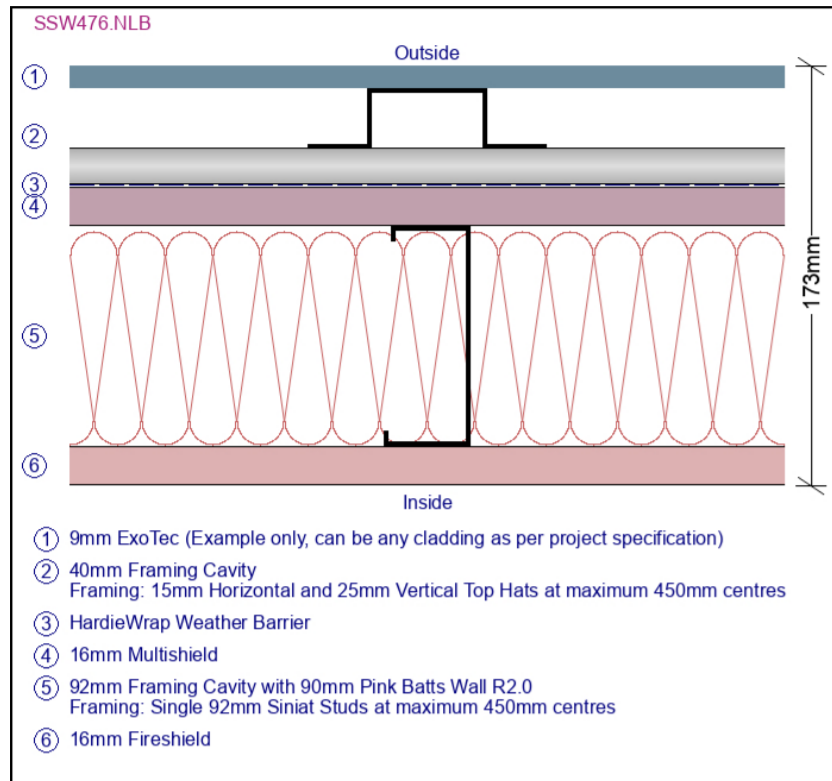
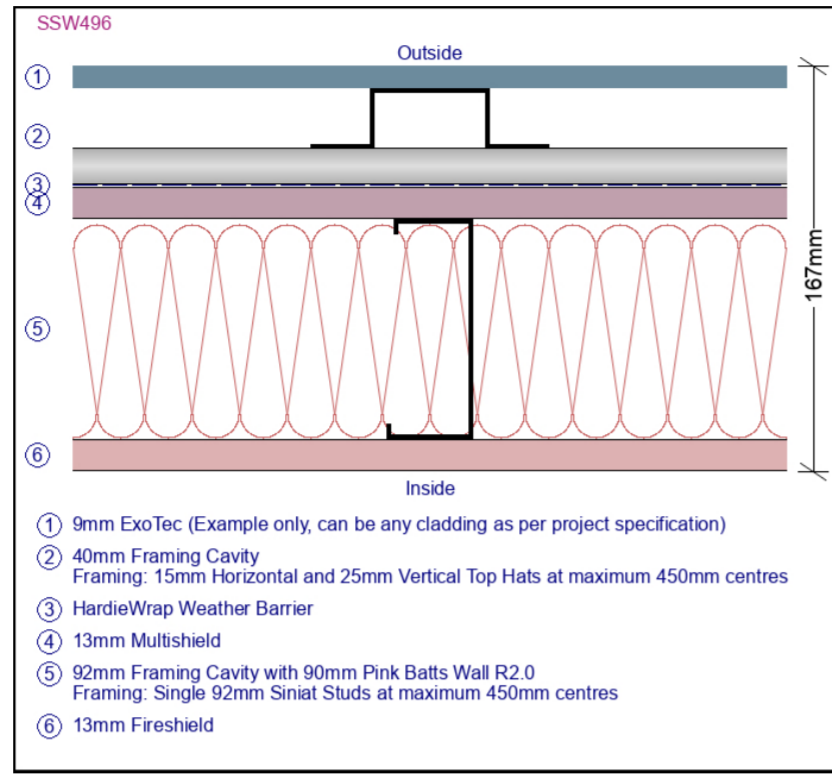


**#1: External Wall NCC-C2-NLB-F1**



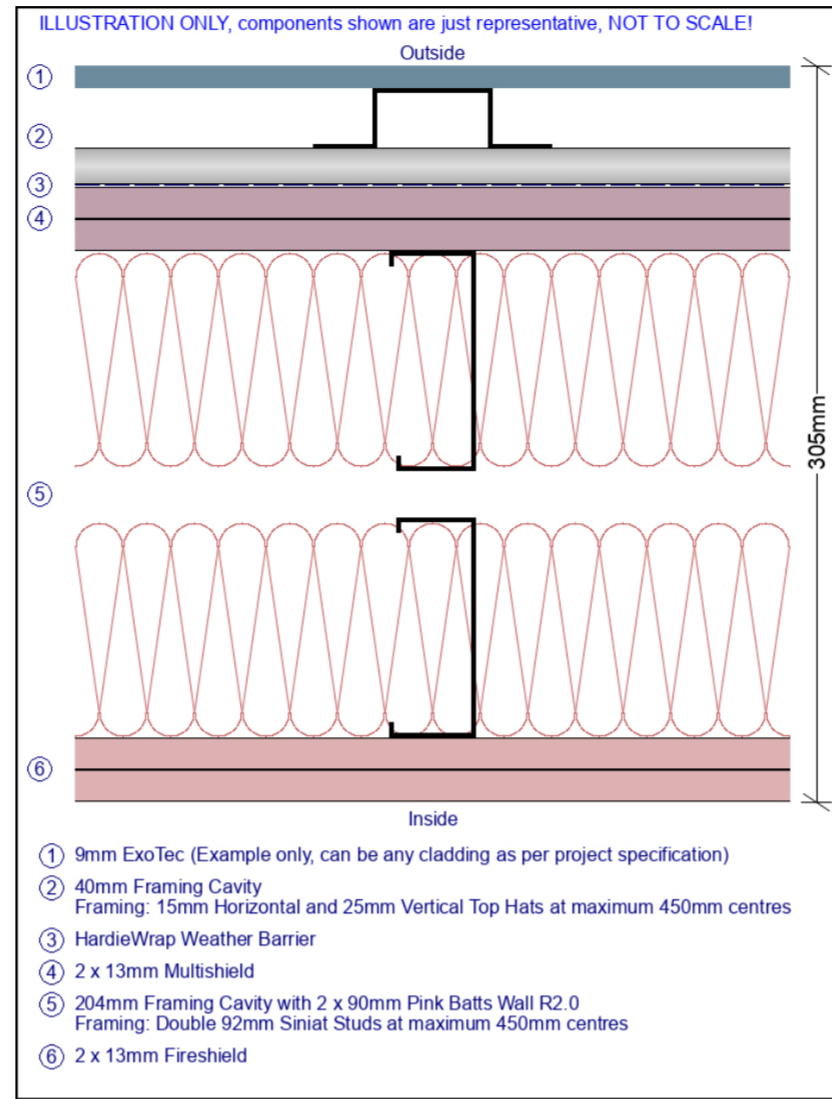
Rated from both sides; Non-Load Bearing FRL: -/90/90; Load Bearing FRL: 60/60/60  
 Rw: 48; Rw + Ctr: 41  
 Insulation Pathway Total R-Value (note 7): 2.53 m2.K/W

**#2: External Wall NCC-C2-NLB-F2**



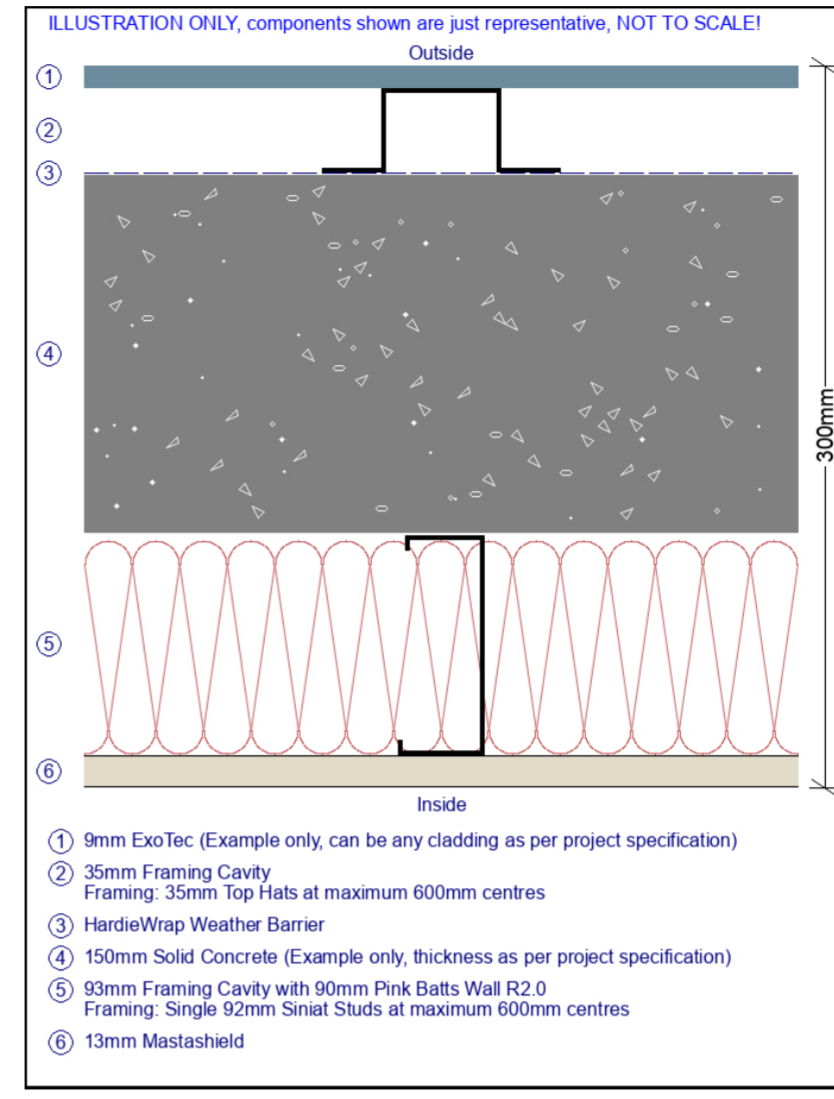
Rated from both sides; Non-Load Bearing FRL: -/60/60; Load Bearing FRL: 30/30/30  
 Rw: 46; Rw + Ctr: 39  
 Insulation Pathway Total R-Value (note 7): 2.49 m2.K/W

**#3: External Wall NCC-C2-NLB-F3**



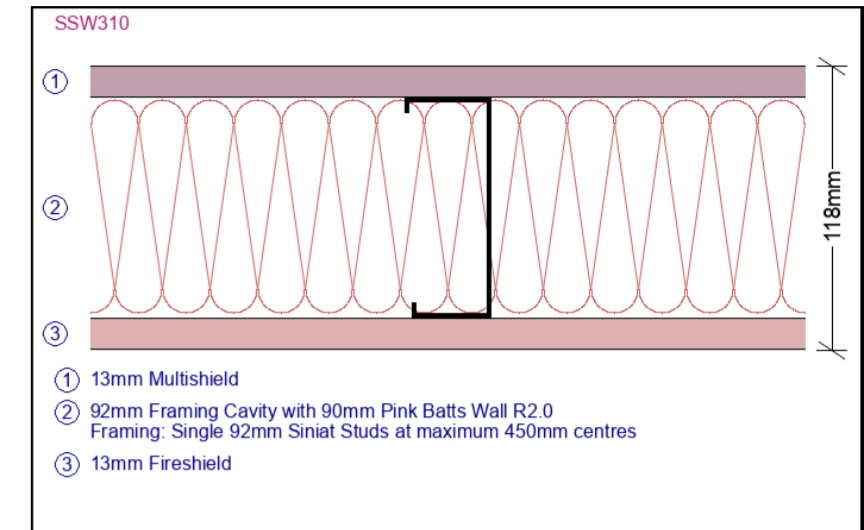
Rated from both sides; FRL1: -/120/120; FRL2: 90/90/90  
 Rw: 69; Rw + Ctr: 57; Discontinuous Construction  
 Insulation Pathway Total R-Value (note 7): 4.64 m2.K/W

**#4: External Wall NCC-C2-LB-F1**



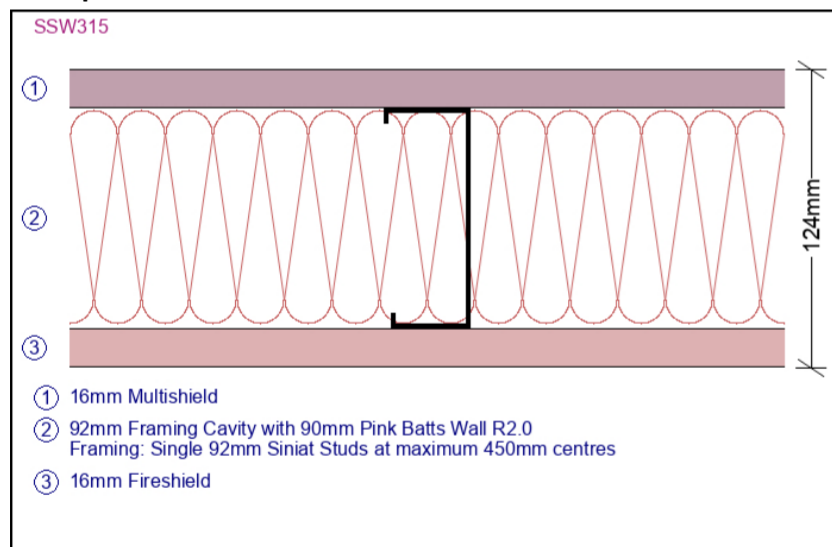
Rated from both sides; FRL: Masonry FRL  
 Rw: 64; Rw + Ctr: 53  
 Insulation Pathway Total R-Value (note 7): 2.52 m2.K/W

**#5: Spandrel Wall NCC-C2-NLB-F1**



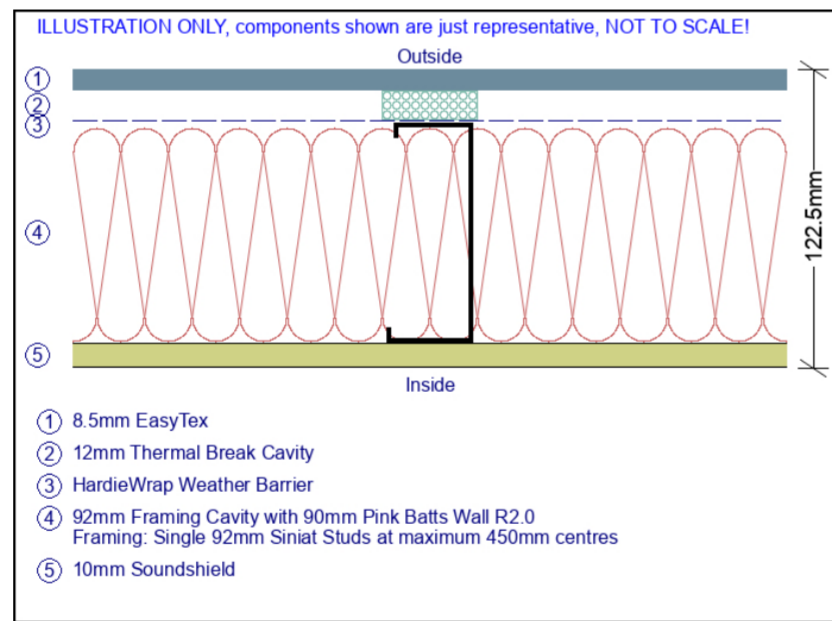
Rated from both sides; FRL1: -/60/60; FRL2: 30/30/30  
 Rw: 41; Rw + Ctr: 32  
 Insulation Pathway Total R-Value (note 7): 2.31 m2.K/W

**#6: Spandrel Wall NCC-C2-LB-F1**



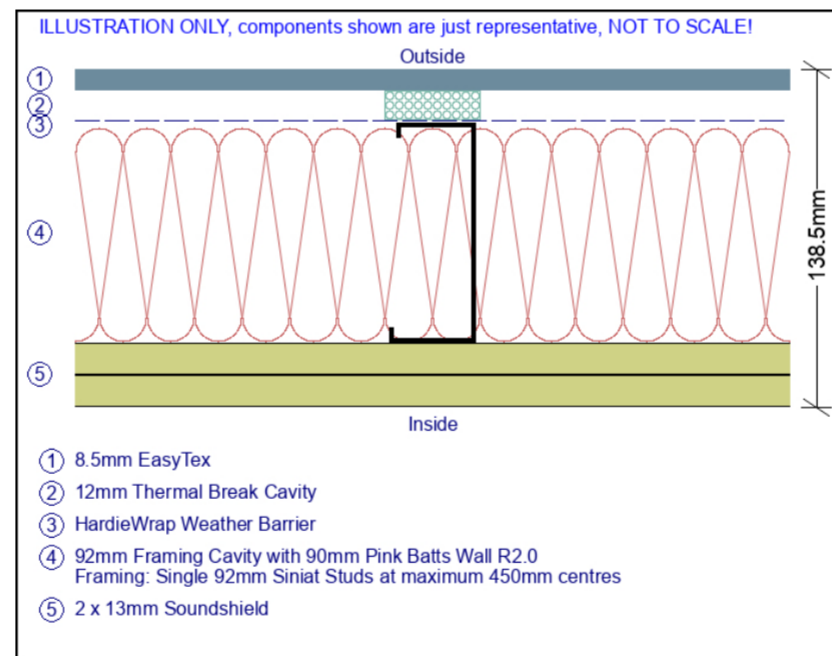
Rated from both sides; Non-Load Bearing FRL: -/90/90; Load Bearing FRL: 60/60/60  
 Rw: 43; Rw + Ctr: 34  
 Insulation Pathway Total R-Value (note 7): 2.35 m2.K/W

**#7: External Wall NCC-C2-NLB-A1**



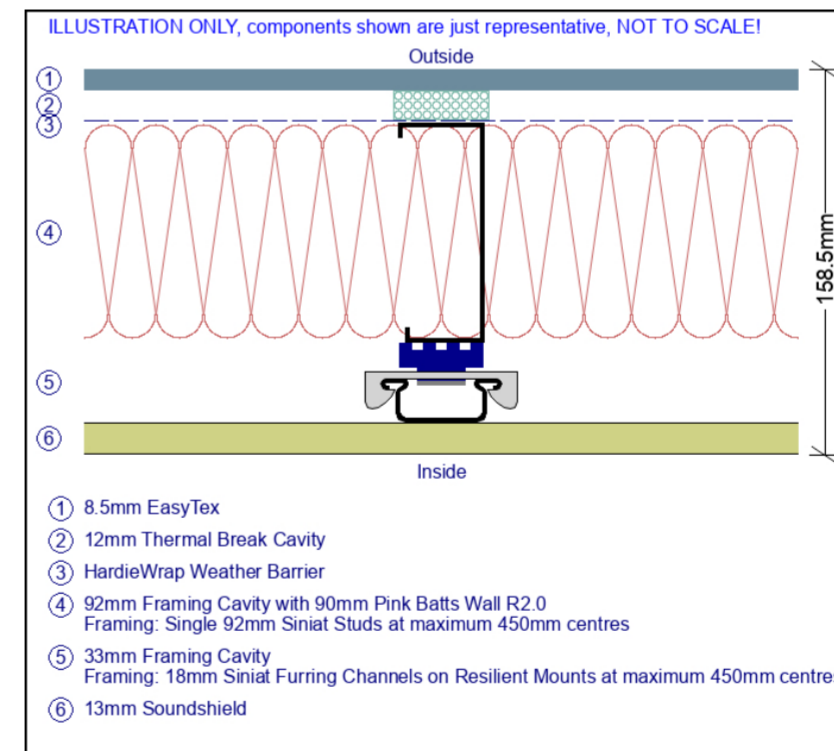
Rw: 43; Rw + Ctr: 32  
 Insulation Pathway Total R-Value (note 7): 2.39 m2.K/W

**#8: External Wall NCC-C2-NLB-A2**



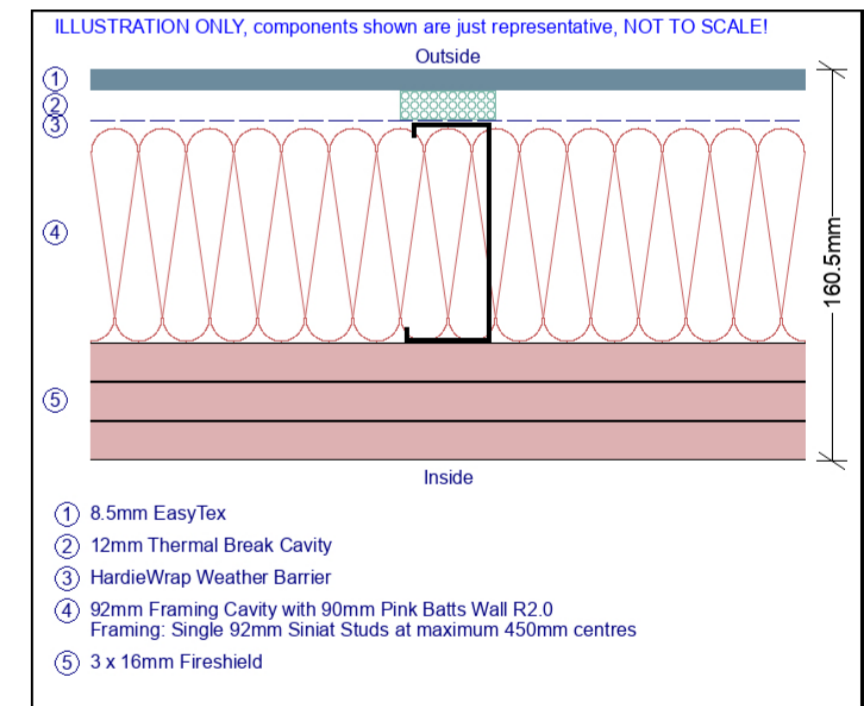
Rw: 48; Rw + Ctr: 40  
 Insulation Pathway Total R-Value (note 7): 2.48 m2.K/W

**#9: External Wall NCC-C2-NLB-A3-1**



Rw: 53; Rw + Ctr: 42; Impact Sound Resistant  
 Insulation Pathway Total R-Value (note 7): 2.41 m2.K/W

**#10: External Wall NCC-C2-NLB-A3-2**



Rw: 52; Rw + Ctr: 44  
 Insulation Pathway Total R-Value (note 7): 2.61 m2.K/W

## Partition and Ceiling Information

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Approved by	

22/09/2021

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3. For dimensions and performance properties of systems in this document that use products not manufactured or supplied by Etex Australia and branded Siniat, refer to the relevant product manufacturer.
4. In wet areas, replace Mastashield with Watershield, Soundshield with Trurock, and Fireshield with Trurock or Multishield of same thickness, and replace 10mm Opal with 13mm Watershield.
5. For enhanced impact resistance, replace any plasterboard with Trurock of same thickness.
6. For framing design of internal steel walls and ceilings, refer to the framing tables in the Siniat Blueprint. For framing design of external steel walls and ceilings, please contact Siniat Engineering Services.
7. The Insulation Pathway Total R-Value of a system provided in this document is a 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 an estimate only, calculated along the insulation pathway without taking into account the thermal bridging effects of framing components and may not comply to the Section J of Building Code of Australia, NCC 2019 Volume One. It is also only valid for summer heat flow (mean temperature of 23°C).

**#11: Corridor Wall NCC-C2-NLB-S1-1**  
SSW391

① 16mm Fireshield  
② 92mm Framing Cavity with 75mm Pink Partition 11 kg/m3 R1.8 Framing: Single 92mm Siniat Acoustic Studs at maximum 600mm centres  
③ 16mm Fireshield

Rated from both sides; FRL1: -/90/90; FRL2: 60/60/60  
Rw: 51; Rw + Ctr: 43  
Insulation Pathway Total R-Value (note 7): 2.15 m2.K/W

**#12: Corridor Wall NCC-C2-NLB-S1-2**  
ILLUSTRATION ONLY, components shown are just representative, NOT TO SCALE!  
Corridor side, no penetrations

① 13mm Fireshield  
② 51mm Framing Cavity with 50mm Pink Partition 11 kg/m3 R1.2 Framing: Single 51mm Siniat Studs at maximum 450mm centres  
③ 13mm Fireshield  
④ 70mm Framing Cavity with 50mm Pink Partition 11 kg/m3 R1.2 Framing: Single 64mm Siniat Studs at maximum 450mm centres  
⑤ 13mm Mastashield

Room side, non-fire rated penetrations allowed

Rated from both sides; FRL1: -/60/60; FRL2: 30/30/30  
Rw: 51; Rw + Ctr: 37  
Insulation Pathway Total R-Value (note 7): 2.79 m2.K/W

**#13: Corridor Wall NCC-C2-NLB-S1-3**  
ILLUSTRATION ONLY, components shown are just representative, NOT TO SCALE!  
Non-fire rated penetrations allowed on this side lining

① 13mm Mastashield  
② 56mm Framing Cavity with 50mm Pink Partition 11 kg/m3 R1.2 Framing: Single 51mm Siniat Studs at maximum 300mm centres  
③ 25mm Shaftliner (Encased in InterHome H Studs)  
④ 56mm Framing Cavity with 50mm Pink Partition 11 kg/m3 R1.2 Framing: Single 51mm Siniat Studs at maximum 300mm centres  
⑤ 13mm Mastashield

Non-fire rated penetrations allowed on this side lining

Rated from both sides; FRL1: -/60/60  
Rw: 51; Rw + Ctr: 36  
Insulation Pathway Total R-Value (note 7): 2.86 m2.K/W

**#14: Corridor Wall NCC-C2-NLB-S2**  
SSW311

① 13mm Fireshield  
② 92mm Framing Cavity with 75mm Pink Partition 11 kg/m3 R1.8 Framing: Single 92mm Siniat Studs at maximum 600mm centres  
③ 2 x 13mm Fireshield

Rated from both sides; FRL1: -/90/90; FRL2: 30/30/30  
Rw: 50; Rw + Ctr: 43  
Insulation Pathway Total R-Value (note 7): 2.19 m2.K/W

**#15: Corridor Wall NCC-C2-NLB-S3-1**  
SSW312

① 2 x 13mm Fireshield  
② 92mm Framing Cavity with 75mm Pink Partition 11 kg/m3 R1.8 Framing: Single 92mm Siniat Studs at maximum 600mm centres  
③ 2 x 13mm Fireshield

Rated from both sides; FRL1: -/120/120; FRL2: 90/90/90  
Rw: 51; Rw + Ctr: 45  
Insulation Pathway Total R-Value (note 7): 2.27 m2.K/W

**#16: Corridor Wall NCC-C2-NLB-S3-2**  
ILLUSTRATION ONLY, components shown are just representative, NOT TO SCALE!  
Corridor side, no penetrations

① 13mm Fireshield  
② 64mm Framing Cavity with 50mm Pink Partition 11 kg/m3 R1.2 Framing: Single 64mm Siniat Studs at maximum 450mm centres  
③ 13mm Fireshield  
④ 70mm Framing Cavity with 50mm Pink Partition 11 kg/m3 R1.2 Framing: Single 64mm Siniat Studs at maximum 450mm centres  
⑤ 13mm Mastashield

Room side, non-fire rated penetrations allowed

Rated from both sides; FRL1: -/60/60; FRL2: 30/30/30  
Rw: 52; Rw + Ctr: 38  
Insulation Pathway Total R-Value (note 7): 2.79 m2.K/W

**#17: Corridor Wall NCC-C2-NLB-S3-3**  
ILLUSTRATION ONLY, components shown are just representative, NOT TO SCALE!  
Non-fire rated penetrations allowed on this side lining

① 13mm Mastashield  
② 69mm Framing Cavity with 50mm Pink Partition 11 kg/m3 R1.2 Framing: Single 64mm Siniat Studs at maximum 450mm centres  
③ 25mm Shaftliner (Encased in InterHome H Studs)  
④ 69mm Framing Cavity with 50mm Pink Partition 11 kg/m3 R1.2 Framing: Single 64mm Siniat Studs at maximum 450mm centres  
⑤ 13mm Mastashield

Non-fire rated penetrations allowed on this side lining

Rated from both sides; FRL1: -/60/60  
Rw: 55; Rw + Ctr: 38  
Insulation Pathway Total R-Value (note 7): 2.86 m2.K/W

**#18: Corridor Wall NCC-C2-LB-M-1**  
PMW4253

① 13mm Mastashield (fixed to furring channels)  
② 30mm Framing Cavity with 25mm Pink Partition 24 kg/m3 R0.7 Framing: 28mm Siniat Furring Channels on Clips at maximum 600mm centres  
③ 150mm Solid Concrete  
④ 30mm Framing Cavity Framing: 28mm Siniat Furring Channels on Clips at maximum 600mm centres  
⑤ 13mm Mastashield (fixed to furring channels)

Rated from both sides; FRL from Both Sides: Masonry FRL  
Rw: 57; Rw + Ctr: 47  
Insulation Pathway Total R-Value (note 7): 1.28 m2.K/W

**#19: Separating Wall NCC-C2-NLB-BW**  
SSW335

① 16mm Fireshield  
② 228mm Discontinuous Framing Cavity with 2 x 75mm Pink Partition 11 kg/m3 R1.8 Framing: Double 92mm Siniat Studs at maximum 600mm centres  
③ 16mm Fireshield

Rated from both sides; Non-Load Bearing FRL: -/90/90; Load Bearing FRL: 60/60/60  
Rw: 61; Rw + Ctr: 51; Discontinuous Construction  
Insulation Pathway Total R-Value (note 7): 3.95 m2.K/W

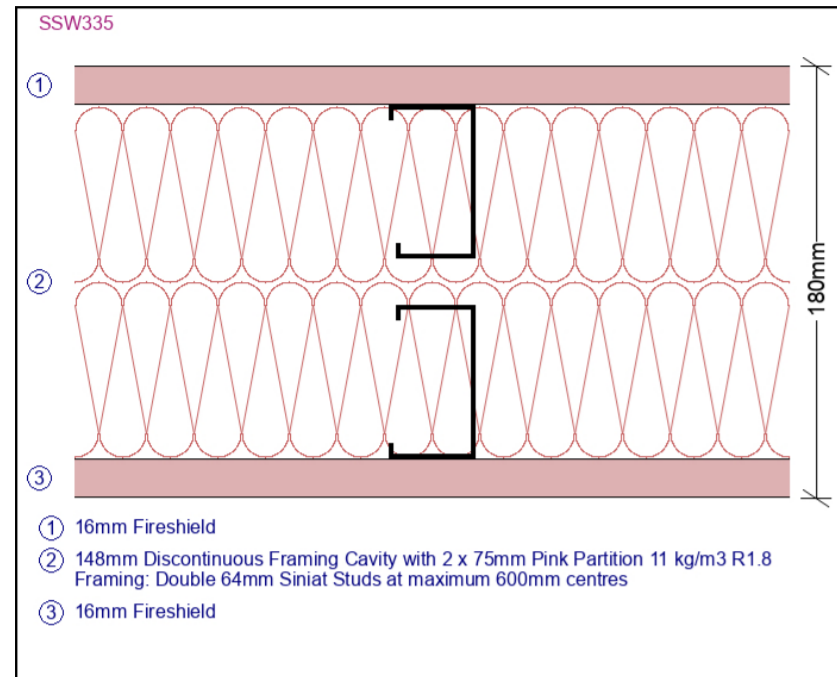
**#20: Separating Wall NCC-C2-LB-BW**  
ILLUSTRATION ONLY, components shown are just representative, NOT TO SCALE!

① 16mm Fireshield  
② 30mm Framing Cavity with 25mm Pink Partition 24 kg/m3 R0.7 Framing: 28mm Siniat Furring Channels on Clips at maximum 600mm centres  
③ 150mm Solid Concrete  
④ 48mm Framing Cavity with 25mm Pink Partition 24 kg/m3 R0.7 Framing: Free Spanning Horizontal 28mm Siniat Furring Channels at maximum 600mm centres  
⑤ 16mm Fireshield

Rated from both sides; Non-Load Bearing FRL: -/90/90; Load Bearing FRL: 60/60/60  
Rw: 60; Rw + Ctr: 52; Discontinuous Construction  
Insulation Pathway Total R-Value (note 7): 1.85 m2.K/W

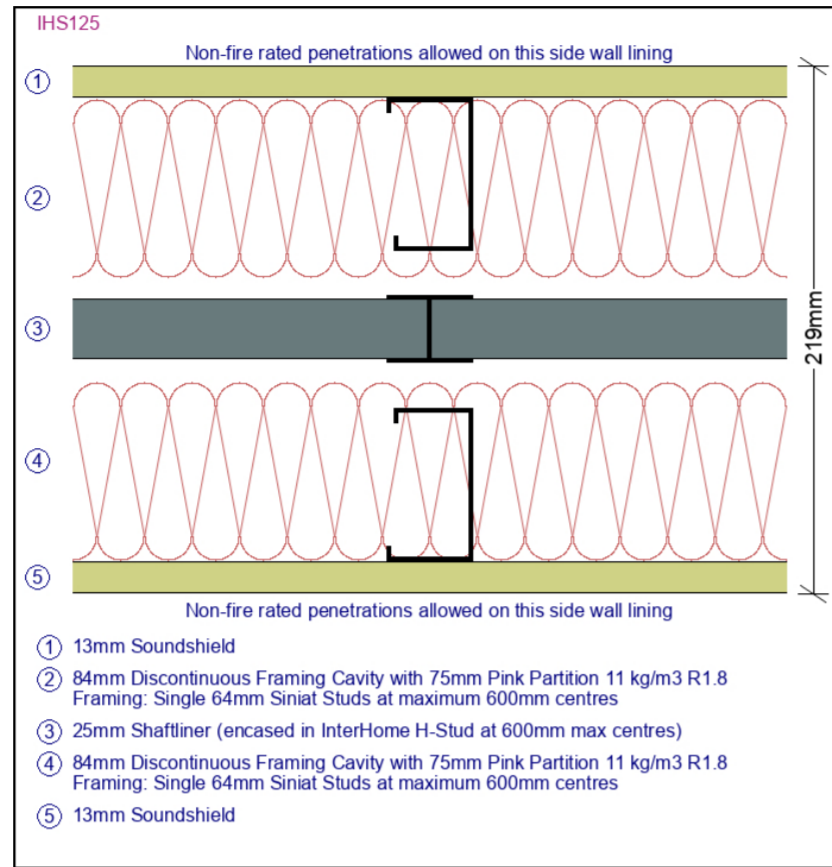
Partition and Ceiling Information		Issue No.	4
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Approved by		22/09/2021	
Siniat standard wall and ceiling systems recommended for Class 2 high-rise multi-units residential building made of reinforced concrete structure to meet the deemed-to-satisfy provisions of the NCC.			
<p>1. Siniat SELECT Project is a proposal only and is subject to the project/builder's approval as many aspects of construction are not comprehensively covered.</p> <p>2. 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.</p> <p>3. For dimensions and performance properties of systems in this document that use products not manufactured or supplied by Etex Australia and branded Siniat, refer to the relevant product manufacturer.</p> <p>4. In wet areas, replace Mastashield with Watershield, Soundshield with Trurock, and Fireshield with Trurock or Multishield of same thickness, and replace 10mm Opal with 13mm Watershield.</p> <p>5. For enhanced impact resistance, replace any plasterboard with Trurock of same thickness.</p> <p>6. For framing design of internal steel walls and ceilings, refer to the framing tables in the Siniat Blueprint. For framing design of external steel walls and ceilings, please contact Siniat Engineering Services.</p> <p>7. The Insulation Pathway Total R-Value of a system provided in this document is a 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 an estimate only, calculated along the insulation pathway without taking into account the thermal bridging effects of framing components and may not comply to the Section J of Building Code of Australia, NCC 2019 Volume One. It is also only valid for summer heat flow (mean temperature of 23°C).</p>			

#21: Separating Wall NCC-C2-NLB-F1-1



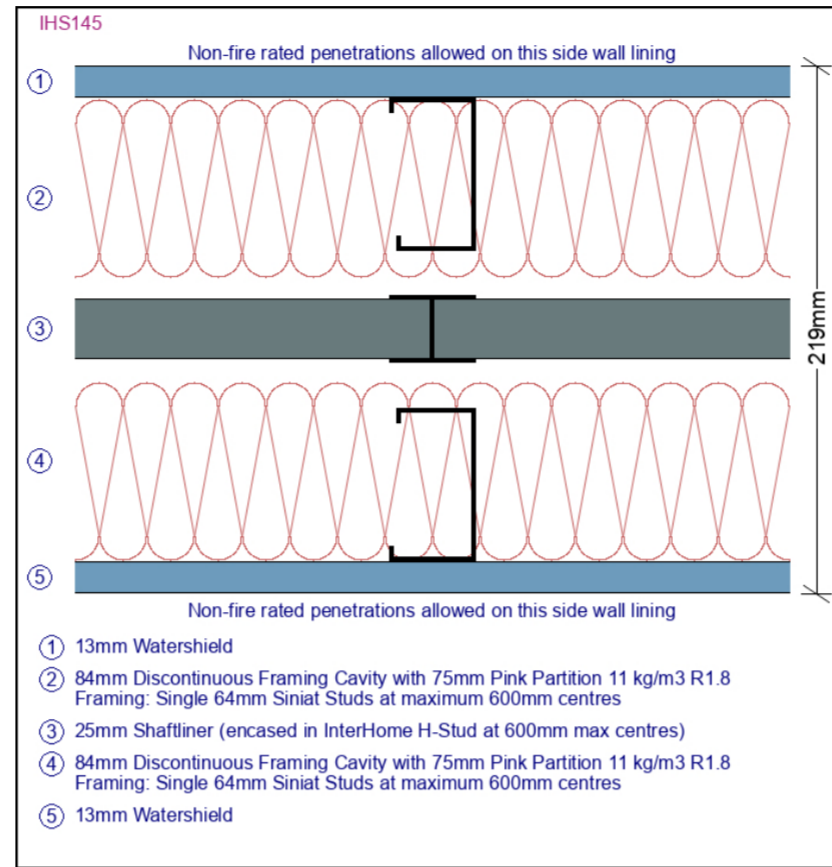
Rated from both sides; Non-Load Bearing FRL: -/90/90; Load Bearing FRL: 60/60/60  
 Rw: 60; Rw + Ctr: 50; Discontinuous Construction  
 Insulation Pathway Total R-Value (note 7): 3.93 m2.K/W

#22: Separating Wall NCC-C2-NLB-F1-2



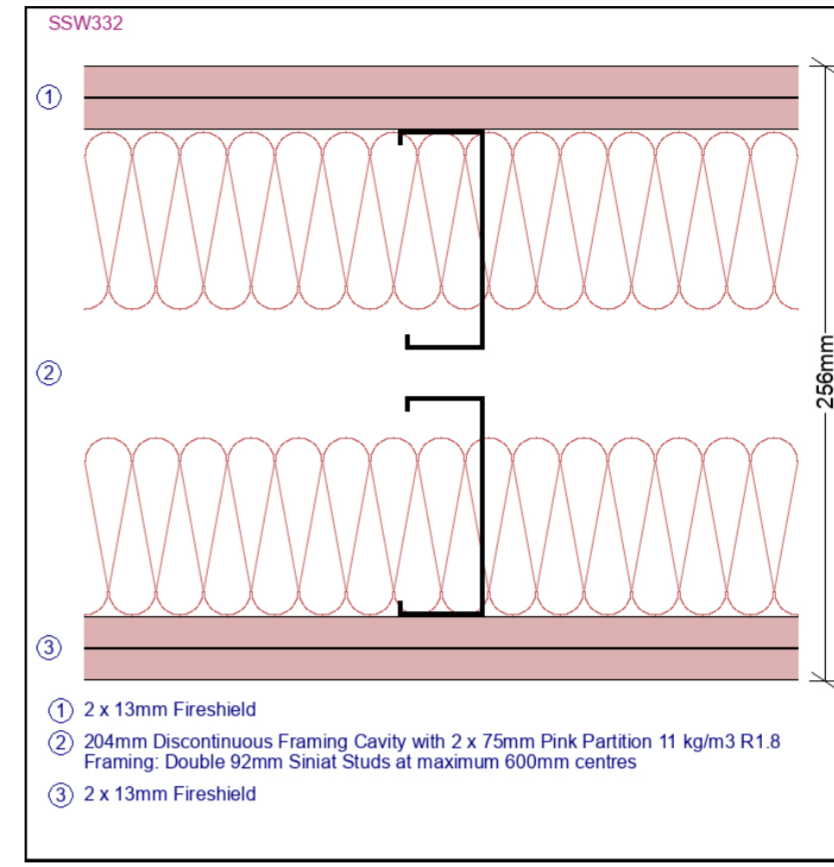
Rated from both sides; Non-Load Bearing FRL: -/60/60  
 Rw: 66; Rw + Ctr: 53; Discontinuous Construction  
 Insulation Pathway Total R-Value (note 7): 4.06 m2.K/W

#23: Separating Wall NCC-C2-NLB-F1-3



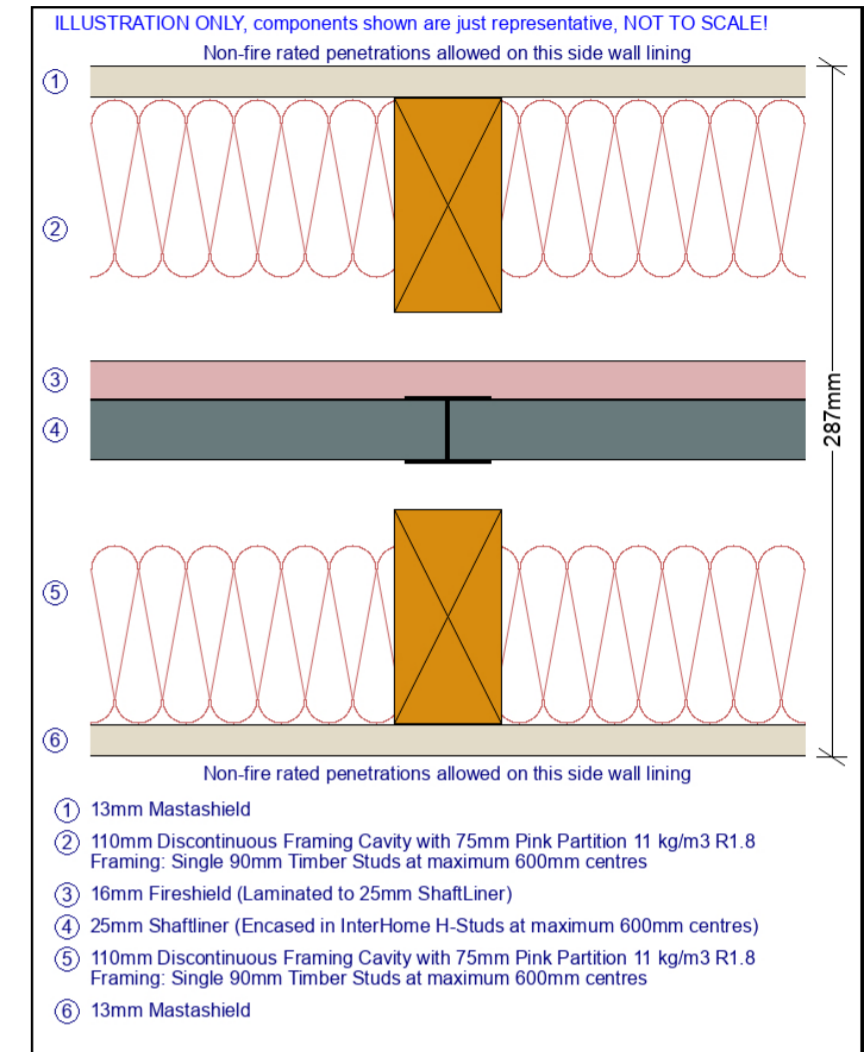
Rated from both sides; Non-Load Bearing FRL: -/60/60  
 Rw: 65; Rw + Ctr: 50; Discontinuous Construction  
 Insulation Pathway Total R-Value (note 7): 4.06 m2.K/W

#24: Separating Wall NCC-C2-NLB-F2



Rated from both sides; Non-Load Bearing FRL: -/120/120; Load Bearing FRL: 90/90/90  
 Rw: 64; Rw + Ctr: 55; Discontinuous Construction  
 Insulation Pathway Total R-Value (note 7): 4.07 m2.K/W

#25: Separating Wall NCC-C2-LB-T-F1

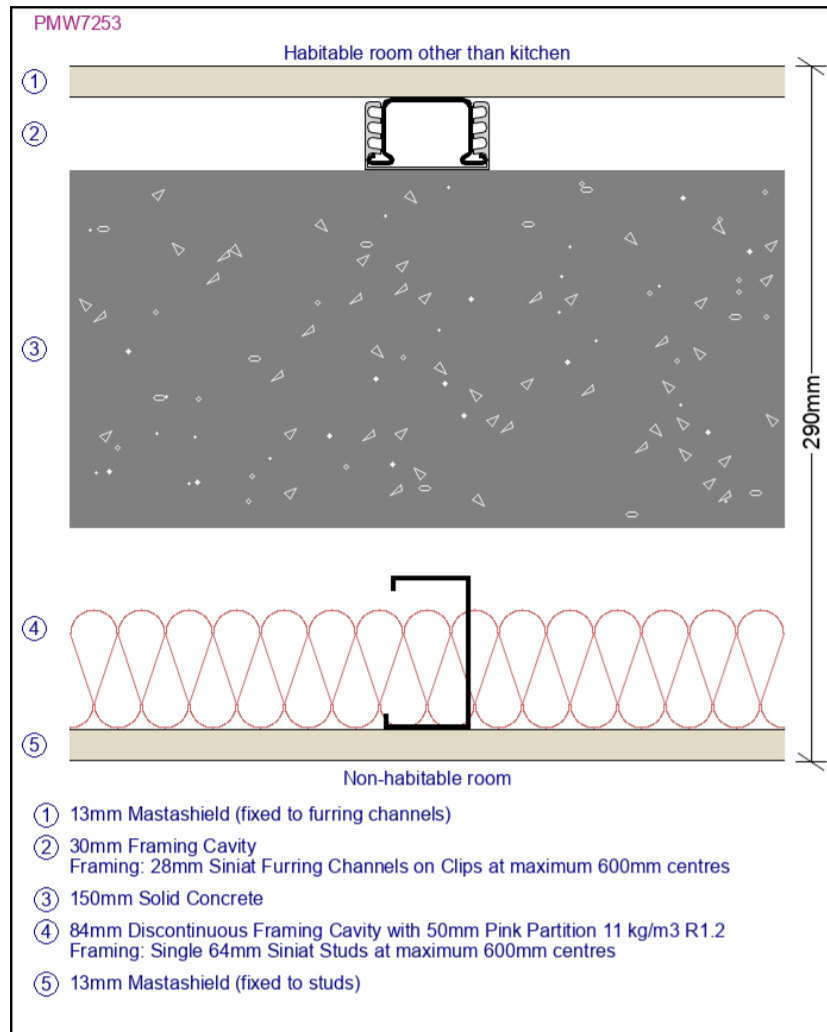


Rated from both sides; Load Bearing FRL: 90/90/90  
 Rw: 69; Rw + Ctr: 55; Discontinuous Construction  
 Insulation Pathway Total R-Value (note 7): 4.15 m2.K/W

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Updated by	Siniat Technical Services	22/09/2021	1. Siniat SELECT Project is a proposal only and is subject to the project/builder's approval as many aspects of construction are not comprehensively covered. 2. 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. 3. For dimensions and performance properties of systems in this document that use products not manufactured or supplied by Etex Australia and branded Siniat, refer to the relevant product manufacturer. 4. In wet areas, replace Mastashield with Watershield, Soundshield with Trurock, and Fireshield with Trurock or Multishield of same thickness, and replace 10mm Opal with 13mm Watershield. 5. For enhanced impact resistance, replace any plasterboard with Trurock of same thickness. 6. For framing design of internal steel walls and ceilings, refer to the framing tables in the Siniat Blueprint. For framing design of external steel walls and ceilings, please contact Siniat Engineering Services. 7. The Insulation Pathway Total R-Value of a system provided in this document is a 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 an estimate only, calculated along the insulation pathway without taking into account the thermal bridging effects of framing components and may not comply to the Section J of Building Code of Australia, NCC 2019 Volume One. It is also only valid for summer heat flow (mean temperature of 23°C).
Reviewed by			
Approved by			

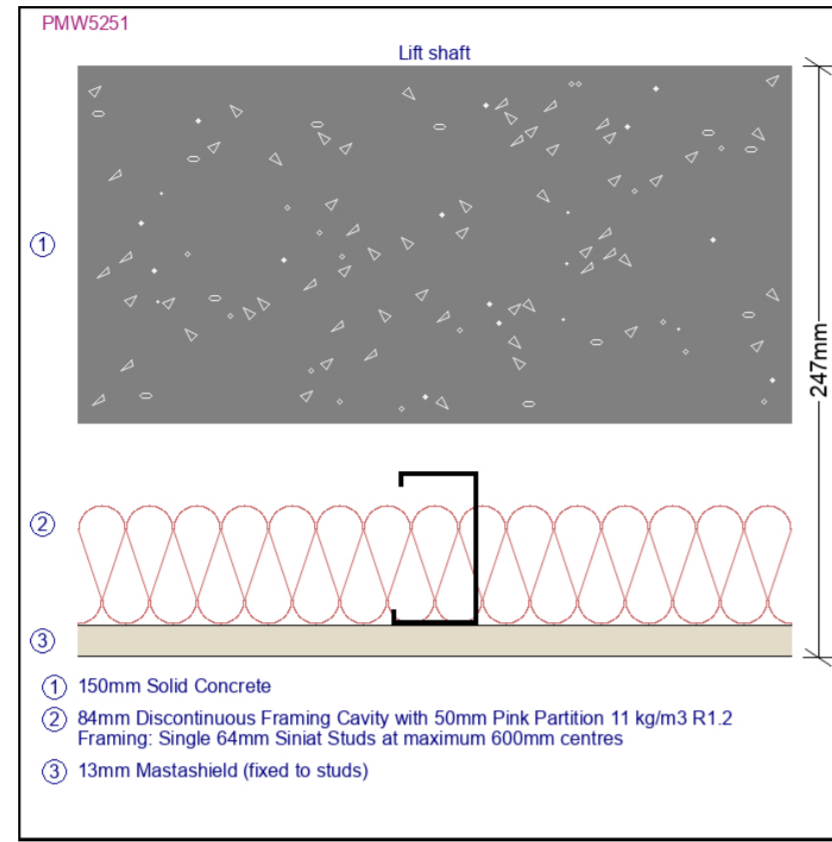
Siniat standard wall and ceiling systems recommended for Class 2 high-rise multi-units residential building made of reinforced concrete structure to meet the deemed-to-satisfy provisions of the NCC.

#26: Separating Wall NCC-C2-LB-M-1



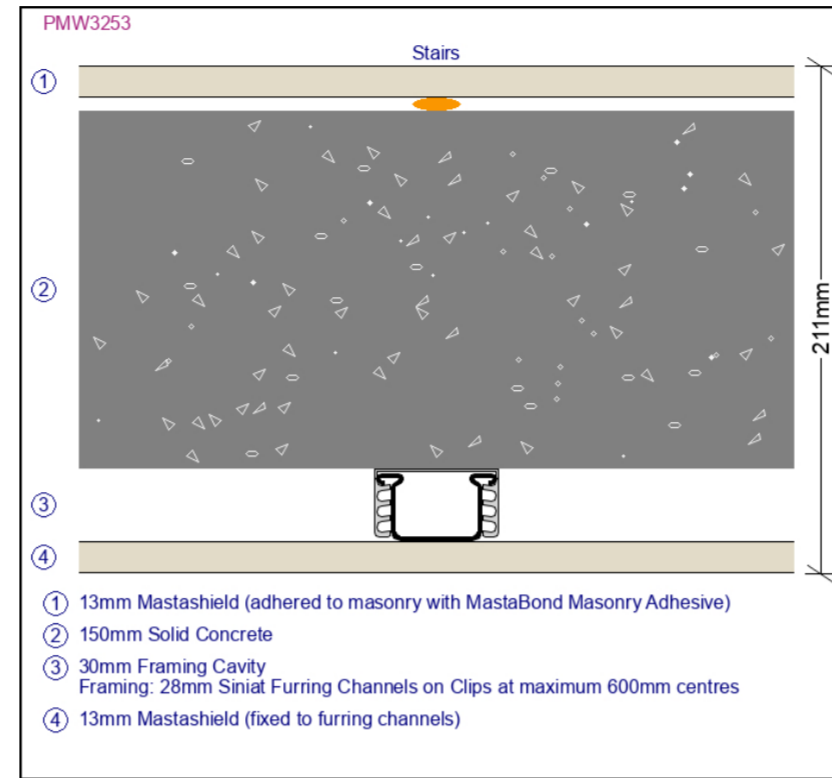
Rated from both sides; FRL from Both Sides: Masonry FRL  
Rw: 61; Rw + Ctr: 51; Discontinuous Construction  
Insulation Pathway Total R-Value (note 7): 1.78 m2.K/W

#27: Lift Shaft Wall NCC-C2-LB-M-1



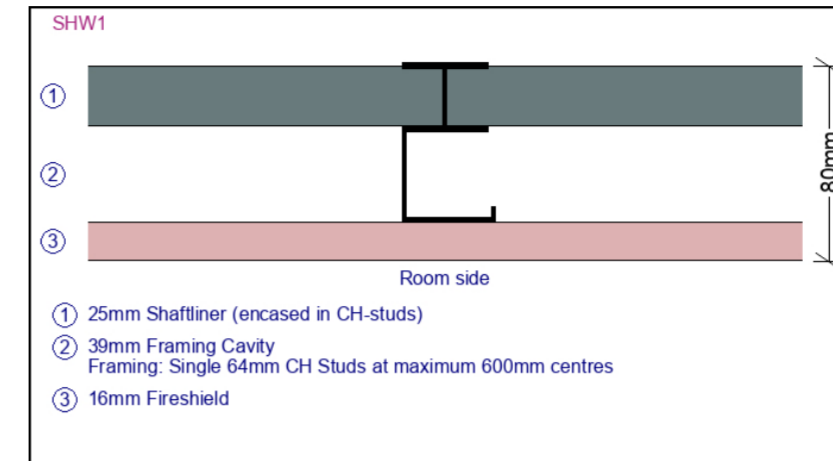
Rated from both sides; FRL from Both Sides: Masonry FRL  
Rw: 59; Rw + Ctr: 52; Discontinuous Construction  
Insulation Pathway Total R-Value (note 7): 1.54 m2.K/W

#28: Stair Shaft Wall NCC-C2-LB-M-1



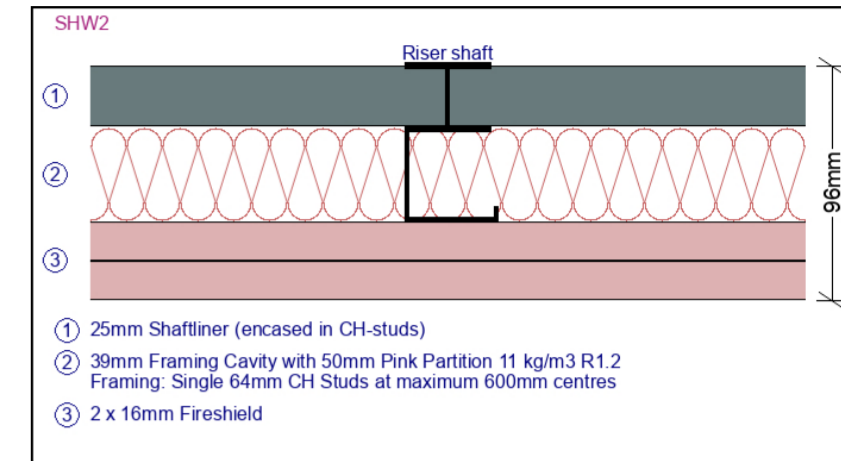
Rated from both sides; FRL from Both Sides: Masonry FRL  
Rw: 50; Rw + Ctr: 44  
Insulation Pathway Total R-Value (note 7): 0.42 m2.K/W

#29: Cupboard Shaft Wall NCC-C2-NLB-F1



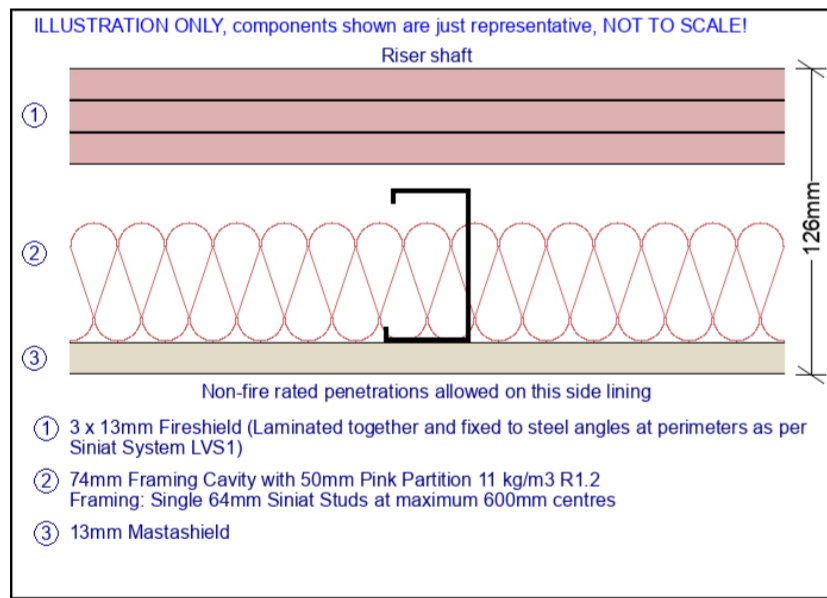
Rated from both sides; Non-Load Bearing FRL: -/60/60  
Rw: 39; Rw + Ctr: 32  
Insulation Pathway Total R-Value (note 7): 0.56 m2.K/W

#30: Riser Shaft Wall NCC-C2-NLB-A1-1



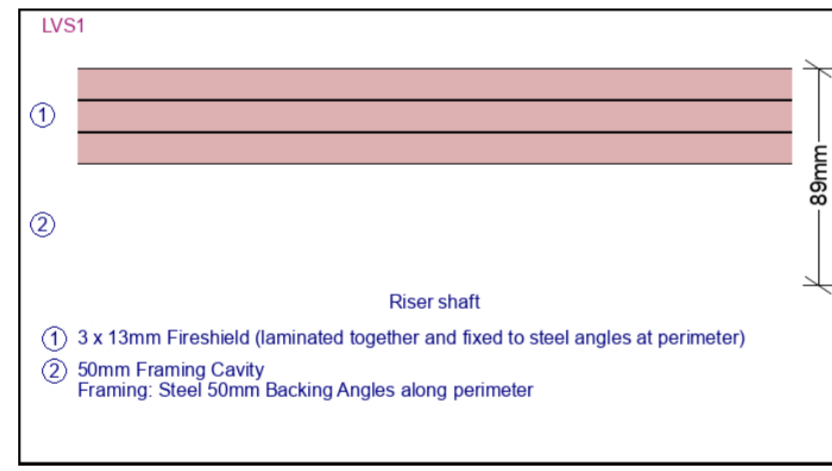
Rated from both sides; Non-Load Bearing FRL: -/120/120  
Rw: 50; Rw + Ctr: 42  
Insulation Pathway Total R-Value (note 7): 1.57 m2.K/W

#31: Riser Shaft Wall NCC-C2-NLB-A1-2



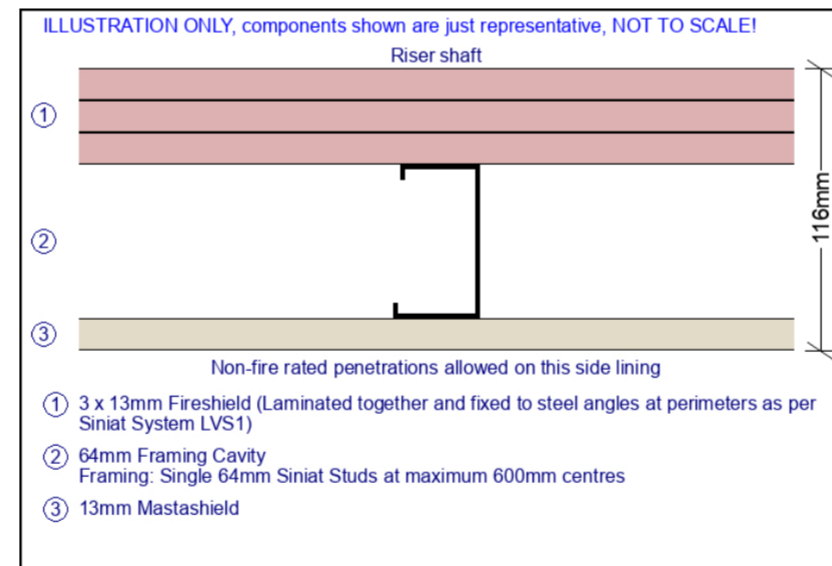
Rated from both sides; FRL1: -/90/90  
Rw: 53; Rw + Ctr: 41  
Insulation Pathway Total R-Value (note 7): 1.67 m2.K/W

#32: Riser Shaft Wall NCC-C2-NLB-A2-1



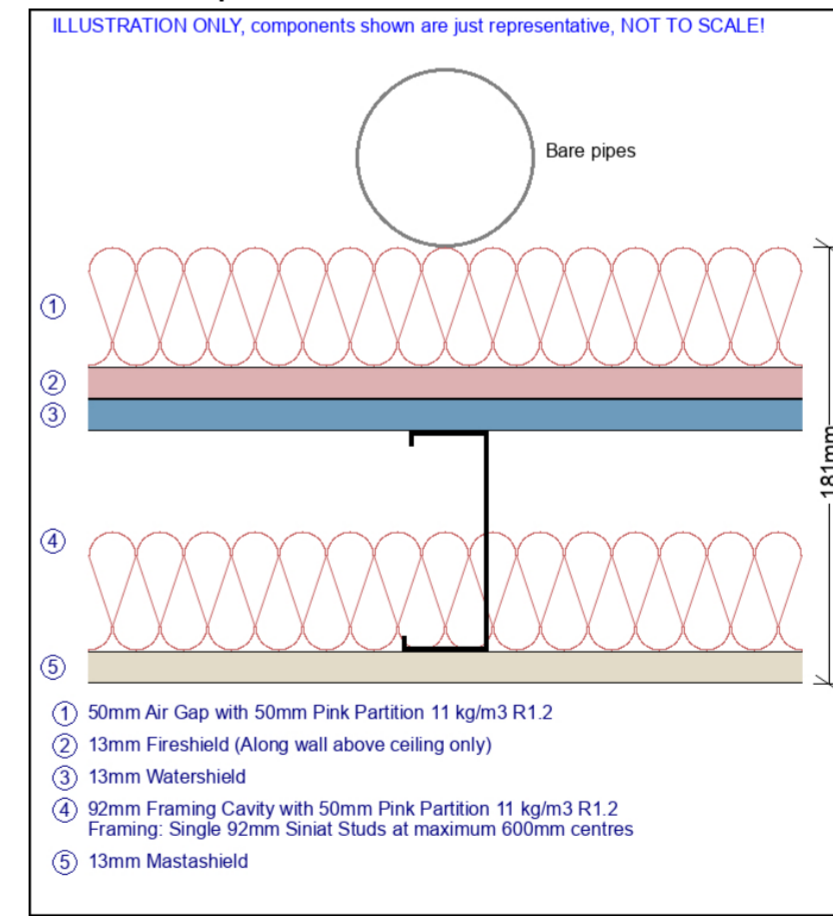
Rated from both sides; FRL: -/90/90  
Rw: 37; Rw + Ctr: 34  
Insulation Pathway Total R-Value (note 7): 0.39 m2.K/W

#33: Riser Shaft Wall NCC-C2-NLB-A2-2



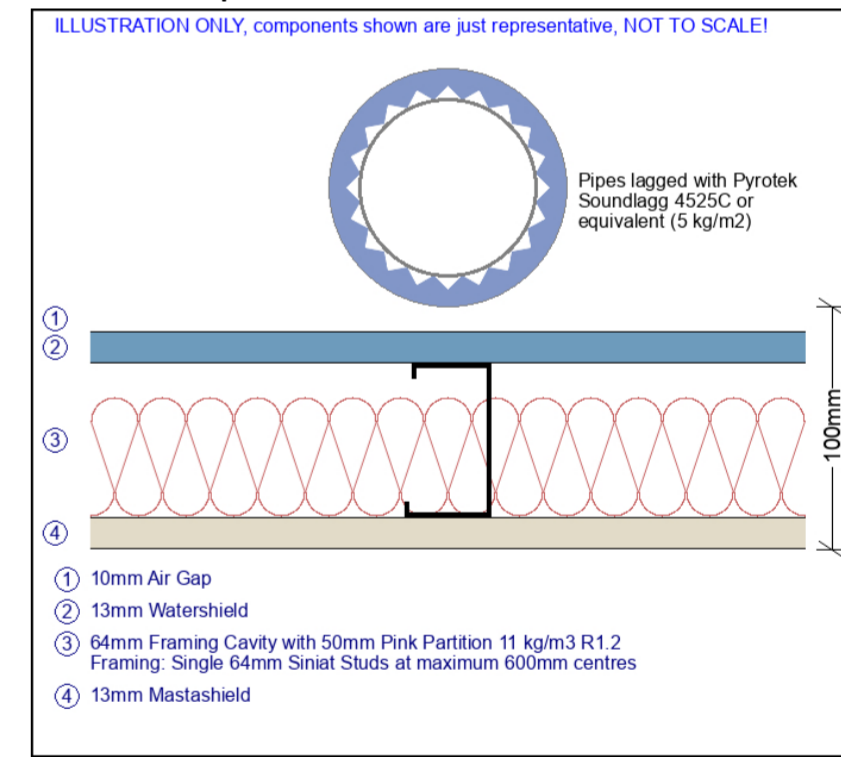
Rated from both sides; FRL: -/90/90  
Rw: 44; Rw + Ctr: 33  
Insulation Pathway Total R-Value (note 7): 0.63 m2.K/W

#34: Waste Pipe Wall NCC-C2-A1-1



Rated from both sides; FRL: -/90/90  
Rw: 48; Rw + Ctr: 40  
Insulation Pathway Total R-Value (note 7): 2.79 m2.K/W

#35: Waste Pipe Wall NCC-C2-A1-2

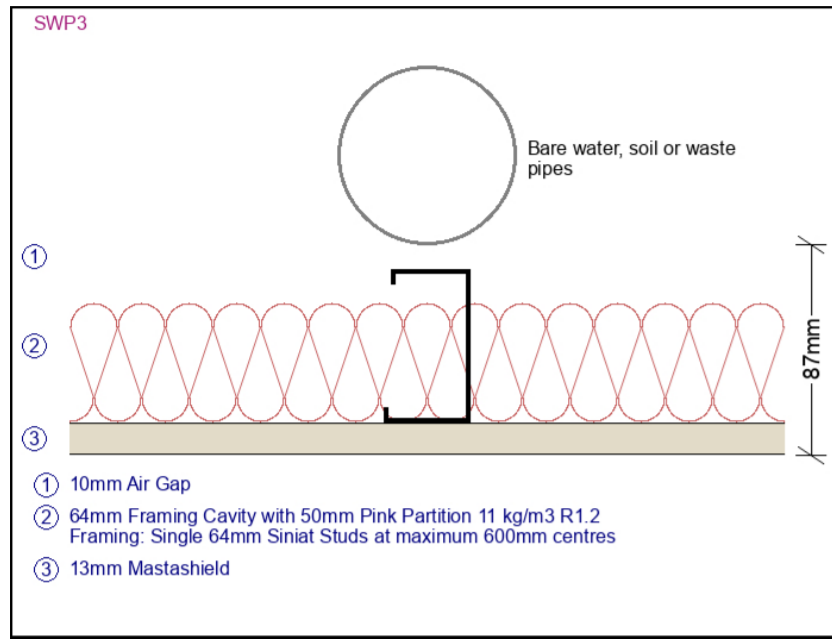


Rated from both sides; FRL: -/90/90  
Rw: 48; Rw + Ctr: 40  
Insulation Pathway Total R-Value (note 7): 1.51 m2.K/W

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Reviewed by			
Approved by			

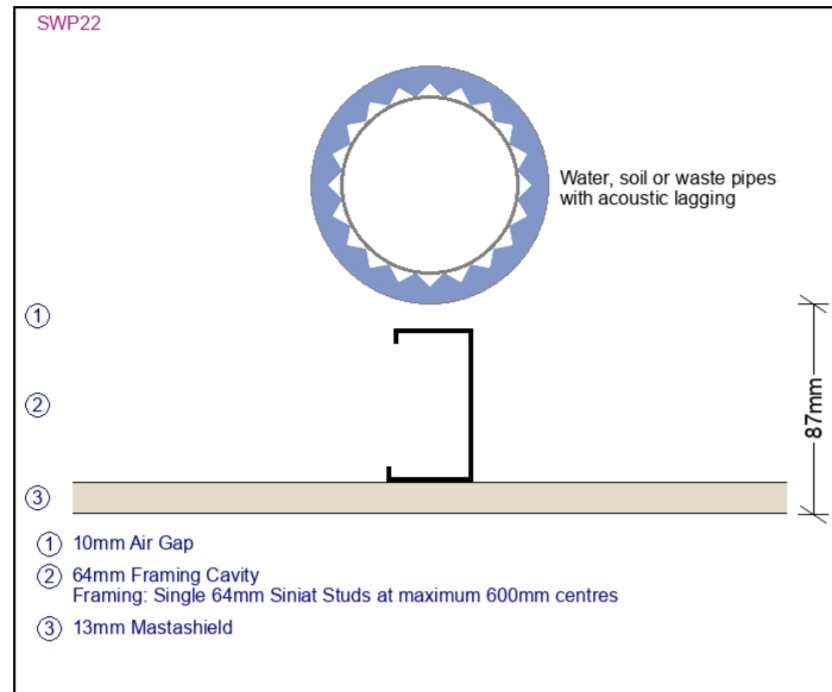
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#36: Waste Pipe Wall NCC-C2-A2-1



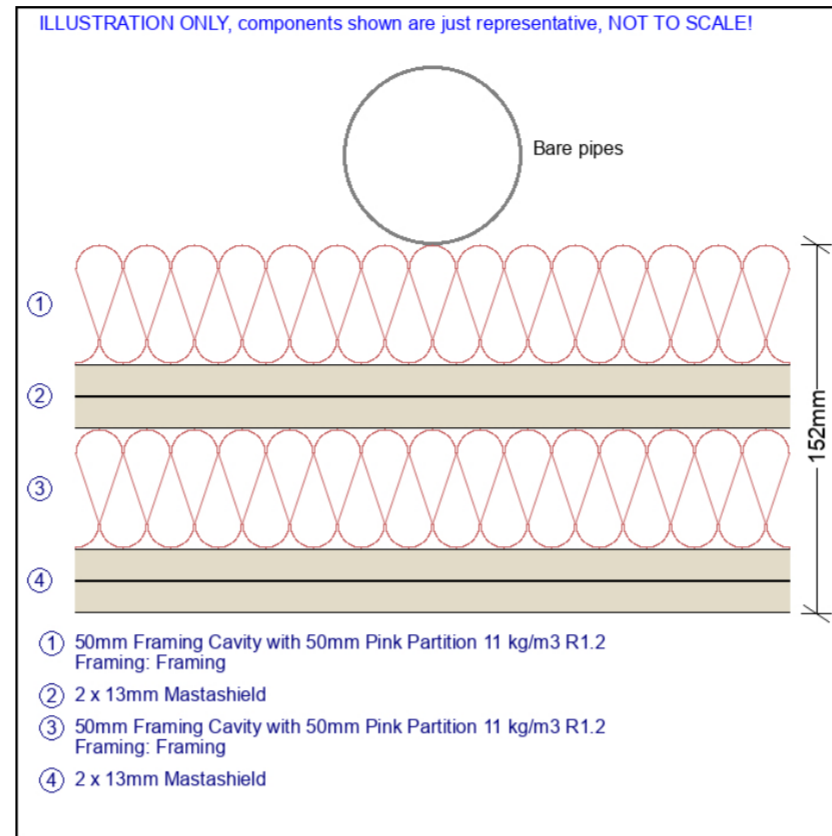
Rw: 32; Rw + Ctr: 28  
Insulation Pathway Total R-Value (note 7): 1.44 m2.K/W

#37: Waste Pipe Wall NCC-C2-A2-2



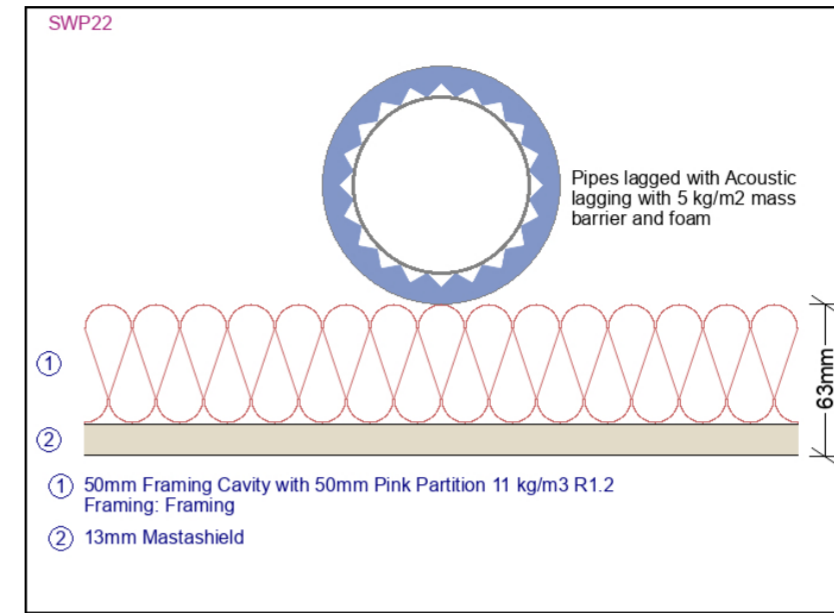
Rw: 45; Rw + Ctr: 35  
Insulation Pathway Total R-Value (note 7): 0.24 m2.K/W

#38: Waste Pipe Ceiling NCC-C2-A1-1



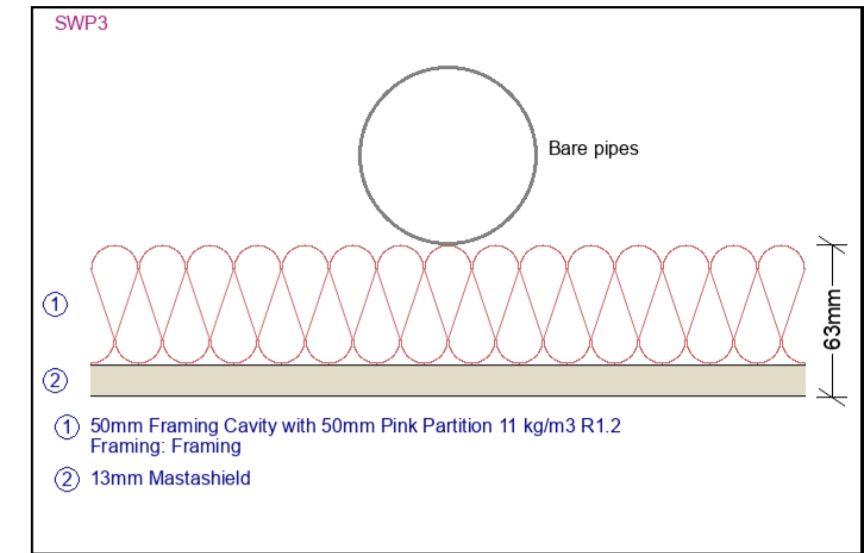
Rw: 53; Rw + Ctr: 40

#39: Waste Pipe Ceiling NCC-C2-A1-2



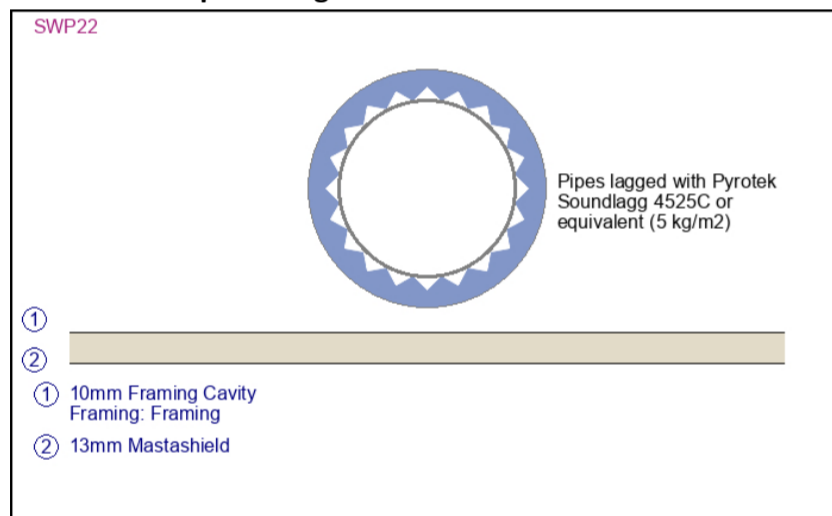
Rw: 48; Rw + Ctr: 40

#40: Waste Pipe Ceiling NCC-C2-A2-1



Rw: 32; Rw + Ctr: 28

#41: Waste Pipe Ceiling NCC-C2-A2-2



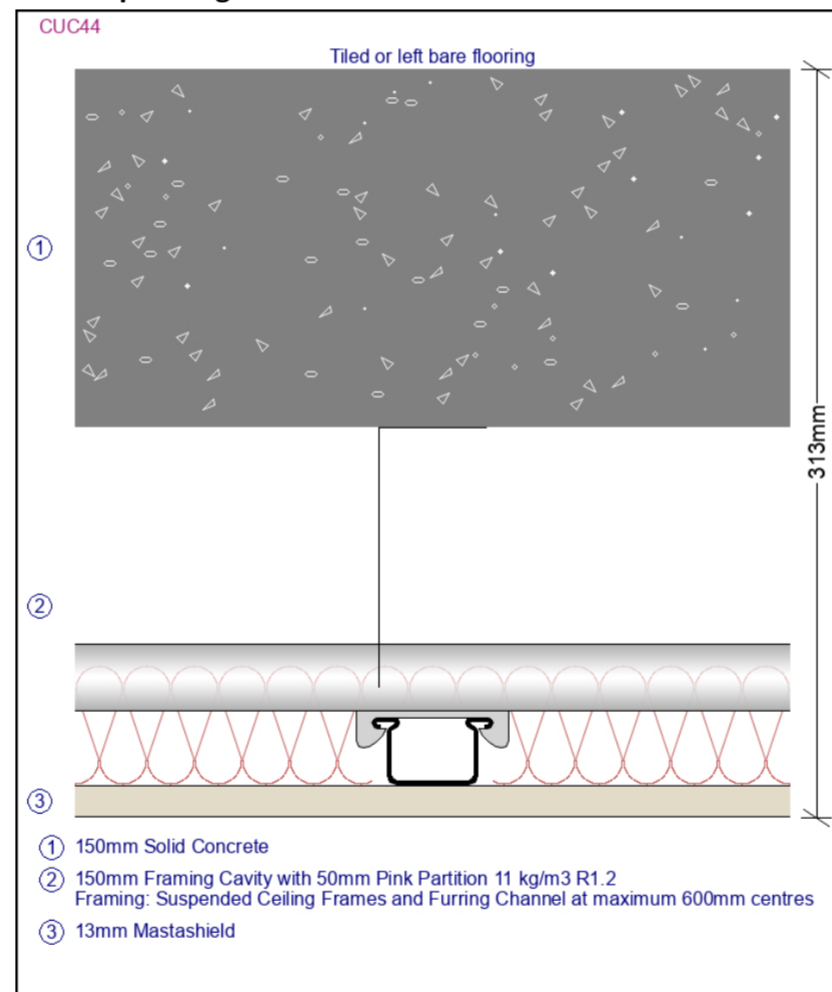
Rw: 45; Rw + Ctr: 35

#42: Separating Floor NCC-C2-A1-1



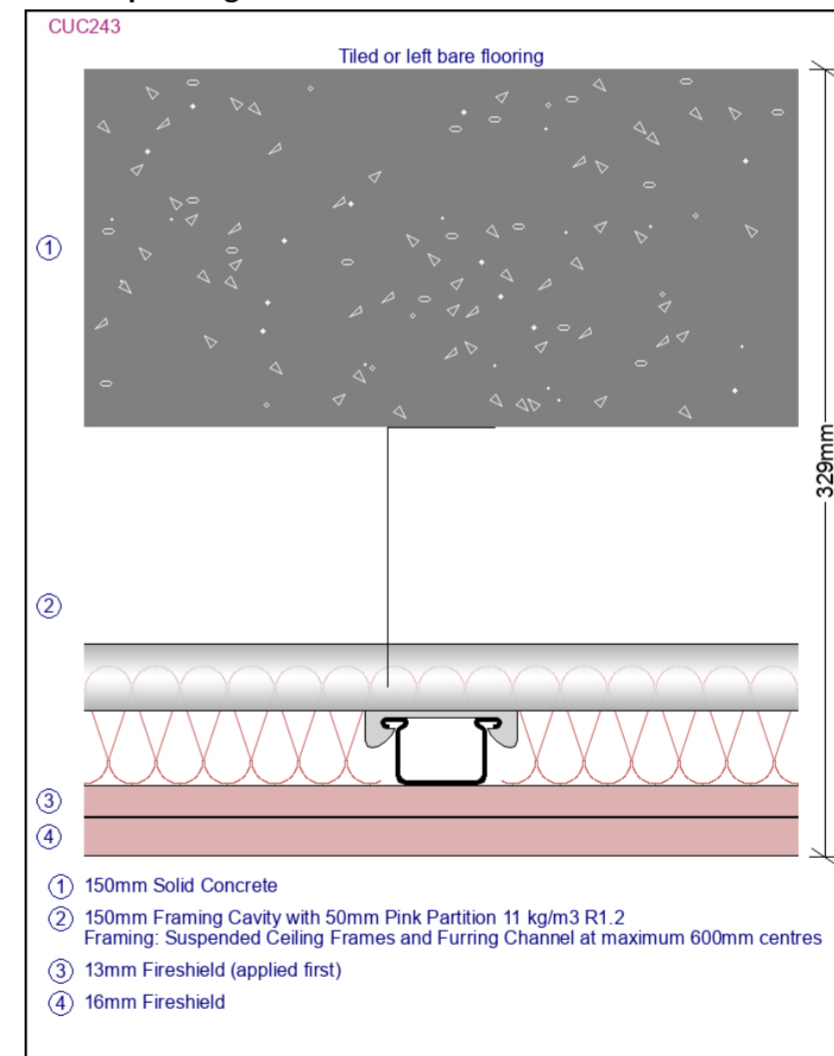
Rw: 62; Rw + Ctr: 52; Ln,w: 62

#43: Separating Floor NCC-C2-A1-2



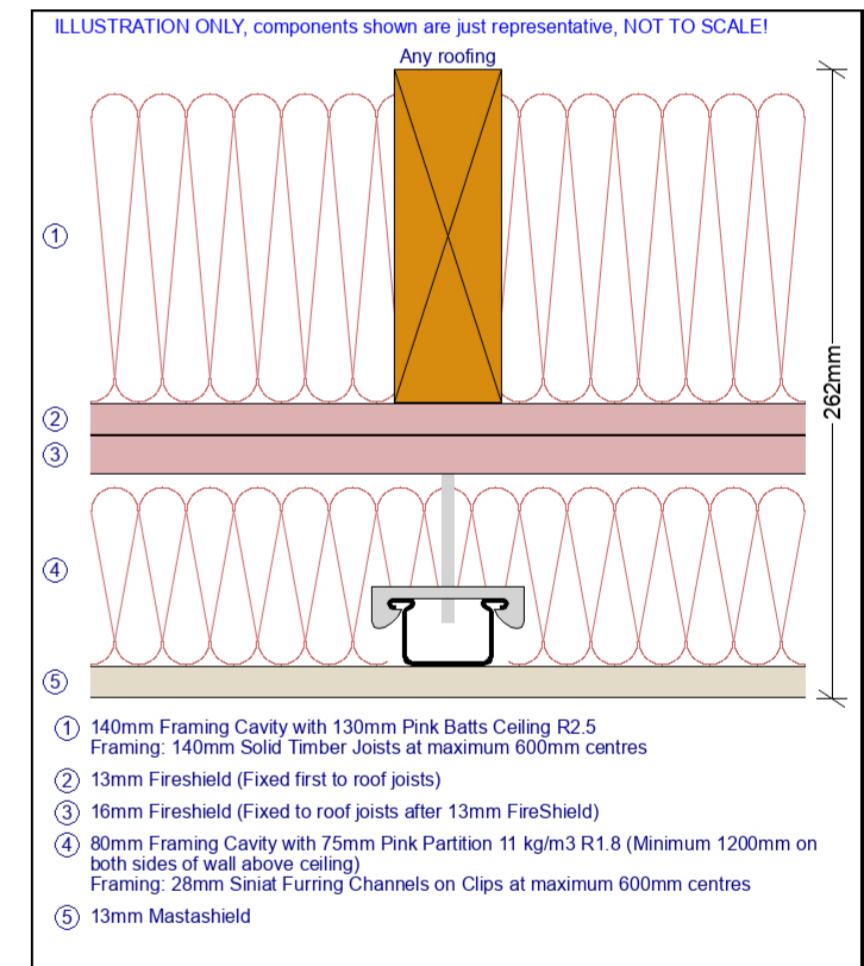
Rw: 63; Rw + Ctr: 52; Ln,w: 61

#44: Separating Floor NCC-C2-F1



Rated from below only; FRL: 60/60/60; RISF: 60  
Rw: 67; Rw + Ctr: 56; Ln,w: 59

#45: Roof NCC-C2-F1



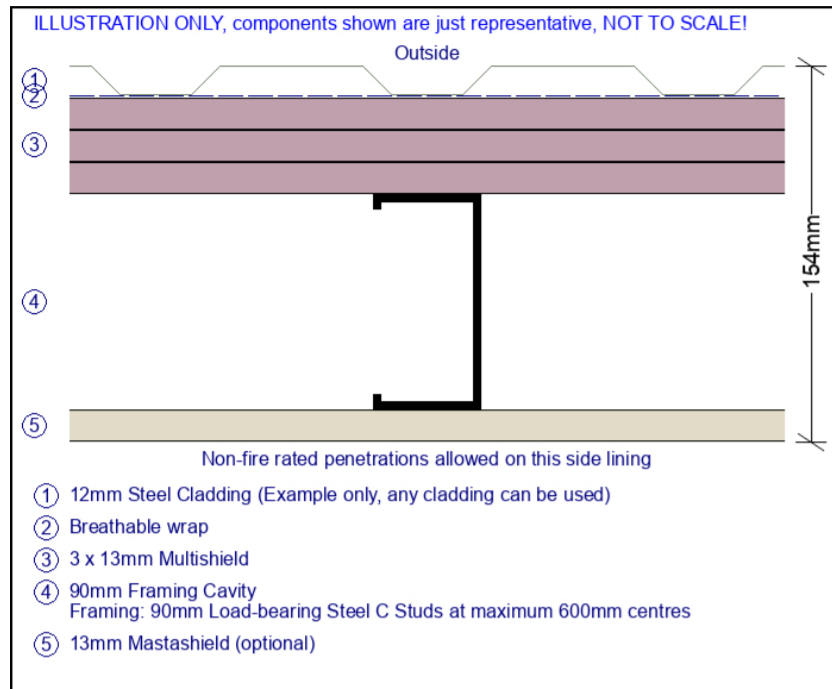
Rated from below only; FRL: 60/60/60; RISF: 60

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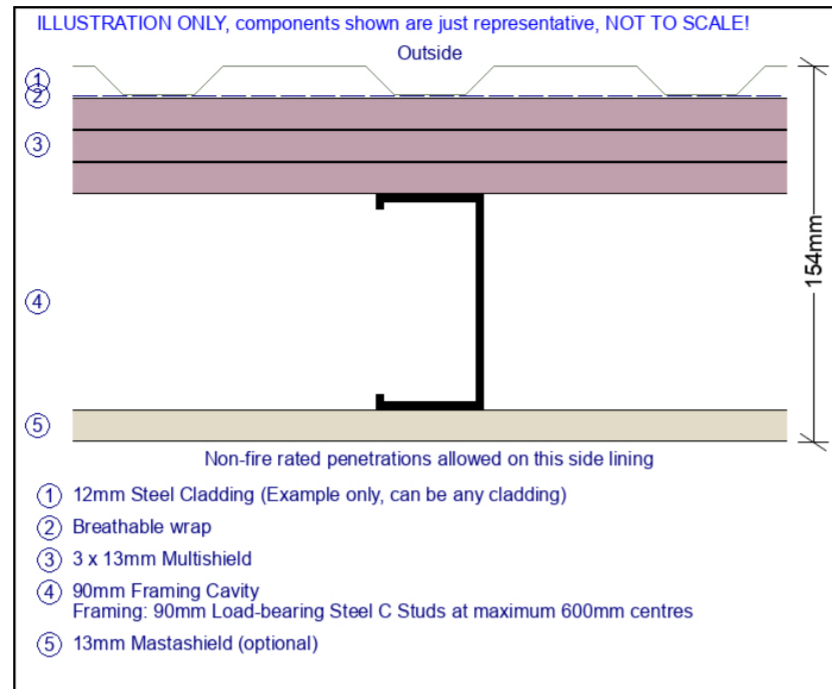
1. Siniat SELECT Project is a proposal only and is subject to the project/builder's approval as many aspects of construction are not comprehensively covered.
2. It is the responsibility of project certifier to determine if the specified products and performance properties including FRL, RISF, Rw, Rw + Ctr, Ln,w and Total R-Value, etc. ratings are suitable for the intended applications.
3. For dimensions and performance properties of systems in this document that use products not manufactured or supplied by Etex Australia and branded Siniat, refer to the relevant product manufacturer.
4. In wet areas, replace Mastashield with Watershield, Soundshield with Trurock, and Fireshield with Trurock or Multishield of same thickness, and replace 10mm Opal with 13mm Watershield.
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**#46: Fire Escape Wall NCC-C2-LB-F1**



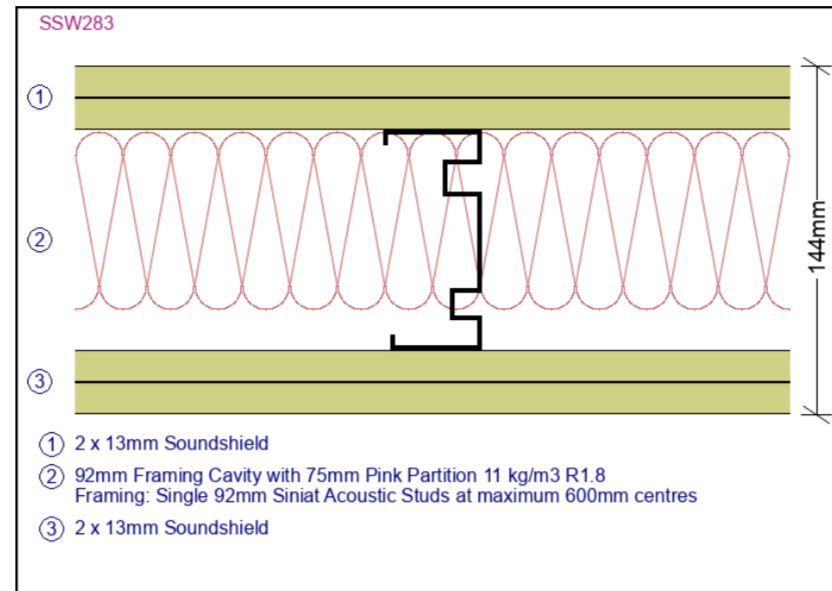
Rated from outside only; FRL: 90/90/90  
Insulation Pathway Total R-Value (note 7): 0.63 m2.K/W

**#47: Fire Escape Roof NCC-C2-LB-F1**



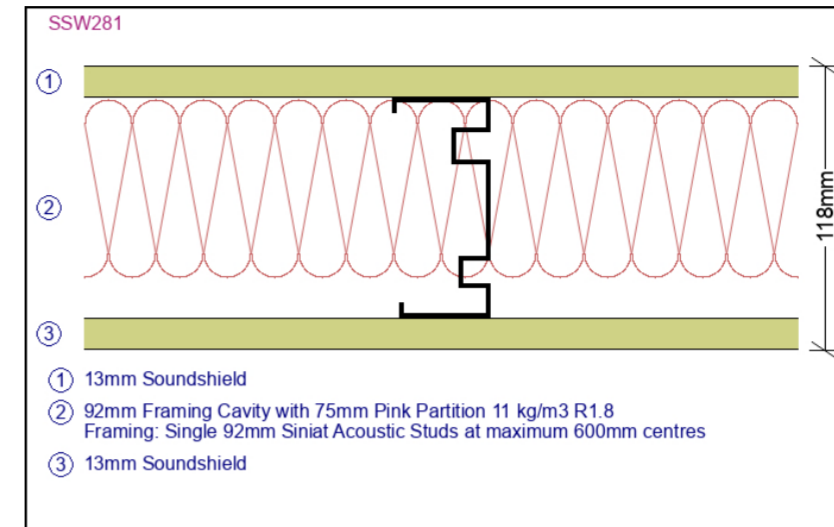
Rated from above only; FRL: 90/90/90

**#48: Partition Wall NCC-C2-A1**



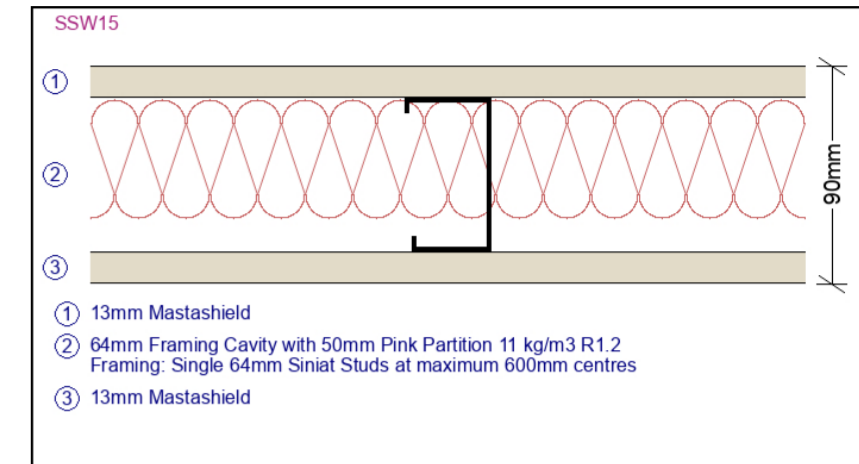
Rw: 62; Rw + Ctr: 54  
Insulation Pathway Total R-Value (note 7): 2.27 m2.K/W

**#49: Partition Wall NCC-C2-A2**



Rw: 50; Rw + Ctr: 42  
Insulation Pathway Total R-Value (note 7): 2.11 m2.K/W

**#50: Partition Wall NCC-C2-A3**



Rw: 42; Rw + Ctr: 33  
Insulation Pathway Total R-Value (note 7): 1.51 m2.K/W

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Updated by	Siniat Technical Services
Reviewed by	
Approved by	

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