing FRL : -/60/60; Load Bearing FRL : 30/30/30; Airborne Rw : 46; Airborne Rw + Ctr : 39; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 2.49</p>
<p>External Wall NCC-C2-NLB-F3 (Lightweight non-loadbearing external wall encasing non-fire protected loadbearing component)</p>	<p>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</p>
<p>External Wall NCC-C2-LB-F1 (External loadbearing concrete shear wall)</p>	<p>Fire Protection : Rated from both sides; FRL : Masonry FRL; Airborne Rw : 64; Airborne Rw + Ctr : 53; Insulation Pathway Total R-Value (m2.K/W) : 2.520</p>
<p>Spandrel Wall NCC-C2-NLB-F1 (Lightweight non-loadbearing fire-rated spandrel wall)</p>	<p>Fire Protection : Rated from both sides; FRL1 : -/60/60; FRL2 : 30/30/30; Airborne Rw : 41; Airborne Rw + Ctr : 32; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 2.310</p>
<p>Spandrel Wall NCC-C2-LB-F1 (Lightweight loadbearing fire-rated spandrel wall)</p>	<p>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) : 2.350</p>
<p>External Wall NCC-C2-NLB-A1 (Lightweight non-loadbearing external wall - Rw 41, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall.)</p>	<p>Airborne Rw : 43; Airborne Rw + Ctr : 32; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 2.390</p>
<p>External Wall NCC-C2-NLB-A2 (Lightweight non-loadbearing external wall - Rw 47, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall.)</p>	<p>Airborne Rw : 48; Airborne Rw + Ctr : 40; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 2.480</p>
<p>External Wall NCC-C2-NLB-A3-1 (Lightweight non-loadbearing external wall - Rw 52, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall.)</p>	<p>Airborne Rw : 53; Airborne Rw + Ctr : 42; Impact Sound Resistant : Yes; Insulation Pathway Total R-Value (m2.K/W) : 2.410</p>
<p>External Wall NCC-C2-NLB-A3-2 (Lightweight non-loadbearing external wall - Rw 52, 3 m or more from fire-source feature. No non-fire protected loadbearing components inside the wall.)</p>	<p>Airborne Rw : 52; Airborne Rw + Ctr : 44; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 2.610</p>
<p>Corridor Wall NCC-C2-NLB-S1-1 (Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.375 kPa)</p>	<p>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</p>
<p>Corridor Wall NCC-C2-NLB-S1-2 (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 0.39 kPa)</p>	<p>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</p>

System Reference	System Properties
<p>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.</p>	
<p>Corridor Wall NCC-C2-NLB-S1-3 (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 0.39kPa)</p>	<p>Fire Protection : Rated from both sides; FRL1 : -/60/60; Airborne Rw : 51; Airborne Rw + Ctr : 36; Insulation Pathway Total R-Value (m2.K/W) : 2.860</p>
<p>Corridor Wall NCC-C2-NLB-S2 (Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.54 kPa)</p>	<p>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</p>
<p>Corridor Wall NCC-C2-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)</p>	<p>Fire Protection : Rated from both sides; FRL1 : -/120/120; FRL2 : 90/90/90; Airborne Rw : 51; Airborne Rw + Ctr : 45; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 2.270</p>
<p>Corridor Wall NCC-C2-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)</p>	<p>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</p>
<p>Corridor Wall NCC-C2-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)</p>	<p>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</p>
<p>Corridor Wall NCC-C2-LB-M-1 (Masonry loadbearing wall separating SOU from public corridor, NCC Deemed-to-Satisfy construction)</p>	<p>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</p>
<p>Separating Wall NCC-C2-NLB-BW (Lightweight non-load bearing wall separating adjoining SOUs, encasing concrete blade wall.)</p>	<p>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</p>
<p>Separating Wall NCC-C2-LB-BW (Loadbearing concrete blade wall inside separating wall)</p>	<p>Airborne Rw : 60; Airborne Rw + Ctr : 52; Impact Sound Resistant : Yes - Discontinuous Construction; Insulation Pathway Total R-Value (m2.K/W) : 1.850</p>
<p>Separating Wall NCC-C2-NLB-F1-1 (Lightweight non-load bearing wall separating adjoining SOUs, no non-fire protected loadbearing components inside the wall)</p>	<p>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) : 3.93</p>
<p>Separating Wall NCC-C2-NLB-F1-2 (Lightweight non-load bearing wall separating adjoining SOUs, no non-fire protected loadbearing components inside the wall, can have non-fire rated penetrations on each side of the wall)</p>	<p>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</p>
<p>Separating Wall NCC-C2-NLB-F1-3 (Lightweight non-load bearing wall separating adjoining SOUs, wet areas on both sides, no non-fire protected loadbearing components inside the wall, can have non-fire rated penetrations on each side of the wall)</p>	<p>Fire Protection : Rated from both sides; Non-Load Bearing FRL : -/60/60; Airborne Rw : 65; Airborne Rw + Ctr : 50; Impact Sound Resistant : Yes - Discontinuous Construction; Insulation Pathway Total R-Value (m2.K/W) : 4.06</p>

System Reference	System Properties
<p>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.</p>	
<p>Separating Wall NCC-C2-NLB-F2 (Lightweight non-load bearing wall separating adjoining SOUs, non-fire protected loadbearing components inside the wall)</p>	<p>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</p>
<p>Separating Wall NCC-C2-LB-T-F1 (Timber loadbearing wall separating adjoining SOUs on top floor, start at slab below and finish under a roof and Installed as per separating wall (InterHome wall) between single dwellings)</p>	<p>Fire Protection : Rated from both sides; Load Bearing FRL : 90/90/90; Airborne Rw : 69; Airborne Rw + Ctr : 55; Impact Sound Resistant : Yes - Discontinuous Construction; Insulation Pathway Total R-Value (m2.K/W) : 4.150</p>
<p>Separating Wall NCC-C2-LB-M-1 (Masonry loadbearing wall separating adjoining SOUs)</p>	<p>Fire Protection : Rated from both sides; FRL from Both Sides : Masonry FRL; Airborne Rw : 61; Airborne Rw + Ctr : 51; Impact Sound Resistant : Yes - Discontinuous Construction; Insulation Pathway Total R-Value (m2.K/W) : 1.78</p>
<p>Lift Shaft Wall NCC-C2-LB-M-1 (Masonry loadbearing wall separating SOU from a lift shaft or plant room)</p>	<p>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) : 1.54</p>
<p>Stair Shaft Wall NCC-C2-LB-M-1 (Masonry loadbearing wall separating SOU from a stair shaft, cavity on SOU side only)</p>	<p>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</p>
<p>Cupboard Shaft Wall NCC-C2-NLB-F1 (Lightweight non-load bearing wall enclosing cupboard or like under non fire-isolated stairway and ramp)</p>	<p>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) : 0.56</p>
<p>Riser Shaft Wall NCC-C2-NLB-A1-1 (Lightweight non-load bearing wall separating SOU from services riser shaft in a habitable room other than kitchen)</p>	<p>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</p>
<p>Riser Shaft Wall NCC-C2-NLB-A1-2 (Lightweight non-load bearing wall separating SOU from services riser shaft in a habitable room other than kitchen, non-fire rated service penetrations allowed on room side)</p>	<p>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</p>
<p>Riser Shaft Wall NCC-C2-NLB-A2-1 (Lightweight non-load bearing wall separating SOU from services riser shaft in a kitchen or non-habitable room)</p>	<p>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</p>
<p>Riser Shaft Wall NCC-C2-NLB-A2-2 (Lightweight non-load bearing wall separating SOU from services riser shaft in a kitchen or non-habitable room, non-fire rated service penetrations allowed on SOU side)</p>	<p>Fire Protection : Rated from both sides; FRL : -/90/90; Airborne Rw : 44; Airborne Rw + Ctr : 33; Insulation Pathway Total R-Value (m2.K/W) : 0.63</p>
<p>Waste Pipe Wall NCC-C2-A1-1 (Lightweight non-load bearing wall separating SOU from soil and waste pipes in a habitable room other than kitchen, pipes without acoustic lagging)</p>	<p>Airborne Rw : 48; Airborne Rw + Ctr : 40; Insulation Pathway Total R-Value (m2.K/W) : 2.79</p>
<p>Waste Pipe Wall NCC-C2-A1-2 (Lightweight non-load bearing wall separating SOU from soil and waste pipes in a habitable room other than kitchen, pipes with acoustic lagging)</p>	<p>Airborne Rw : 48; Airborne Rw + Ctr : 40; Insulation Pathway Total R-Value (m2.K/W) : 1.51</p>
<p>Waste Pipe Wall NCC-C2-A2-1 (Lightweight non-load bearing wall separating SOU from soil and waste pipes in a kitchen or non-habitable room, pipes without acoustic lagging)</p>	<p>Airborne Rw : 32; Airborne Rw + Ctr : 28; Insulation Pathway Total R-Value (m2.K/W) : 1.44</p>

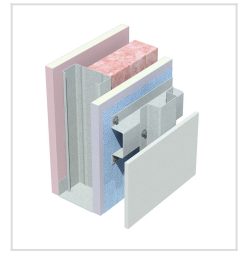
System Reference	System Properties
<p>It is the responsibility of project certifier to determine if below specified products and performances are suitable for the intended application. System properties like FRL, Rw, Rw + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.</p>	
<p>Waste Pipe Wall NCC-C2-A2-2 (Lightweight non-load bearing wall separating SOU from soil and waste pipes in a kitchen or non-habitable room, pipes with acoustic lagging)</p>	<p>Airborne Rw : 45; Airborne Rw + Ctr : 35; Insulation Pathway Total R-Value (m2.K/W) : 0.24</p>
<p>Waste Pipe Ceiling NCC-C2-A1-1 (Ceiling separating SOU from soil and waste pipes in a habitable room other than kitchen, pipes without acoustic lagging)</p>	<p>Airborne Rw : 53; Airborne Rw + Ctr : 40</p>
<p>Waste Pipe Ceiling NCC-C2-A1-2 (Ceiling separating SOU from soil and waste pipes in a habitable room other than kitchen, pipes with acoustic lagging)</p>	<p>Airborne Rw : 48; Airborne Rw + Ctr : 40</p>
<p>Waste Pipe Ceiling NCC-C2-A2-1 (Ceiling separating SOU from soil and waste pipes in a kitchen or non-habitable room, pipes without acoustic lagging)</p>	<p>Airborne Rw : 32; Airborne Rw + Ctr : 28</p>
<p>Waste Pipe Ceiling NCC-C2-A2-2 (Ceiling separating SOU from soil and waste pipes in a kitchen or non-habitable room, pipes with acoustic lagging)</p>	<p>Airborne Rw : 45; Airborne Rw + Ctr : 35</p>
<p>Separating Floor NCC-C2-A1-1 (Floors separating adjoining SOUs, minimum 150mm concrete slab and 50mm ceiling cavity)</p>	<p>Airborne Rw : 62; Airborne Rw + Ctr : 52; Impact Ln,w : 62</p>
<p>Separating Floor NCC-C2-A1-2 (Floors separating adjoining SOUs, minimum 150mm concrete slab and 150mm ceiling cavity)</p>	<p>Airborne Rw : 63; Airborne Rw + Ctr : 52; Impact Ln,w : 61</p>
<p>Separating Floor NCC-C2-F1 (Floor separating SOUs, separating wall extends to ceiling level only or whenever RISF 60 ceiling is required)</p>	<p>Fire Protection : Rated from below only; FRL : 60/60/60; RISF : 60; Airborne Rw : 67; Airborne Rw + Ctr : 56; Impact Ln,w : 59</p>
<p>Roof NCC-C2-F1 (Ceilings under roofs, separating wall extends to ceiling level only)</p>	<p>Fire Protection : Rated from below only; FRL : 60/60/60; RISF : 60</p>
<p>Fire Escape Wall NCC-C2-LB-F1 (Loadbearing wall of fire-isolated passageway)</p>	<p>Fire Protection : Rated from outside only; FRL : 90/90/90; Insulation Pathway Total R-Value (m2.K/W) : 0.630</p>
<p>Fire Escape Roof NCC-C2-LB-F1 (Roof of a fire-isolated passageway, fire-resisting lift or stair shaft)</p>	<p>Fire Protection : Rated from above only; FRL : 90/90/90</p>
<p>Partition Wall NCC-C2-A1 (Internal partition wall between home theatre or music room and bedroom)</p>	<p>Airborne Rw : 62; Airborne Rw + Ctr : 54; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 2.27</p>
<p>Partition Wall NCC-C2-A2 (Internal partition wall between lounge room and bedroom)</p>	<p>Airborne Rw : 50; Airborne Rw + Ctr : 42; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 2.11</p>
<p>Partition Wall NCC-C2-A3 (Typical internal partition wall)</p>	<p>Airborne Rw : 42; Airborne Rw + Ctr : 33; Impact Sound Resistant : No; Insulation Pathway Total R-Value (m2.K/W) : 1.51</p>

Section 2

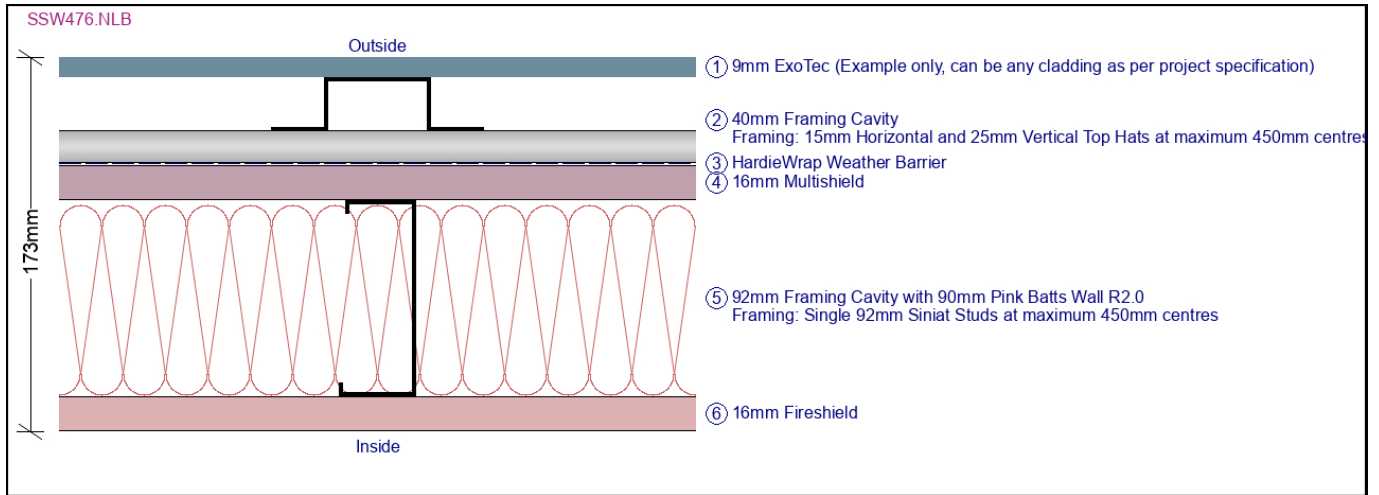
System Details



System No.	1
System Reference	External Wall NCC-C2-NLB-F1
System Code	SSW476.NLB
Comments	Lightweight non-loadbearing external wall, less than 1.5 m from fire-source feature. No non-fire protected loadbearing components inside the 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: 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 example only, specific R value to comply with NCC Volume One Section J requirements.) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 16mm Fireshield

System Notes

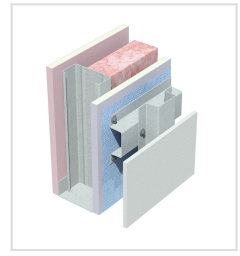
1. Fire Report: FC13921
2. Acoustic Report: Insul v9 prediction
3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas
4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into 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

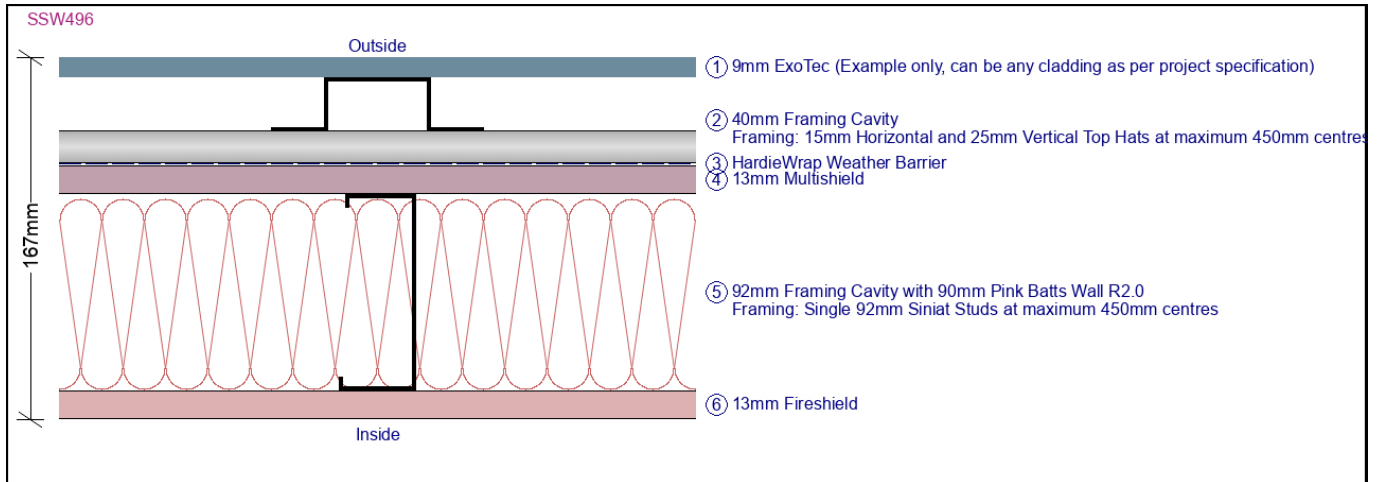
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	2
System Reference	External Wall NCC-C2-NLB-F2
System Code	SSW496
Comments	Lightweight non-loadbearing external wall, 1.5 m to less than 3 m from fire-source feature. No non-fire protected loadbearing components inside the 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, R_w, R_w + C_{tr}, 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 R _w : 46 Airborne R _w + C _{tr} : 39 Impact Sound Resistant: No Total Thickness (mm): 167 Insulation Pathway Total R-Value (m ² .K/W): 2.49 Estimated Total Weight (kg/m ²): 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 example only, specific R value to comply with NCC Volume One Section J requirements.) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 13mm Fireshield

System Notes

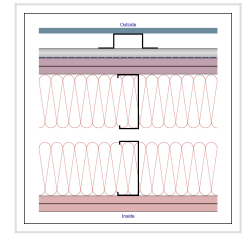
1. Fire Report: FC13921
2. Acoustic Report: Insul v9 prediction
3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas
4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into 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

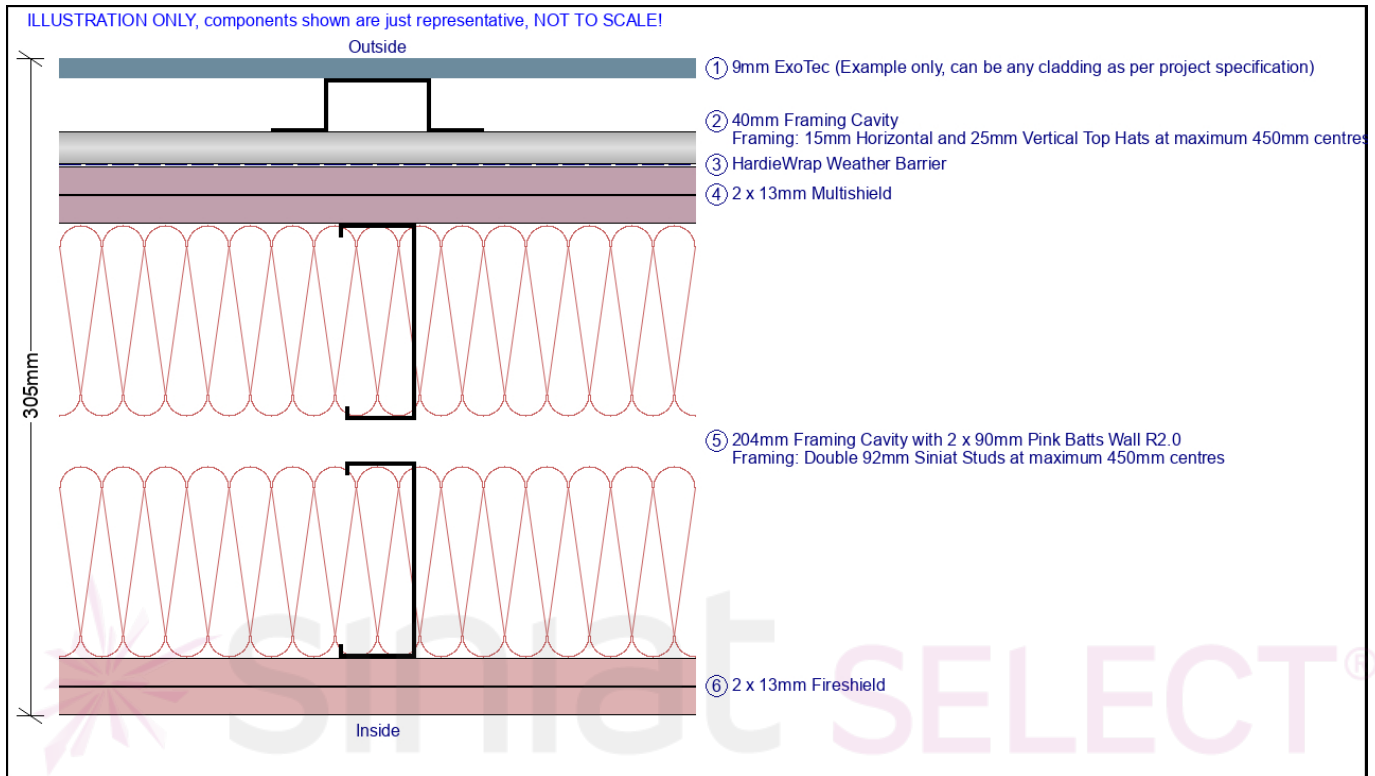
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	3
System Reference	External Wall NCC-C2-NLB-F3
Comments	Lightweight non-loadbearing external wall 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, R_w , $R_w + C_{tr}$, 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 R_w : 69 Airborne $R_w + C_{tr}$: 57 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 305.00 Insulation Pathway Total R-Value (m ² .K/W): 4.640 Estimated Total Weight (kg/m ²): 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. Insulation example only, specific R value to comply with NCC Volume One Section J requirements. Cavity size, as required to encase loadbearing elements.) Insulation : 2 x 90mm Pink Batts Wall R2.0 Internal Lining: 2 x 13mm Fireshield

System Notes

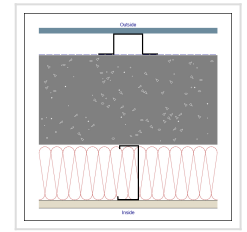
1. Fire Report: FC13921
2. Acoustic Report: Insul v9 prediction
3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet areas
4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into 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

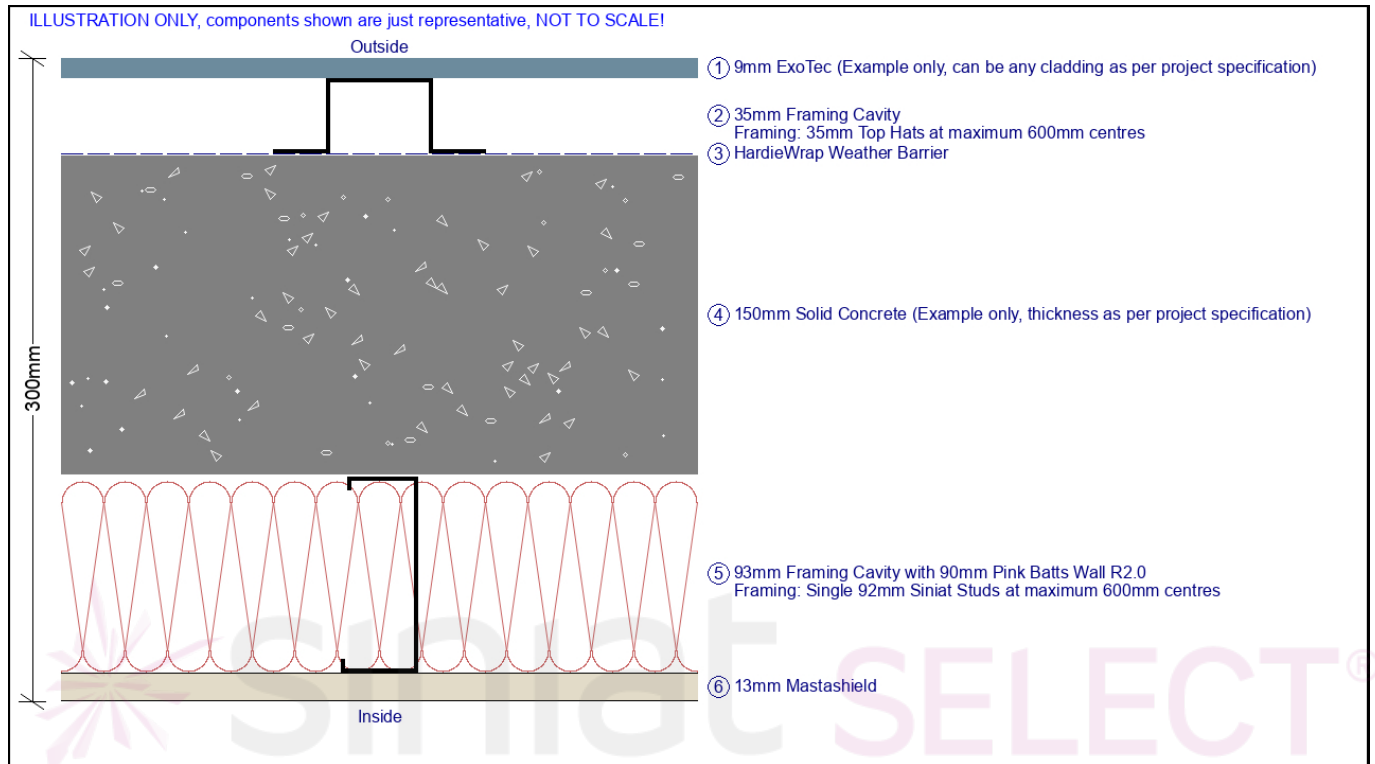
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	4
System Reference	External Wall NCC-C2-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, R_w , $R_w + C_{tr}$, 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 R_w : 64 Airborne $R_w + C_{tr}$: 53 Total Thickness (mm): 300.00 Insulation Pathway Total R-Value ($m^2.K/W$): 2.520 Estimated Total Weight (kg/m^2): 390.96	External Cladding: 9mm ExoTec (Example only, can be any cladding as per project specification) Cladding Cavity: 35mm Framing Cavity Framing : 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 Steel 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

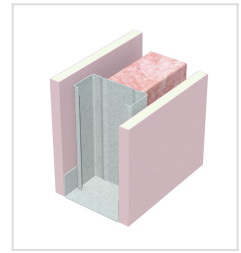
1. Acoustic Report: Insul v9 prediction
2. 13mm Mastashield can be substituted with 13mm Watershield in wet areas
3. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects 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

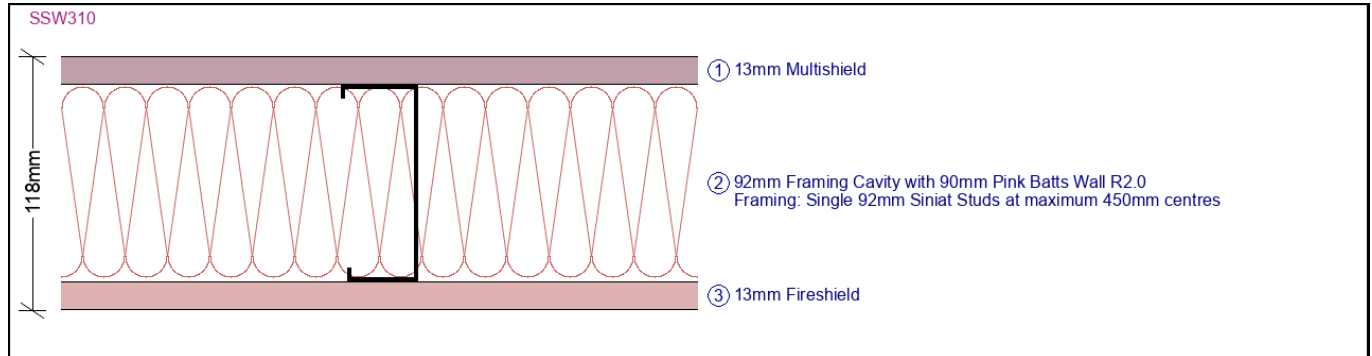
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	5
System Reference	Spandrel Wall NCC-C2-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 FRL1: -/60/60 FRL2: 30/30/30 Airborne Rw: 41 Airborne Rw + Ctr: 32 Impact Sound Resistant: No Total Thickness (mm): 118.00 Insulation Pathway Total R-Value (m ² .K/W): 2.310 Estimated Total Weight (kg/m ²): 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

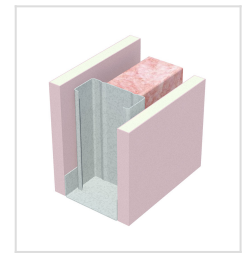
System Notes

1. Fire Report: FC13921
2. Acoustic Report: Insul V9 Prediction
3. 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.

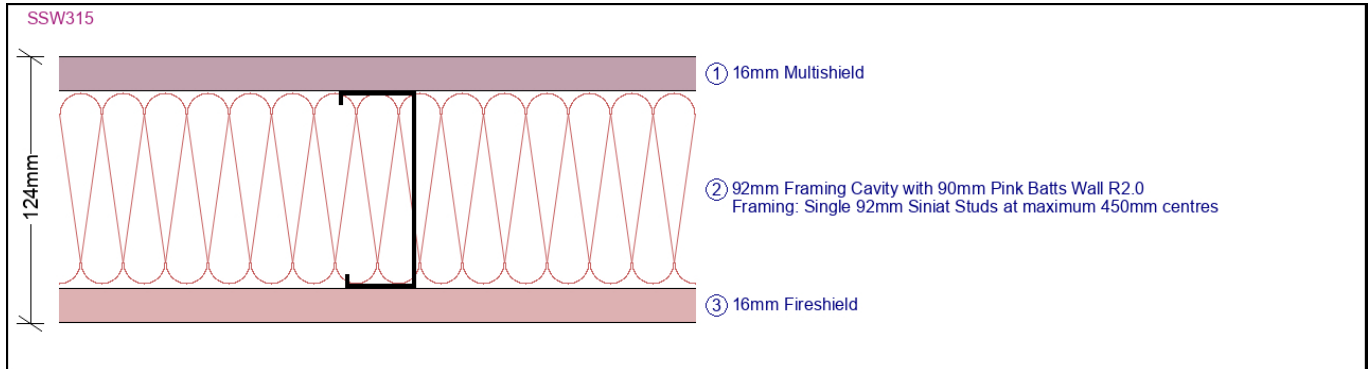
Framing Details

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.

System No.	6
System Reference	Spandrel Wall NCC-C2-LB-F1
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, R_w , $R_w + C_{tr}$, 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 R_w : 43 Airborne $R_w + C_{tr}$: 34 Impact Sound Resistant: No Total Thickness (mm): 124.00 Insulation Pathway Total R-Value (m ² .K/W): 2.350 Estimated Total Weight (kg/m ²): 28.85	External Lining: 16mm Multishield Cavity 1: 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: 16mm Fireshield

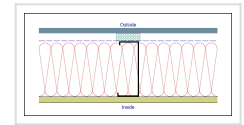
System Notes

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.

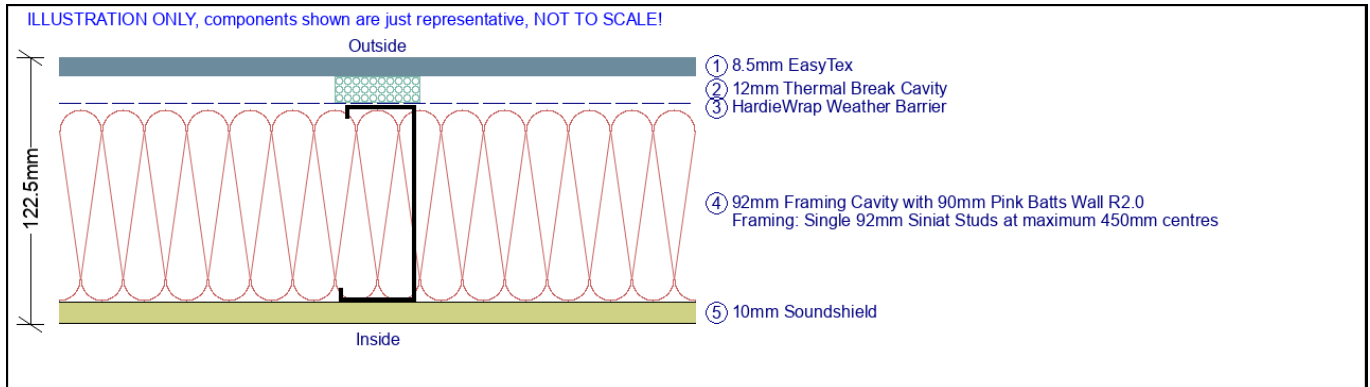
Framing Details

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.

System No.	7
System Reference	External Wall NCC-C2-NLB-A1
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.



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: 43 Airborne Rw + Ctr: 32 Impact Sound Resistant: No Total Thickness (mm): 123.00 Insulation Pathway Total R-Value (m2.K/W): 2.390 Estimated Total Weight (kg/m2): 23.71	External Cladding: 8.5mm EasyTex Cladding Cavity: 12mm Thermal Break Cavity Sarking: HardieWrap Weather Barrier Wall Cavity: 92mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (Specific studs BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 10mm Soundshield

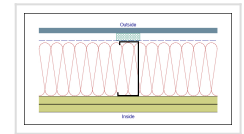
System Notes

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.

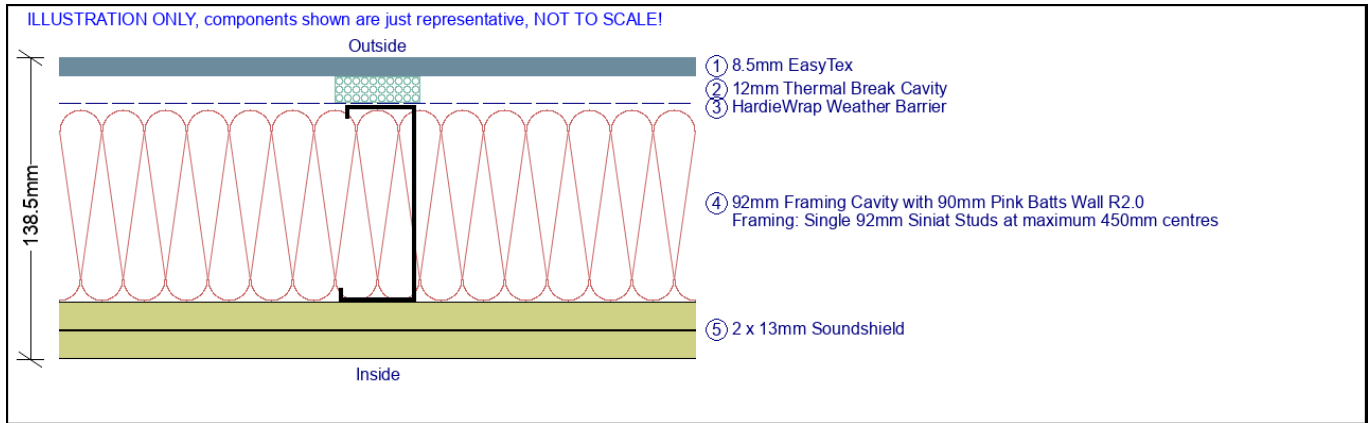
Framing Details

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.

System No.	8
System Reference	External Wall NCC-C2-NLB-A2
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.



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 Impact Sound Resistant: No Total Thickness (mm): 139.00 Insulation Pathway Total R-Value (m2.K/W): 2.480 Estimated Total Weight (kg/m2): 40.11	External Cladding: 8.5mm EasyTex Cladding Cavity: 12mm Thermal Break Cavity Sarking: HardieWrap Weather Barrier Wall Cavity: 92mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (Specific studs BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Internal Lining: 2 x 13mm Soundshield

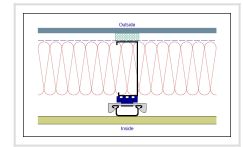
System Notes

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.

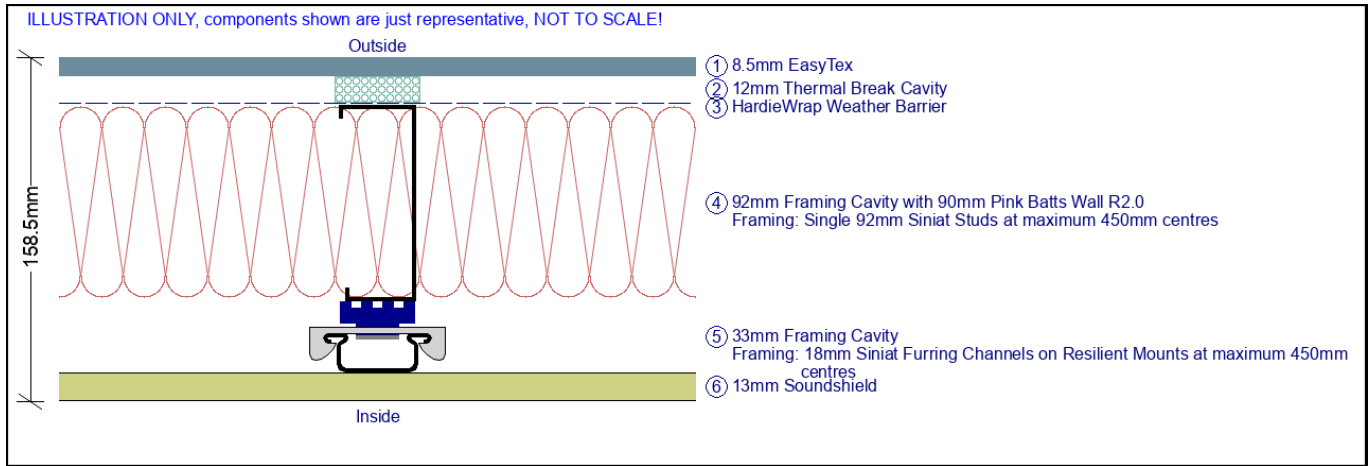
Framing Details

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.

System No.	9
System Reference	External Wall NCC-C2-NLB-A3-1
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.



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: 53 Airborne Rw + Ctr: 42 Impact Sound Resistant: Yes Total Thickness (mm): 159.00 Insulation Pathway Total R-Value (m2.K/W): 2.410 Estimated Total Weight (kg/m2): 28.52	External Cladding: 8.5mm EasyTex Cladding Cavity: 12mm Thermal Break Cavity Sarking: HardieWrap Weather Barrier Wall Cavity: 92mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (<i>Specific studs BMT and spacing as per framing design</i>) Insulation : 90mm Pink Batts Wall R2.0 Additional Frame Cavity: 33mm Framing Cavity Framing : Furring Channels on Resilient Mounts at maximum 450mm centres Internal Lining: 13mm Soundshield

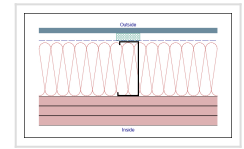
System Notes

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.

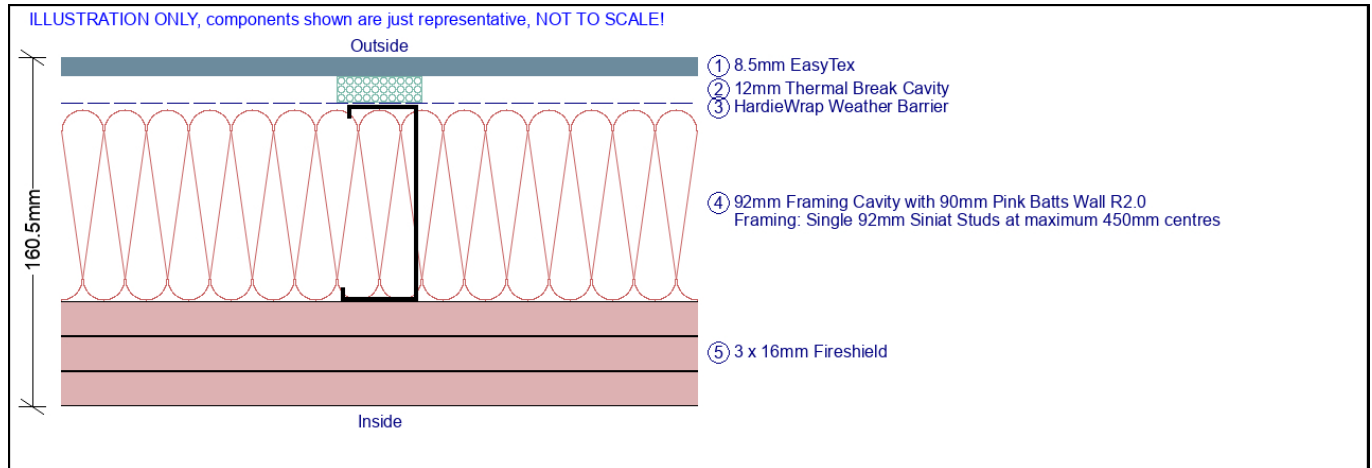
Framing Details

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.

System No.	10
System Reference	External Wall NCC-C2-NLB-A3-2
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.



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: 52 Airborne Rw + Ctr: 44 Impact Sound Resistant: No Total Thickness (mm): 161.00 Insulation Pathway Total R-Value (m2.K/W): 2.610 Estimated Total Weight (kg/m2): 54.31	External Cladding: 8.5mm EasyTex Cladding Cavity: 12mm Thermal Break Cavity Sarking: HardieWrap Weather Barrier Wall Cavity: 92mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (Specific studs BMT and spacing as per framing design) Insulation : 90mm Pink Batts Wall R2.0 Side 2: 3 x 16mm Fireshield

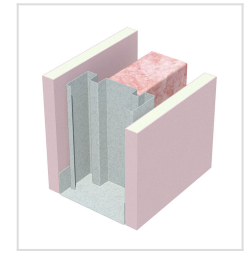
System Notes

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.

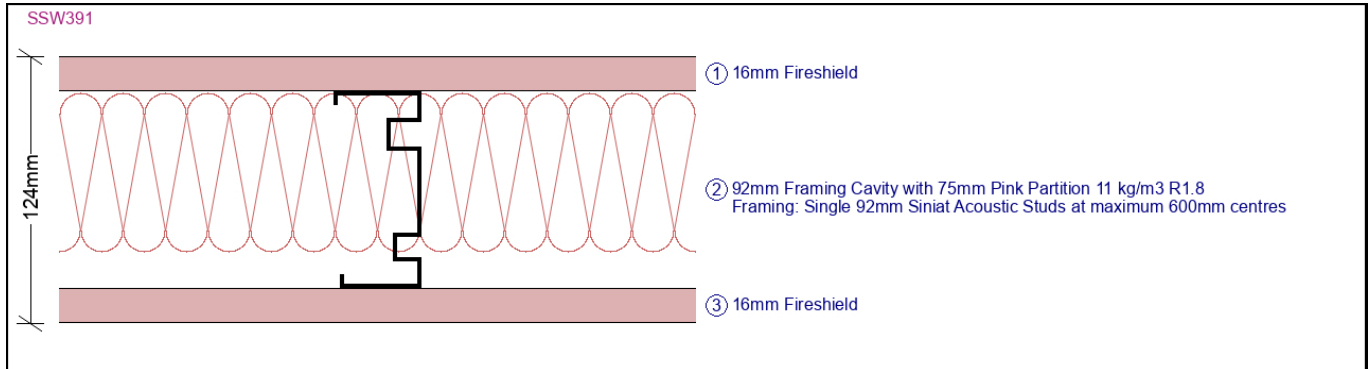
Framing Details

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.

System No.	11
System Reference	Corridor Wall NCC-C2-NLB-S1-1
Comments	Lightweight non-load bearing wall separating SOU from public corridor, applicable internal ultimate limit state wind load not more than 0.375 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 (m ² .K/W): 2.150 Estimated Total Weight (kg/m ²): 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

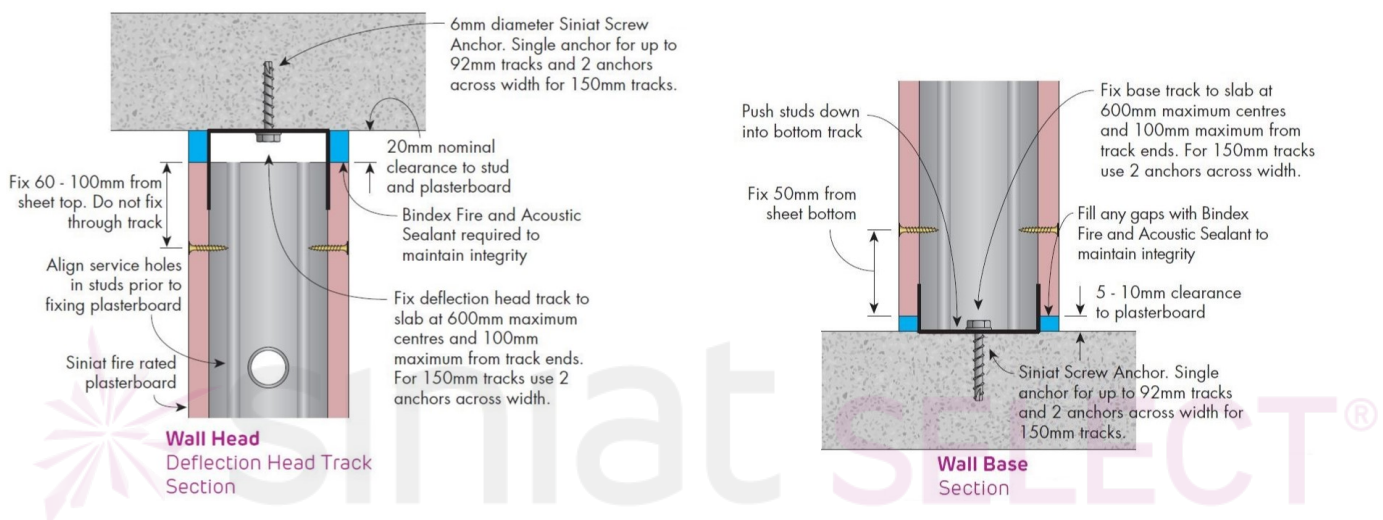
Refer to next page for framing details.

System No.	11
System Reference	Corridor Wall NCC-C2-NLB-S1-1
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.

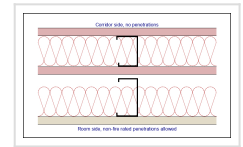
Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 0.39 Serviceability Wind Pressure, Ws (kPa): 0.25 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall 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



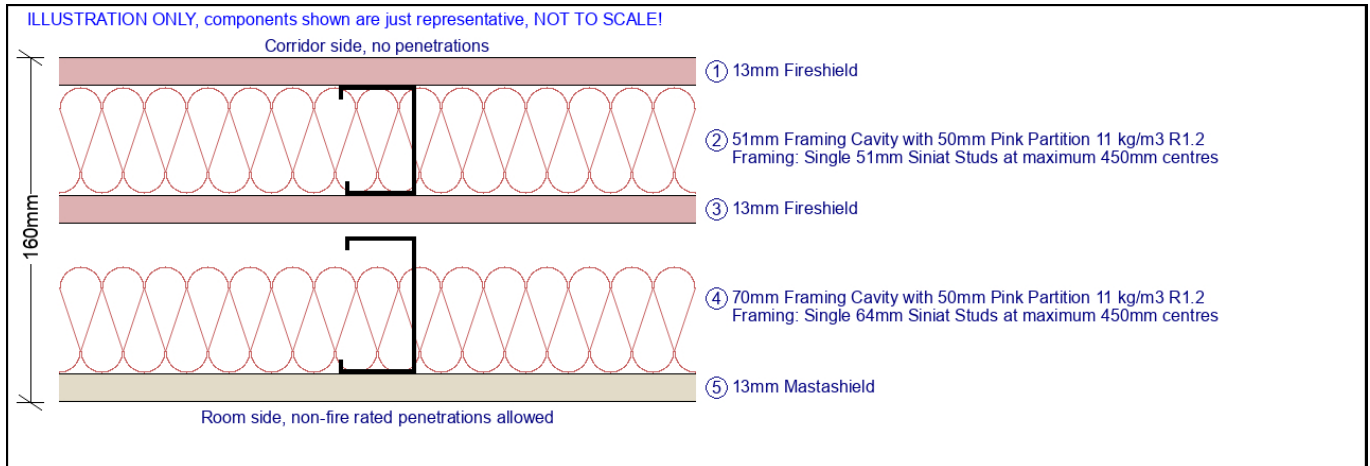
Framing Notes

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.	12
System Reference	Corridor Wall NCC-C2-NLB-S1-2
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 0.39 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, R_w , $R_w + C_{tr}$, 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 R_w : 51 Airborne $R_w + C_{tr}$: 37 Total Thickness (mm): 160.00 Insulation Pathway Total R-Value (m ² .K/W): 2.790 Estimated Total Weight (kg/m ²): 33.03	Side 1: 13mm Fireshield Cavity 1: 51mm 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 Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Side 2: 13mm Mastashield

System Notes

1. Fire Report: FC13921
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

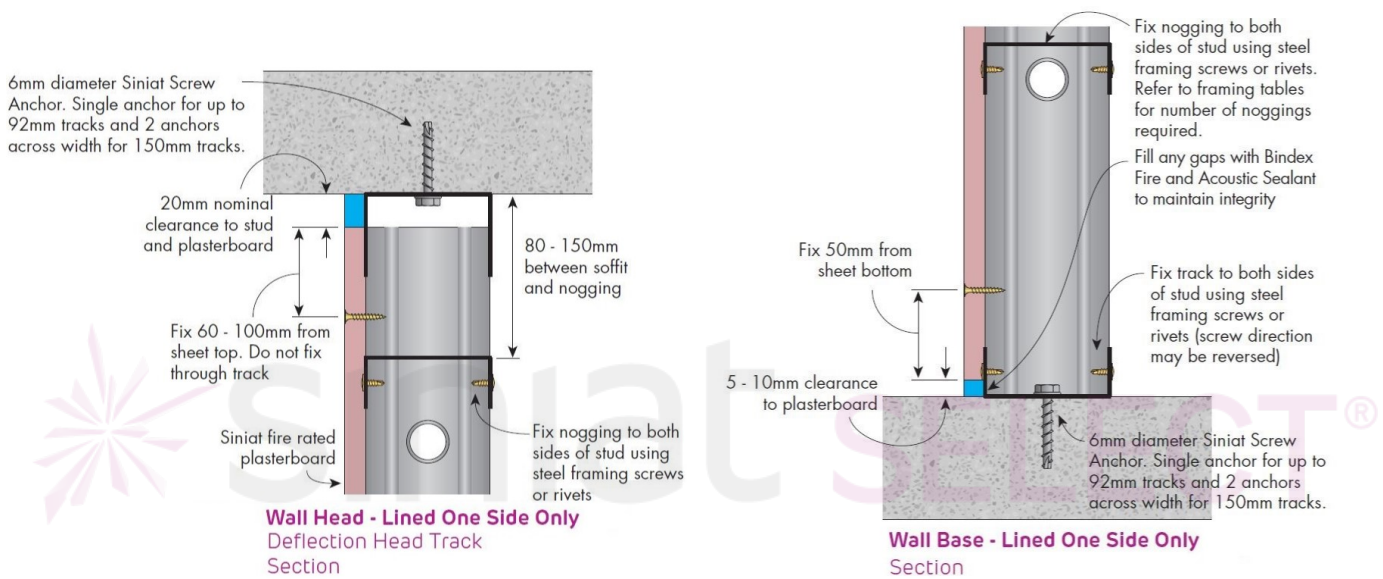
Refer to next page for framing details.

System No.	12
System Reference	Corridor Wall NCC-C2-NLB-S1-2
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.

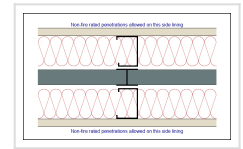
Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 0.39 Serviceability Wind Pressure, Ws (kPa): 0.25 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall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



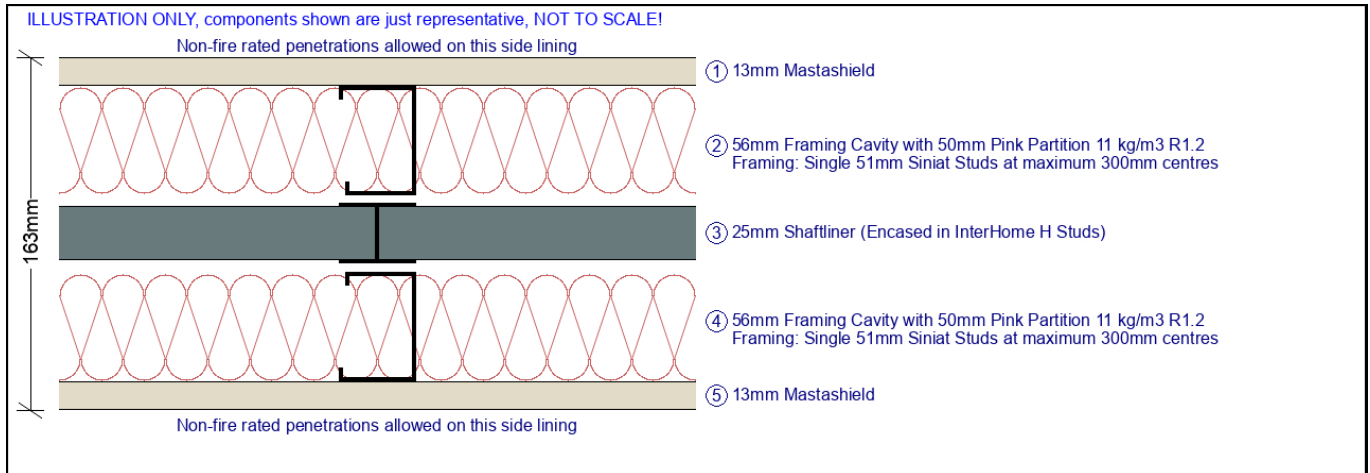
Framing Notes

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.

System No.	13
System Reference	Corridor Wall NCC-C2-NLB-S1-3
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 0.39kPa



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, R_w , $R_w + C_{tr}$, 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 R_w : 51 Airborne $R_w + C_{tr}$: 36 Total Thickness (mm): 163.00 Insulation Pathway Total R-Value (m ² .K/W): 2.860 Estimated Total Weight (kg/m ²): 41.04	Side 1: 13mm Mastashield Cavity 1: 56mm Framing Cavity Framing : Single Steel Studs at maximum 300mm centres (Stud spacing can be maximum 600mm if back-to-back studs are used) Insulation : 50mm Pink Partition 11 kg/m³ R1.2 Centre 1: 25mm Shaftliner (Encased in InterHome H Studs) Cavity 2: 56mm Framing Cavity Framing : Single Steel Studs at maximum 300mm centres (Stud spacing can be maximum 600mm if back-to-back studs are used) Insulation : 50mm Pink Partition 11 kg/m³ R1.2 Side 2: 13mm Mastashield

System Notes

1. Fire Report: FC13921
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

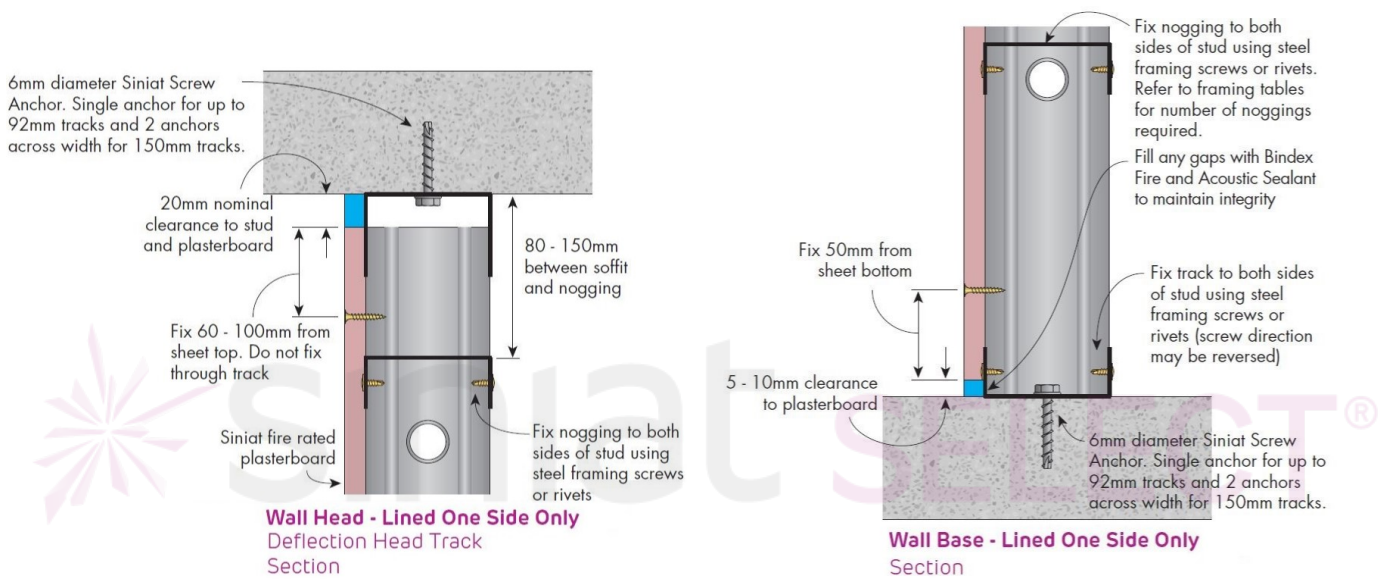
Refer to next page for framing details.

System No.	13
System Reference	Corridor Wall NCC-C2-NLB-S1-3
Framing System Code	SSW-FL1-AS51-13RE (SSW-FL1-AS51-13RE.1-300S11D113N-3A250390)

Framing Details

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

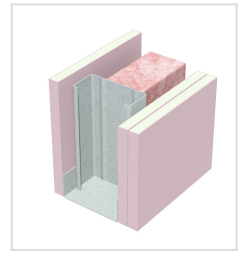
Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 0.39 Serviceability Wind Pressure, Ws (kPa): 0.25 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall Height (mm): 3230 Stud: Single 51mm x 0.5mm Siniat Stud Stud - Spacing (mm): 300 Head Track: 51mm x 0.55mm Siniat Track DH Base Track: 51mm x 0.5mm Siniat Track Nogging Track: 3 x 51mm x 0.7mm Siniat Track Nogging Anchor: SA6x45



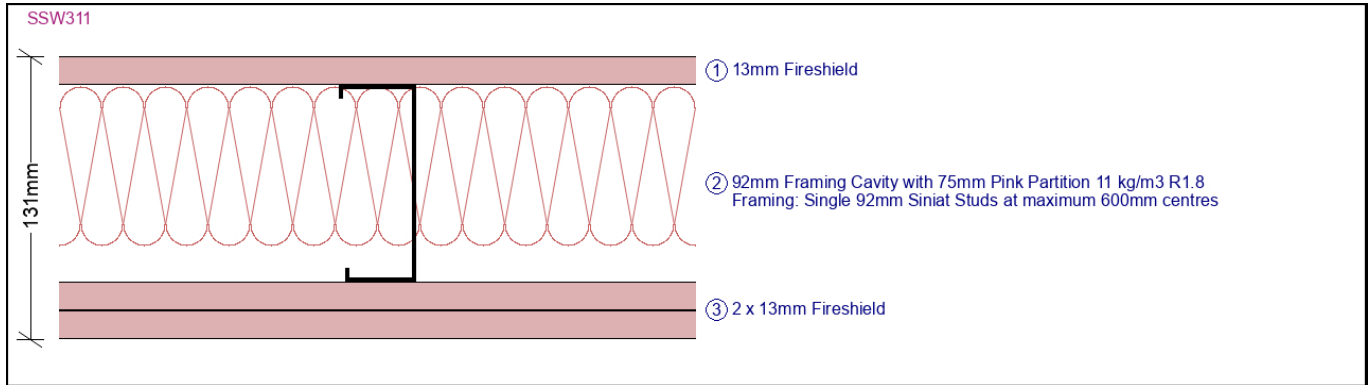
Framing Notes

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.

System No.	14
System Reference	Corridor Wall NCC-C2-NLB-S2
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

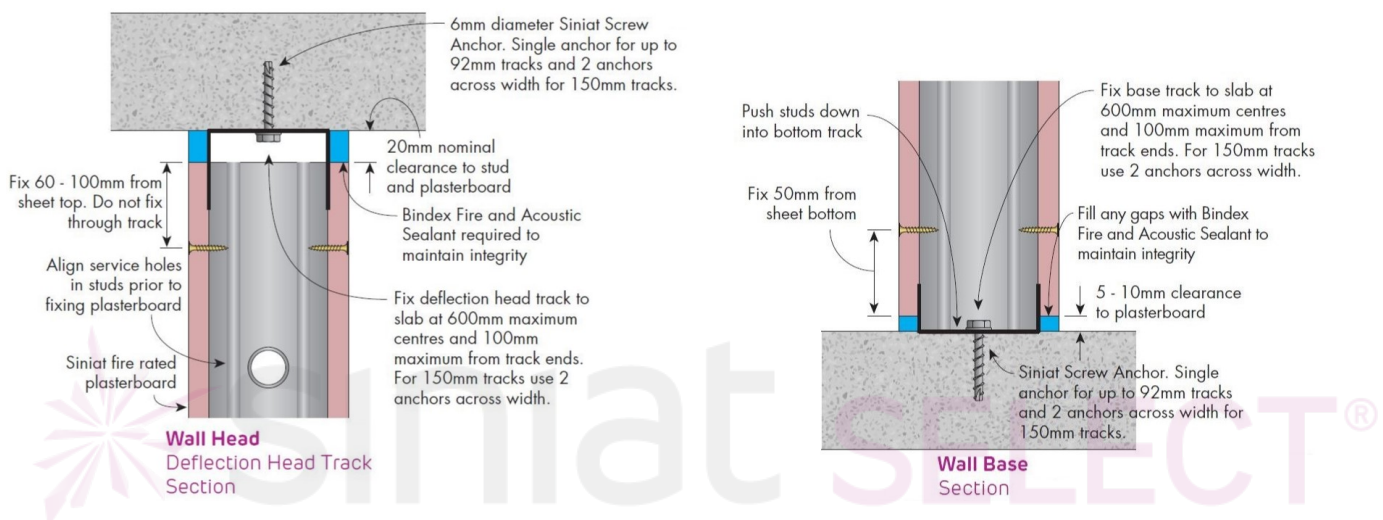
Refer to next page for framing details.

System No.	14
System Reference	Corridor Wall NCC-C2-NLB-S2
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.

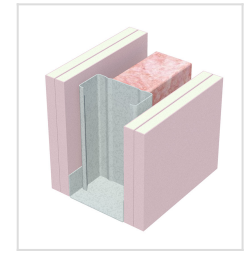
Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 0.54 Serviceability Wind Pressure, Ws (kPa): 0.35 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall 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



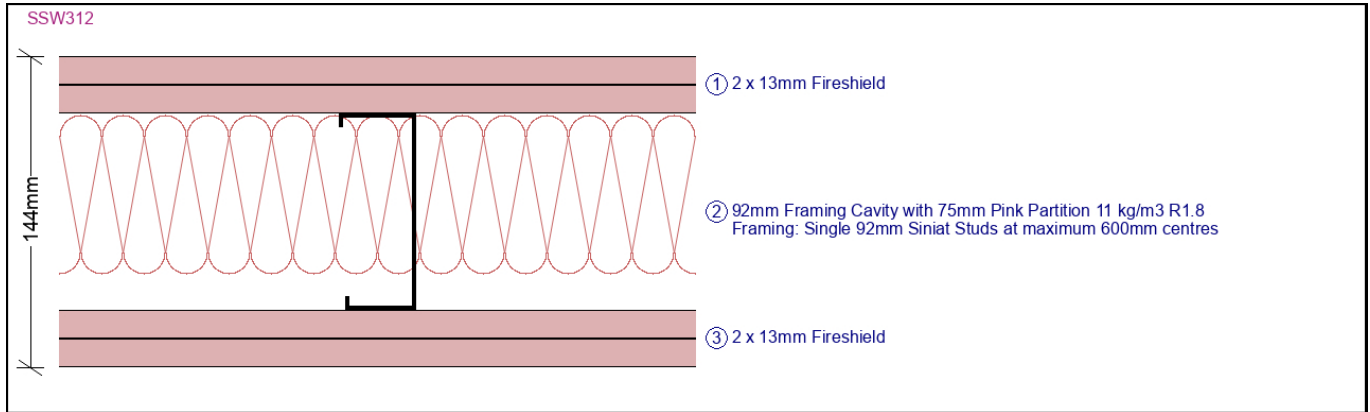
Framing Notes

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.	15
System Reference	Corridor Wall NCC-C2-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, R_w , $R_w + C_{tr}$, 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 R_w : 51 Airborne $R_w + C_{tr}$: 45 Impact Sound Resistant: No Total Thickness (mm): 144.00 Insulation Pathway Total R-Value (m ² .K/W): 2.270 Estimated Total Weight (kg/m ²): 44.33	Side 1 Lining: 2 x 13mm Fireshield Cavity: 92mm Framing Cavity Framing : Single Steel Studs at maximum 600mm centres (1.15mm BMT studs) 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: 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

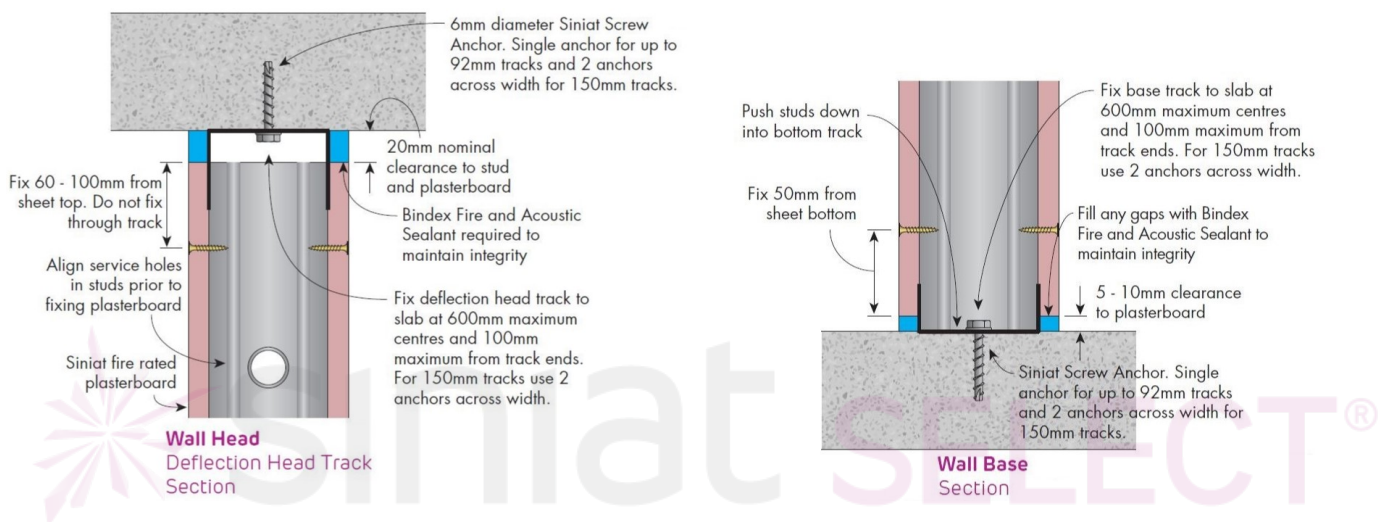
Refer to next page for framing details.

System No.	15
System Reference	Corridor Wall NCC-C2-NLB-S3-1
Framing System Code	SSW-FL2-AS92-13RE (SSW-FL2-AS92-13RE.1-600S43D33-3A6501000)

Framing Details

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

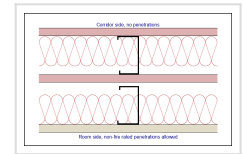
Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: A Ultimate Wind Pressure, Wu (kPa): 1.00 Serviceability Wind Pressure, Ws (kPa): 0.65 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall Height (mm): 3890 Stud: Single 92mm x 1.15mm Siniat Stud Stud - Spacing (mm): 600 Head Track: 92mm x 1.15mm Siniat Track DH Base Track: 92mm x 1.15mm Siniat Track Anchor: SA6x45



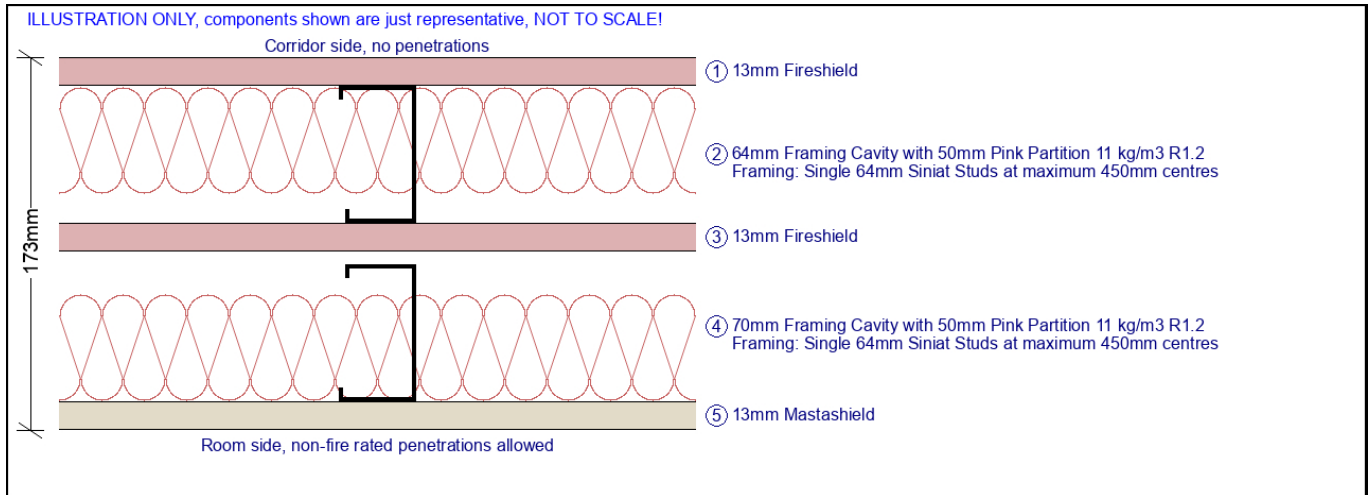
Framing Notes

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.	16
System Reference	Corridor Wall NCC-C2-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



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, R_w , $R_w + C_{tr}$, 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 R_w : 52 Airborne $R_w + C_{tr}$: 38 Total Thickness (mm): 173.00 Insulation Pathway Total R-Value ($m^2.K/W$): 2.790 Estimated Total Weight (kg/m^2): 33.16	Side 1: 13mm Fireshield Cavity 1: 64mm Framing Cavity Framing : Single Steel Studs at maximum 450mm centres (1.15mm BMT studs) 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 (1.15mm BMT studs) 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 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

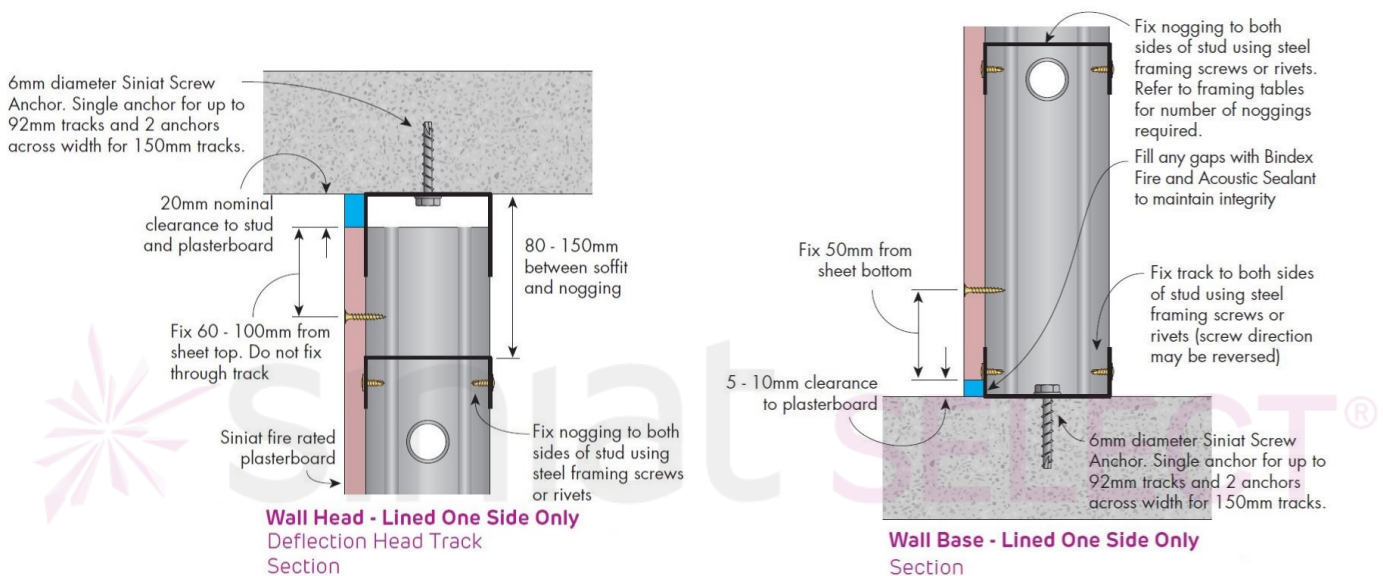
Refer to next page for framing details.

System No.	16
System Reference	Corridor Wall NCC-C2-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.

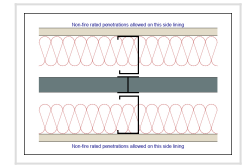
Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: B Ultimate Wind Pressure, Wu (kPa): 0.95 Serviceability Wind Pressure, Ws (kPa): 0.40 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall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



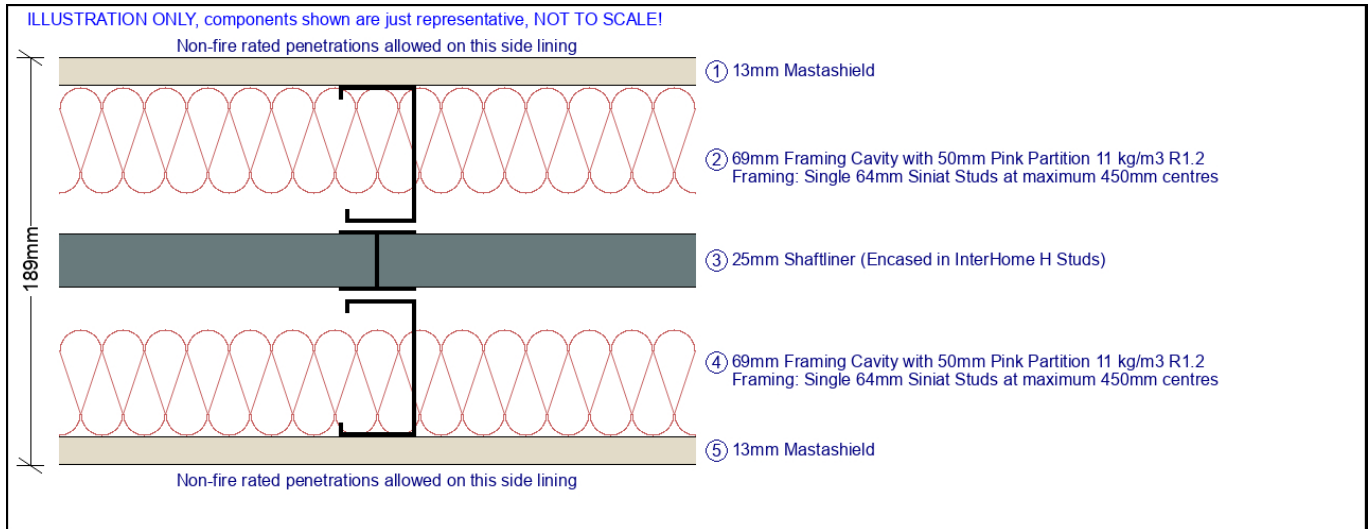
Framing Notes

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.

System No.	17
System Reference	Corridor Wall NCC-C2-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



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, R_w , $R_w + C_{tr}$, 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 R_w : 55 Airborne $R_w + C_{tr}$: 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: FC13921
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

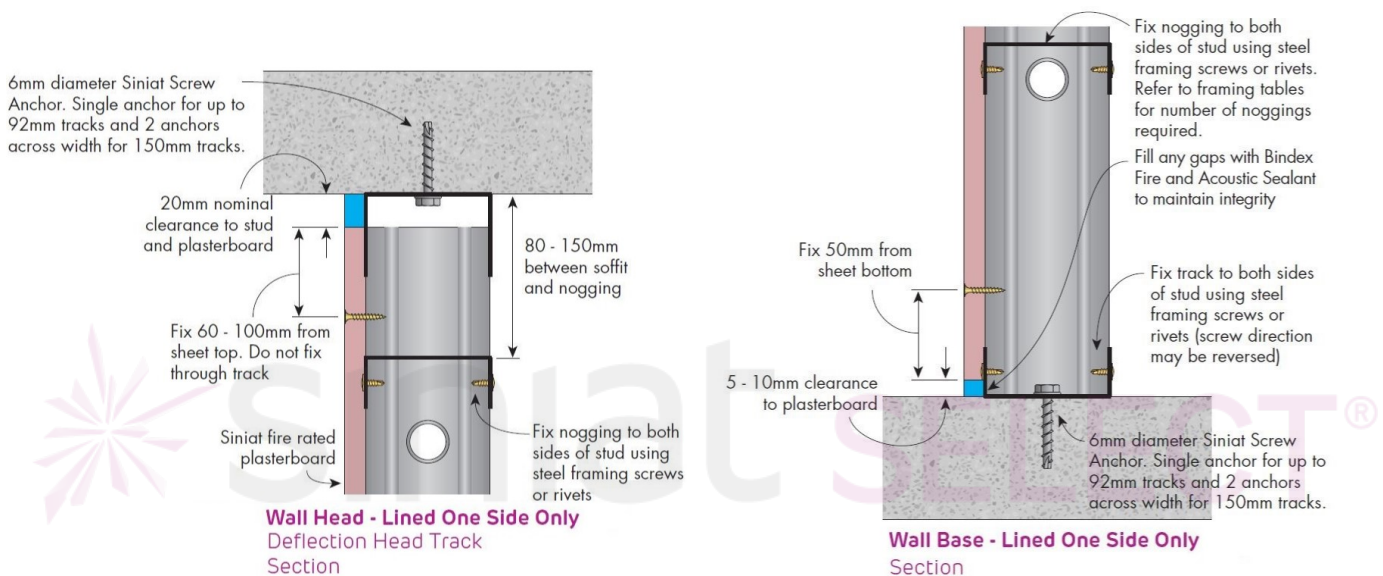
Refer to next page for framing details.

System No.	17
System Reference	Corridor Wall NCC-C2-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.

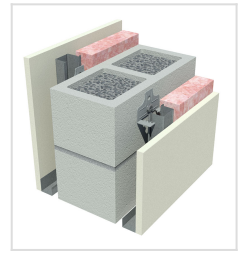
Framing Design Criteria	Framing System Description
Building Importance Level: up to 3 Wind Region: B Ultimate Wind Pressure, Wu (kPa): 0.95 Serviceability Wind Pressure, Ws (kPa): 0.40 Deflection Class: Maximum H/240 or 30 mm Design Standard: AS/NZS 4600:2005 'Cold Formed Steel Structures'	Maximum Wall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



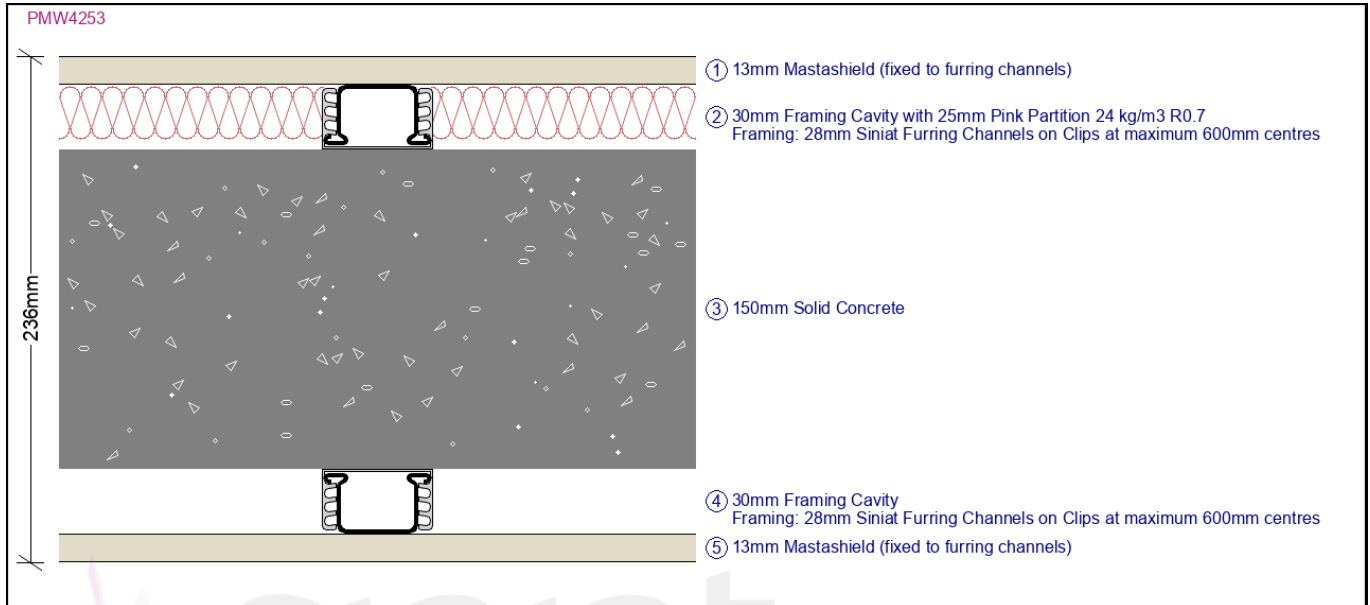
Framing Notes

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.

System No.	18
System Reference	Corridor Wall NCC-C2-LB-M-1
System Code	PMW4253
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, R_w , $R_w + C_{tr}$, 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 R_w : 57 Airborne $R_w + C_{tr}$: 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 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 Side 2 Lining: 13mm Mastashield (fixed to furring channels)

System Notes

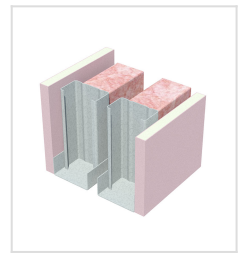
1. Fire Report: Refer to masonry manufacturer
2. Acoustic Report: Acoustic opinion 1021067 (Based on Siniat System PMW4253.L1C1)
3. 13mm Mastashield can be substituted with 13mm Watershield in wet areas
4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature 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.
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

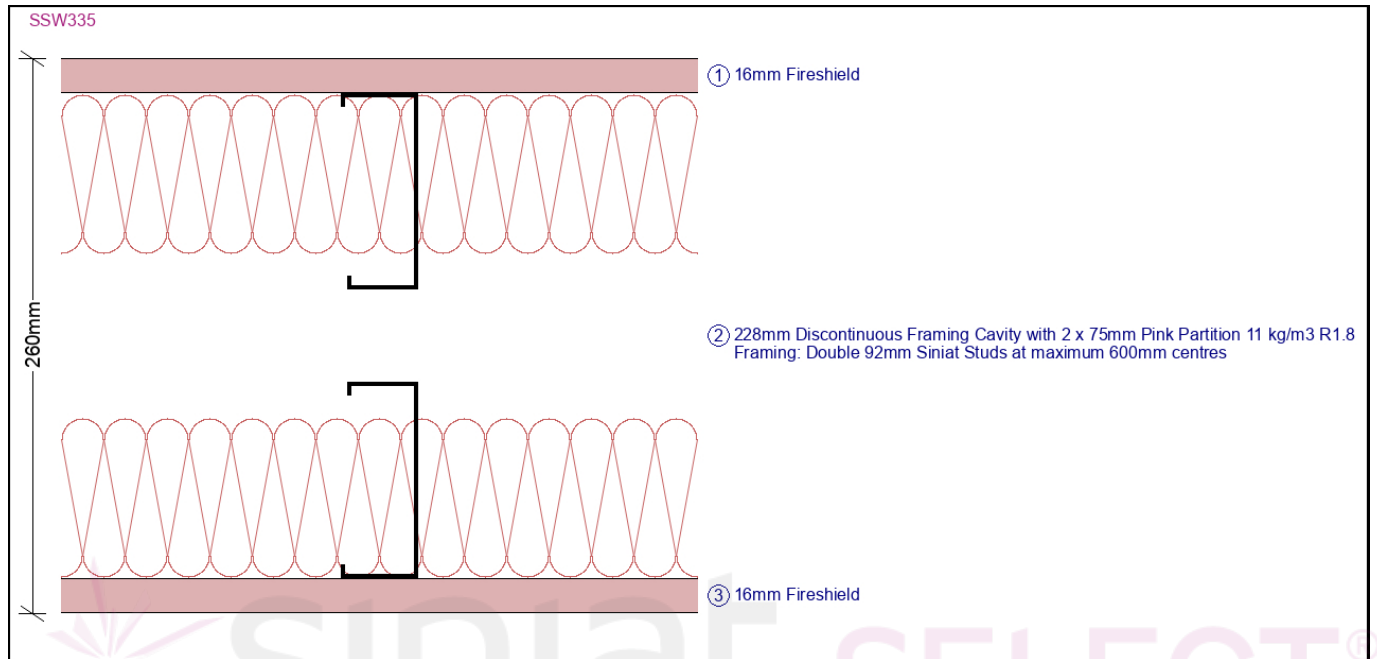
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	19
System Reference	Separating Wall NCC-C2-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, R_w , $R_w + C_{tr}$, 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 R_w : 61 Airborne $R_w + C_{tr}$: 51 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 260 Insulation Pathway Total R-Value (m ² .K/W): 3.95 Estimated Total Weight (kg/m ²): 30.65	Side 1 Lining: 16mm Fireshield Cavity: 228mm 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

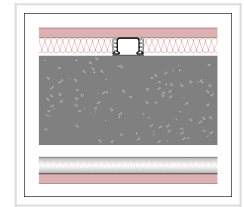
1. Fire Report: FC13921
2. Acoustic Report: CSIRO Test TL525-3 (Based on Siniat System SSW335.L1C15)
3. 16mm Fireshield can be substituted with 16mm Multishield or 16mm Trurock in wet areas
4. Boards, while installed horizontally, staggering of recessed joints on each side of the wall not required to 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

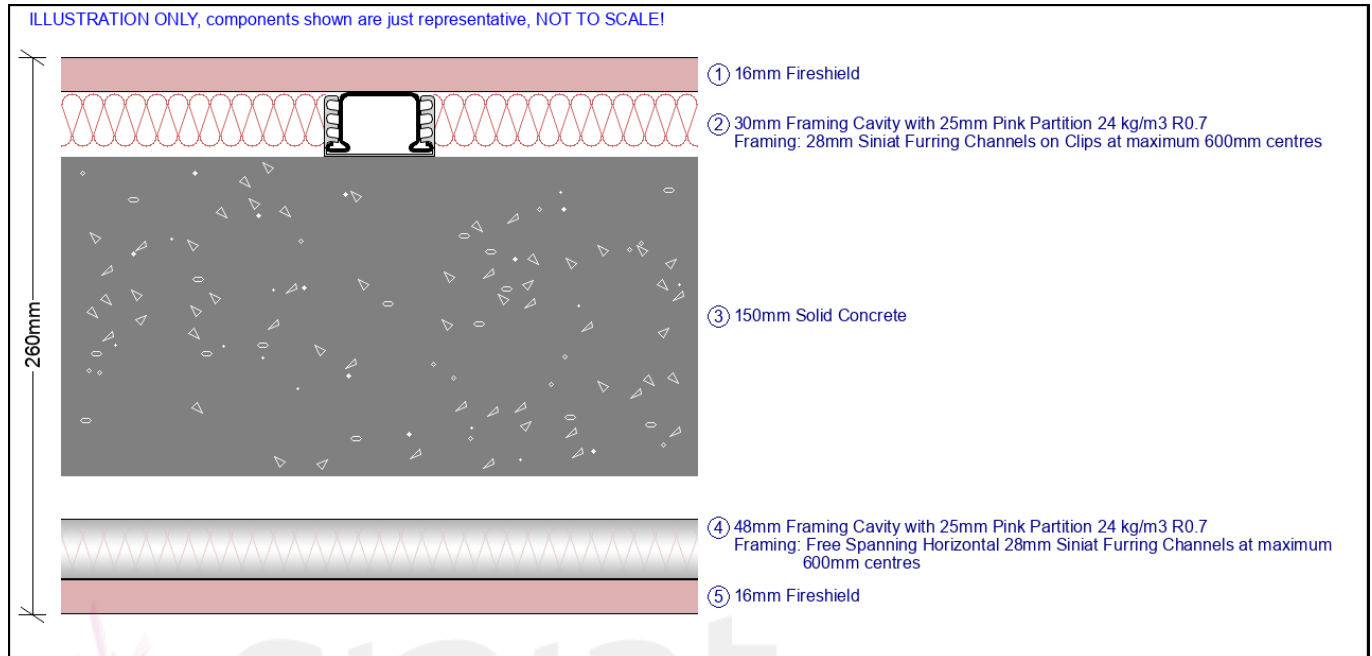
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	20
System Reference	Separating Wall NCC-C2-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, R_w, R_w + C_{tr}, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne R _w : 60 Airborne R _w + C _{tr} : 52 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 260.00 Insulation Pathway Total R-Value (m ² .K/W): 1.850 Estimated Total Weight (kg/m ²): 388.84	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: 150mm 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

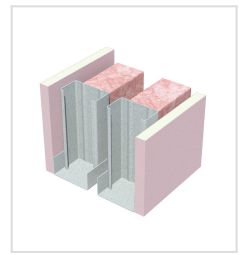
1. Acoustic Report: Acoustic opinion 1021067
2. 16mm Fireshield can be replaced with 16mm Multishield or 16mm Trurock in wet areas
3. Refer to Siniat Blueprint Section 3.1 for FRL and Construction Details
4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature 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

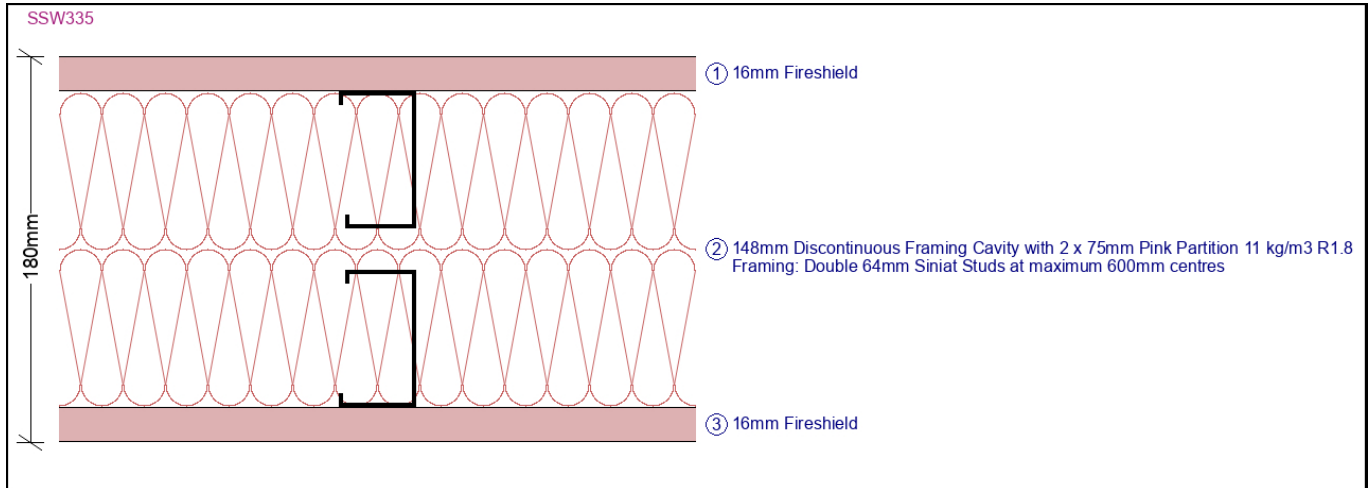
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	21
System Reference	Separating Wall NCC-C2-NLB-F1-1
System Code	SSW335
Comments	Lightweight non-load bearing wall separating adjoining SOUs, no non-fire protected loadbearing components inside the 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, R_w , $R_w + C_{tr}$, 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 R_w : 60 Airborne $R_w + C_{tr}$: 50 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 180 Insulation Pathway Total R-Value (m ² .K/W): 3.93 Estimated Total Weight (kg/m ²): 29.93	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 11 kg/m³ R1.8 Side 2 Lining: 16mm Fireshield

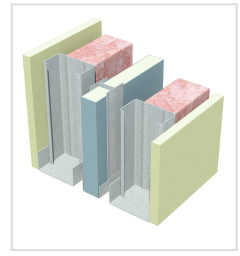
System Notes

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.

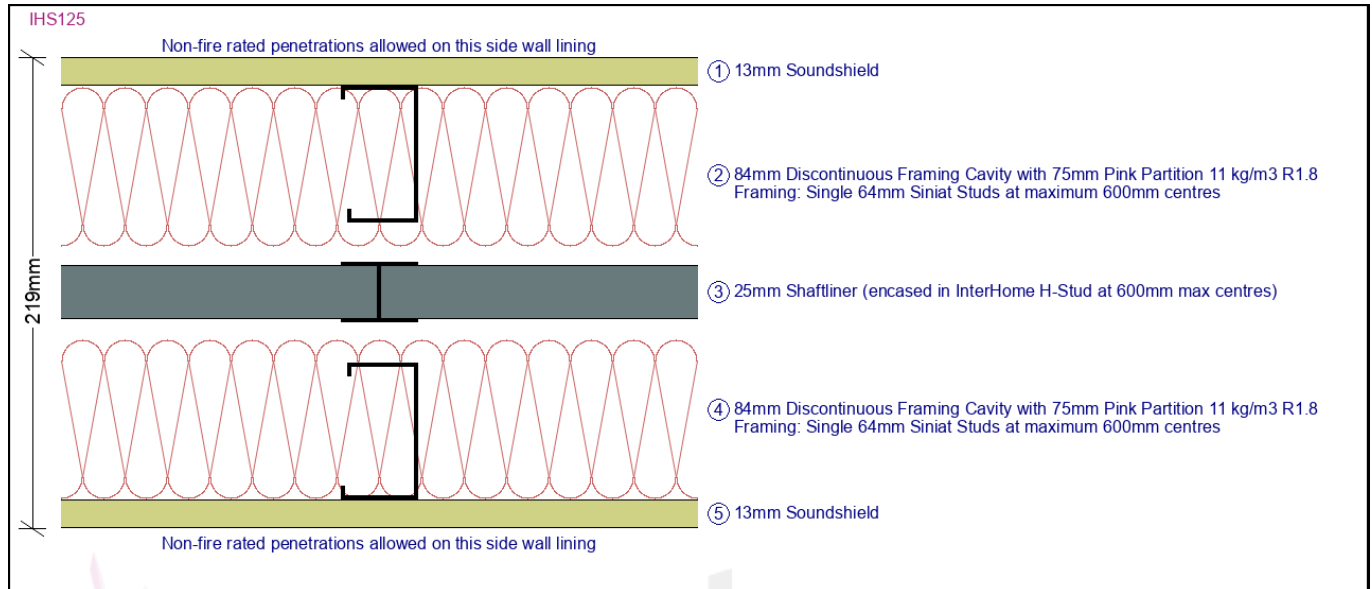
Framing Details

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.

System No.	22
System Reference	Separating Wall NCC-C2-NLB-F1-2
System Code	IHS125
Comments	Lightweight non-load bearing wall separating adjoining SOUs, no non-fire protected loadbearing components inside the wall, can have non-fire rated penetrations on each side of the 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, R_w , $R_w + C_{tr}$, 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 R_w : 66 Airborne $R_w + C_{tr}$: 53 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 219 Insulation Pathway Total R-Value (m ² .K/W): 4.06 Estimated Total Weight (kg/m ²): 48.73	Side 1 Lining: 13mm Soundshield Side 1 Cavity: 84mm Discontinuous Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m³ R1.8 Central Barrier: 25mm Shaftliner (encased in InterHome H-Stud at 600mm max centres) Side 2 Cavity: 84mm Discontinuous Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m³ R1.8 Side 2 Lining: 13mm Soundshield

System Notes

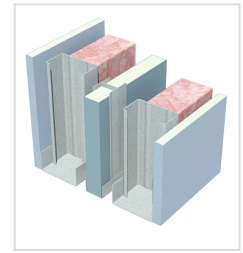
1. Fire Report: FAR4815
2. Acoustic Report: Day Design 5008-18 (Based on Siniat System IHS125.L1C2)
3. 13mm Soundshield can be substituted with 13mm Trurock in wet areas to maintain acoustic ratings
4. 13mm Soundshield can be substituted with 13mm Watershield in wet areas to maintain $R_w + C_{tr}$ rating of 50
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

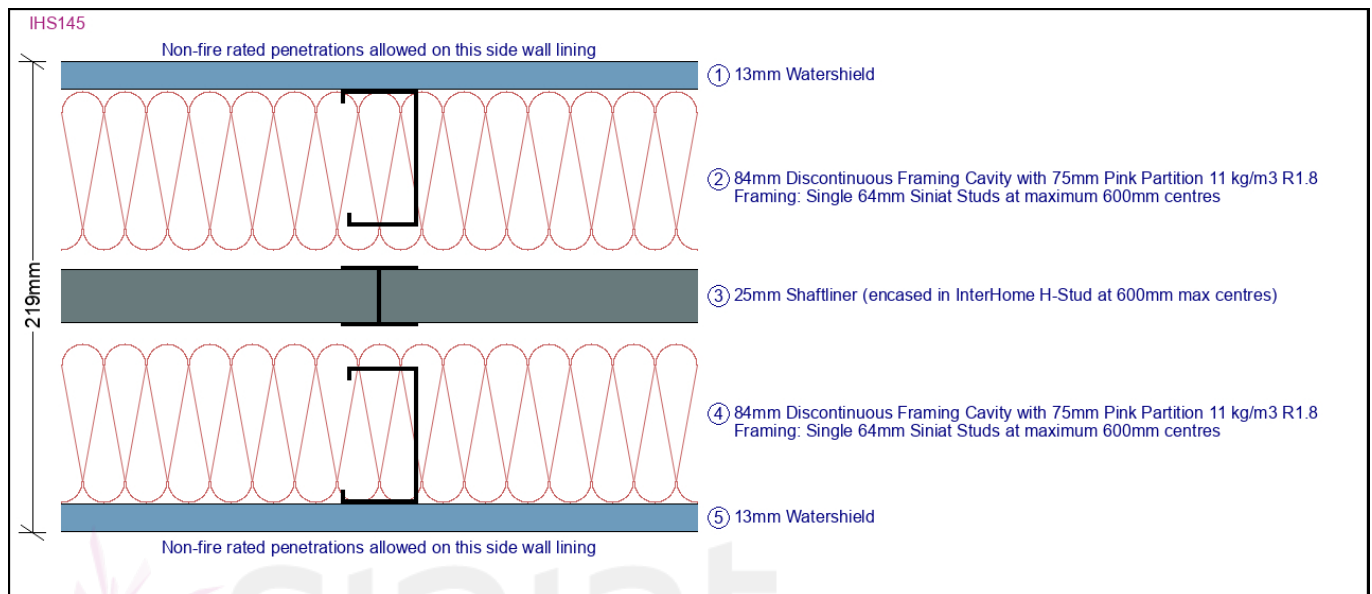
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	23
System Reference	Separating Wall NCC-C2-NLB-F1-3
System Code	IHS145
Comments	Lightweight non-load bearing wall separating adjoining SOUs, wet areas on both sides, no non-fire protected loadbearing components inside the wall, can have non-fire rated penetrations on each side of the 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, R_w , $R_w + C_{tr}$, 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 R_w : 65 Airborne $R_w + C_{tr}$: 50 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 219 Insulation Pathway Total R-Value (m ² .K/W): 4.06 Estimated Total Weight (kg/m ²): 42.73	Side 1 Lining: 13mm Watershield Side 1 Cavity: 84mm Discontinuous Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m³ R1.8 Central Barrier: 25mm Shaftliner (encased in InterHome H-Stud at 600mm max centres) Side 2 Cavity: 84mm Discontinuous Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m³ R1.8 Side 2 Lining: 13mm Watershield

System Notes

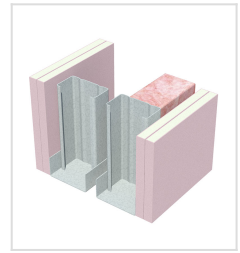
1. Fire Report: FAR4815
2. Acoustic Report: Day Design 5008-18 (Based on Siniat System IHS145.L1C1)
3. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), and calculated without taking into account the thermal bridging effects of framing components.
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.

Framing Details

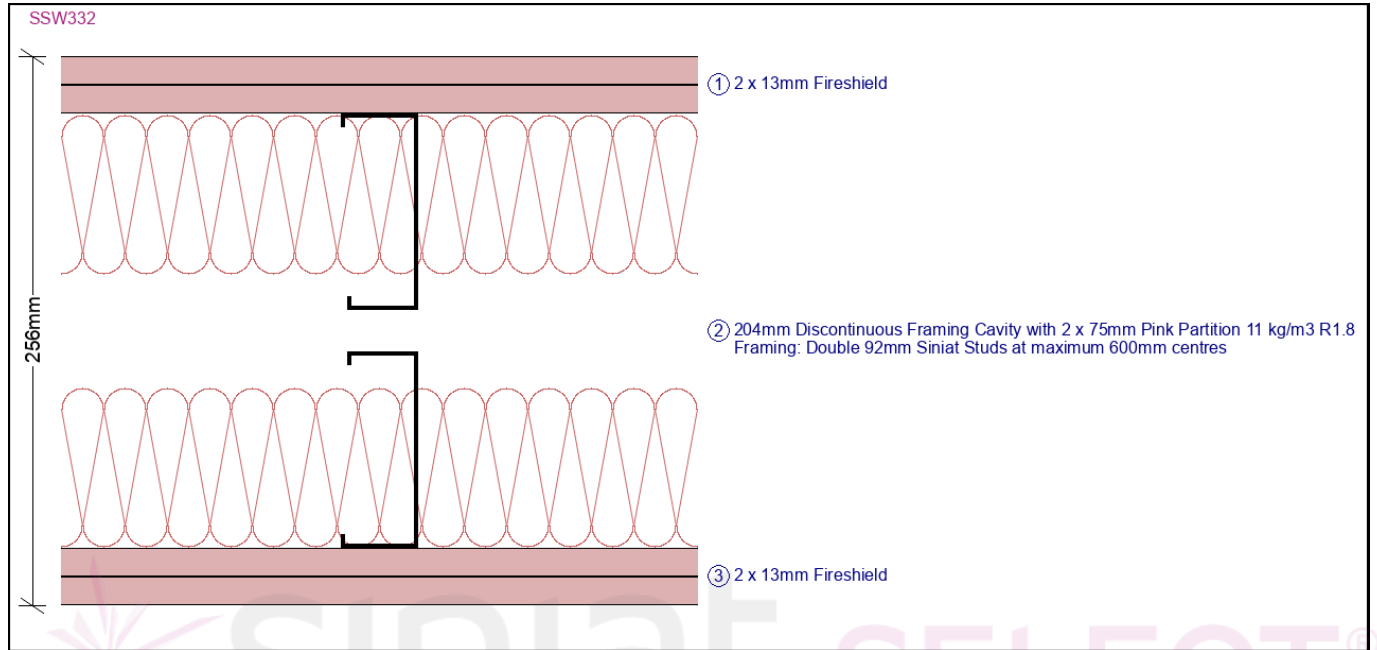
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	24
System Reference	Separating Wall NCC-C2-NLB-F2
System Code	SSW332
Comments	Lightweight non-load bearing wall separating adjoining SOUs, non-fire protected loadbearing components inside the 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, R_w , $R_w + C_{tr}$, 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 R_w : 64 Airborne $R_w + C_{tr}$: 55 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 256 Insulation Pathway Total R-Value (m ² .K/W): 4.07 Estimated Total Weight (kg/m ²): 46.65	Side 1: 2 x 13mm Fireshield Cavity 1: 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: 2 x 13mm Fireshield

System Notes

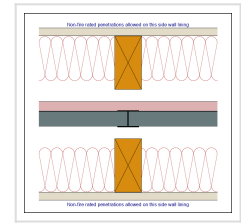
1. Fire Report: FC13921
2. Acoustic Report: Day Design 4738-L12 (Based on Siniat System SSW332.L1C6)
3. 13mm Fireshield can be substituted with 13mm Multishield or 13mm Trurock in wet area
4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature of 23°C), 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

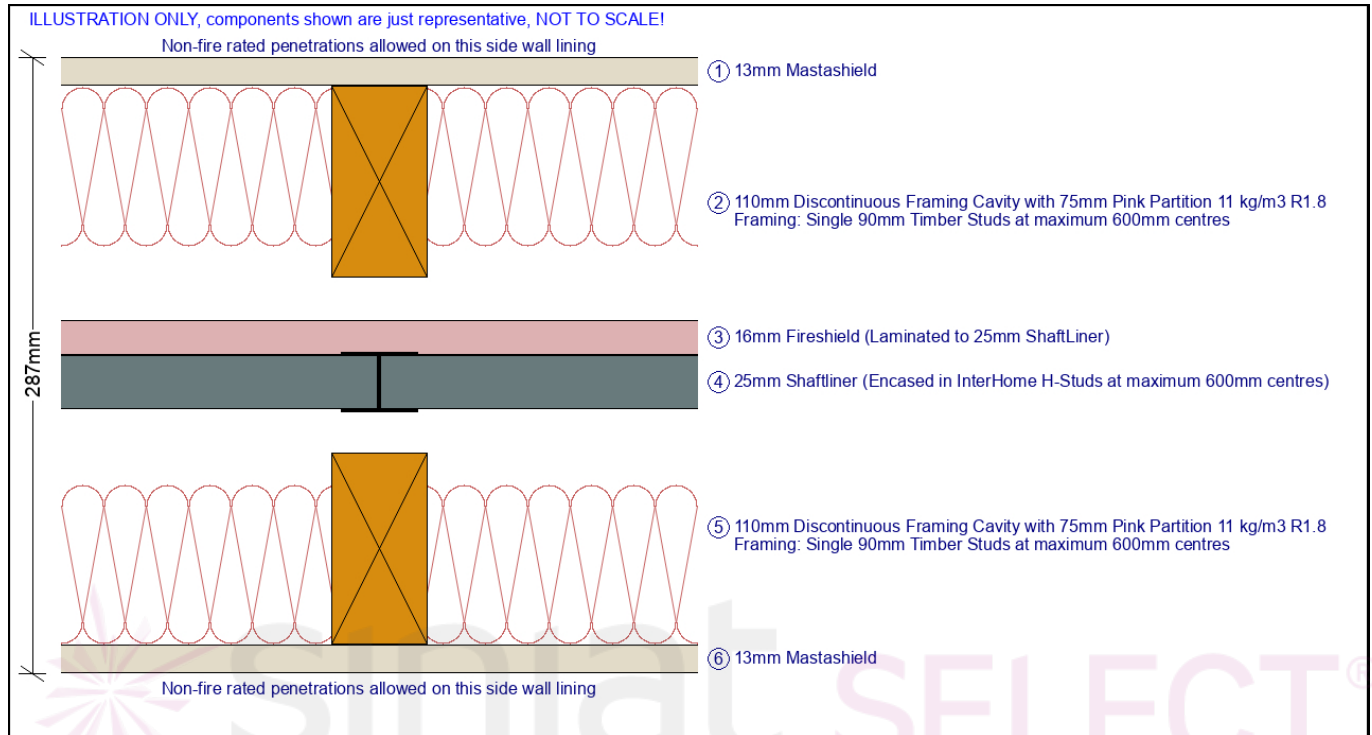
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	25
System Reference	Separating Wall NCC-C2-LB-T-F1
Comments	Timber loadbearing wall separating adjoining SOUs on top floor, start at slab below and finish under a roof and Installed as per separating wall (InterHome wall) between single dwellings



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 Load Bearing FRL: 90/90/90 Airborne Rw: 69 Airborne Rw + Ctr: 55 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 287.00 Insulation Pathway Total R-Value (m2.K/W): 4.150 Estimated Total Weight (kg/m2): 59.65	Side 1 Lining: 13mm Mastashield Side 1 Cavity: 110mm Discontinuous Framing Cavity Framing : Single Timber Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m3 R1.8 Central Barrier: 25mm Shaftliner (Encased in InterHome H-Studs at maximum 600mm centres) plus 16mm Fireshield (Laminated to 25mm ShaftLiner) Side 2 Cavity: 110mm Discontinuous Framing Cavity Framing : Single Timber Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m3 R1.8 Side 2 Lining: 13mm Mastashield

System Notes

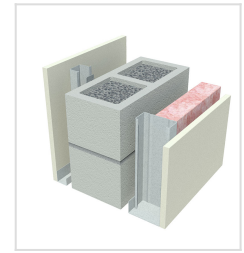
1. Fire Report: FC13921
2. Fire protection of the wall frame opposite to fire attack
3. Acoustic Report: Insul v9 prediction
4. 13mm Mastashield can be substituted with 13mm Watershield in wet areas
5. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean temperature 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

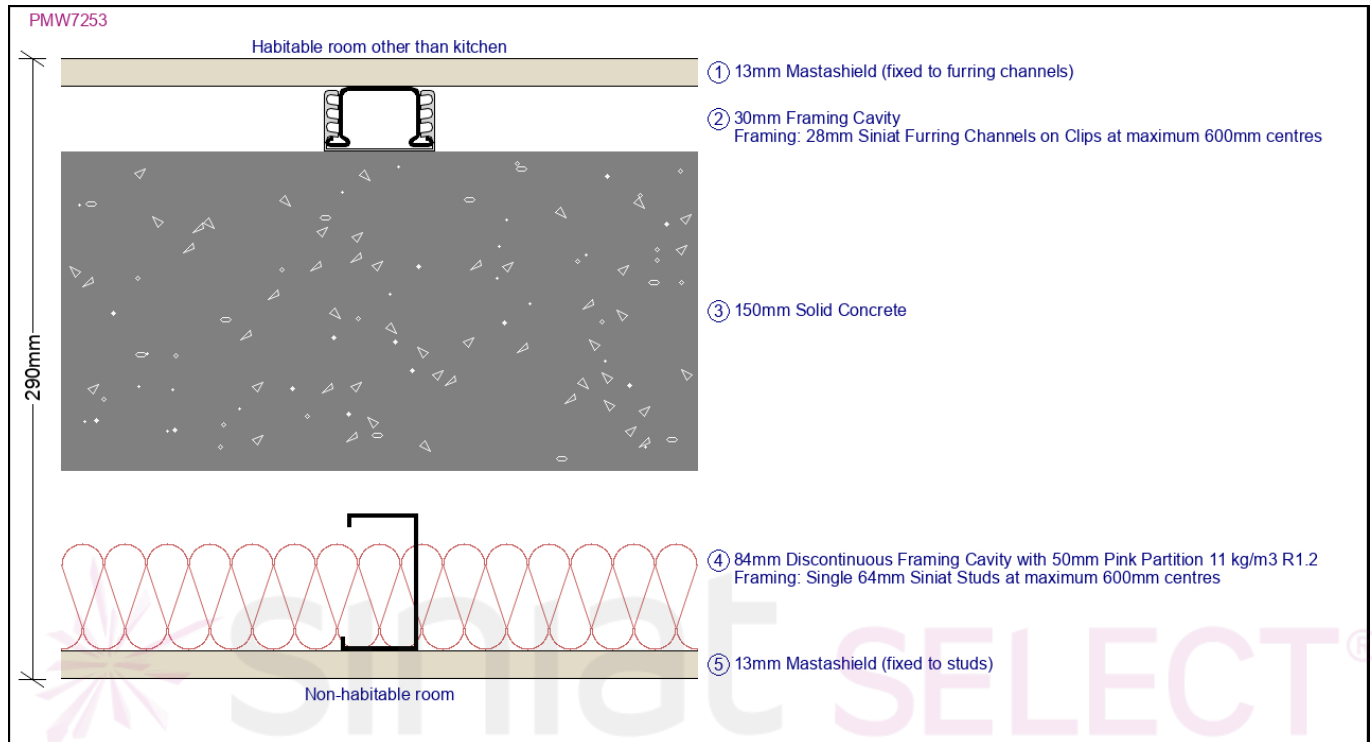
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	26
System Reference	Separating Wall NCC-C2-LB-M-1
System Code	PMW7253
Comments	Masonry loadbearing 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 FRL from Both Sides: Masonry FRL Airborne Rw: 61 Airborne Rw + Ctr: 51 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 290 Insulation Pathway Total R-Value (m ² .K/W): 1.78 Estimated Total Weight (kg/m ²): 378.71	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: 84mm Discontinuous 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 (fixed to studs)

System Notes

1. Fire Report: Refer to masonry manufacturer
2. Acoustic Report: Acoustic opinion 1021067 (Based on Siniat System PMW7253.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.
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

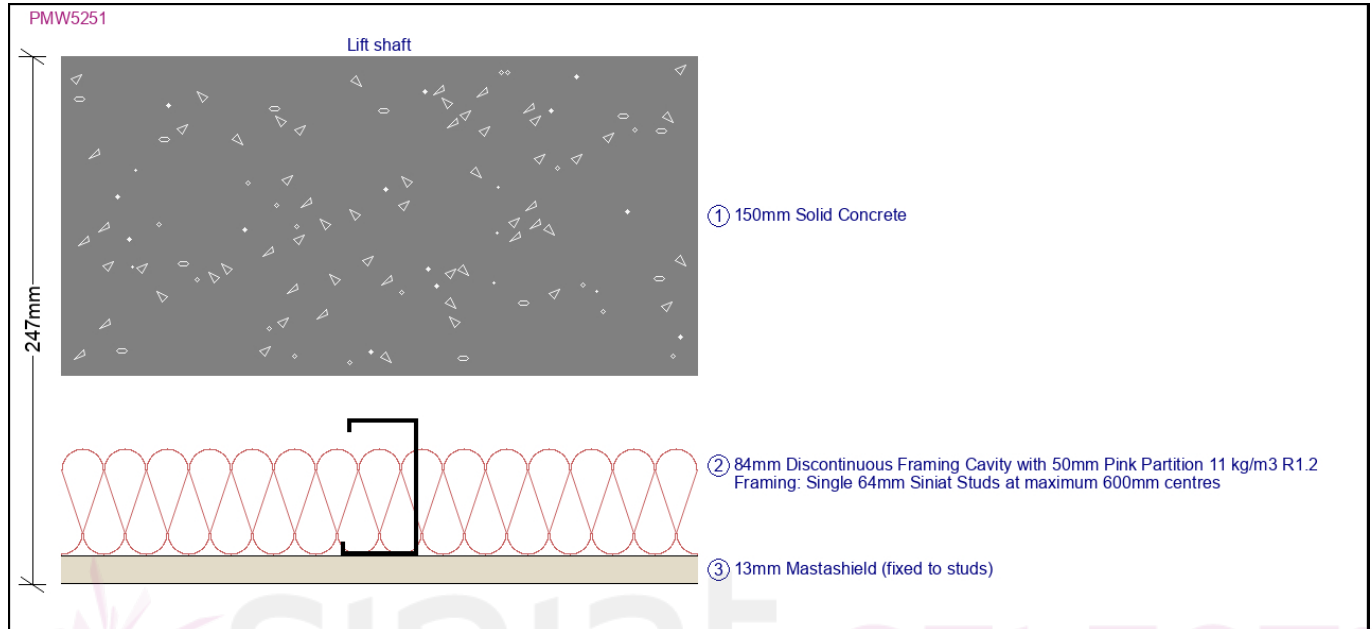
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	27
System Reference	Lift Shaft Wall NCC-C2-LB-M-1
System Code	PMW5251
Comments	Masonry loadbearing wall separating SOU from a lift shaft or 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: 59 Airborne Rw + Ctr: 52 Impact Sound Resistant: Yes - Discontinuous Construction Total Thickness (mm): 247 Insulation Pathway Total R-Value (m2.K/W): 1.54 Estimated Total Weight (kg/m2): 369.79	Masonry: 150mm Solid Concrete Side 2 Cavity: 84mm Discontinuous 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 (fixed to studs)

System Notes

1. Fire Report: Refer to masonry manufacturer
2. Acoustic Report: Acoustic opinion 1021067 (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.
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

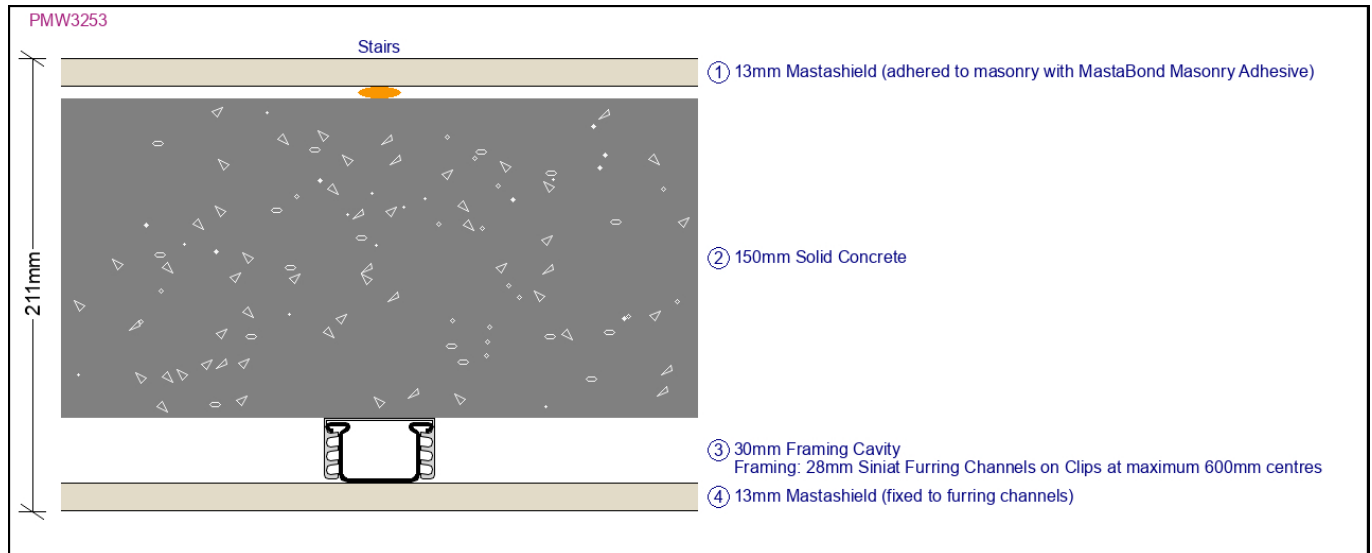
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	28
System Reference	Stair Shaft Wall NCC-C2-LB-M-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, R_w, R_w + C_{tr}, 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 R _w : 50 Airborne R _w + C _{tr} : 44 Impact Sound Resistant: No Total Thickness (mm): 211 Insulation Pathway Total R-Value (m ² .K/W): 0.42 Estimated Total Weight (kg/m ²): 377.02	Side 1 Lining: 13mm Mastashield (adhered to masonry with MastaBond Masonry Adhesive) Side 1 Cavity: 5mm Cavity with Adhesive Daubs Masonry: 150mm Solid Concrete Side 2 Cavity: 30mm Framing Cavity Framing : 28mm Siniat Furring Channels on Clips at maximum 600mm centres 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 PMW3253.L1C1)
3. 13mm Mastashield on furring channels 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.

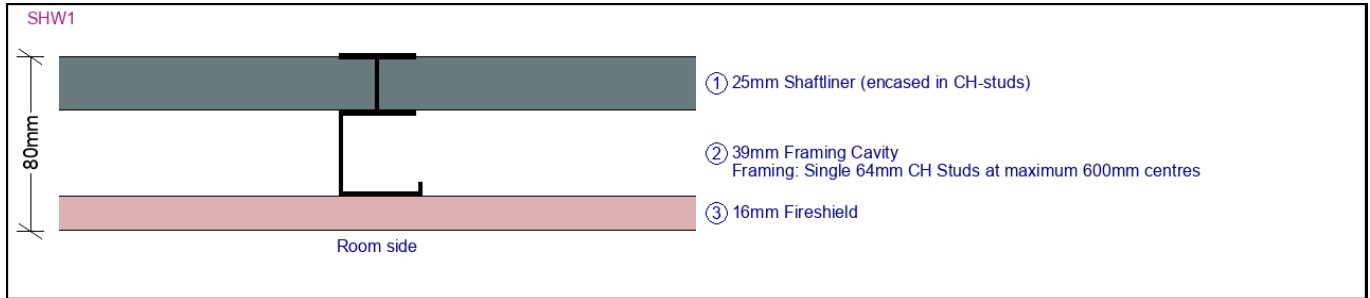
Framing Details

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.

System No.	29
System Reference	Cupboard Shaft Wall NCC-C2-NLB-F1
System Code	SHW1
Comments	Lightweight non-load bearing wall enclosing cupboard or like under 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, R_w, R_w + C_{tr}, 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 R _w : 39 Airborne R _w + C _{tr} : 32 Impact Sound Resistant: No Total Thickness (mm): 80 Insulation Pathway Total R-Value (m ² .K/W): 0.56 Estimated Total Weight (kg/m ²): 34.88	Shaft Side Lining: 25mm Shaftliner (encased in CH-studs) Cavity: 39mm Framing Cavity Framing : Single 64mm CH Studs at maximum 600mm centres Room Side Lining: 16mm Fireshield

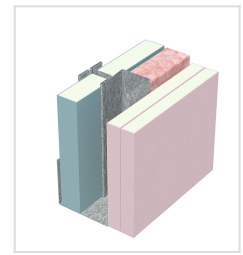
System Notes

1. Fire Report: FAR2863
2. Acoustic Report: Day Design 3094-18 (Based on Siniat System SHW1.L1C1)
3. 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.

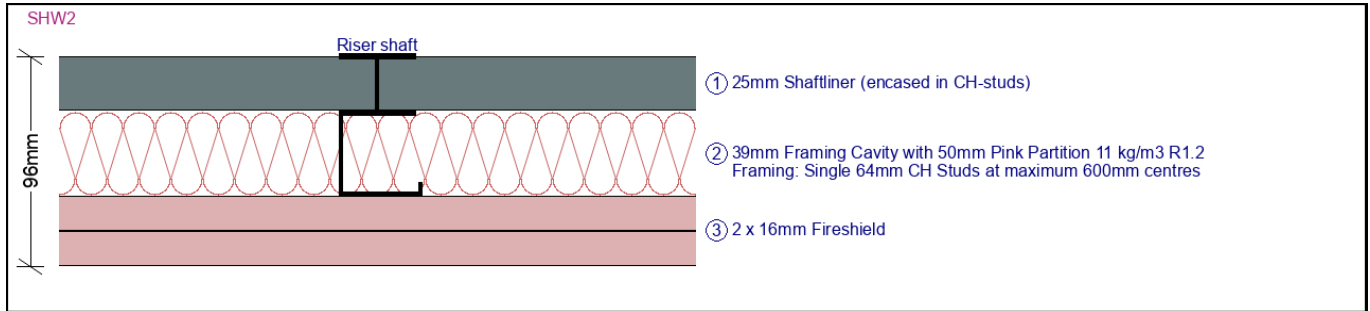
Framing Details

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.

System No.	30
System Reference	Riser Shaft Wall NCC-C2-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, R_w, R_w + C_{tr}, 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 R _w : 50 Airborne R _w + C _{tr} : 42 Impact Sound Resistant: No Total Thickness (mm): 96 Insulation Pathway Total R-Value (m ² .K/W): 1.57 Estimated Total Weight (kg/m ²): 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

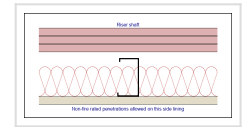
System Notes

1. Fire Report: FAR2863
2. Acoustic Report: Day Design 3094-18 (Based on Siniat System SHW2.L1C2)
3. 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.

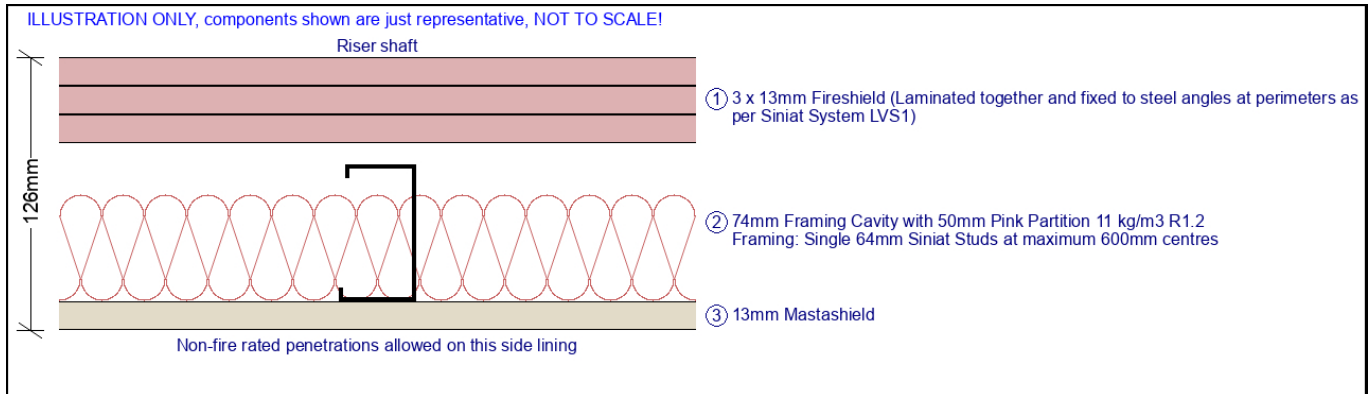
Framing Details

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.

System No.	31
System Reference	Riser Shaft Wall NCC-C2-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 service penetrations allowed on room 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, R_w, R_w + C_{tr}, 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 R _w : 53 Airborne R _w + C _{tr} : 41 Total Thickness (mm): 126.00 Insulation Pathway Total R-Value (m ² .K/W): 1.670 Estimated Total Weight (kg/m ²): 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

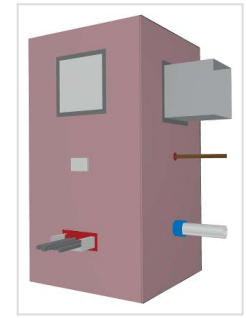
System Notes

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
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.

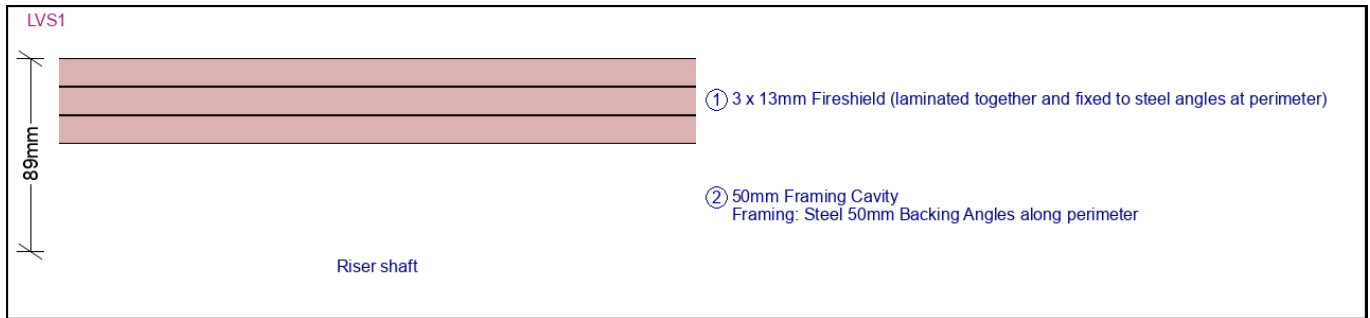
Framing Details

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.

System No.	32
System Reference	Riser Shaft Wall NCC-C2-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): 32.72	Lining: 3 x 13mm Fireshield (laminated together and fixed to steel angles at perimeter) Cavity 1: 50mm Framing Cavity Framing : Steel 50mm Backing Angles along perimeter

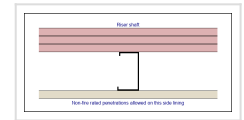
System Notes

1. Fire Report: FAR1660
2. Acoustic Report: Day Design 3094-33 (Based on Siniat System LVS1.L1C1)
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.

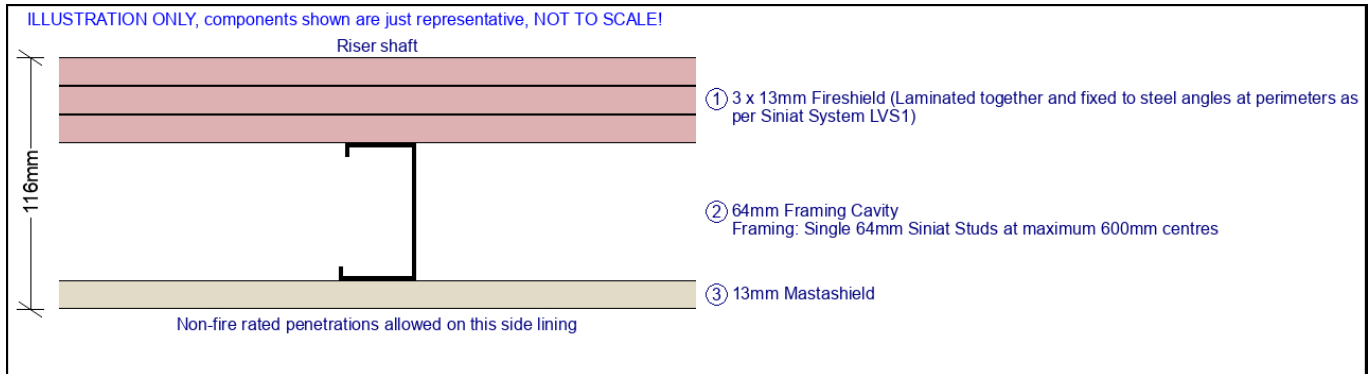
Framing Details

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.

System No.	33
System Reference	Riser Shaft Wall NCC-C2-NLB-A2-2
Comments	Lightweight non-load bearing wall separating SOU from services riser shaft in a kitchen or non-habitable room, non-fire rated service penetrations allowed on SOU 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: -/90/90 Airborne Rw: 44 Airborne Rw + Ctr: 33 Total Thickness (mm): 116 Insulation Pathway Total R-Value (m2.K/W): 0.63 Estimated Total Weight (kg/m2): 40.74	Side 1: 3 x 13mm Fireshield (Laminated together and fixed to steel angles at perimeters as per Siniat System LVS1) Cavity 1: 64mm Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Side 2: 13mm Mastashield

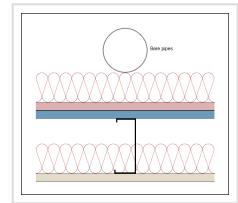
System Notes

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
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.

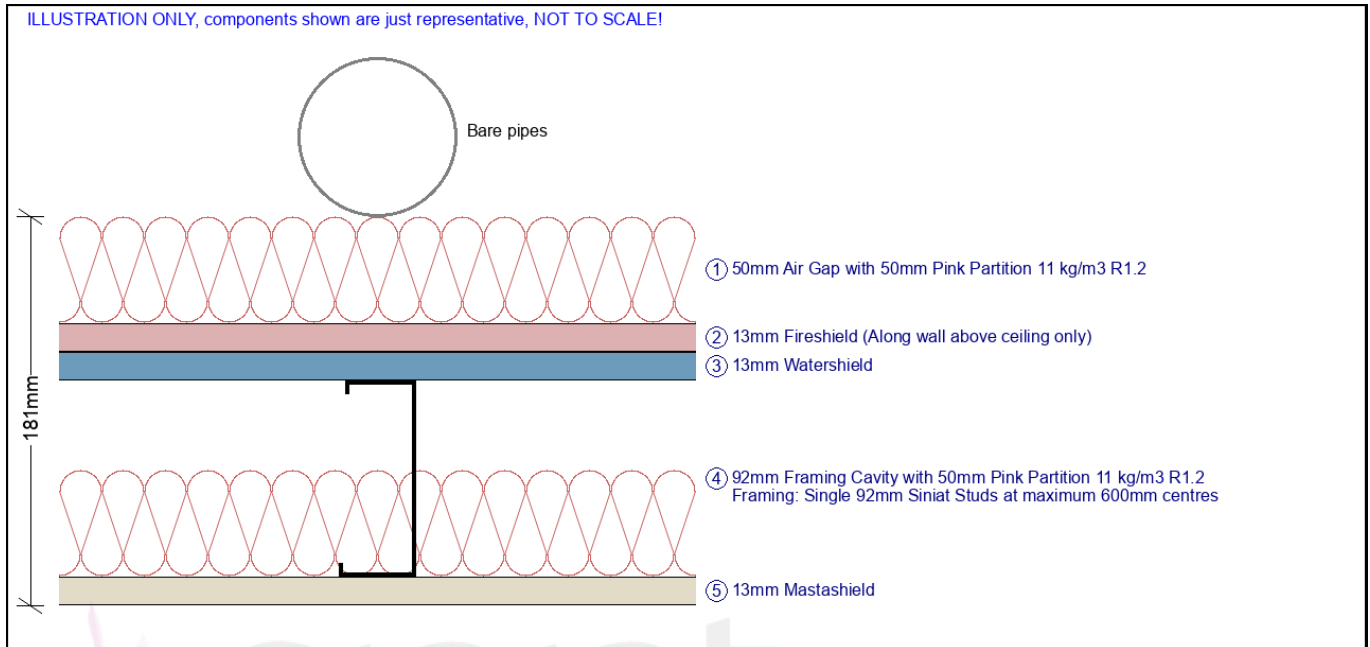
Framing Details

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.

System No.	34
System Reference	Waste Pipe Wall NCC-C2-A1-1
Comments	Lightweight non-load bearing wall separating SOU from soil and waste pipes in a habitable room other than kitchen, pipes without acoustic lagging



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, R_w , $R_w + C_{tr}$, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne R_w : 48 Airborne $R_w + C_{tr}$: 40 Total Thickness (mm): 181 Insulation Pathway Total R-Value ($m^2.K/W$): 2.79 Estimated Total Weight (kg/m^2): 30.6	Pipes: Bare pipes Pipe Side Cavity: 50mm Air Gap Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Additional Lining in Ceiling Plenum: 13mm Fireshield (<i>Along wall above ceiling only</i>) 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

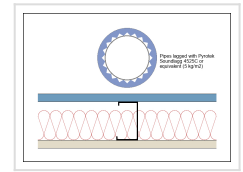
1. Acoustic Report: ESTIMATE ONLY, based on Siniat System SWP114.L1C2
2. Pipes must not be in contact with framing member, insulation or plasterboard
3. Wall insulation must extend to minimum 500mm below ceiling
4. The Insulation Pathway Total R-Value is an estimate only, valid for summer heat flow (mean 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

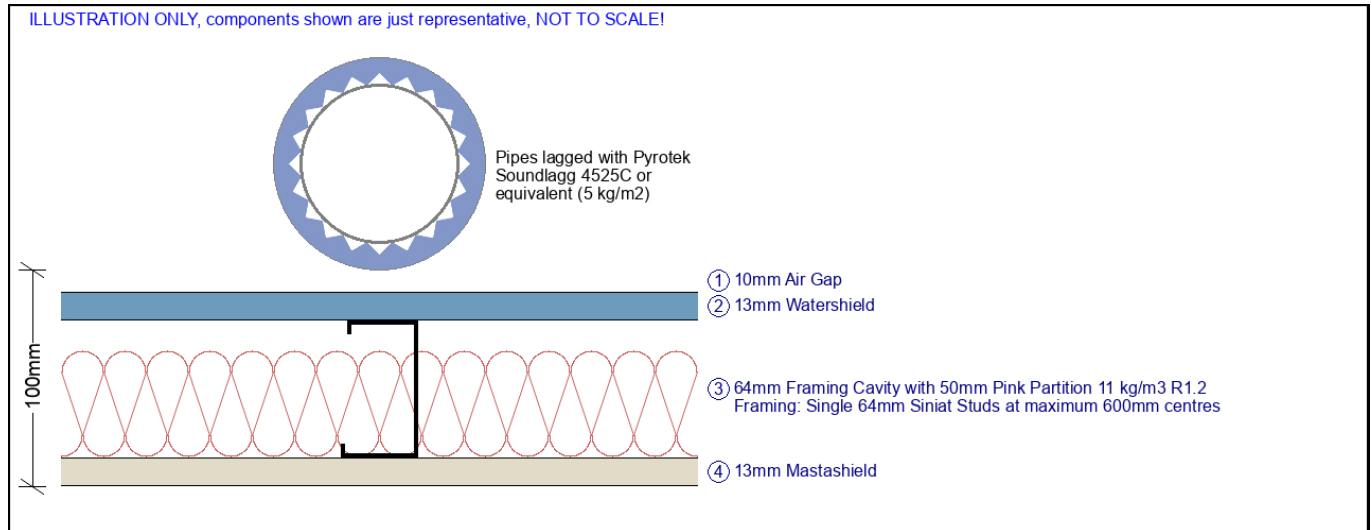
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	35
System Reference	Waste Pipe Wall NCC-C2-A1-2
Comments	Lightweight non-load bearing wall separating SOU from soil and waste pipes in a habitable room other than kitchen, pipes with acoustic lagging



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.

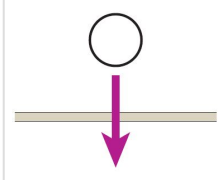
Properties	Composition
Airborne Rw: 48 Airborne Rw + Ctr: 40 Total Thickness (mm): 100 Insulation Pathway Total R-Value (m ² .K/W): 1.51 Estimated Total Weight (kg/m ²): 19.19	Cavity 1: 10mm Air Gap Centre 2: 13mm Watershield Cavity 2: 64mm Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Insulation : 50mm Pink Partition 11 kg/m³ R1.2 Side 2: 13mm Mastashield

System Notes

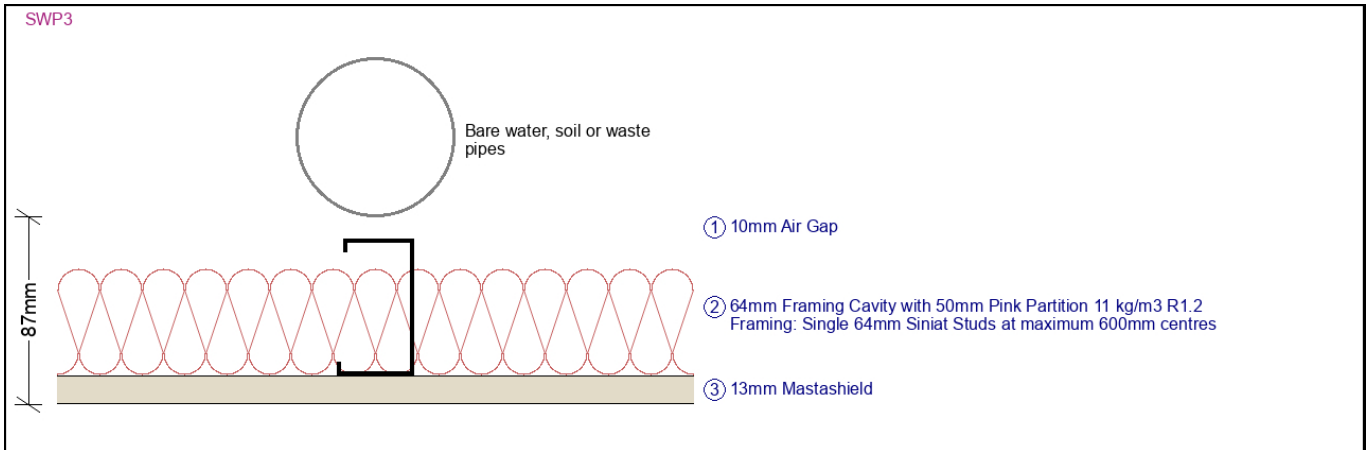
1. Acoustic Report: Day Design 3094-35
2. Pipes must not be in contact with framing member, insulation or plasterboard
3. Wall insulation must extend to minimum 500mm below ceiling
4. Ceiling insulation can be placed along wall or above ceiling
5. The Insulation Pathway Total R-Value is an estimate only, 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.

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.

System No.	36	
System Reference	Waste Pipe Wall NCC-C2-A2-1	
System Code	SWP3	
Comments	Lightweight non-load bearing wall separating SOU from soil and waste pipes in a kitchen or non-habitable room, pipes without acoustic lagging	

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, R_w, R_w + C_{tr}, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne R _w : 32 Airborne R _w + C _{tr} : 28 Total Thickness (mm): 87 Insulation Pathway Total R-Value (m ² .K/W): 1.44 Estimated Total Weight (kg/m ²): 9.79	Cavity 1: 10mm Air Gap Cavity 2: 64mm Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Insulation : 50mm Pink Partition 11 kg/m³ R1.2 Side 2: 13mm Mastashield

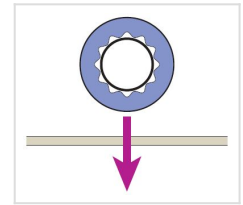
System Notes

1. Acoustic Report: Day Design 3094-35 (Based on Siniat System SWP3.L1C2)
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.

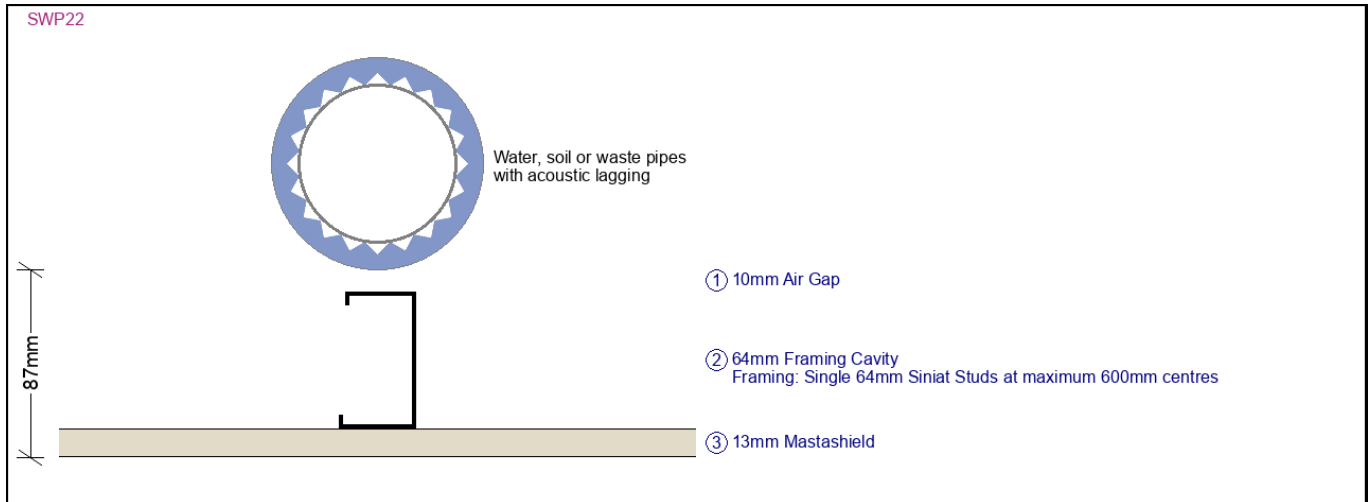
Framing Details

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.

System No.	37
System Reference	Waste Pipe Wall NCC-C2-A2-2
System Code	SWP22
Comments	Lightweight non-load bearing wall separating SOU from soil and waste pipes in a kitchen or non-habitable room, pipes with acoustic lagging



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, R_w , $R_w + C_{tr}$, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne R_w : 45 Airborne $R_w + C_{tr}$: 35 Total Thickness (mm): 87 Insulation Pathway Total R-Value (m ² .K/W): 0.24 Estimated Total Weight (kg/m ²): 9.24	Cavity 1: 10mm Air Gap Cavity 2: 64mm Framing Cavity Framing : Single 64mm Siniat Studs at maximum 600mm centres Lining: 13mm Mastashield

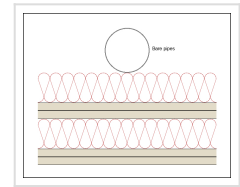
System Notes

1. Acoustic Report: Day Design 3094-35 (Based on Siniat System SWP22.L1C1)
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.

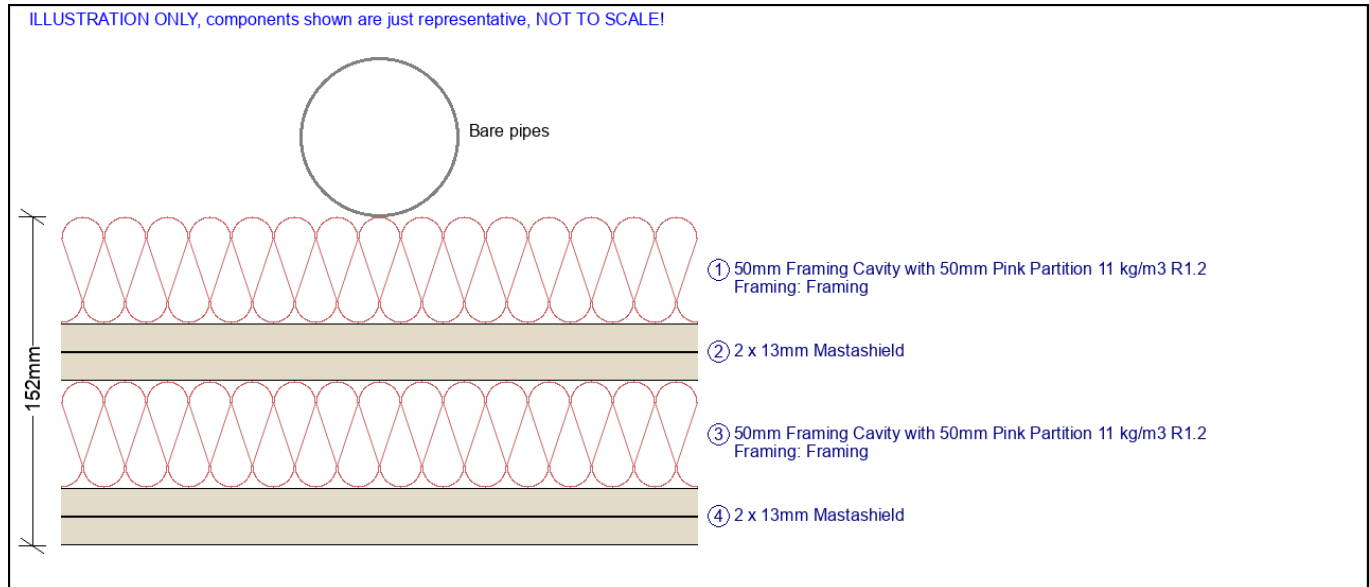
Framing Details

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.

System No.	38
System Reference	Waste Pipe Ceiling NCC-C2-A1-1
Comments	Ceiling separating SOU from soil and waste pipes in a habitable room other than kitchen, pipes without acoustic lagging



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: 53 Airborne Rw + Ctr: 40 Total Thickness (mm): 152 Estimated Total Weight (kg/m2): 33.5	Pipes: Bare pipes Pipe Side Cavity: 50mm Framing Cavity Framing : Framing Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Encasing Box Lining: 2 x 13mm Mastashield Wall or Ceiling Cavity: 50mm Framing Cavity Framing : Framing Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Wall or Ceiling Lining: 2 x 13mm Mastashield

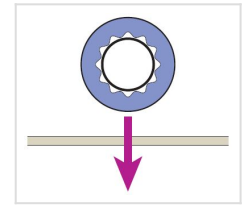
System Notes

1. Acoustic Report: Day Design 5008-1
2. Pipes must not be in contact with framing member, insulation or plasterboard
3. No connection between inner and outer plasterboard layers
4. Soil and waste pipe systems can be a ceiling, wall, bulkhead or duct
5. Insulation to minimum 1200mm either side of pipe in both cavities
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.

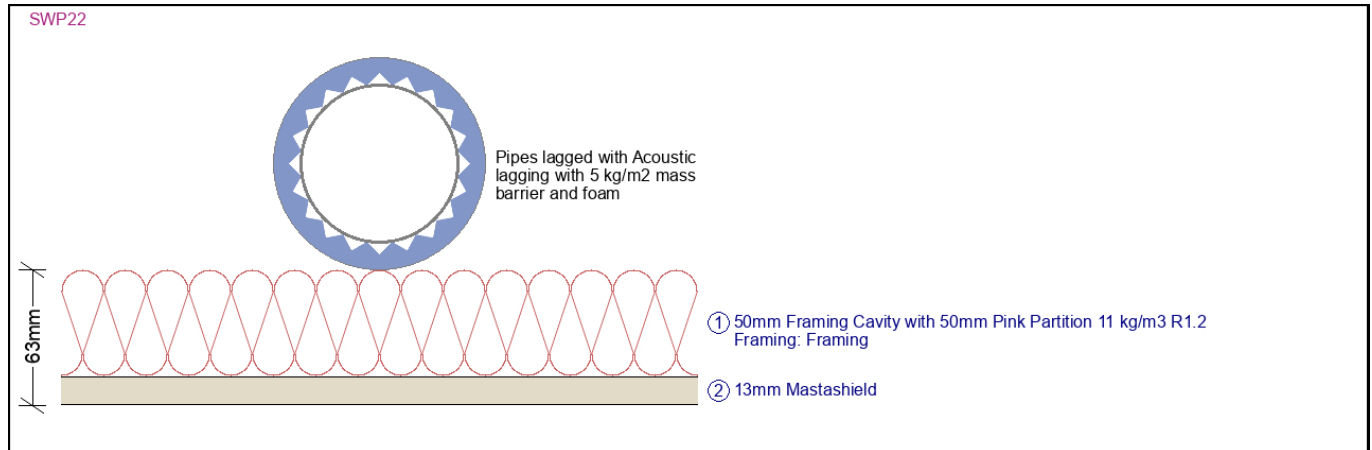
Framing Details

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.

System No.	39
System Reference	Waste Pipe Ceiling NCC-C2-A1-2
System Code	SWP22
Comments	Ceiling separating SOU from soil and waste pipes in a habitable room other than kitchen, pipes with acoustic lagging



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, R_w, R_w + C_{tr}, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

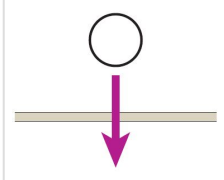
Properties	Composition
Airborne R _w : 48 Airborne R _w + C _{tr} : 40 Total Thickness (mm): 63 Estimated Total Weight (kg/m ²): 8.65	Pipes: Pipes lagged with Acoustic lagging with 5 kg/m² mass barrier and foam Wall or Ceiling Cavity: 50mm Framing Cavity Framing: Framing Insulation: 50mm Pink Partition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

System Notes

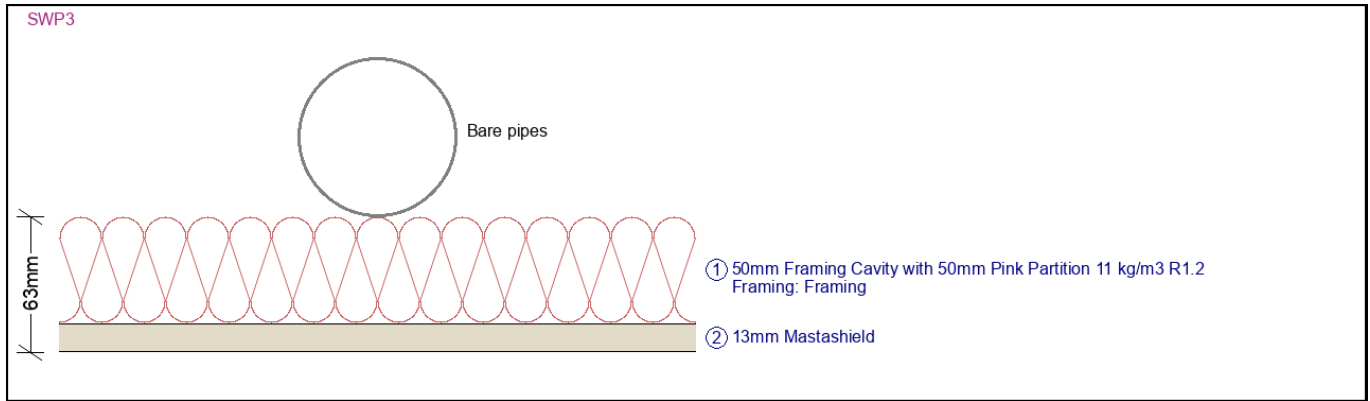
1. Acoustic Report: Day Design 3094-35 (Based on Siniat System SWP22.L1C2)
2. Pipes must not be in contact with framing member, insulation or plasterboard
3. Soil and waste pipe systems can be a ceiling, wall, bulkhead or duct
4. The total weight is an estimate only, valid for the components drawn in 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

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.

System No.	40	
System Reference	Waste Pipe Ceiling NCC-C2-A2-1	
System Code	SWP3	
Comments	Ceiling separating SOU from soil and waste pipes in a kitchen or non-habitable room, pipes without acoustic lagging	

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: 32 Airborne Rw + Ctr: 28 Total Thickness (mm): 63 Estimated Total Weight (kg/m2): 8.65	Pipes: Bare pipes Wall or Ceiling Cavity: 50mm Framing Cavity Framing : Framing Insulation : 50mm Pink Partition 11 kg/m3 R1.2 Wall or Ceiling Lining: 13mm Mastashield

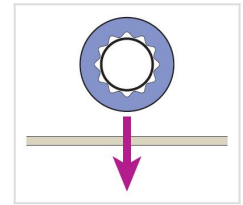
System Notes

1. Acoustic Report: Day Design 3094-35 (Based on Siniat System SWP3.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.

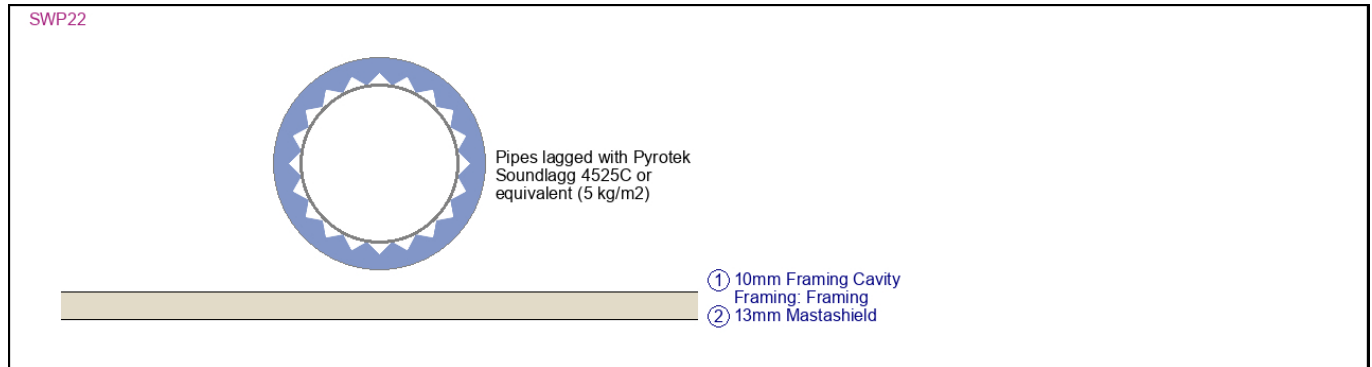
Framing Details

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.

System No.	41
System Reference	Waste Pipe Ceiling NCC-C2-A2-2
System Code	SWP22
Comments	Ceiling separating SOU from soil and waste pipes in a kitchen or non-habitable room, pipes with acoustic lagging



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: 45 Airborne Rw + Ctr: 35 Total Thickness (mm): 23 Estimated Total Weight (kg/m ²): 8.1	Cavity: 10mm Framing Cavity Framing: Framing Lining: 13mm Mastashield

System Notes

1. Acoustic Report: Day Design 3094-35 (Based on Siniat System SWP22.L1C1)
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.

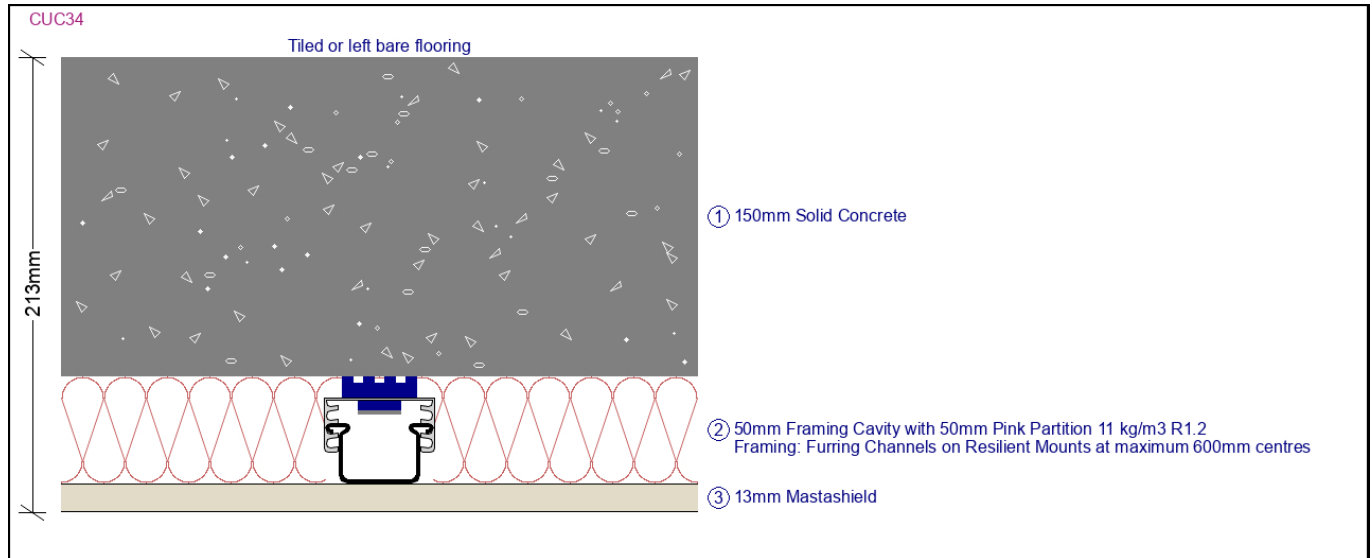
Framing Details

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.

System No.	42
System Reference	Separating Floor NCC-C2-A1-1
System Code	CUC34
Comments	Floors separating adjoining SOUs, minimum 150mm concrete slab and 50mm ceiling cavity



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: 62 Airborne Rw + Ctr: 52 Impact Ln,w: 62 Total Thickness (mm): 213 Estimated Total Weight (kg/m ²): 369.27	Floor Covering: Tiled or left bare flooring Flooring: 150mm Solid Concrete Ceiling Cavity: 50mm Framing Cavity Framing : 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
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.

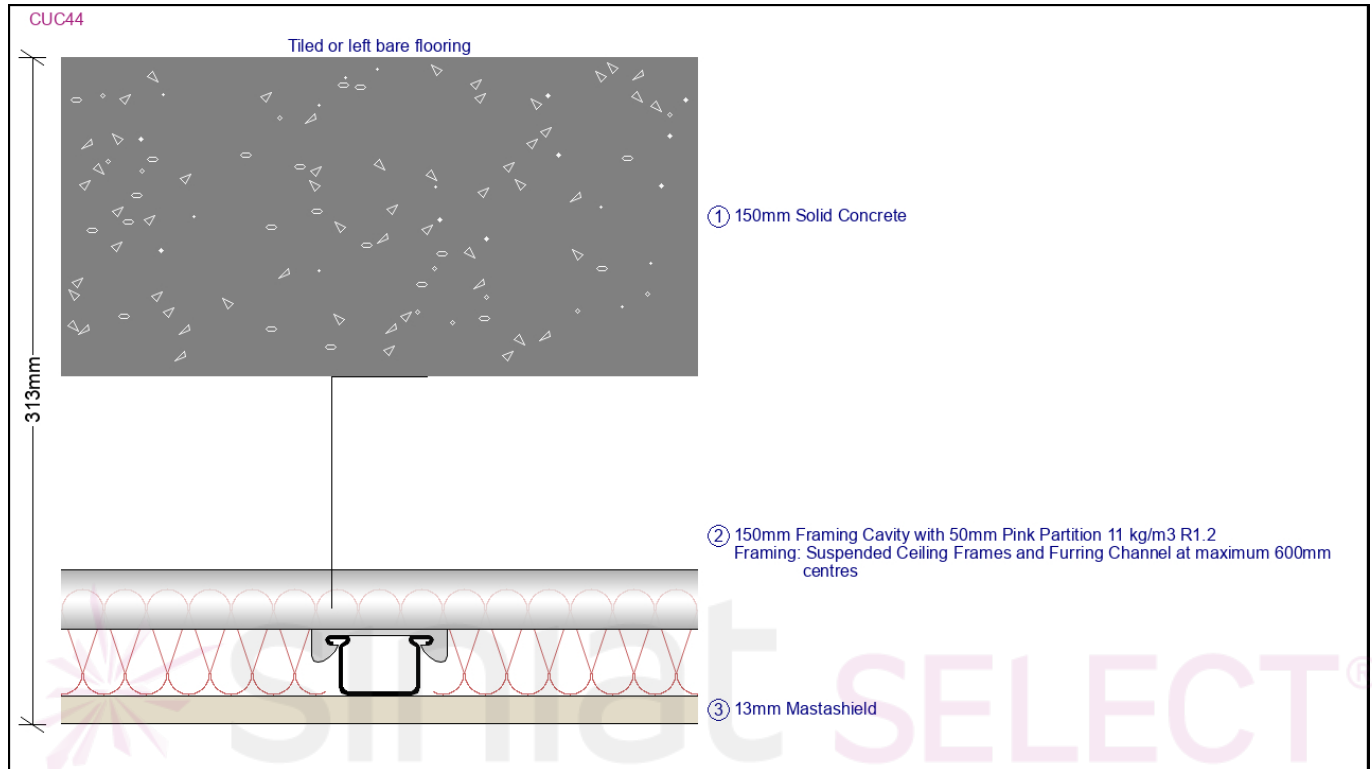
Framing Details

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.

System No.	43
System Reference	Separating Floor NCC-C2-A1-2
System Code	CUC44
Comments	Floors separating adjoining SOUs, minimum 150mm concrete slab and 150mm ceiling cavity



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/m ²): 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
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.

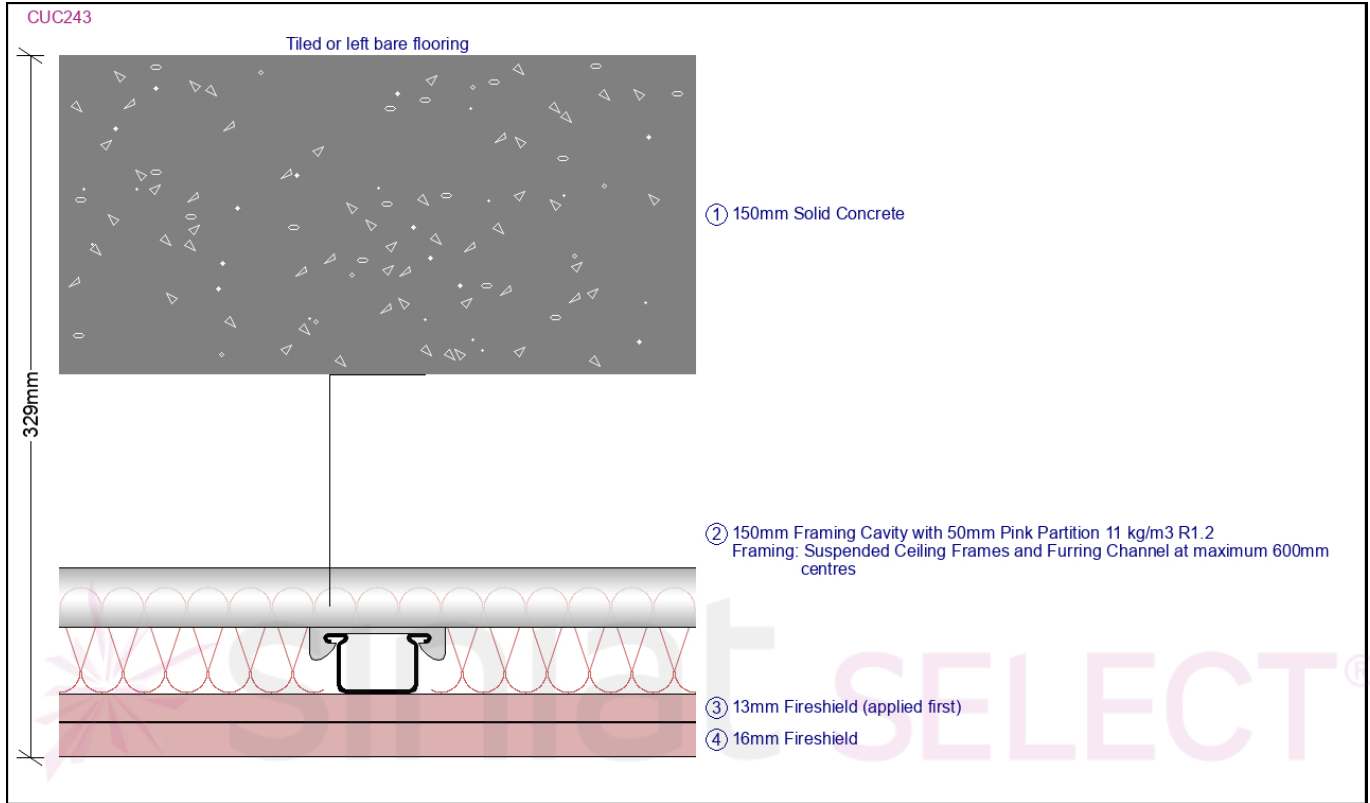
Framing Details

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.

System No.	44
System Reference	Separating Floor NCC-C2-F1
System Code	CUC243
Comments	Floor separating SOUs, separating wall extends to ceiling level only or whenever RISF 60 ceiling is required



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 FRL: 60/60/60 RISF: 60 Airborne Rw: 67 Airborne Rw + Ctr: 56 Impact Ln,w: 59 Total Thickness (mm): 329 Estimated Total Weight (kg/m2): 384.67	Centre 1: 150mm Solid Concrete Cavity 2: 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 Side 2: 13mm Fireshield (applied first) plus 16mm Fireshield

System Notes

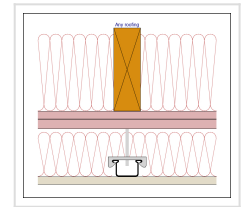
1. Fire Report: FAR2879
2. Acoustic Report: Day Design 5008-25 (Based on Siniat System CUC243.L1C4)
3. Use Multishield or Trurock of same thickness in place of Fireshield for external fire rated ceilings
4. The total weight is an estimate only, valid for the components drawn in the illustration, and 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

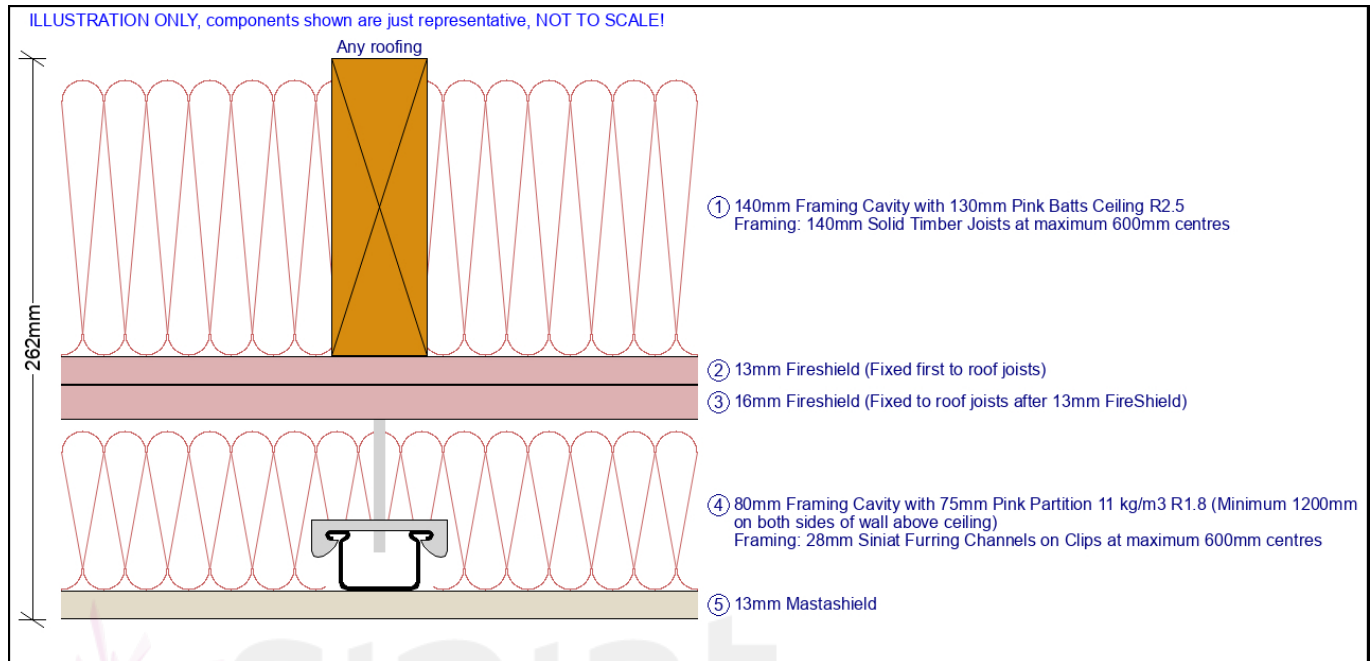
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	45
System Reference	Roof NCC-C2-F1
Comments	Ceilings under roofs, separating wall extends to ceiling level 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 below only FRL: 60/60/60 RISF: 60 Total Thickness (mm): 262.00 Estimated Total Weight (kg/m ²): 34.16	Cavity 1: 140mm Framing Cavity Framing : Solid Timber Joists at maximum 600mm centres (Example only, cavity size varies depending on roof structure, insulation as required to comply with NCC Volume One Section J requirements) Insulation : 130mm Pink Batts Ceiling R2.5 Centre 1: 13mm Fireshield (Fixed first to roof joists) plus 16mm Fireshield (Fixed to roof joists after 13mm FireShield) Cavity 2: 80mm Framing Cavity Framing : Furring Channels on Clips at maximum 600mm centres (80mm is the minimum cavity required to maintain ceiling attenuation class Rw + Ctr rating of 50) Insulation : 75mm Pink Partition 11 kg/m³ R1.8 (Minimum 1200mm on both sides of wall above ceiling) Side 2: 13mm Mastashield

System Notes

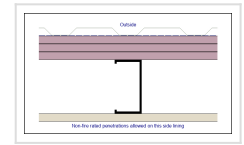
1. Fire Report: FAR 2879
2. The total weight is an estimate only, valid for the components drawn in the illustration, and does not take into account the weight of the structural (load-bearing) framing components.
3. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

Framing Details

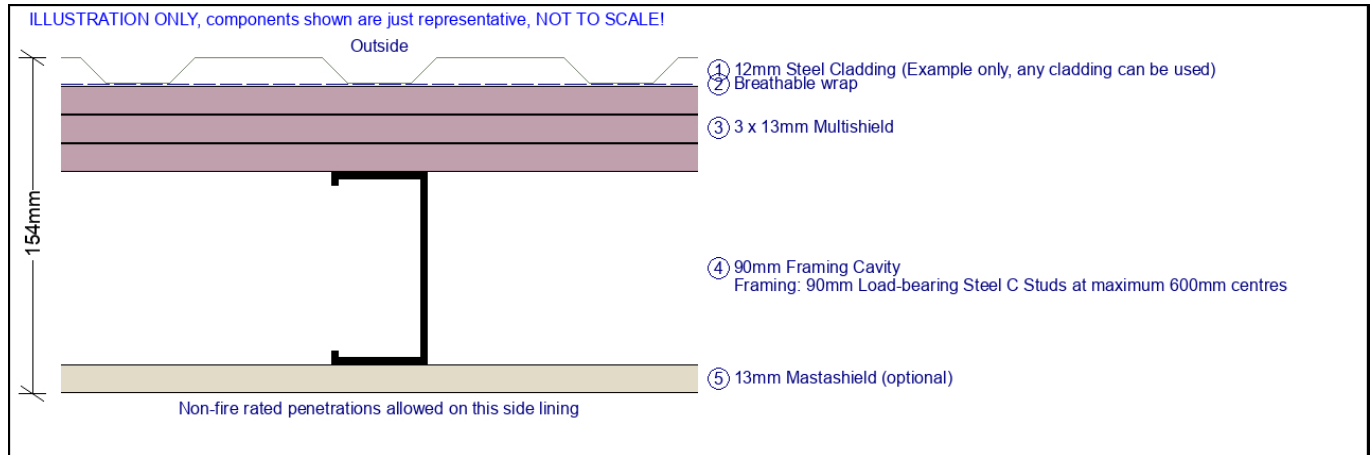
For internal steel walls and ceilings, refer to the framing tables in the Blueprint. For external steel walls and ceilings, please contact Siniat Engineering Services.



System No.	46
System Reference	Fire Escape Wall NCC-C2-LB-F1
Comments	Loadbearing wall of fire-isolated passageway



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, R_w , $R_w + C_{tr}$, 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): 154.00 Insulation Pathway Total R-Value (m ² .K/W): 0.630 Estimated Total Weight (kg/m ²): 48.60	External cladding: 12mm Steel Cladding (Example only, any cladding can be used) Sarking: Any Breathable wrap External Lining: 3 x 13mm Multishield Wall Cavity: 90mm Framing Cavity Framing : Load-bearing Steel C Studs at maximum 600mm centres (Example only, loadbearing framing as per structural design) Internal Lining: 13mm Mastashield (optional)

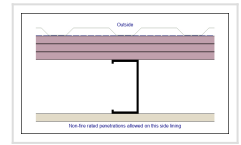
System Notes

1. Fire Report: 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.

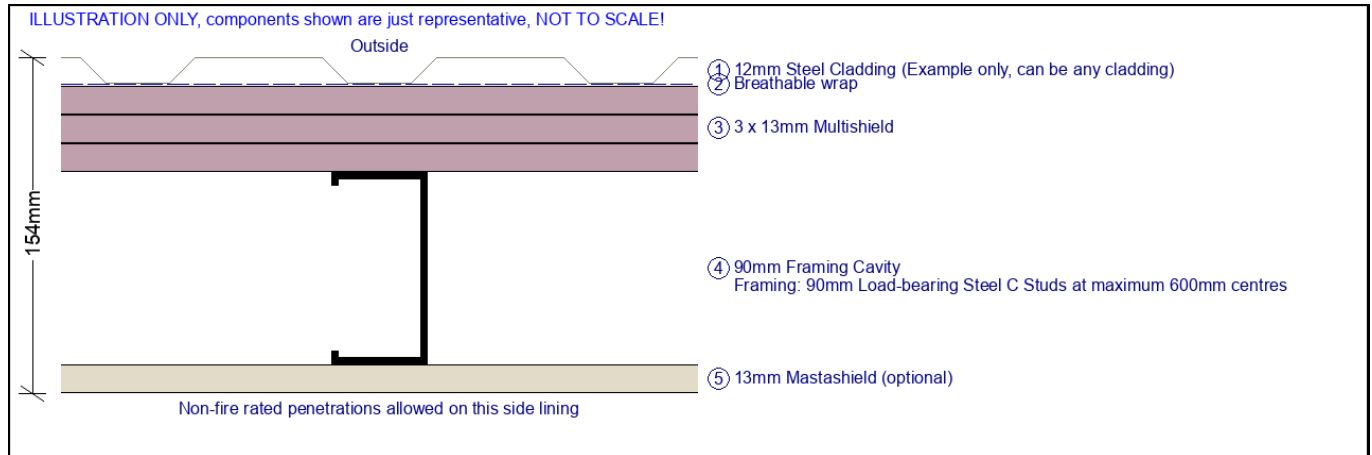
Framing Details

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.

System No.	47
System Reference	Fire Escape Roof NCC-C2-LB-F1
Comments	Roof of a fire-isolated passageway, fire-resisting lift or stair 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, R_w , $R_w + C_{tr}$, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Fire Protection: Rated from above only FRL: 90/90/90 Total Thickness (mm): 154 Estimated Total Weight (kg/m ²): 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)

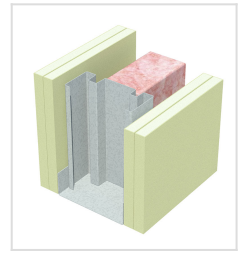
System Notes

1. Fire Report: FAR4456
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.

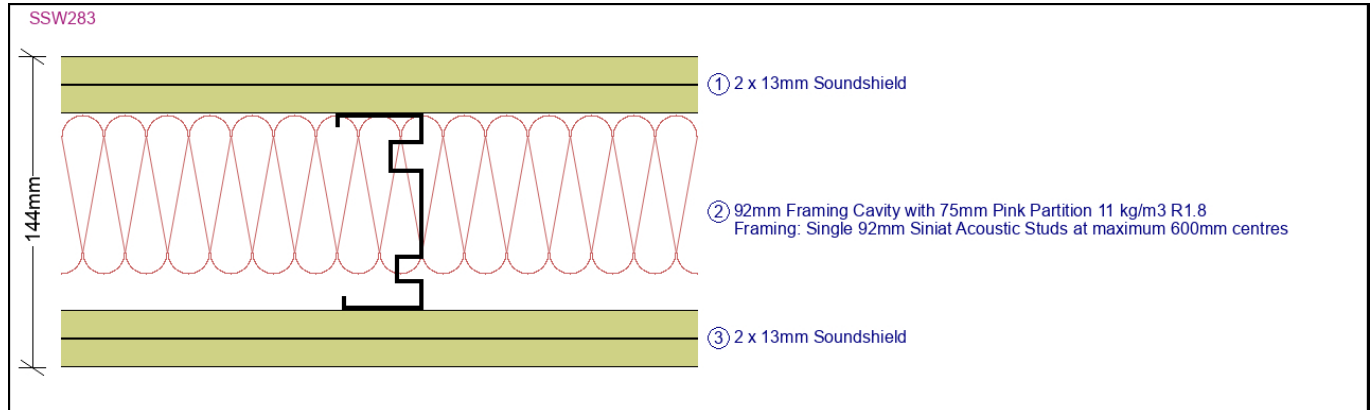
Framing Details

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.

System No.	48
System Reference	Partition Wall NCC-C2-A1
System Code	SSW283
Comments	Internal partition wall between home theatre or music room and bedroom



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, R_w , $R_w + C_{tr}$, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne R_w : 62 Airborne $R_w + C_{tr}$: 54 Impact Sound Resistant: No Total Thickness (mm): 144 Insulation Pathway Total R-Value (m ² .K/W): 2.27 Estimated Total Weight (kg/m ²): 52.51	Side 1 Lining: 2 x 13mm Soundshield Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Acoustic Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m³ R1.8 Side 2 Lining: 2 x 13mm Soundshield

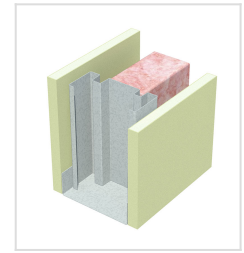
System Notes

1. Acoustic Report: Day Design 5008-28 (Based on Siniat System SSW283.L1C2)
2. Acoustic ratings valid for studs at 600mm centres
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.

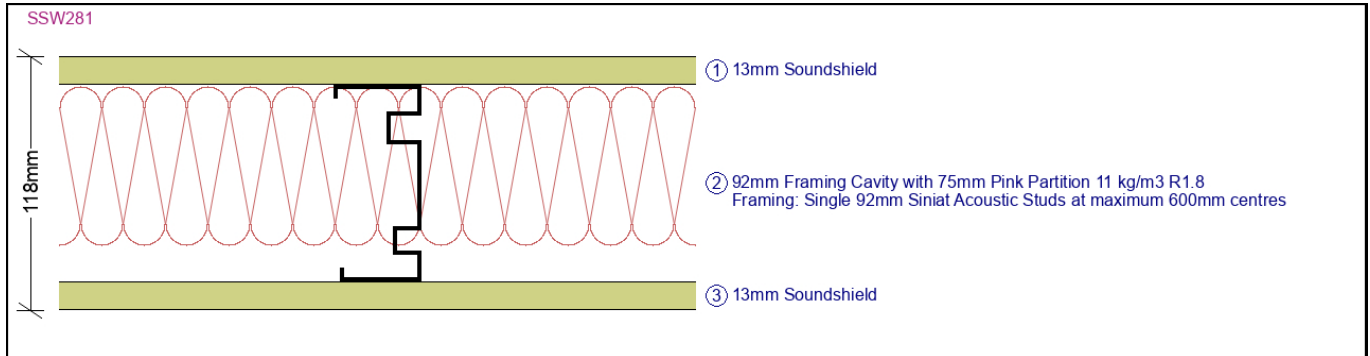
Framing Details

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.

System No.	49
System Reference	Partition Wall NCC-C2-A2
System Code	SSW281
Comments	Internal partition wall between lounge room and bedroom



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, R_w , $R_w + C_{tr}$, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne R_w : 50 Airborne $R_w + C_{tr}$: 42 Impact Sound Resistant: No Total Thickness (mm): 118 Insulation Pathway Total R-Value (m ² .K/W): 2.11 Estimated Total Weight (kg/m ²): 27.71	Side 1 Lining: 13mm Soundshield Cavity: 92mm Framing Cavity Framing : Single 92mm Siniat Acoustic Studs at maximum 600mm centres Insulation : 75mm Pink Partition 11 kg/m³ R1.8 Side 2 Lining: 13mm Soundshield

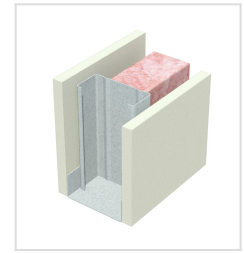
System Notes

1. Acoustic Report: Day Design 5008-28 (Based on Siniat System SSW281.L1C2)
2. Acoustic ratings valid for studs at 600mm centres
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.
6. Refer to latest published Siniat Technical Manual for installation instructions and construction details.

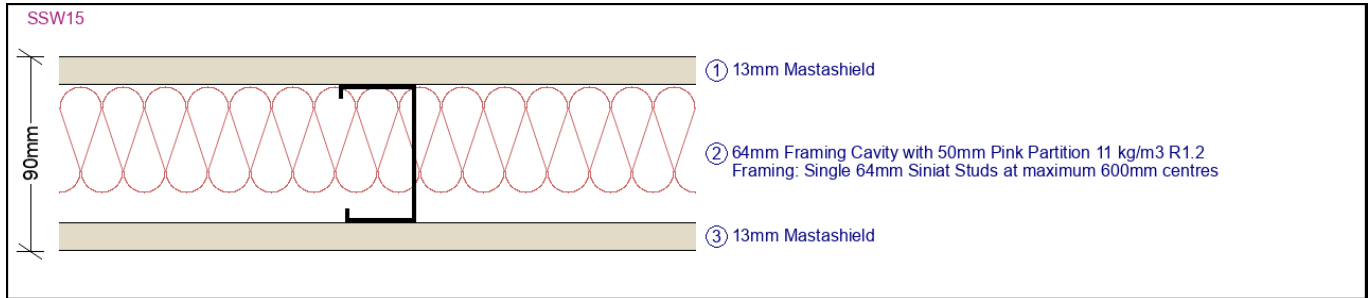
Framing Details

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.

System No.	50
System Reference	Partition Wall NCC-C2-A3
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, R_w, R_w + Ctr, etc. printed anywhere other than inside the 'Properties' column are not verified by Siniat.

Properties	Composition
Airborne R _w : 42 Airborne R _w + Ctr: 33 Impact Sound Resistant: No Total Thickness (mm): 90 Insulation Pathway Total R-Value (m ² .K/W): 1.51 Estimated Total Weight (kg/m ²): 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

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®

End of Proposal