

TERRA LANA

TERRA LANA INSULATION TYPICAL DETAILS

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TERRA LANA WOOL INSULATION SPECIFICATION TABLE

All products are available in customised widths, lengths and R-values for orders over 50m²

R-VALUE	THICKNESS	CENTRES	GSM	DENSITY	λ-VALUE	CODE
CEILING SERVICE CAVITY						
R0.9	35mm	600mm	1000 gsm	28.6 kg/m ³	0.0389 W/m ² K	09.35.570
R1.2	45mm	600mm	1200 gsm	26.7 kg/m ³	0.0375 W/m ² K	12.45.570
R2.4	90mm	600mm	2600 gsm	28.9 kg/m ³	0.0375 W/m ² K	24.90.560
SKILLION ROOF – Can also be used in Truss roof						
R3.6	140mm	600mm	3700 gsm	26.4 kg/m ³	0.0389 W/m ² K	36.140.560
R5.0	190mm	600mm	5700 gsm	30.0 kg/m ³	0.0380 W/m ² K	50.190.570
R6.4	240mm	600mm	7400 gsm	30.8 kg/m ³	0.0375 W/m ² K	64.240.570
R7.2	290mm	600mm	6800 gsm	23.4 kg/m ³	0.0403 W/m ² K	72.290.570
TIMBER I-BEAM RAFTER 'FILLET' – Custom fillets available for all hyJOIST and Lumberworx I-Beams – see our website						
R0.9	35mm	200mm hyJOIST	1000 gsm	28.6 kg/m ³	0.0389 W/m ² K	09.35.120F
R0.9	35mm	240mm hyJOIST	1000 gsm	28.6 kg/m ³	0.0389 W/m ² K	09.35.160F
TRUSS ROOF						
R3.6	180mm	900mm	2600 gsm	14.4 kg/m ³	0.0500 W/m ² K	36.180.435
R4.0	190mm	900mm	3000 gsm	15.8 kg/m ³	0.0475 W/m ² K	40.190.435
TRUSS ROOF DOUBLE LAYER						
R5.2 (R2.6 + R2.6)	290 mm	900mm	3420 gsm	11.8 kg/m ³	0.0558 W/mK	26.145.435
R6.4 (R3.2 + R3.2)	330 mm	900mm	4400 gsm	13.3 kg/m ³	0.0516 W/mK	32.165.435
R7.2 (R3.6 + R3.6)	360mm	900mm	5200 gsm	14.4 kg/m ³	0.0500 W/mK	36.180.435
R8.0 (R4.0 + R4.0)	380mm	900mm	6000 gsm	15.8 kg/m ³	0.0475 W/mK	40.190.435
WALL SERVICE CAVITY						
R1.2	45mm	600mm	1200 gsm	26.7 kg/m ³	0.0375 W/m ² K	12.45.570
90mm WALL						
R2.4	90mm	400mm	2600 gsm	28.9 kg/m ³	0.0375 W/m ² K	24.90.360
R2.4	90mm	600mm	2600 gsm	28.9 kg/m ³	0.0375 W/m ² K	24.90.560
140mm WALL						
R3.2	140mm	400mm	2600 gsm	18.6 kg/m ³	0.0438 W/m ² K	32.140.360
R3.2	140mm	600mm	2600 gsm	18.6 kg/m ³	0.0438 W/m ² K	32.140.560
R3.6	140mm	400mm	3700 gsm	26.4 kg/m ³	0.0389 W/m ² K	36.140.360
R3.6	140mm	600mm	3700 gsm	26.4 kg/m ³	0.0389 W/m ² K	36.140.560
CHATTERBLOCK ACOUSTIC – For internal walls and midfloor						
R1.4	60mm	600mm	2800 gsm	46.7 kg/m ³	0.0430 W/m ² K	CB.60.560
R2.2	90mm	600mm	1960 gsm	21.8 kg/m ³	0.0640 W/m ² K	CB.90.560
R3.2	140mm	600mm	2550 gsm	18.2 kg/m ³	0.0438 W/m ² K	CB.140.560
RETRO-FIT UNDERFLOOR – Stapled in from underneath						
R2.0	115mm	450mm	1200 gsm	10.4 kg/m ³	0.0575 W/m ² K	20.115.480
NEW BUILD DROP-IN UNDERFLOOR – Install from above with propriety fastening system, prior to sheet flooring						
R2.7	110mm	400mm	3300 gsm	30.0 kg/m ³	0.0407 W/m ² K	DIF.110.365
R3.2	140mm	400mm	3500 gsm	25.0 kg/m ³	0.0438 W/m ² K	DIF.140.365



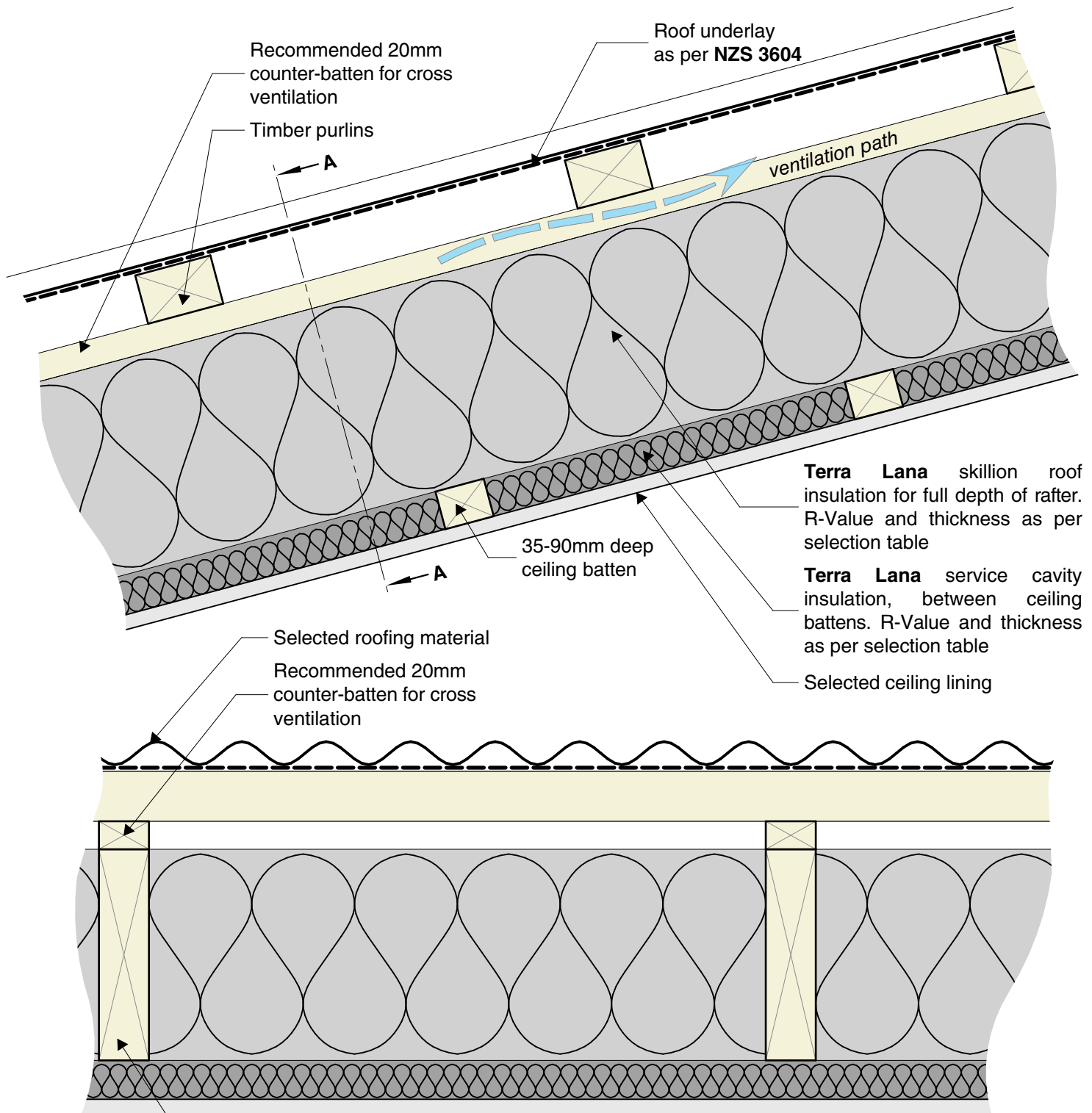
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Rafters sized in accordance with NZS 3604

R-VALUE	THICKNESS
CEILING SERVICE CAVITY	
R0.9	35mm
R1.2	45mm
R2.4	90mm
SKILLION ROOF – Can also be used in Truss roof	
R3.6	140mm
R5.0	190mm
R6.4	240mm
R7.2	290mm

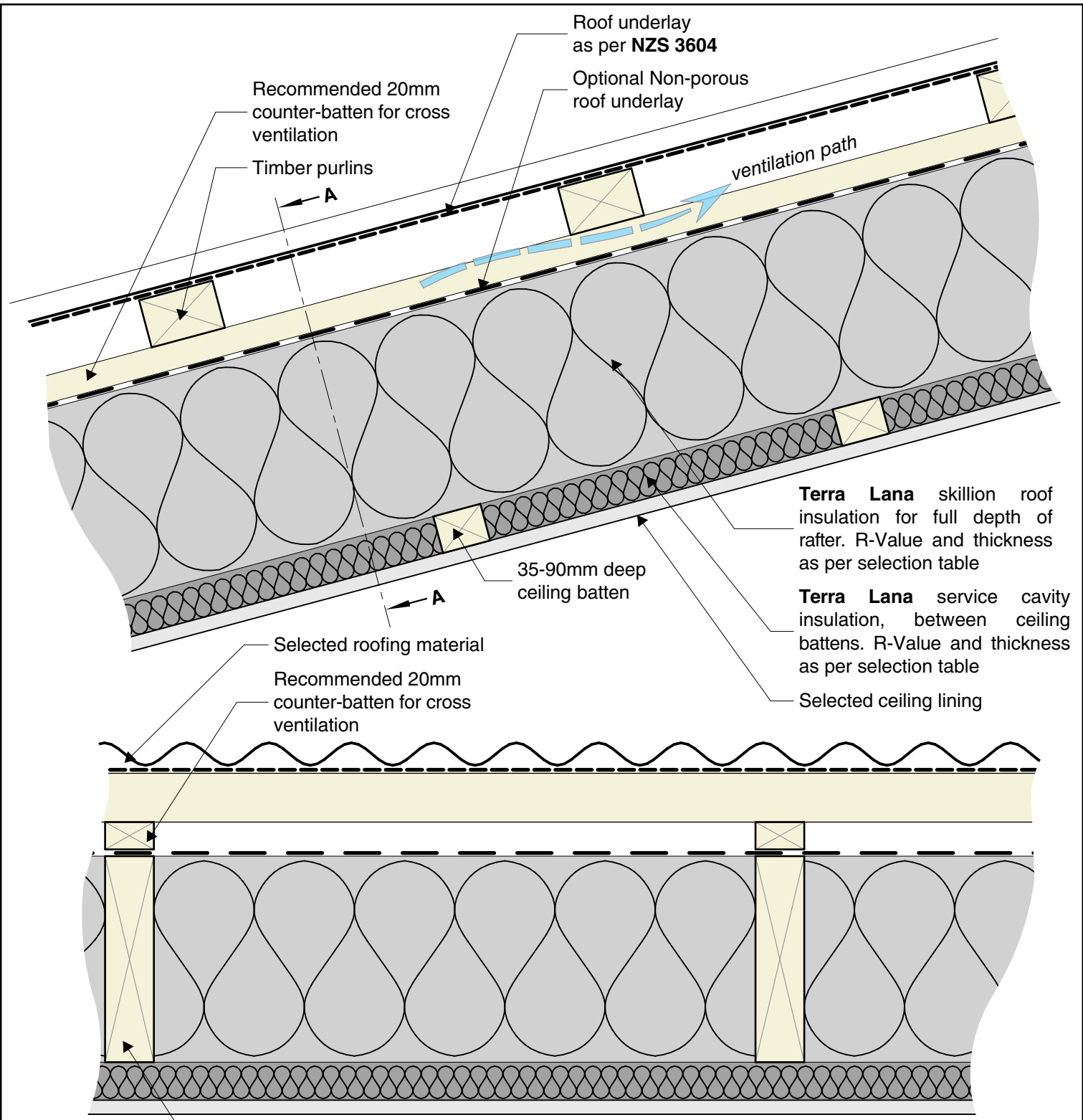
Section A-A
TLA1
Skillion Roof
Counter batten detail

4D MODEL



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Roof underlay as per NZS 3604
 Optional Non-porous roof underlay

Recommended 20mm counter-batten for cross ventilation
 Timber purlins

ventilation path

Terra Lana skillion roof insulation for full depth of rafter. R-Value and thickness as per selection table
Terra Lana service cavity insulation, between ceiling battens. R-Value and thickness as per selection table

Selected roofing material
 Recommended 20mm counter-batten for cross ventilation

35-90mm deep ceiling batten

Selected ceiling lining

Rafters sized in accordance with NZS 3604

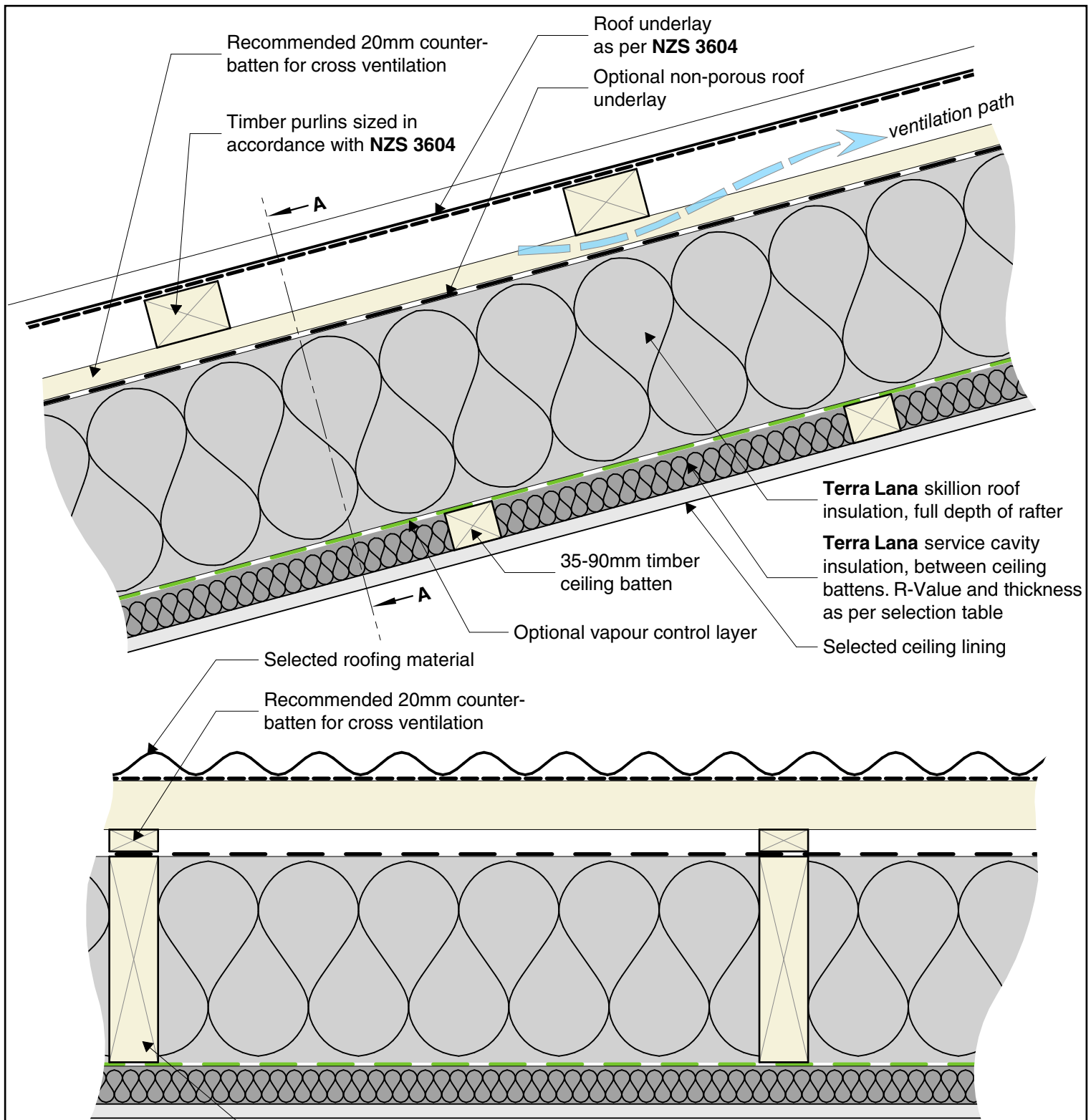
R-VALUE	THICKNESS
CEILING SERVICE CAVITY	
R0.9	35mm
R1.2	45mm
R2.4	90mm
SKILLION ROOF – Can also be used in Truss roof	
R3.6	140mm
R5.0	190mm
R6.4	240mm
R7.2	290mm

Section A-A
 TLA1
Skillion Roof
 Non-porous roof underlay



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Section A-A
TLA1
Skillion Roof
Optional vapour control layer

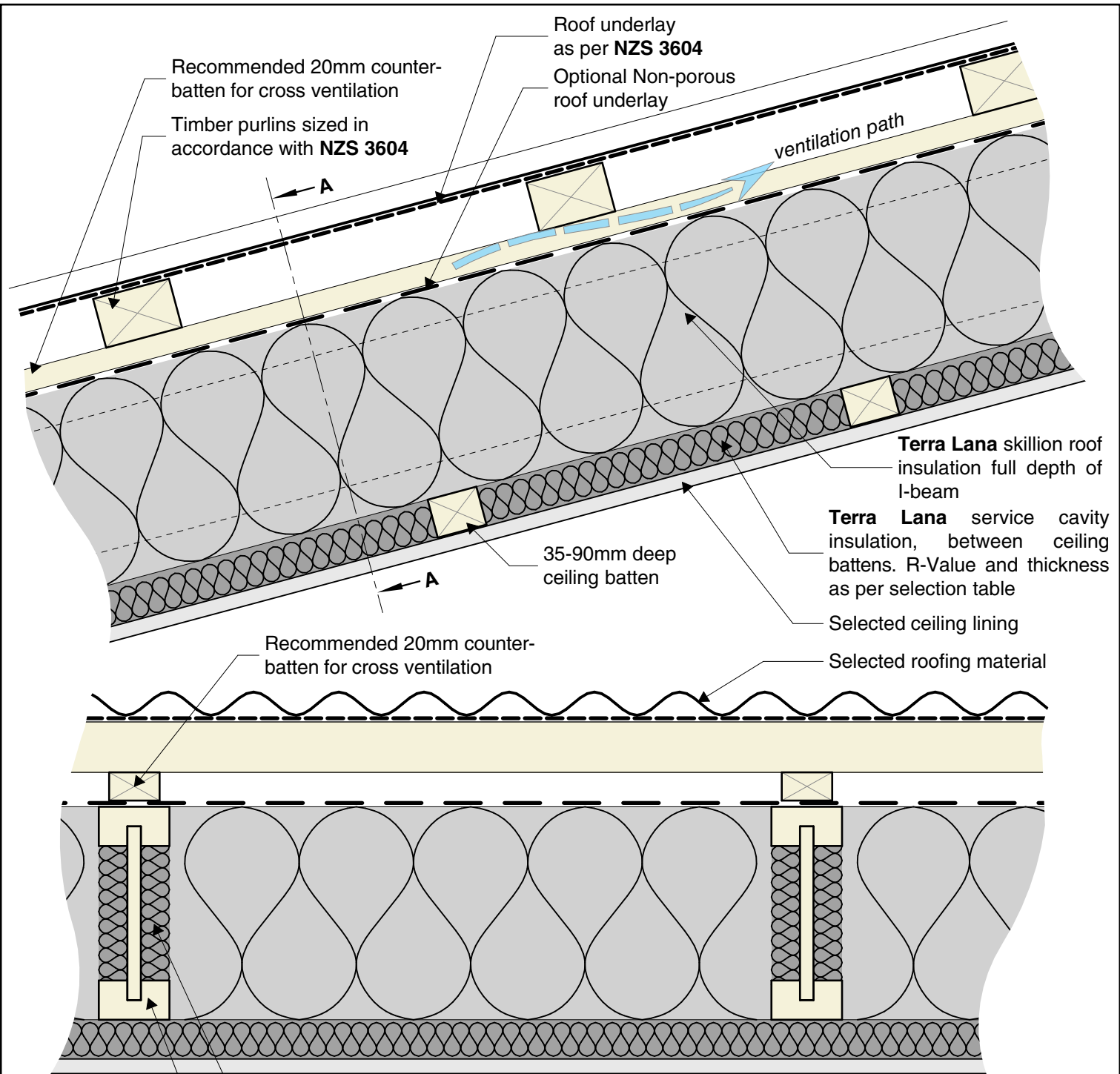
4D MODEL



R-VALUE	THICKNESS
CEILING SERVICE CAVITY	
R0.9	35mm
R1.2	45mm
R2.4	90mm
SKILLION ROOF – Can also be used in Truss roof	
R3.6	140mm
R5.0	190mm
R6.4	240mm
R7.2	290mm

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Recommended 20mm counter-batten for cross ventilation
 Timber purlins sized in accordance with NZS 3604

Roof underlay as per NZS 3604
 Optional Non-porous roof underlay

ventilation path

Terra Lana skillion roof insulation full depth of I-beam

Terra Lana service cavity insulation, between ceiling battens. R-Value and thickness as per selection table

Selected ceiling lining
 Selected roofing material

35-90mm deep ceiling batten

Recommended 20mm counter-batten for cross ventilation

Terra Lana rafter fillet. Select as per table

Timber I-Beam sized in accordance with Engineer or Manufacturer

R-VALUE	THICKNESS
CEILING SERVICE CAVITY	
R0.9	35mm
R1.2	45mm
R2.4	90mm
SKILLION ROOF – Can also be used in Truss roof	
R3.6	140mm
R5.0	190mm
R6.4	240mm
R7.2	290mm
TIMBER I-BEAM RAFTER FILLET	
R0.9 (45 & 63mm wide HyJoist)	35mm

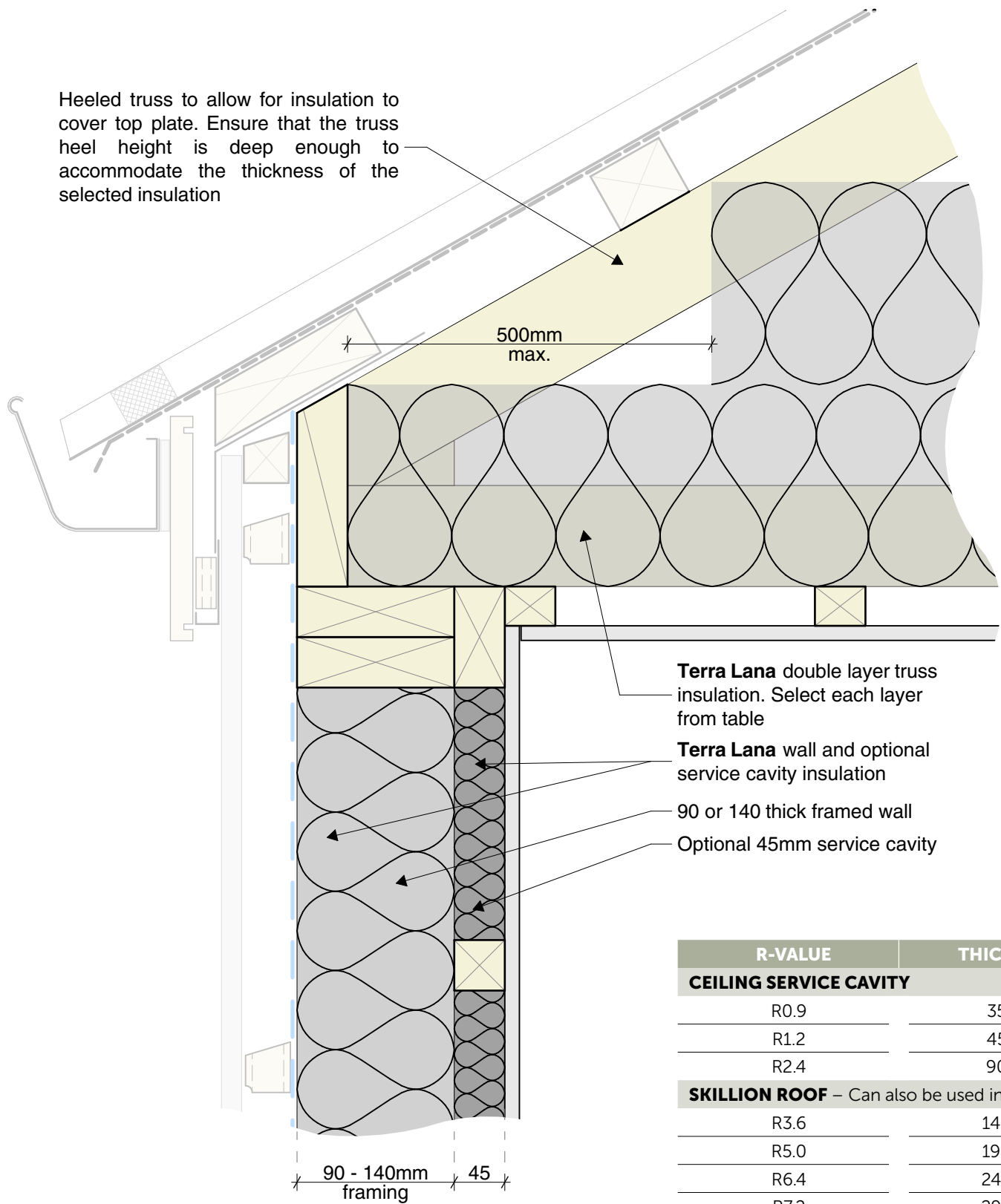
Section A-A
 TLA4
Skillion Roof
 Typical build-up - hyJOIST rafters



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Heeled truss to allow for insulation to cover top plate. Ensure that the truss heel height is deep enough to accommodate the thickness of the selected insulation



Terra Lana double layer truss insulation. Select each layer from table

Terra Lana wall and optional service cavity insulation

90 or 140 thick framed wall

Optional 45mm service cavity

R-VALUE	THICKNESS
CEILING SERVICE CAVITY	
R0.9	35mm
R1.2	45mm
R2.4	90mm
SKILLION ROOF – Can also be used in Truss roof	
R3.6	140mm
R5.0	190mm
R6.4	240mm
R7.2	290mm
TRUSS ROOF SINGLE LAYER PRODUCTS	
R3.6	180mm
R4.0	190mm
TRUSS ROOF DOUBLE LAYER PRODUCTS	
R5.2 (R2.6 + R2.6)	290mm
R6.4 (R3.2 + R3.2)	330mm
R7.2 (R3.6 + R3.6)	360mm
R8.0 (R4.0 + R4.0)	380mm

TLB1

Truss Roof

Double layer system

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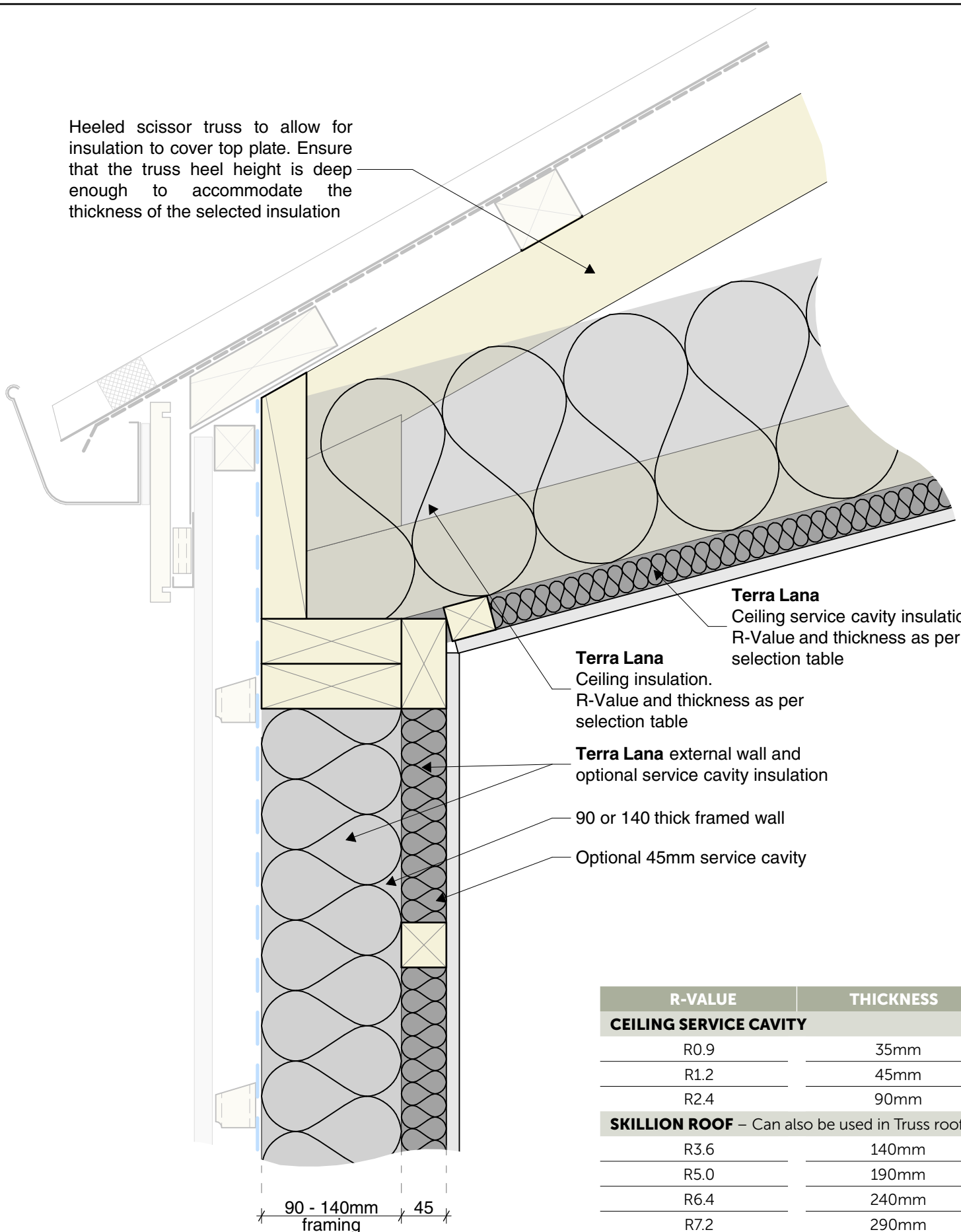
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Heeled scissor truss to allow for insulation to cover top plate. Ensure that the truss heel height is deep enough to accommodate the thickness of the selected insulation



- Terra Lana**
Ceiling service cavity insulation.
R-Value and thickness as per selection table
- Terra Lana**
Ceiling insulation.
R-Value and thickness as per selection table
- Terra Lana** external wall and optional service cavity insulation
- 90 or 140 thick framed wall
- Optional 45mm service cavity

R-VALUE	THICKNESS
CEILING SERVICE CAVITY	
R0.9	35mm
R1.2	45mm
R2.4	90mm
SKILLION ROOF – Can also be used in Truss roof	
R3.6	140mm
R5.0	190mm
R6.4	240mm
R7.2	290mm
TRUSS ROOF SINGLE LAYER PRODUCTS	
R3.6	180mm
R4.0	190mm

TLC1

Scissor Truss Roof

With service cavity

4D MODEL



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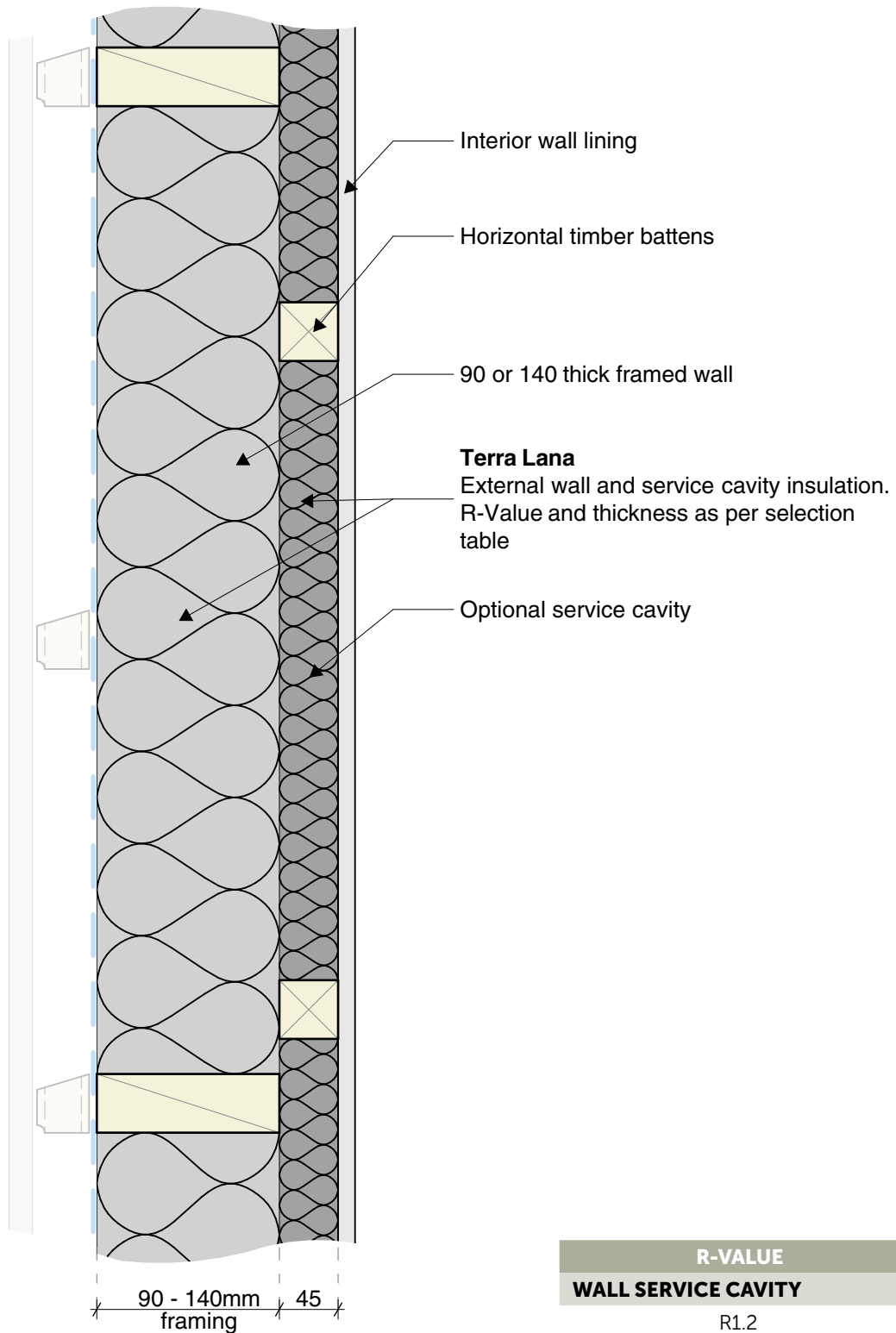
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R-VALUE	THICKNESS
WALL SERVICE CAVITY	
R1.2	45mm
90MM WALL	
R2.4 (400 & 600mm stud centers)	90mm
140MM WALL	
R3.2 (400 & 600mm stud centers)	140mm
R3.6 (400 & 600mm stud centers)	140mm

TLD1

External Wall

Including optional service cavity

4D MODEL



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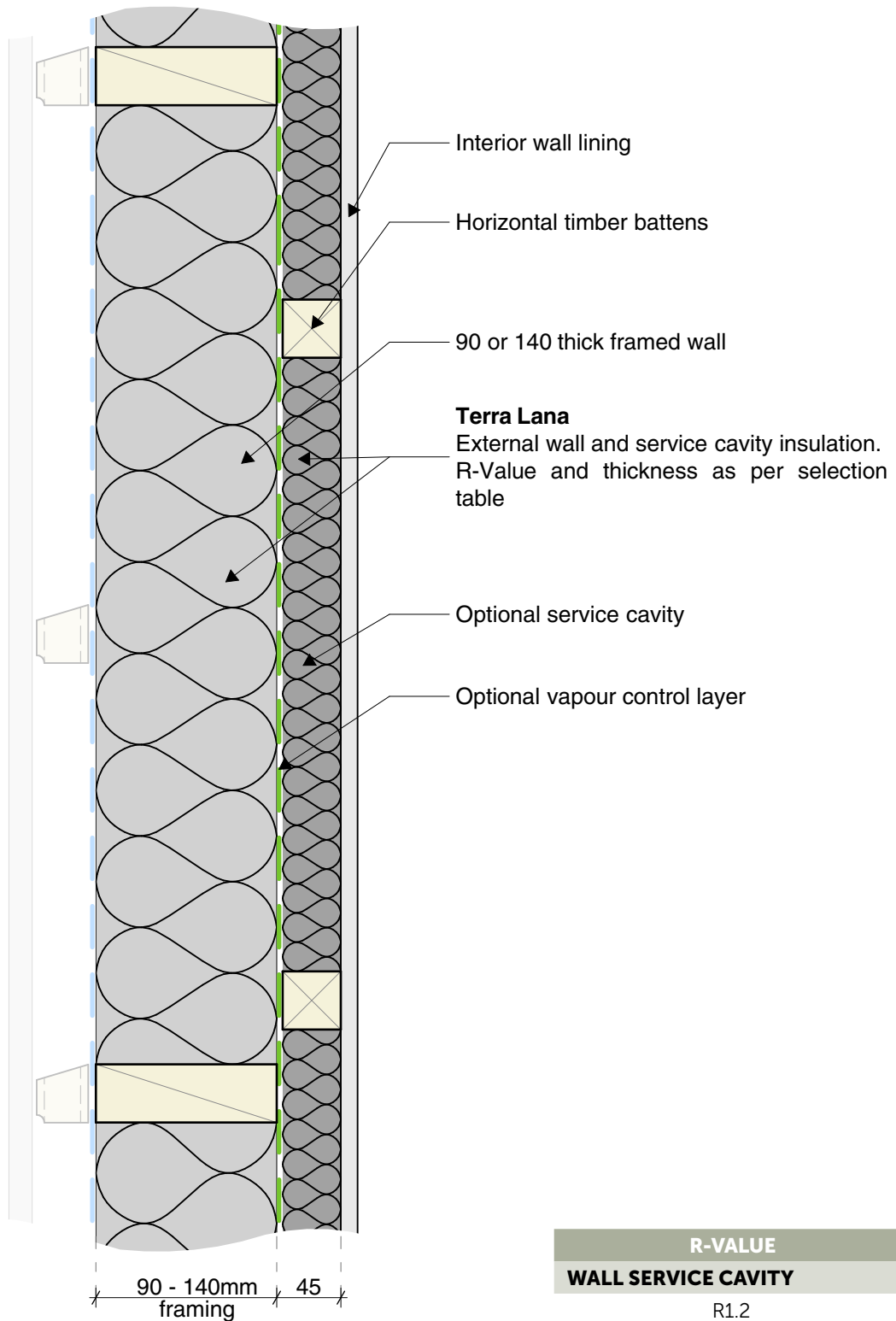
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R-VALUE	THICKNESS
WALL SERVICE CAVITY	
R1.2	45mm
90MM WALL	
R2.4 (400 & 600mm stud centers)	90mm
140MM WALL	
R3.2 (400 & 600mm stud centers)	140mm
R3.6 (400 & 600mm stud centers)	140mm

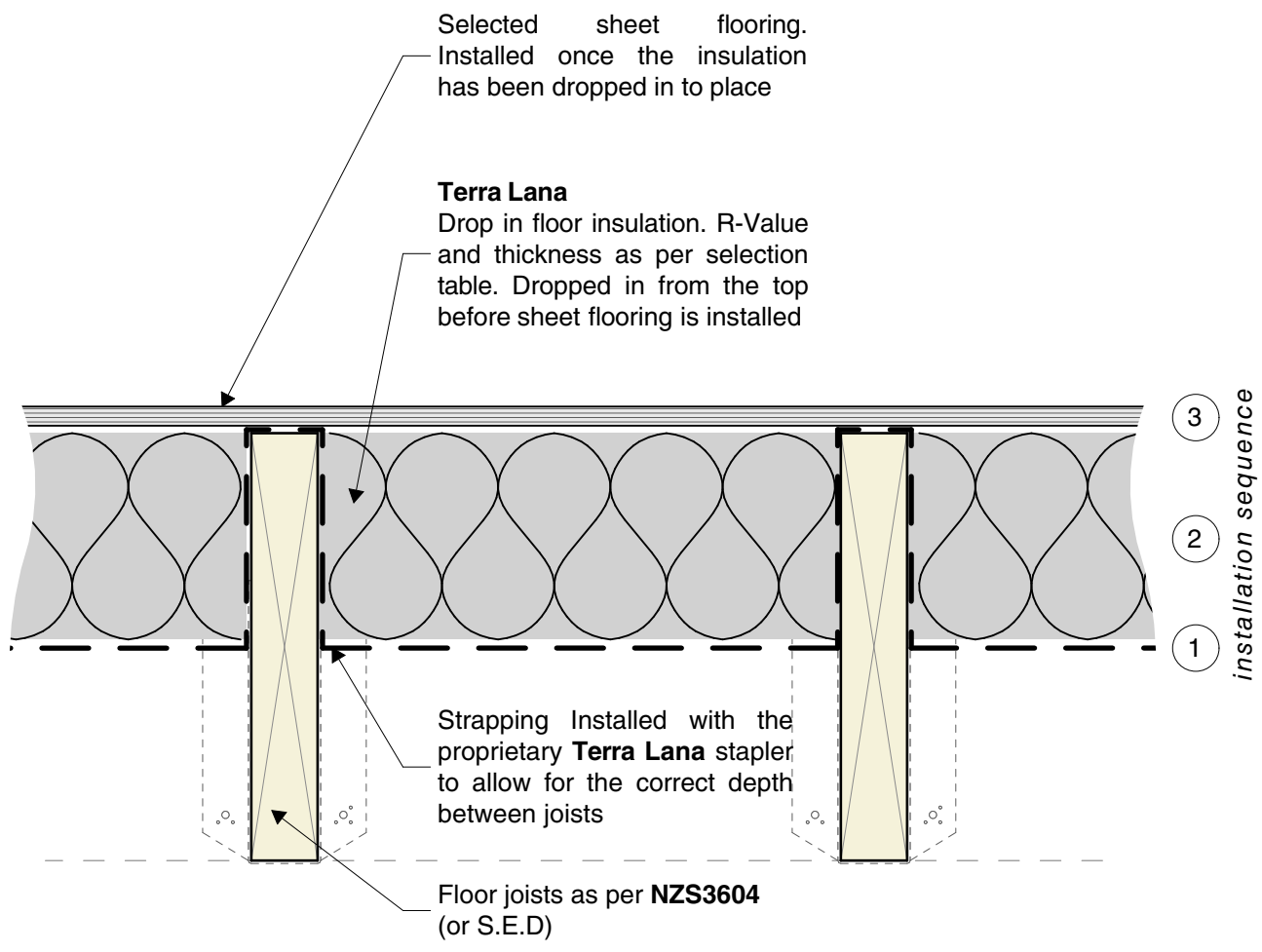
TLD2
External Wall
Including optional service cavity
and vapour control layer

4D MODEL



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Note: Drop-in floor insulation can be exposed for up to 14 days prior to the sheet flooring being installed

R-VALUE	THICKNESS
NEW BUILD DROP IN FLOOR	
R2.7 - zones 1,2 & 3	110mm
R3.2 - zones 4,5 & 6	140mm

TLE1

Timber Floor

Drop-in floor insulation

4D MODEL



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