

Sheet Number	Sheet Name
SIP101	Detail Legend

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No.	Description	Date
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>Drawing Index - 100</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4)	
Drawn by NZSIP	<b>SIP100</b>	DRAWING NUMBER	REV
Checked by NZSIP			<b>2</b>

**Wall & Roof Underlay**  
Flexible roof and wall underlays must comply with NZBC Acceptable solution E2/AS1 Table 23 or breather -type membranes covered by a valid BRANZ Appraisal for use as roof or wall underlays. The NZSIP Smart Panel Building System will contribute to the cladding system compliance with NZBC Clause E2.3.2. Sealing tapes must be compatible with roof and wall underlays and SB substrate.

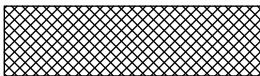
**Vapour control layer**  
Formed by Inside SB face of Structural Insulated Panel.  
Air sealing tapes, pipe and cable sealing grommets are to be installed to the inside face of structural insulated wall and roof panels at all joint and penetration locations. All aspects of this work shall be in accordance with the standard details and manufacturers instructions.

Target air infiltration rate to be confirmed at the pre-lining stage with a blower door test. Targets as follows

- Passive House Standard ≤ 0.6 ach-1 @50Pa (Mandatory)
- Projects with mechanical ventilation ≤ 1.5 ach-1 @50Pa (recommended)
- Projects with passive ventilation ≤ 3.0 ach-1 @50Pa (recommended)

**Damp proof membrane/Tanking**  
Specified by others

**Damp proof course**  
Specified by other



**Polyurethane insulation (PUR)**



**StrandBoard (SB)**  
Load-bearing boards for use in humid conditions



**General Timber framing**  
SG8/LVL8 grade  
H1.2 treatment unless otherwise noted.



**Plywood**  
Grade and treatment as noted.



**Foam Sealant**  
Applied onsite to junctions as indicated.

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No.	Description	Date
3	INFO	16/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

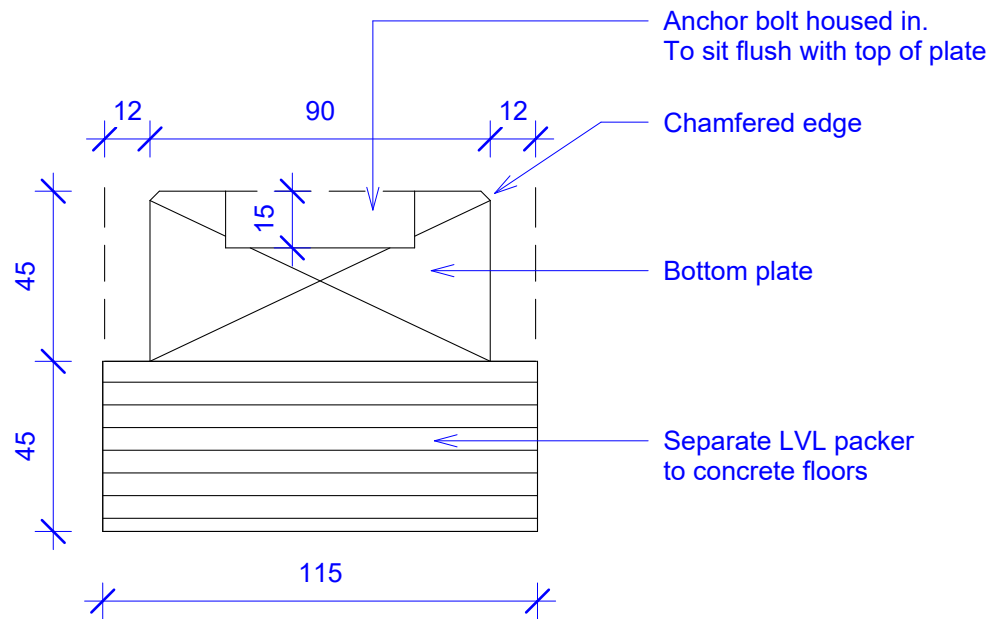
PROJECT <b>Standard Details</b>			
SHEET <b>Detail Legend</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 10	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP101</b>		<b>3</b>

Sheet Number	Sheet Name
SIP201	Bottom Plate Section
SIP202	Bottom Plate Plan
SIP207	Bracing detail - Concrete floor
SIP208	Bracing detail - Timber floor
SIP210	Wall Footing - Concrete - Option 1
SIP220	Wall Footing - Timber Floor

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No.	Description	Date
4	INFO	16/07/2019
3	INFO	15/05/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>Drawing Index - 200</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4)	
Drawn by	DRAWING NUMBER		REV
Author	<b>SIP200</b>		<b>4</b>
Checked by Checker			



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PROJECT **Standard Details**

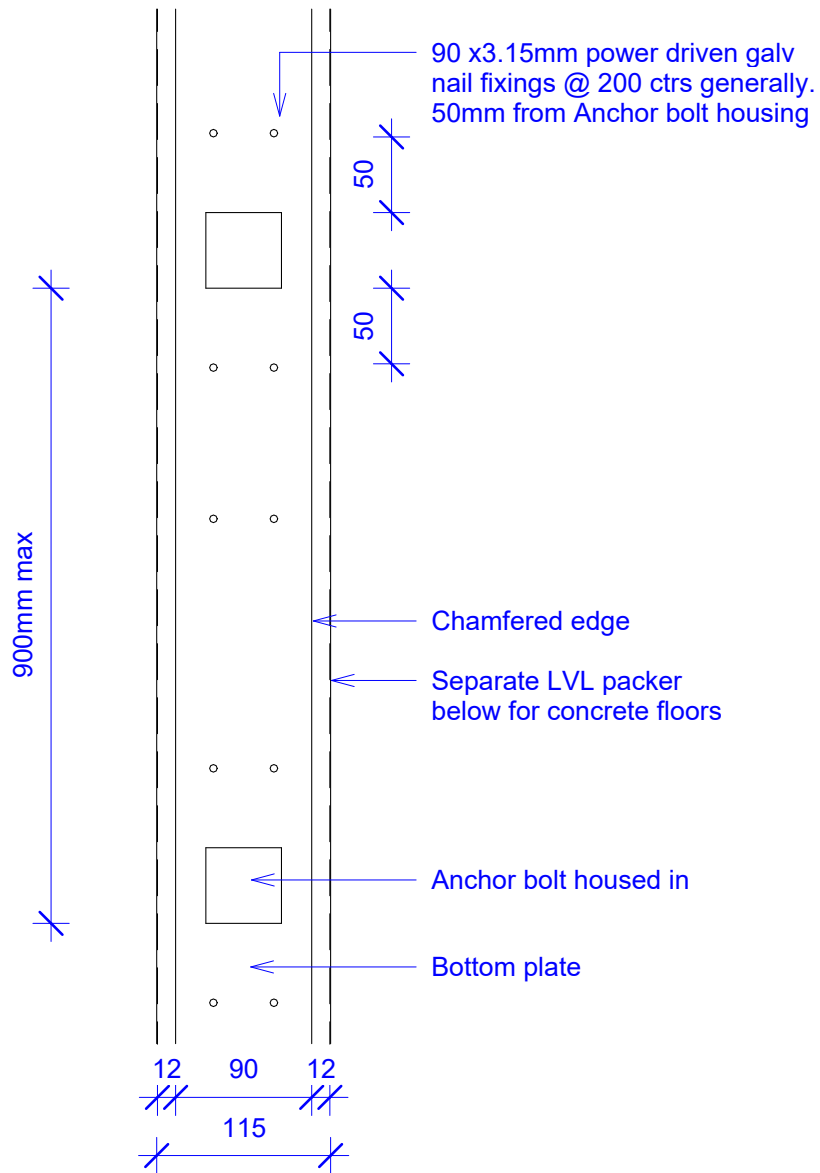
SHEET **Bottom Plate Section**

CLIENT **NZSIP**

Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 2
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Drawn by NZSIP	DRAWING NUMBER <b>SIP201</b>	REV <b>3</b>
Checked by NZSIP		

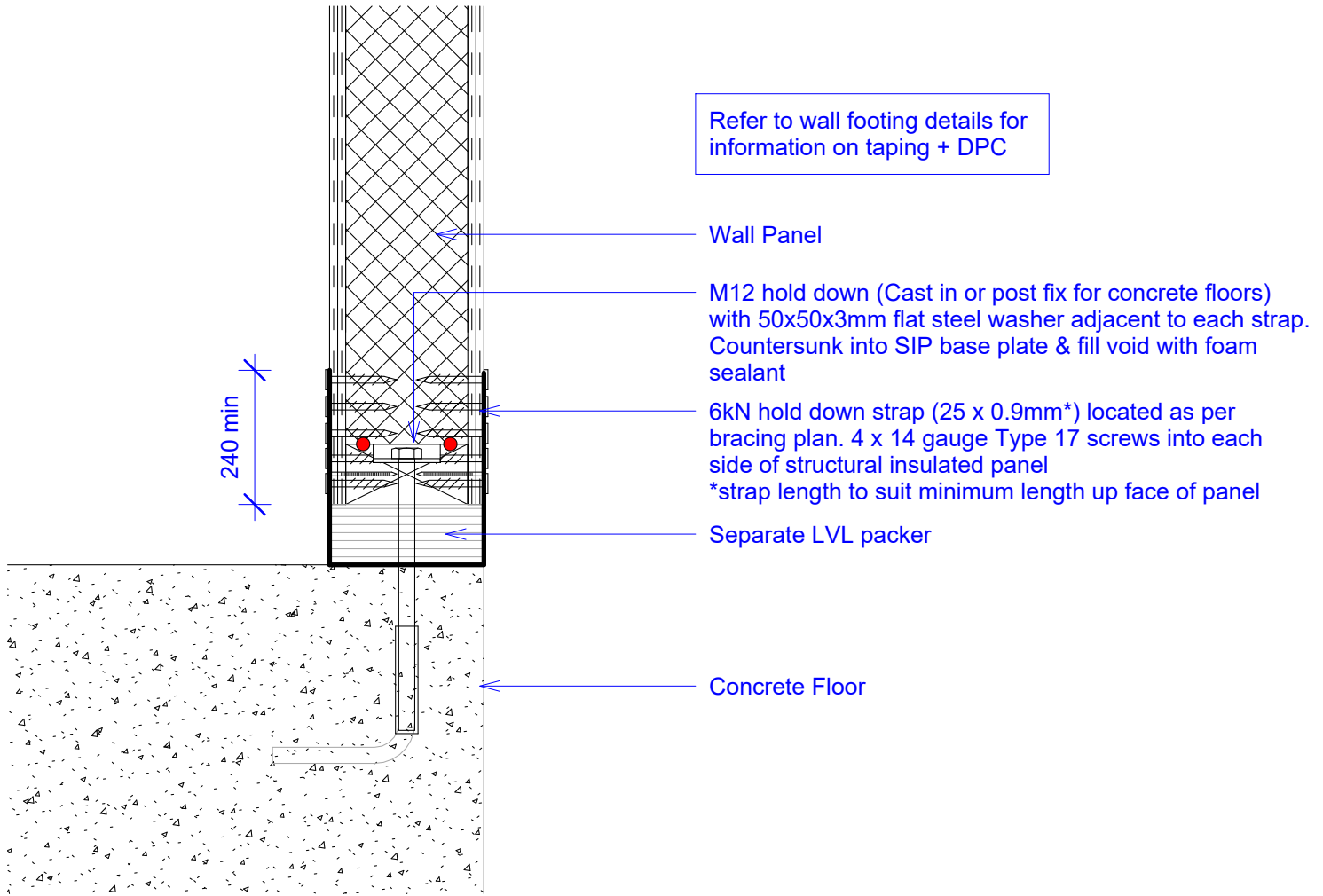
No.	Description	Date
3	INFO	29/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018



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PROJECT <b>Standard Details</b>			
SHEET <b>Bottom Plate Plan</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP202</b>		<b>3</b>

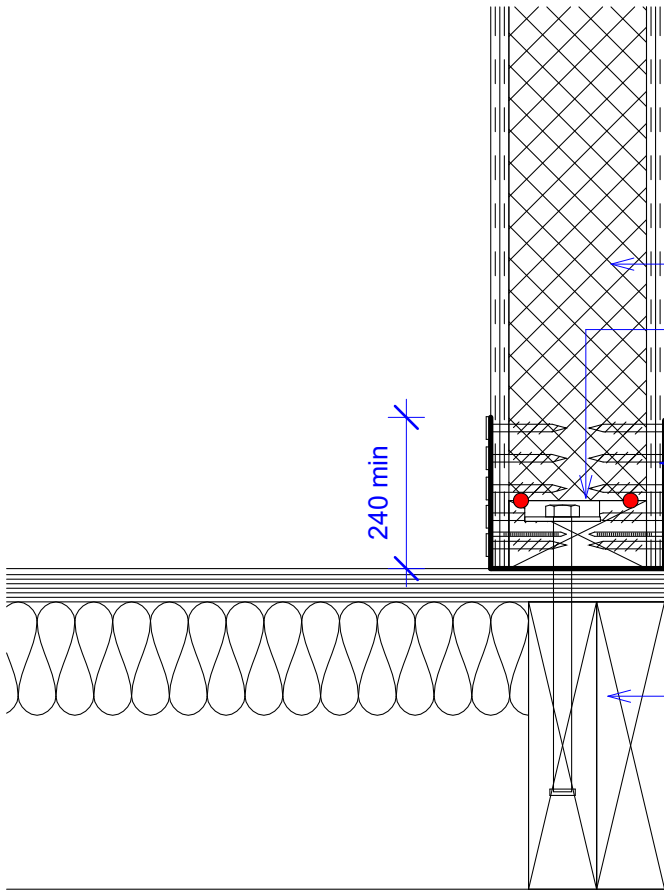
No.	Description	Date
3	INFO	29/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018



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PROJECT <b>Standard Details</b>			
SHEET <b>Bracing detail - Concrete floor</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP207</b>		<b>6</b>

No.	Description	Date
6	INFO	29/07/2019
5	INFO	16/07/2019
4	INFO	15/05/2019
3	INFO	13/05/2019



Refer to wall footing details for information on taping

Wall Panel

M12 hold down according to NZS3604 with 50x50x3mm flat steel washer adjacent to each strap. Countersunk into SIP base plate & fill void with foam sealant

6kN hold down strap (25 x 0.9mm\*) located as per bracing plan. 4 x 14 gauge Type 17 screws into each side of structural insulated panel

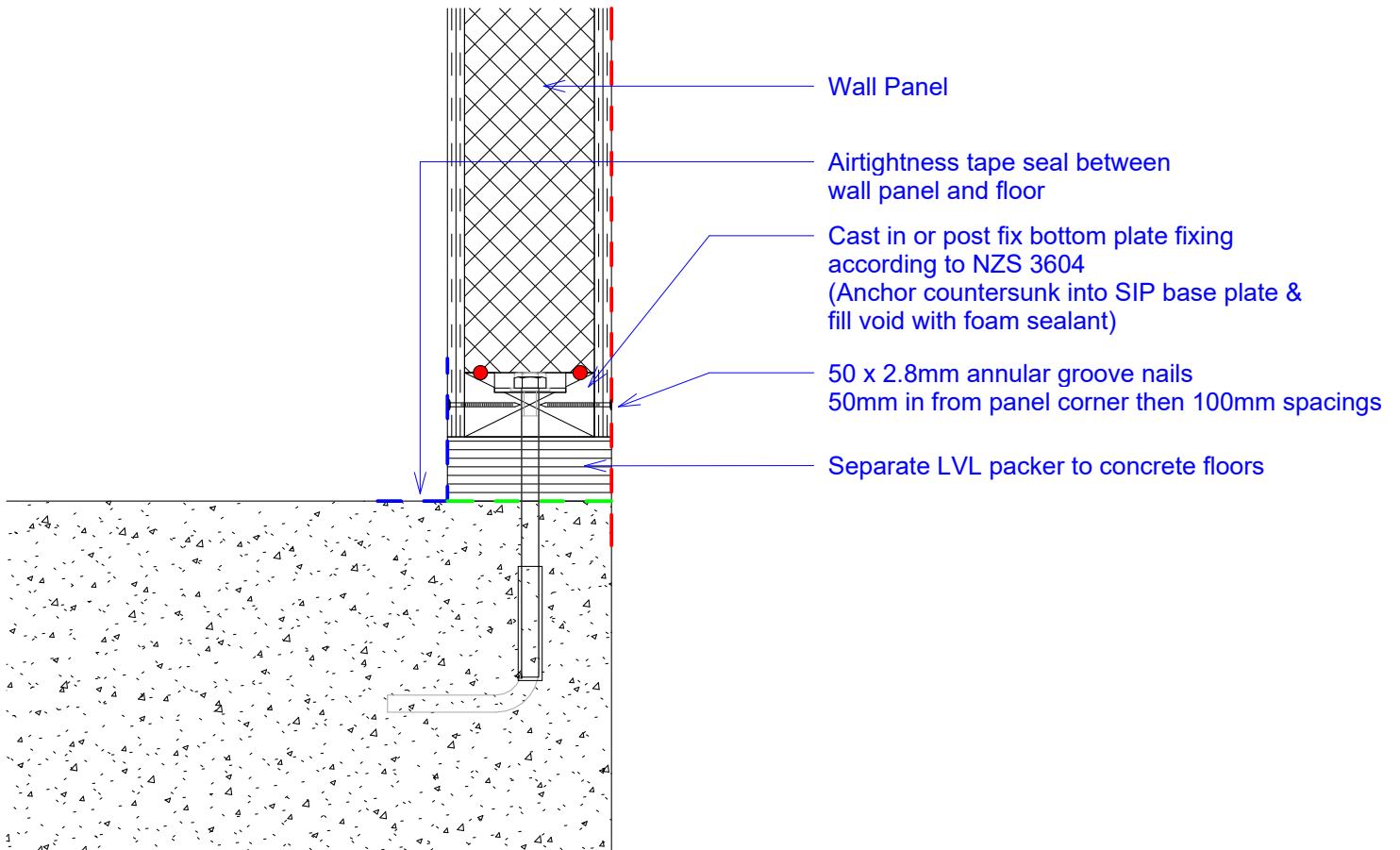
\*strap length to suit minimum length up face of panel

Timber Floor to NZS3604

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No.	Description	Date
3	INFO	29/07/2019
2	INFO	16/07/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>Bracing detail - Timber floor</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP208</b>		<b>3</b>



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PROJECT **Standard Details**

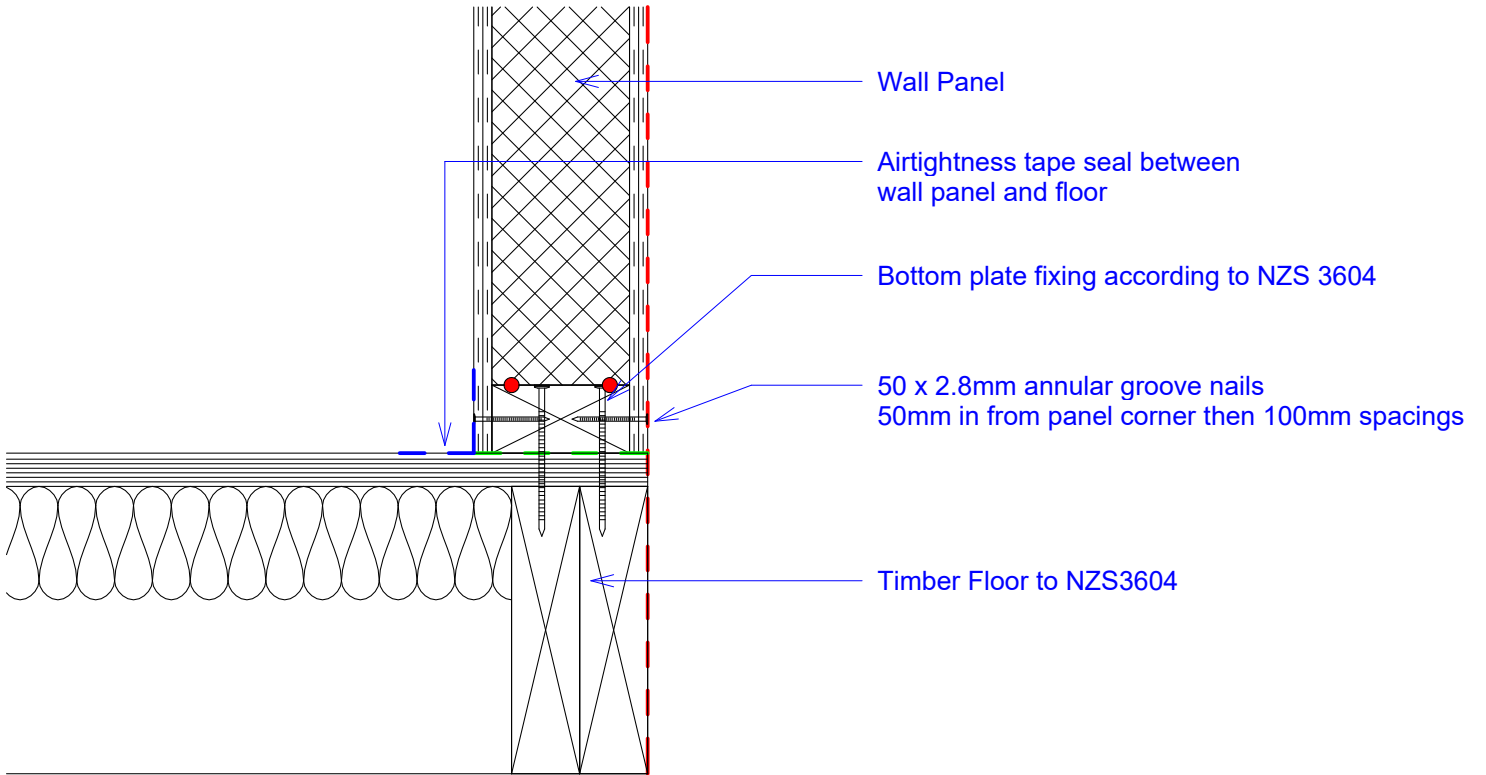
SHEET **Wall Footing - Concrete - Option 1**

CLIENT **NZSIP**

No.	Description	Date
5	INFO	07/07/2021
4	INFO	29/07/2019
3	INFO	16/07/2019
2	INFO	13/05/2019

Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5
Drawn by NZSIP	DRAWING NUMBER <b>SIP210</b>	REV <b>5</b>
Checked by NZSIP		





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PROJECT **Standard Details**

SHEET **Wall Footing - Timber Floor**

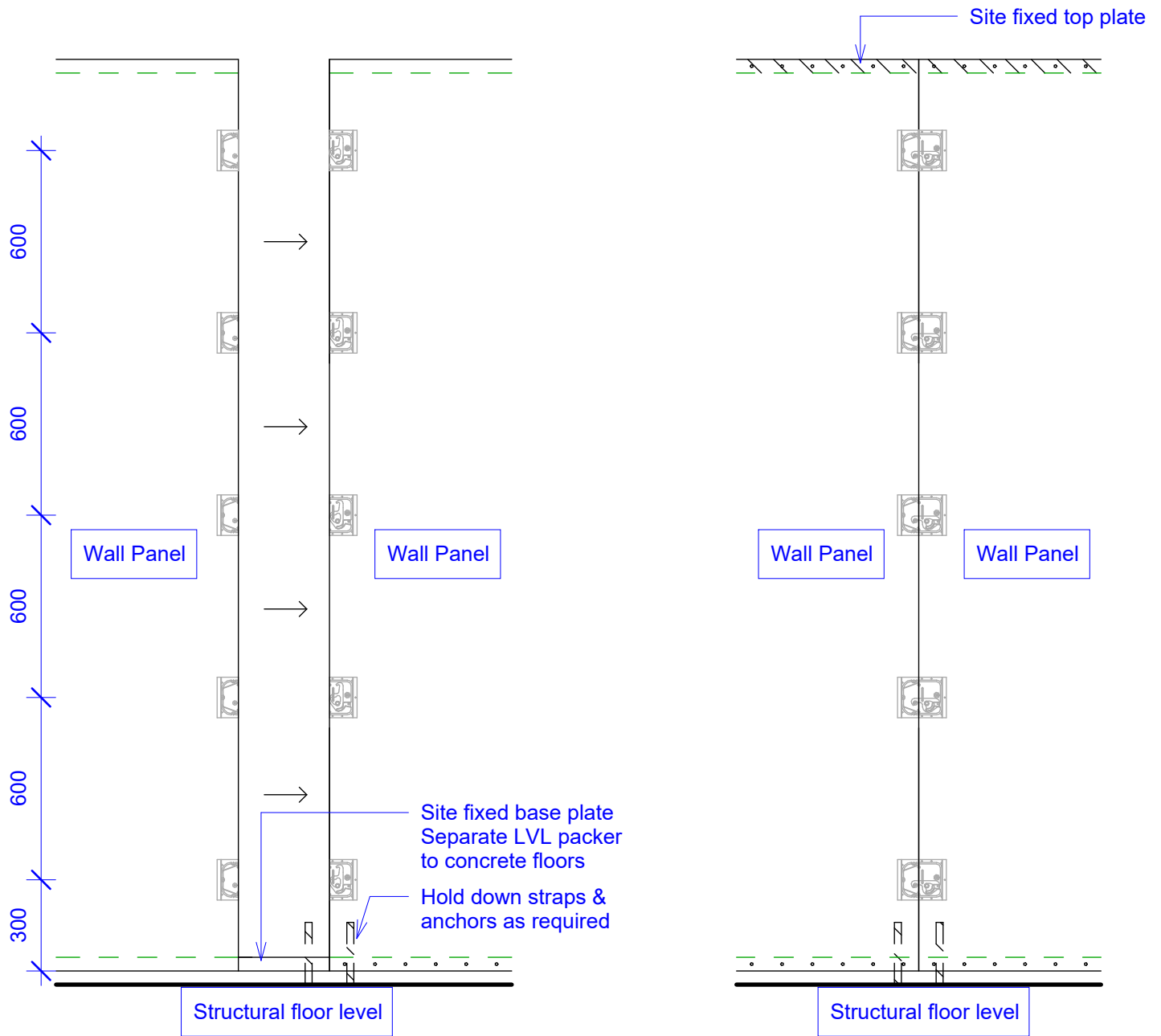
CLIENT **NZSIP**

No.	Description	Date
4	INFO	07/07/2021
3	INFO	16/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5
Drawn by NZSIP	DRAWING NUMBER <b>SIP220</b>	REV <b>4</b>
Checked by NZSIP		

Sheet Number	Sheet Name
SIP307	Bracing elevation
SIP310	CAM Lock - Plan
SIP311	Panel in Panel Spline
SIP312	Corner Detail
SIP313	Internal Wall - Plan
SIP314	Internal Wall - Section
SIP316	Panel joints
SIP320	Typical Cladding Fixings
SIP330	Rebate Elevation
SIP340	Beam Elevations
SIP341	Beam Pocket fixings
SIP350	Wall penetration
SIP360	Fire rated wall - elevation
SIP361	Fire rated wall - plan detail

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			<b>SHEET</b> Drawing Index - 300																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">No.</th> <th style="width: 70%;">Description</th> <th style="width: 20%;">Date</th> </tr> </thead> <tbody> <tr><td>6</td><td>INFO</td><td>15/06/2021</td></tr> <tr><td>5</td><td>INFO</td><td>16/07/2019</td></tr> <tr><td>4</td><td>INFO</td><td>15/05/2019</td></tr> <tr><td>3</td><td>INFO</td><td>13/05/2019</td></tr> </tbody> </table>			No.	Description	Date	6	INFO	15/06/2021	5	INFO	16/07/2019	4	INFO	15/05/2019	3	INFO	13/05/2019	<b>CLIENT</b> NZSIP		
			No.	Description	Date															
6	INFO	15/06/2021																		
5	INFO	16/07/2019																		
4	INFO	15/05/2019																		
3	INFO	13/05/2019																		
Date May 2018		Project number NZSIP		Scale (@ A4)																
Drawn by Author Checked by Checker		<b>DRAWING NUMBER</b>  <b>SIP300</b>		<b>REV</b>  <b>6</b>																

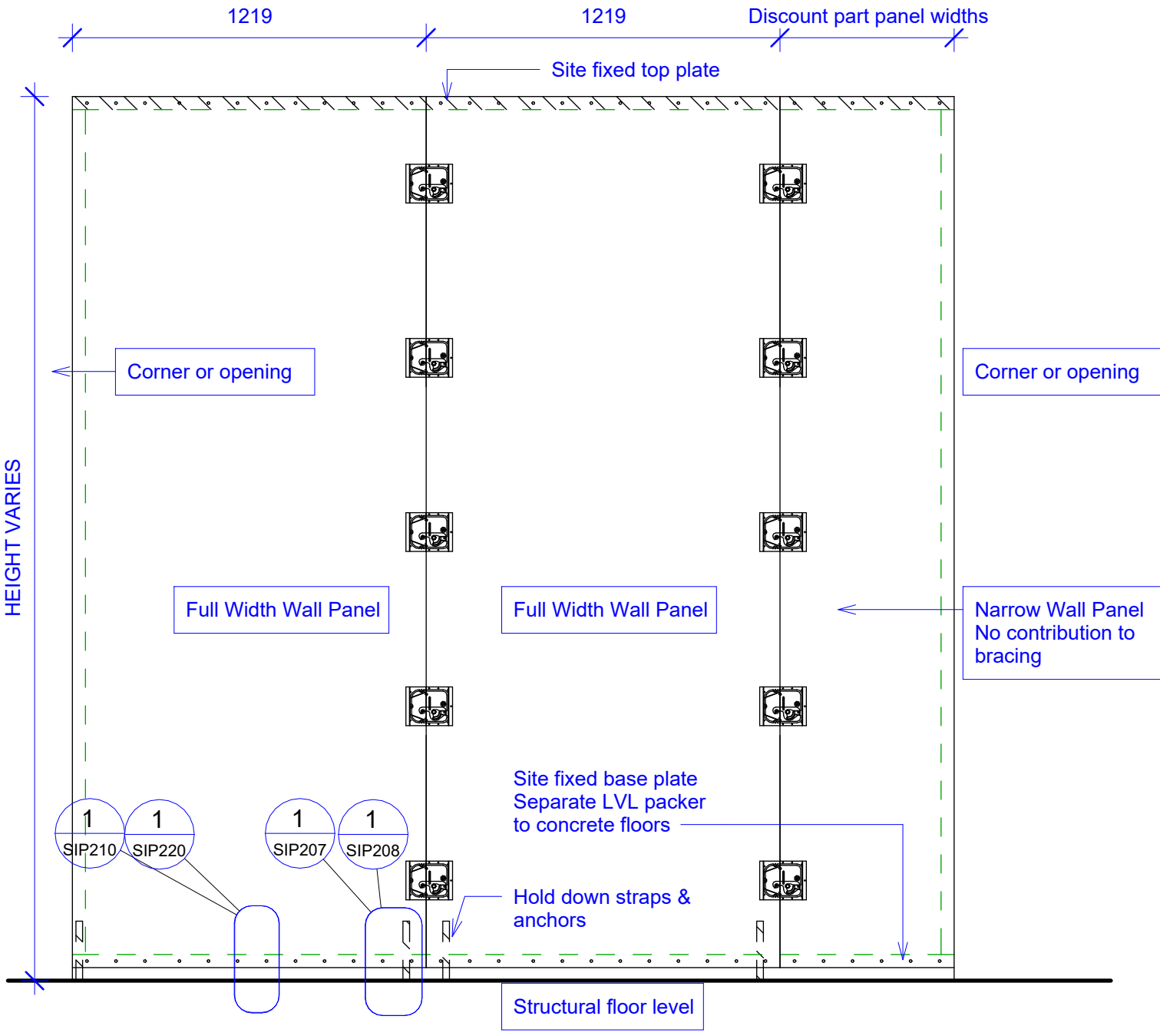


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No.	Description	Date
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>		
SHEET <b>CAM Lock - Elevation</b>		
CLIENT <b>NZSIP</b>		
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 20
Drawn by NZSIP	DRAWING NUMBER	
Checked by NZSIP	<b>SIP301</b>	REV <b>2</b>

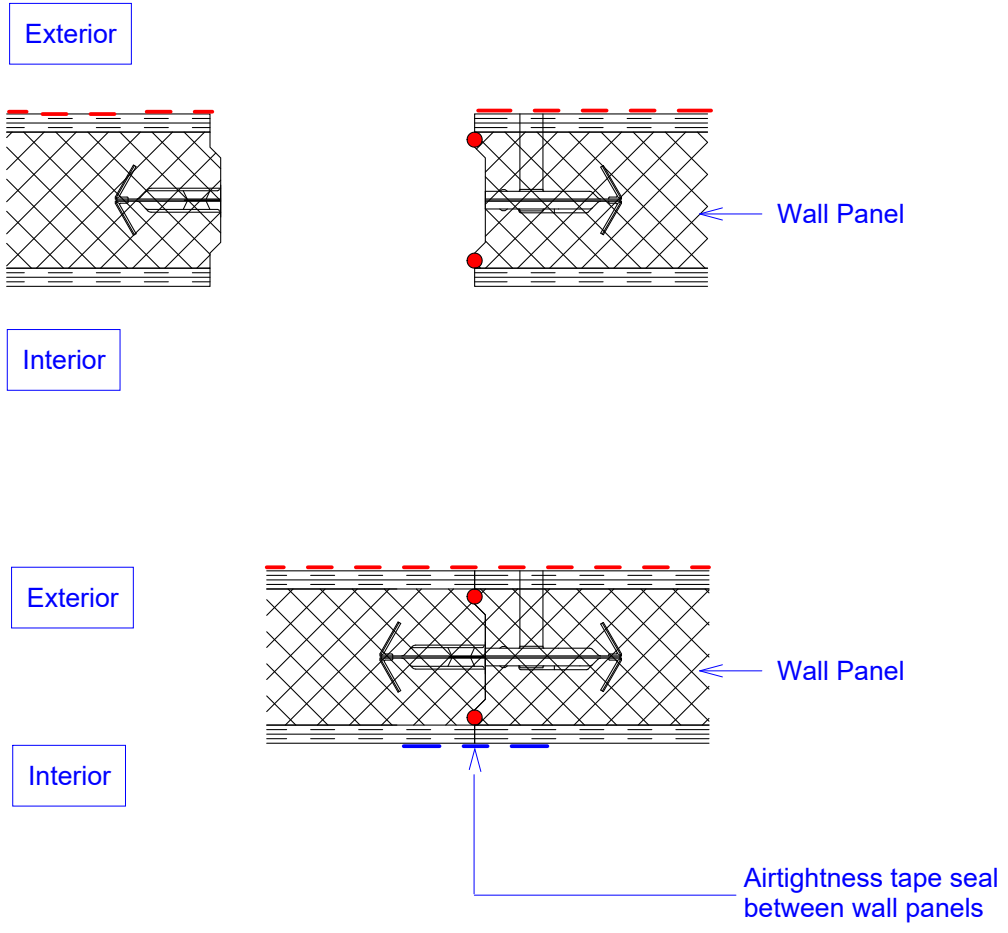
BU wind = 114 BU/m  
 BU earthquake = 116 BU/m



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PROJECT			Standard Details		
SHEET			Bracing elevation		
CLIENT			NZSIP		
Date	Project number	Scale (@ A4)			
May 2018	NZSIP	1 : 20			
Drawn by	DRAWING NUMBER		REV		
NZSIP	SIP307		6		
Checked by					
NZSIP					

No.	Description	Date
6	INFO	29/07/2019
5	INFO	16/07/2019
4	INFO	15/05/2019
3	INFO	13/05/2019

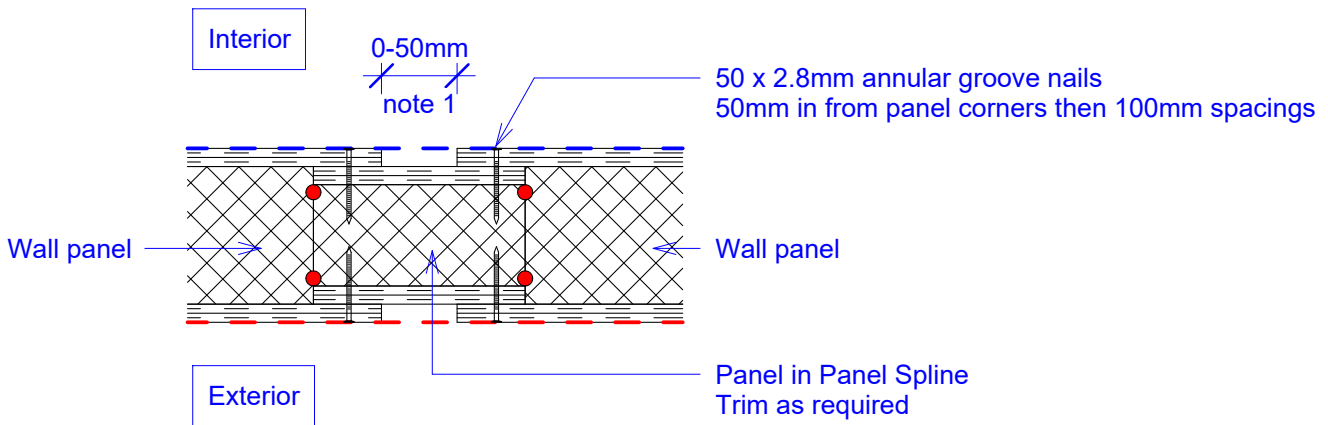
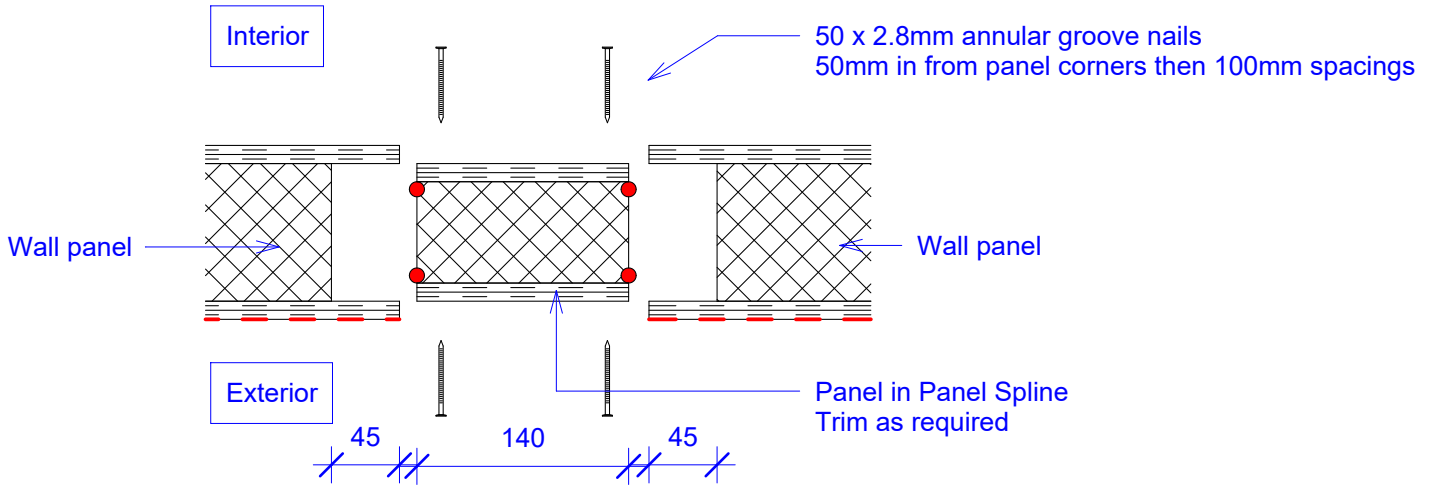


**THIS IS THE STANDARD METHOD OF CONNECTING WALL PANELS**

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No.	Description	Date
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>CAM Lock - Plan</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER <b>SIP310</b>		REV <b>2</b>
Checked by NZSIP			

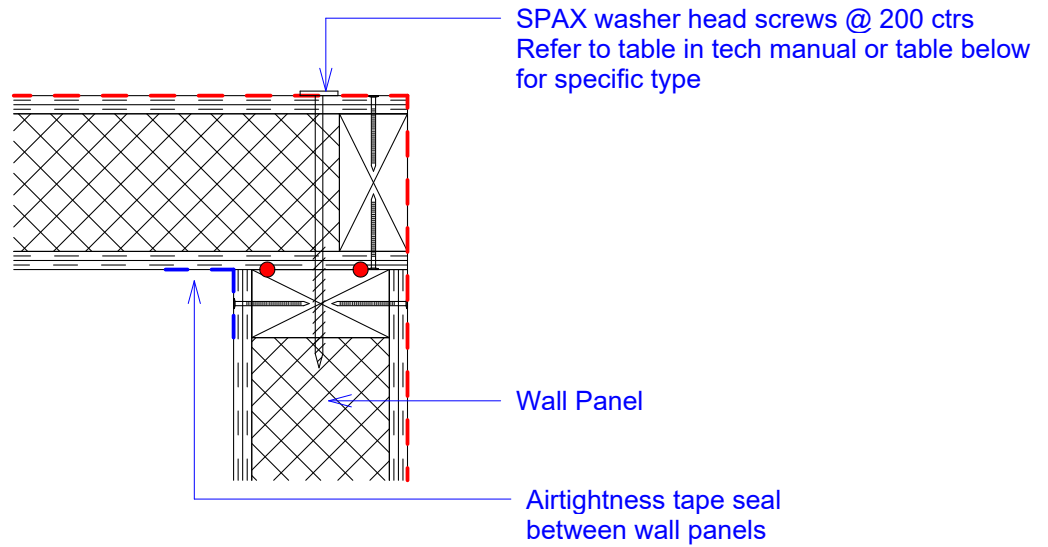


PANEL IN PANEL SPLINES ARE TYPICALLY USED IN LONG RUNS OF WALL PANELS TO INTRODUCE TOLERANCE  
 Panel plan will set wall panels 25mm apart.  
 Gap can be adjusted from 0-50mm

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No.	Description	Date
3	INFO	07/07/2021
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>Panel in Panel Spline</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP311</b>		<b>3</b>



**SPAX washer head screws fixing schedule**

Washer Head type screws for fixing roof panels, wall panels and beams together are selected from the following.

115 mm thick panel 160 mm x 8 mm  
(corner, internal wall or gable connection)

165 mm thick panel 220 mm x 8 mm  
(corner, internal wall, gable or roof beam connection)

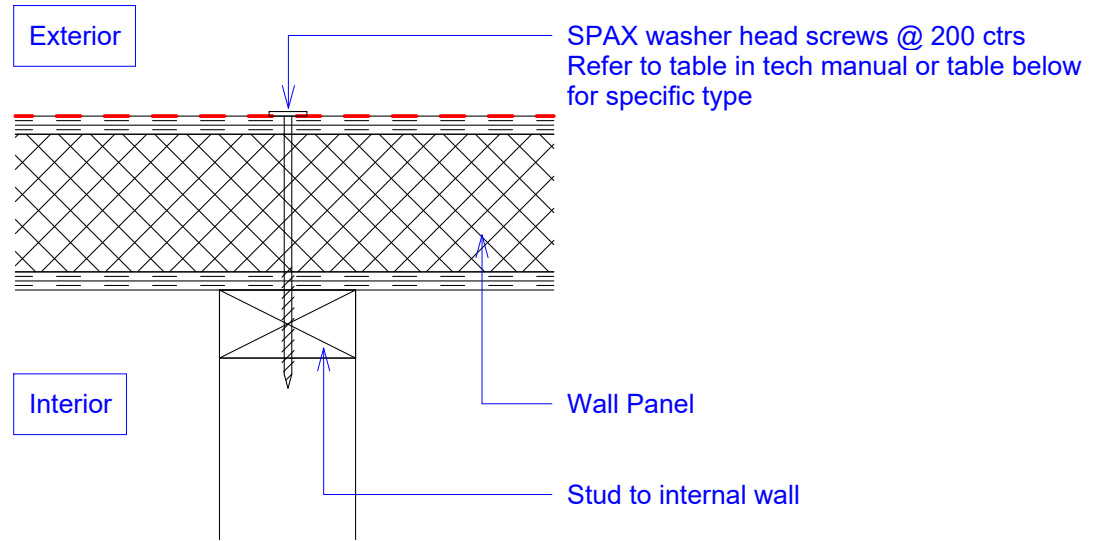
165 mm thick Roof at maximum 30° Roof pitch 280 mm x 10 mm (eave or roof beam connection)

215 mm thick Roof at maximum 30° Roof pitch 320 mm x 10 mm (eave or roof beam connection)

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No.	Description	Date
3	INFO	12/08/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>		
SHEET <b>Corner Detail</b>		
CLIENT <b>NZSIP</b>		
Date May 2018	Project number NZSIP	Scale (@ A4) As indicated
Drawn by NZSIP	DRAWING NUMBER <b>SIP312</b>	REV <b>3</b>
Checked by NZSIP		



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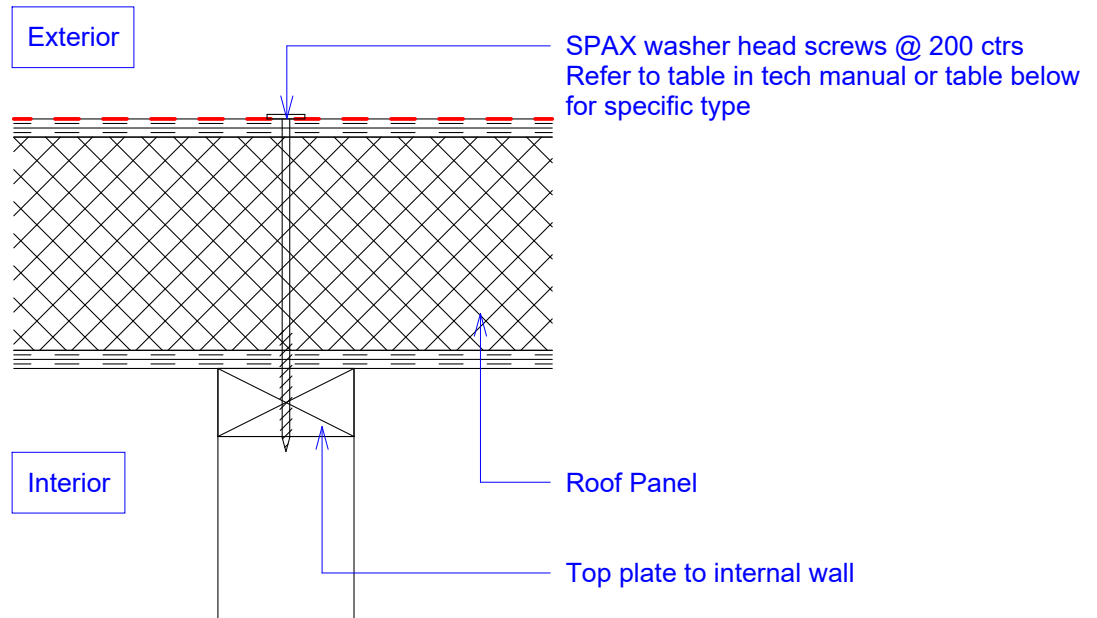
215 mm thick Roof at maximum 30° Roof pitch 320 mm x 10 mm (eave or roof beam connection)

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No.	Description	Date
4	INFO	12/08/2019
3	INFO	29/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>Internal Wall - Plan</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) As indicated	
Drawn by NZSIP	DRAWING NUMBER <b>SIP313</b>		REV <b>4</b>
Checked by NZSIP			





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165 mm thick panel 220 mm x 8 mm  
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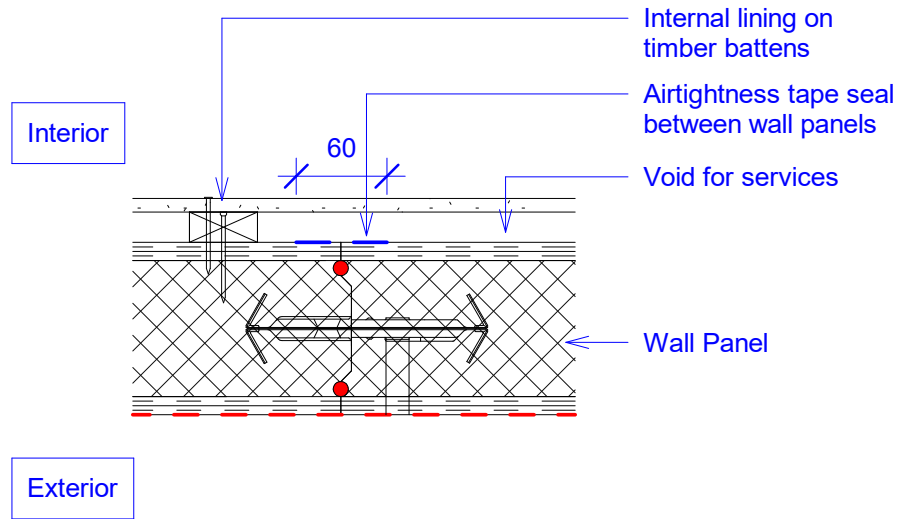
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4	INFO	12/08/2019
3	INFO	29/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>		
SHEET <b>Internal Wall - Section</b>		
CLIENT <b>NZSIP</b>		
Date May 2018	Project number NZSIP	Scale (@ A4) As indicated
Drawn by NZSIP	DRAWING NUMBER <b>SIP314</b>	REV <b>4</b>
Checked by NZSIP		



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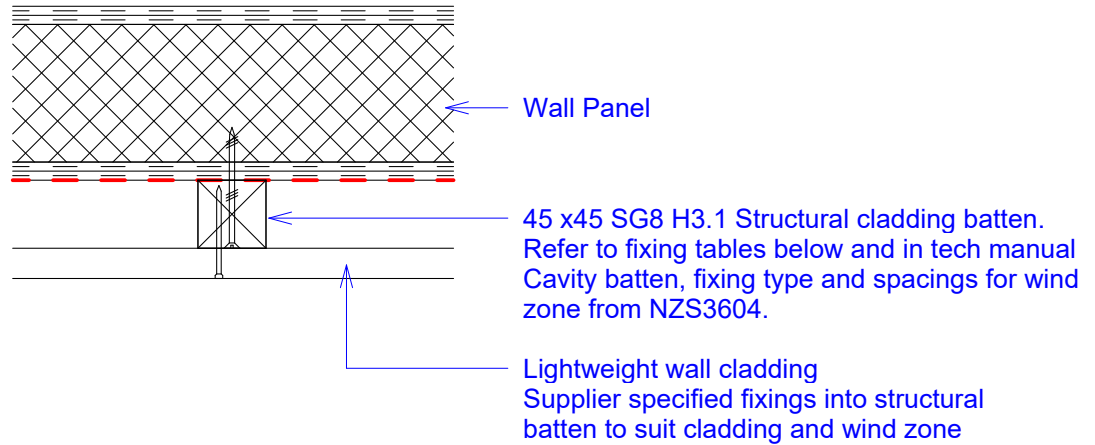
PROJECT **Standard Details**

SHEET **Panel joints**

CLIENT **NZSIP**

No.	Description	Date
4	INFO	16/07/2019
3	INFO	15/05/2019
2	INFO	13/05/2019
1	INFO	07/03/2019

Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5
Drawn by Author Checked by Checker	DRAWING NUMBER <b>SIP316</b>	REV <b>4</b>



### Cavity Batten Fixing

Fixing type	Batten Spacing (mm)	Fixing spacing (mm)	Allowable Wind Zone (from NZS3603)
75mm x 3.25 annular grooved stainless nails	600	150	Extra High
75mm x 3.25 annular grooved stainless nails	600	200	Very High
75mm x 3.25 annular grooved stainless nails	600	300	Medium
75mm x 3.25 annular grooved stainless nails	450	200	Extra High
75mm x 3.25 annular grooved stainless nails	450	300	High
75mm x 3.25 annular grooved stainless nails	400	200	Extra High
75mm x 3.25 annular grooved stainless nails	400	300	Very High

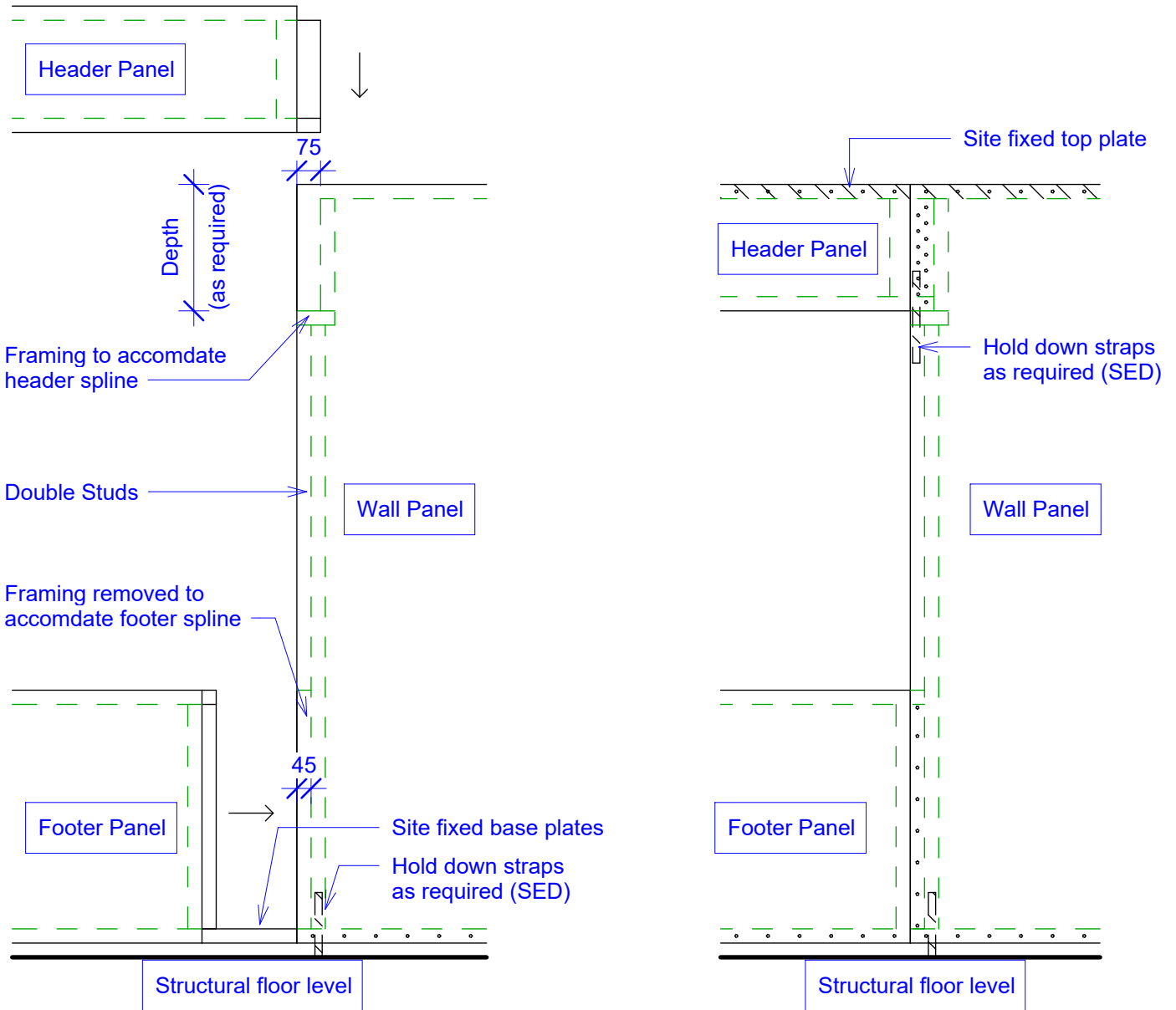
65mm x 2.8mm ring shank Paslode nails	600	100	Very High
65mm x 2.8mm ring shank Paslode nails	600	150	High
65mm x 2.8mm ring shank Paslode nails	600	200	Medium
65mm x 2.8mm ring shank Paslode nails	600	250	Low
65mm x 2.8mm ring shank Paslode nails	450	150	Very High
65mm x 2.8mm ring shank Paslode nails	450	200	High
65mm x 2.8mm ring shank Paslode nails	450	300	Low
65mm x 2.8mm ring shank Paslode nails	400	150	Very High
65mm x 2.8mm ring shank Paslode nails	400	200	High
65mm x 2.8mm ring shank Paslode nails	400	300	Medium

8g x 65mm CSK square drive stainless steel screws	600	150	Extra High
8g x 65mm CSK square drive stainless steel screws	600	200	Extra High
8g x 65mm CSK square drive stainless steel screws	600	300	Extra High
8g x 65mm CSK square drive stainless steel screws	600	400	Very High
8g x 65mm CSK square drive stainless steel screws	450	200	Extra High
8g x 65mm CSK square drive stainless steel screws	450	300	Extra High
8g x 65mm CSK square drive stainless steel screws	450	400	Extra High

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
4	INFO	12/08/2019
3	INFO	29/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

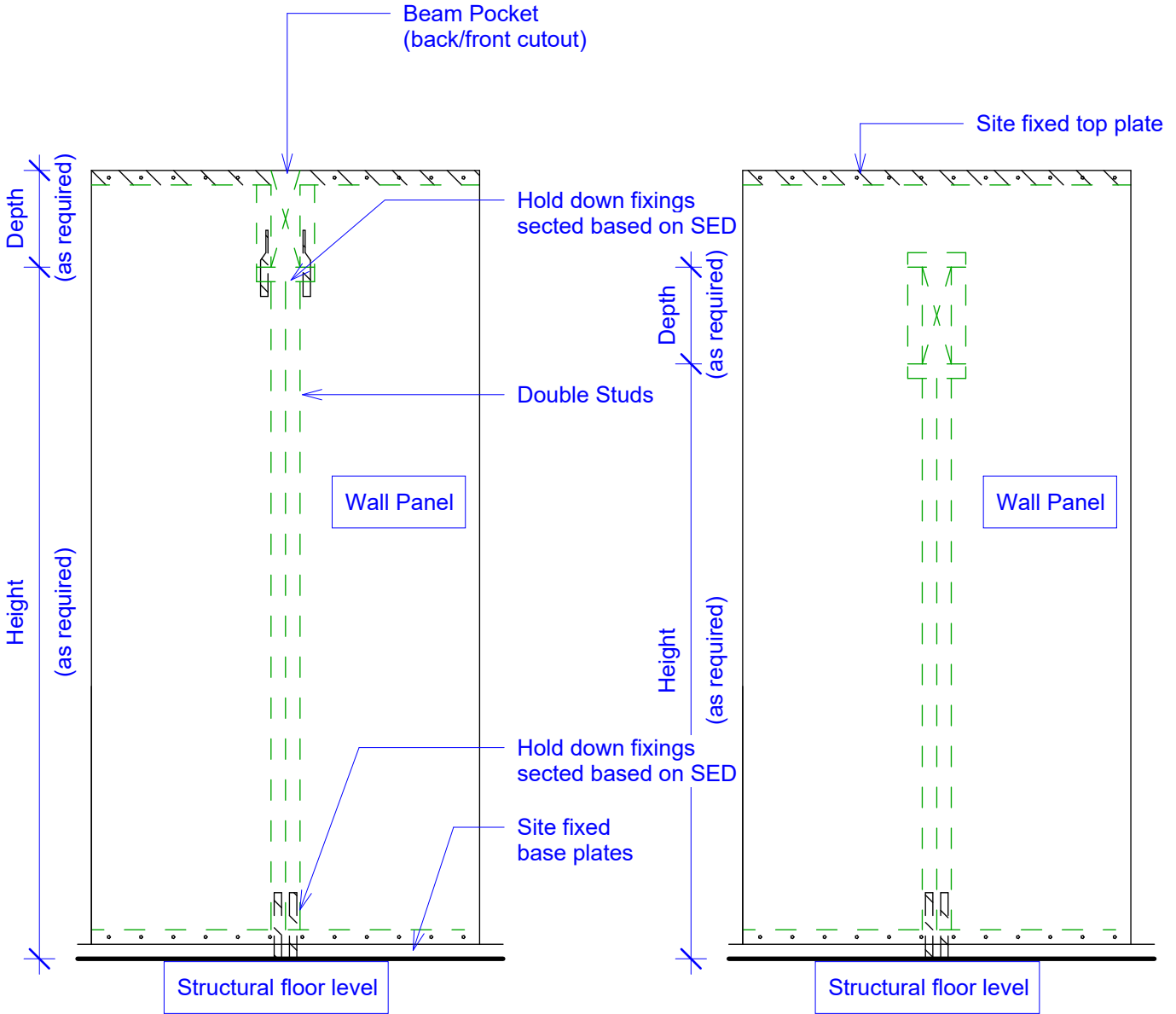
PROJECT <b>Standard Details</b>			
SHEET <b>Typical Cladding Fixings</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER <b>SIP320</b>		REV <b>4</b>
Checked by NZSIP			



All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
2	INFO	13/05/2019
1	INFO	21/05/2018

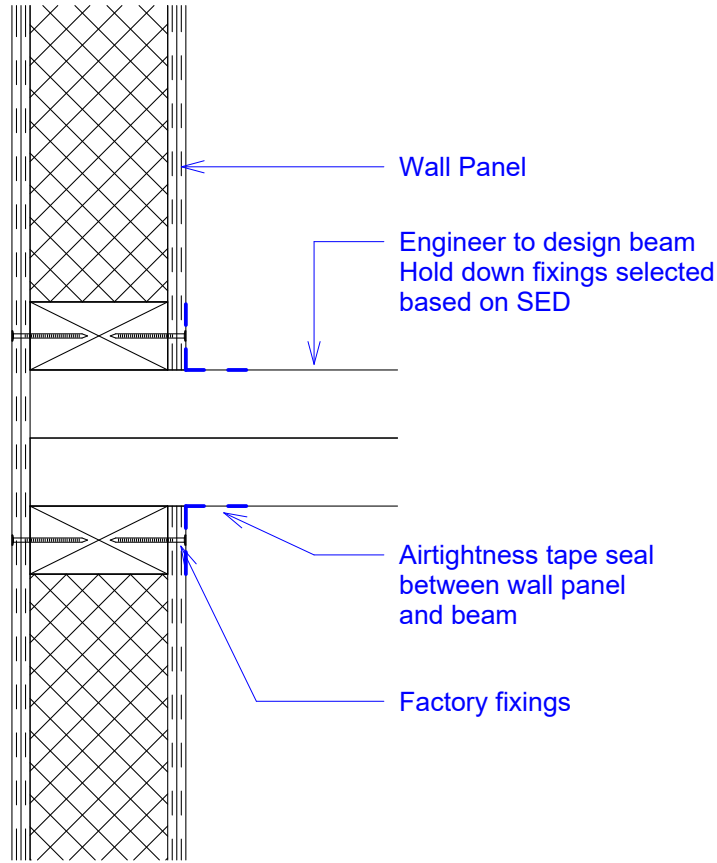
PROJECT <b>Standard Details</b>			
SHEET <b>Rebate Elevation</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 20	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP330</b>		<b>2</b>



All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT				Standard Details	
SHEET				Beam Elevations	
CLIENT				NZSIP	
Date	Project number	Scale (@ A4)			
May 2018	NZSIP	1 : 20			
Drawn by	DRAWING NUMBER			REV	
NZSIP	SIP340			2	
Checked by					



All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

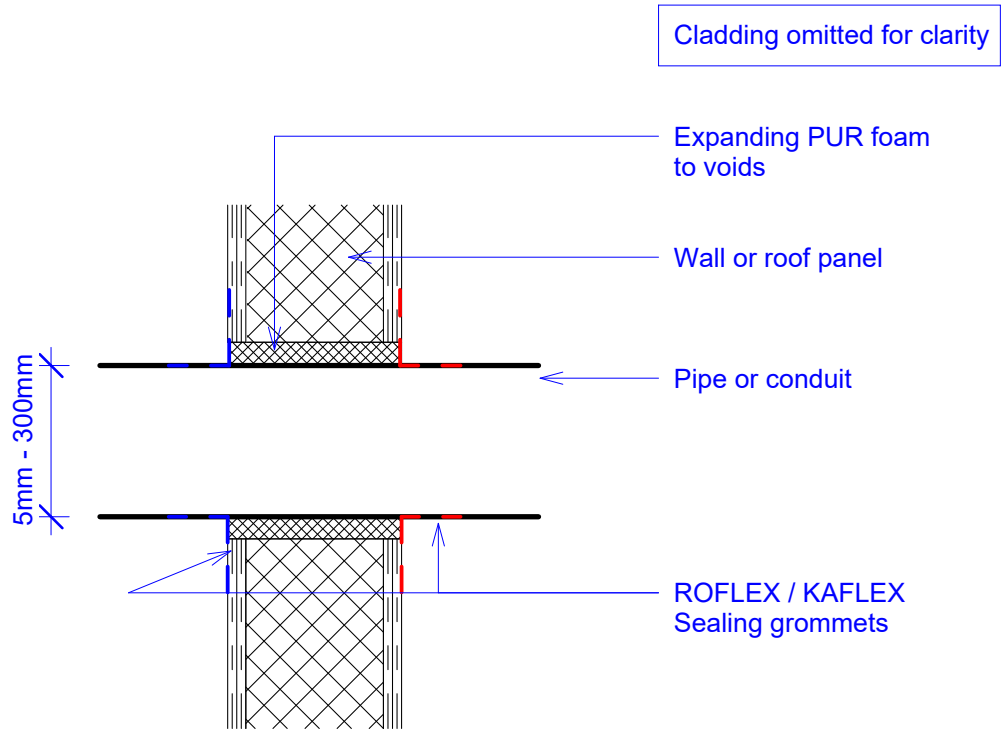
PROJECT **Standard Details**

SHEET **Beam Pocket fixings**

CLIENT **NZSIP**

No.	Description	Date
4	INFO	29/07/2019
3	INFO	15/05/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5
Drawn by NZSIP	DRAWING NUMBER <b>SIP341</b>	REV <b>4</b>
Checked by NZSIP		

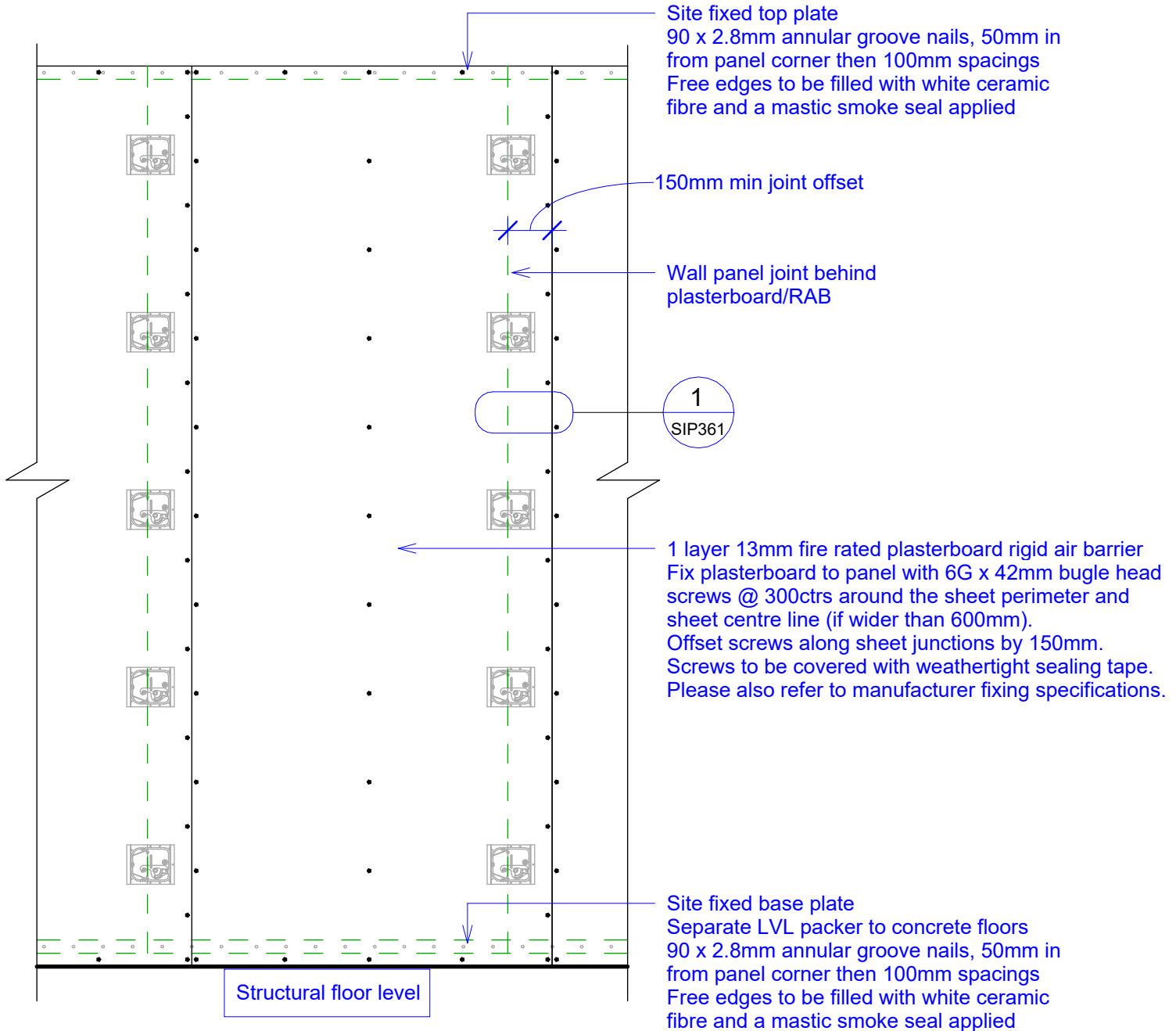


All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

PROJECT			Standard Details	
SHEET			Wall penetration	
CLIENT			NZSIP	
Date	Project number	Scale (@ A4)		
May 2018	NZSIP	1 : 5		
Drawn by	DRAWING NUMBER		REV	
Author	SIP350		2	
Checked by				
Checker				

No.	Description	Date
2	INFO	13/05/2019
1	INFO	26/10/2018

Exterior view



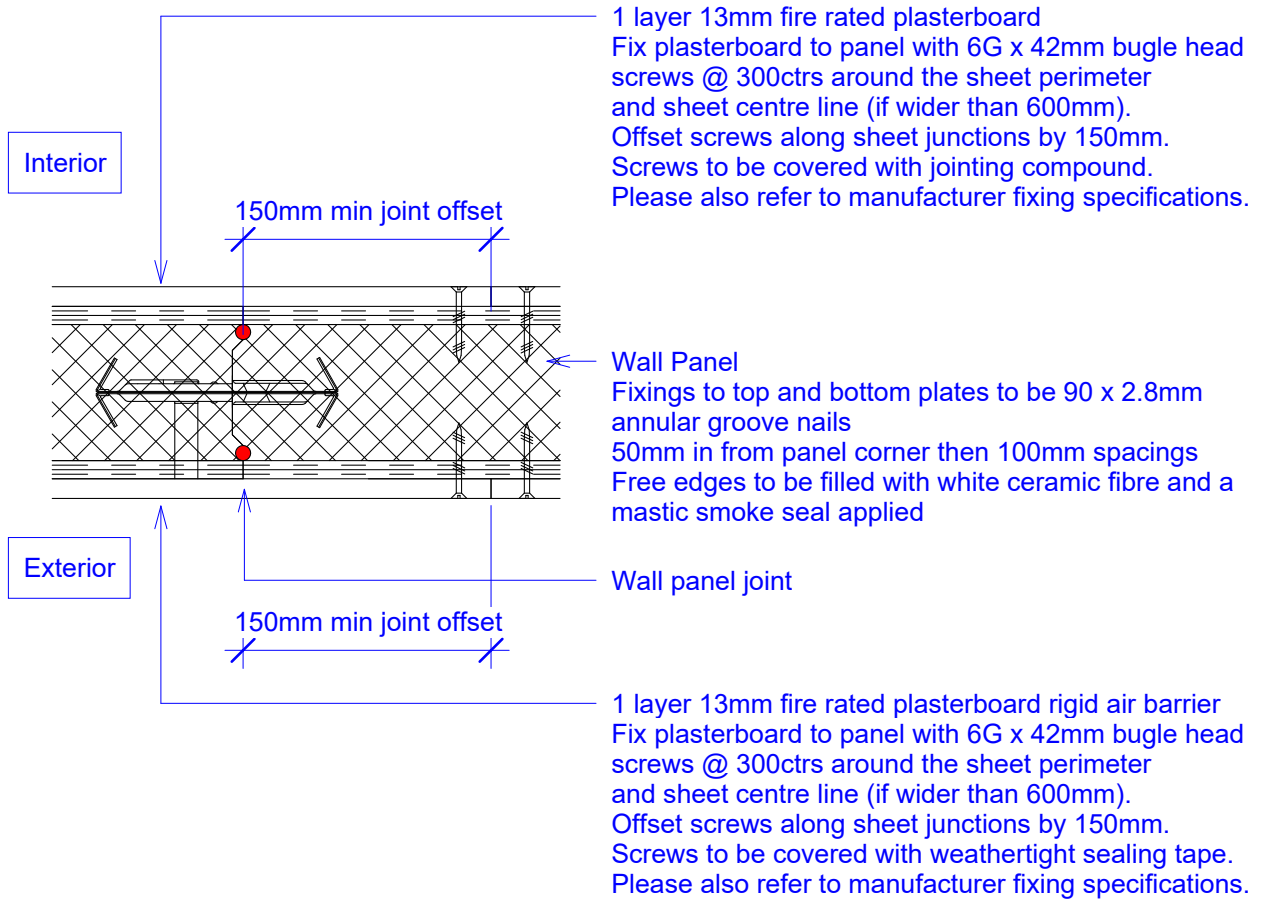
Fire resistance level (FRL): 30/30/30

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
3	INFO	07/07/2021
2	INFO	15/06/2021
1	DRAFT	03/06/2021

PROJECT <b>Standard Details</b>			
SHEET <b>Fire rated wall - elevation</b>			
CLIENT <b>NZSIP</b>			
Date	Project number	Scale (@ A4)	
May 2018	NZSIP	1 : 20	
Drawn by	DRAWING NUMBER		REV
Author	<b>SIP360</b>		<b>3</b>
Checked by			
Checker			





Fire resistance level (FRL): 30/30/30

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
4	INFO	07/07/2021
3	INFO	15/06/2021
2	DRAFT	03/06/2021
1	INFO	15/02/2021

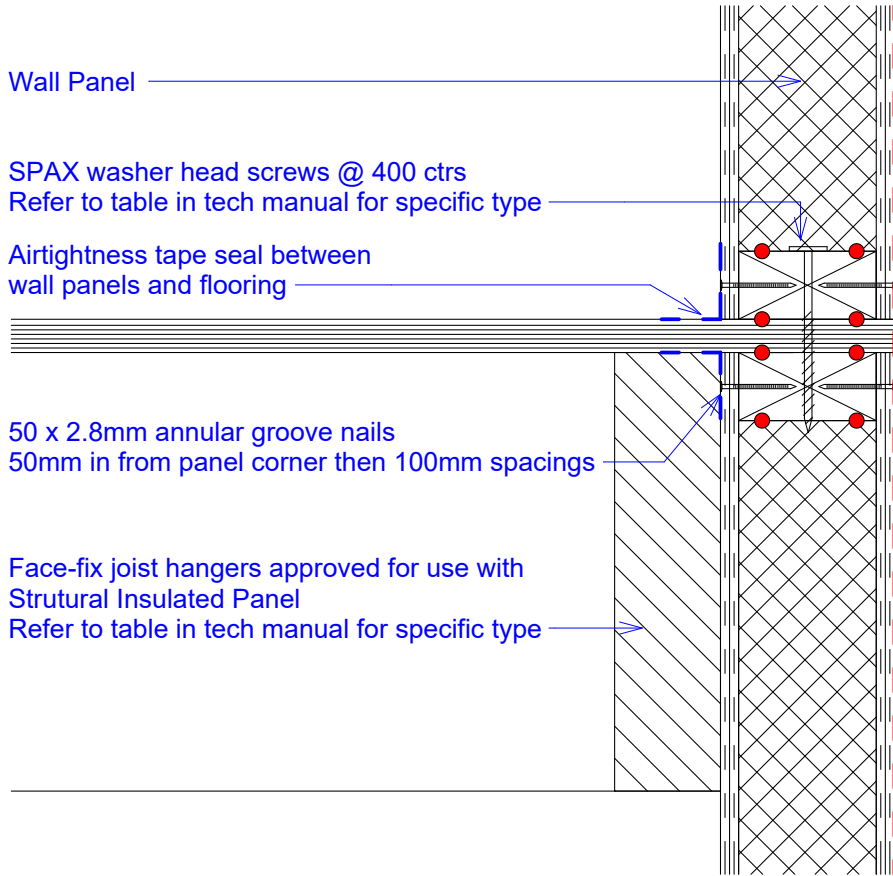
PROJECT <b>Standard Details</b>			
SHEET <b>Fire rated wall - plan detail</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by	DRAWING NUMBER		REV
Author	<b>SIP361</b>		<b>4</b>
Checked by Checker			

Sheet Number	Sheet Name
SIP401	Mid Floor
SIP402	Hold down Strap - Mid Floor

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT			<b>Standard Details</b>		
SHEET			<b>Drawing Index - 400</b>		
CLIENT			<b>NZSIP</b>		
Date	Project number	Scale (@ A4)			
May 2018	NZSIP				
Drawn by	DRAWING NUMBER			REV	
Author	<b>SIP400</b>			<b>2</b>	
Checked by					
Checker					



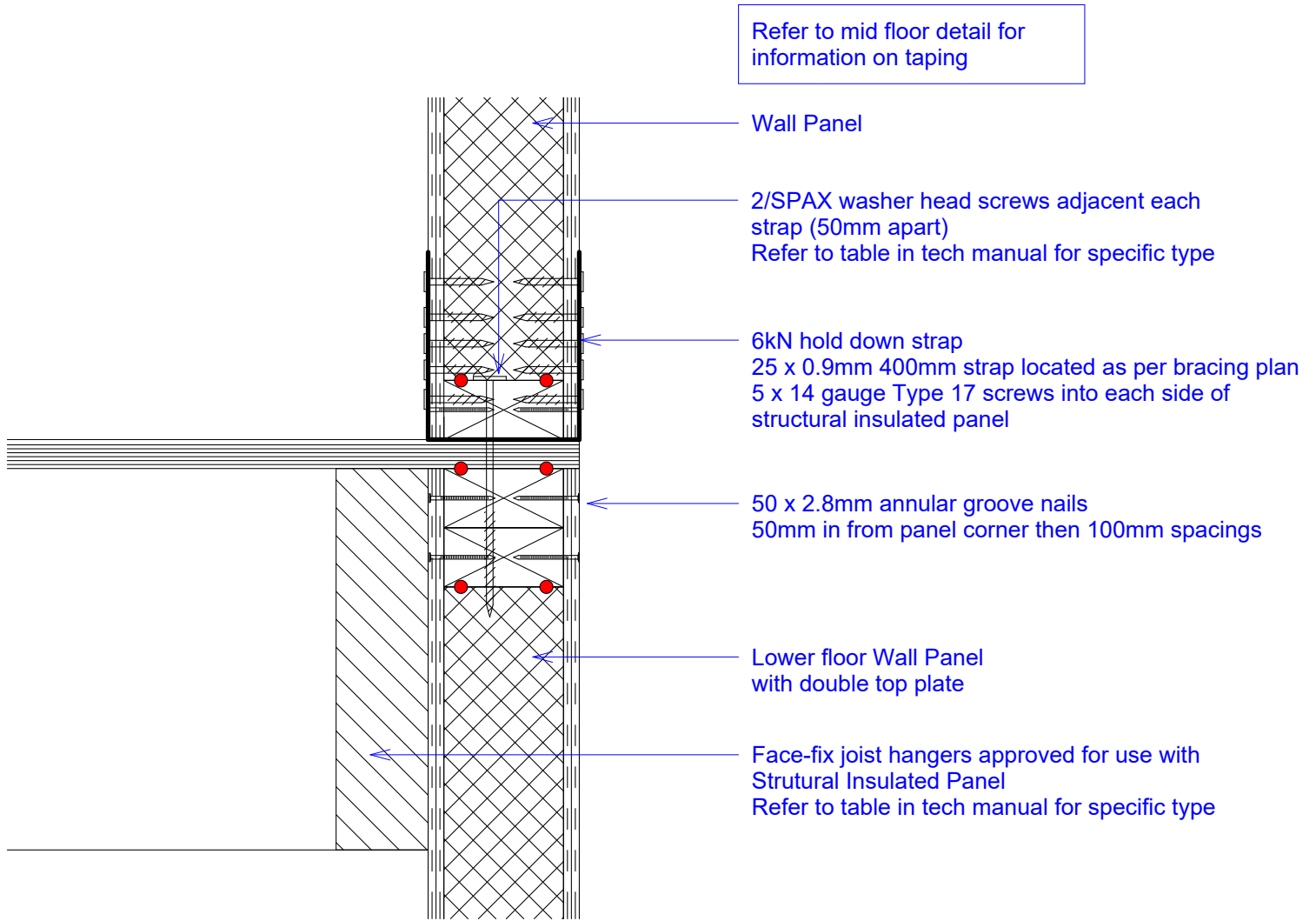
Characteristic Load – Screws			
Joist Hanger Type	Number of screws per flange*	Down	Uplift
JH 47 x 90	1	3kN	3kN
JH 47 x 120	2	6kN	6kN
JH 47 x 190	3	9kN	9kN
JH 95 x 165	3	9kN	9kN
JH 90 x 180	3	9kN	9kN

\*Fix with Type 17-12g x 35mm Hex head screws

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
6	INFO	07/07/2021
5	INFO	12/08/2019
4	INFO	29/07/2019
3	INFO	16/07/2019

PROJECT <b>Standard Details</b>			
SHEET <b>Mid Floor</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP401</b>		<b>6</b>



Characteristic Load – Screws			
Joist Hanger Type	Number of screws per flange*	Down	Uplift
JH 47 x 90	1	3kN	3kN
JH 47 x 120	2	6kN	6kN
JH 47 x 190	3	9kN	9kN
JH 95 x 165	3	9kN	9kN
JH 90 x 180	3	9kN	9kN

\*Fix with Type 17-12g x 35mm Hex head screws

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
7	INFO	07/07/2021
6	INFO	12/08/2019
5	INFO	29/07/2019
4	INFO	16/07/2019

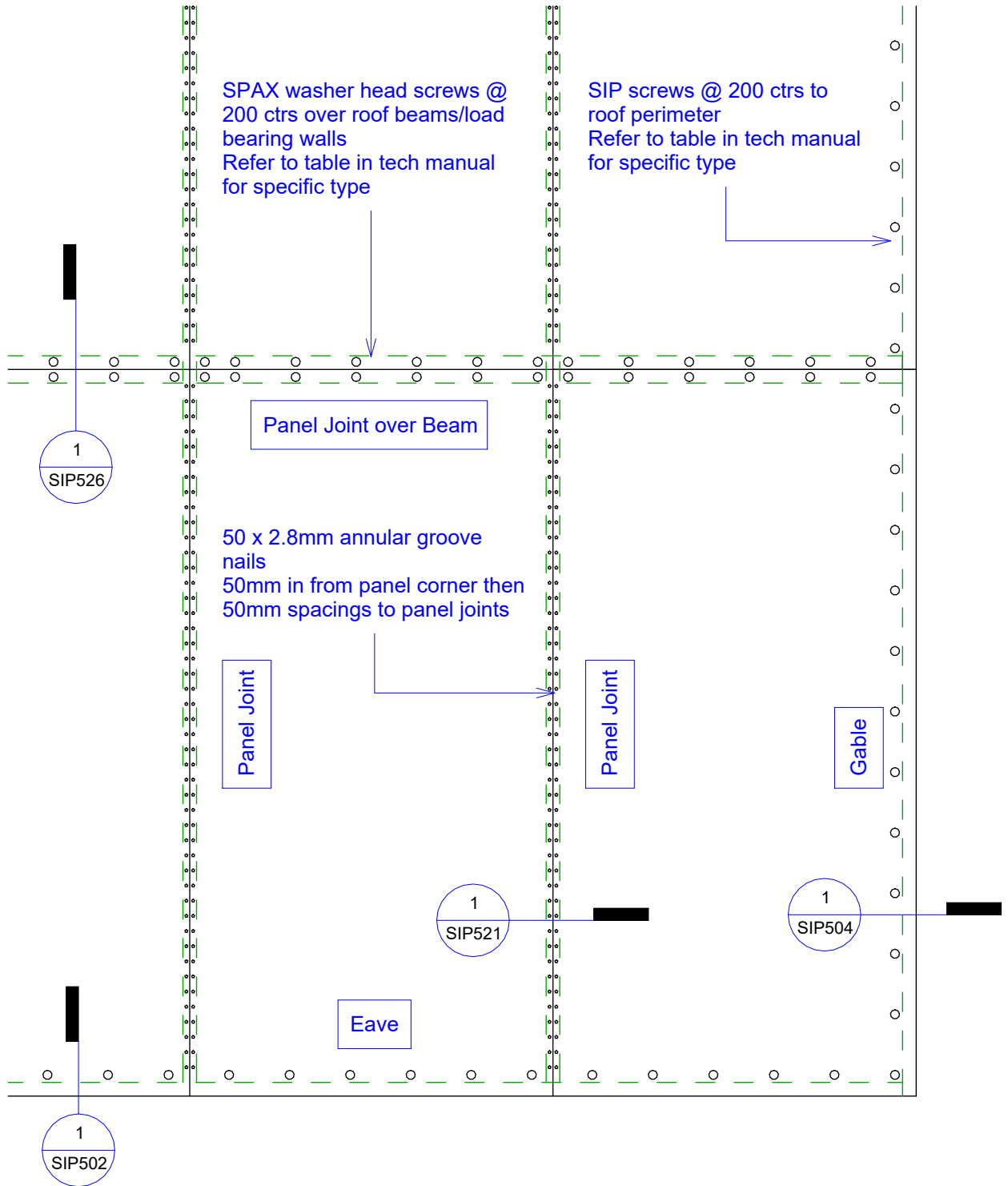
PROJECT			Standard Details	
SHEET			Hold down Strap - Mid Floor	
CLIENT			NZSIP	
Date	Project number	Scale (@ A4)		
May 2018	NZSIP	1 : 5		
Drawn by	DRAWING NUMBER		REV	
NZSIP	SIP402		7	
Checked by				
NZSIP				

Sheet Number	Sheet Name
SIP501	Roof Plan
SIP502	Roof/Wall - Eave
SIP504	Roof/Wall - Gable
SIP506	Roof/Wall - Eave Truss Roof
SIP510	Roof/Wall - Ridge
SIP511	Ridge beam
SIP521	Roof Junction
SIP525	Roof Junction - Beam square
SIP526	Roof Junction - Beam angled
SIP550	Roof Plan - Counter batten roof
SIP551	Roof Panel - Counterbatten fixing
SIP555	Roof/Wall - counter batten Eave

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
3	INFO	16/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>Drawing Index - 500</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4)	
Drawn by	DRAWING NUMBER		REV
Author	<b>SIP500</b>		<b>3</b>
Checked by			
Checker			



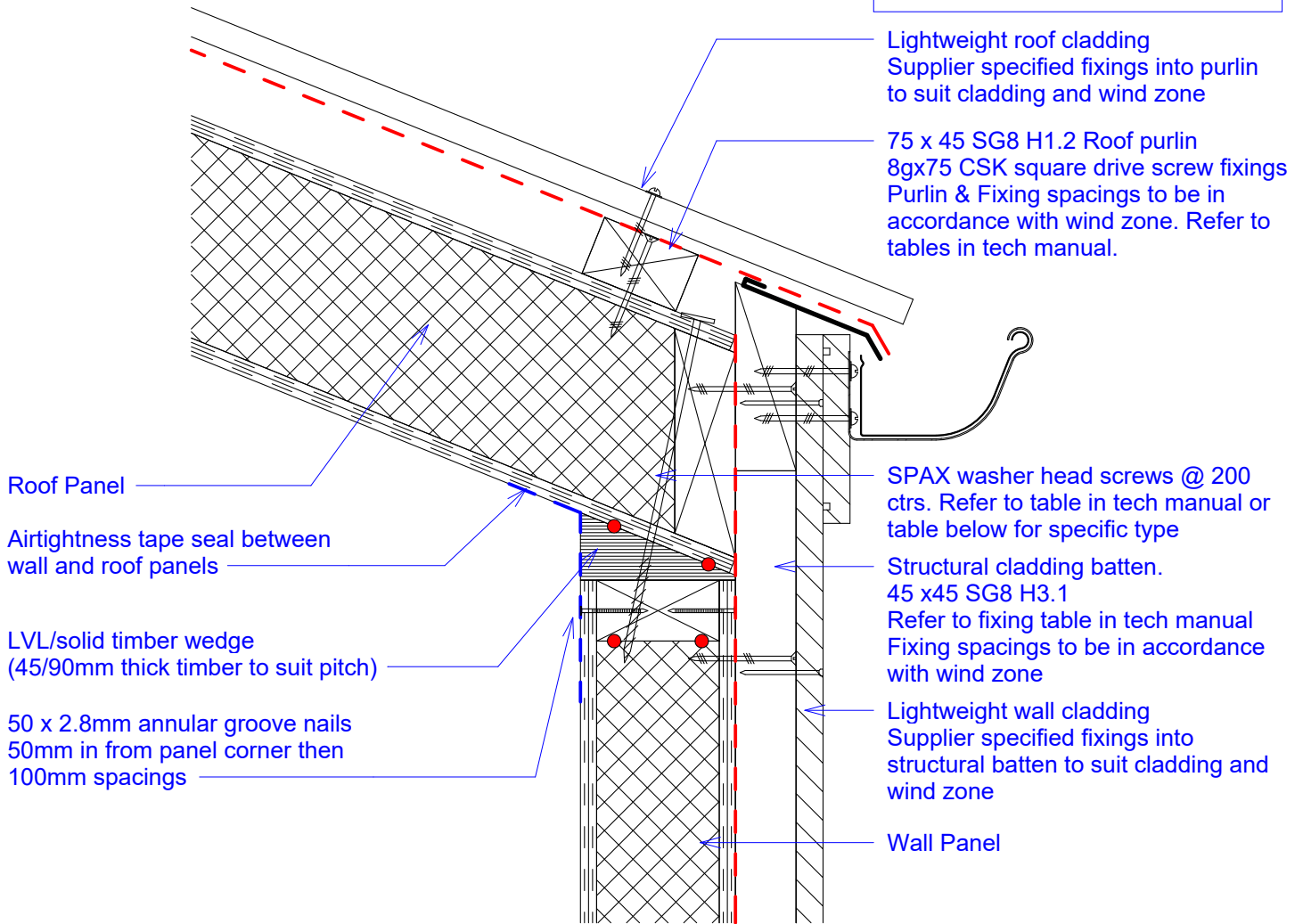
All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

PROJECT				Standard Details	
SHEET				Roof Plan	
CLIENT				NZSIP	
Date	Project number	Scale (@ A4)			
May 2018	NZSIP	1 : 20			
Drawn by	DRAWING NUMBER			REV	
NZSIP	SIP501			4	
Checked by					

No.	Description	Date
4	INFO	07/07/2021
3	INFO	16/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

If roof overhangs are required, these should be formed using purlins and/or outriggers as per NZS3604 10.2.1.15 or SED

Flexible roof & wall underlay must comply with NZBC acceptable solution E2/AS1 table 23 or a breather type membrane covered by a valid BRANZ appraisal for use as a roof & wall underlay.



**SPAX washer head screws fixing schedule**

Washer Head type screws for fixing roof panels, wall panels and beams together are selected from the following.

115 mm thick panel 160 mm x 8 mm  
(corner, internal wall or gable connection)

165 mm thick panel 220 mm x 8 mm  
(corner, internal wall, gable or roof beam connection)

165 mm thick Roof at maximum 30° Roof pitch 280 mm x 10 mm (eave or roof beam connection)

215 mm thick Roof at maximum 30° Roof pitch 320 mm x 10 mm (eave or roof beam connection)

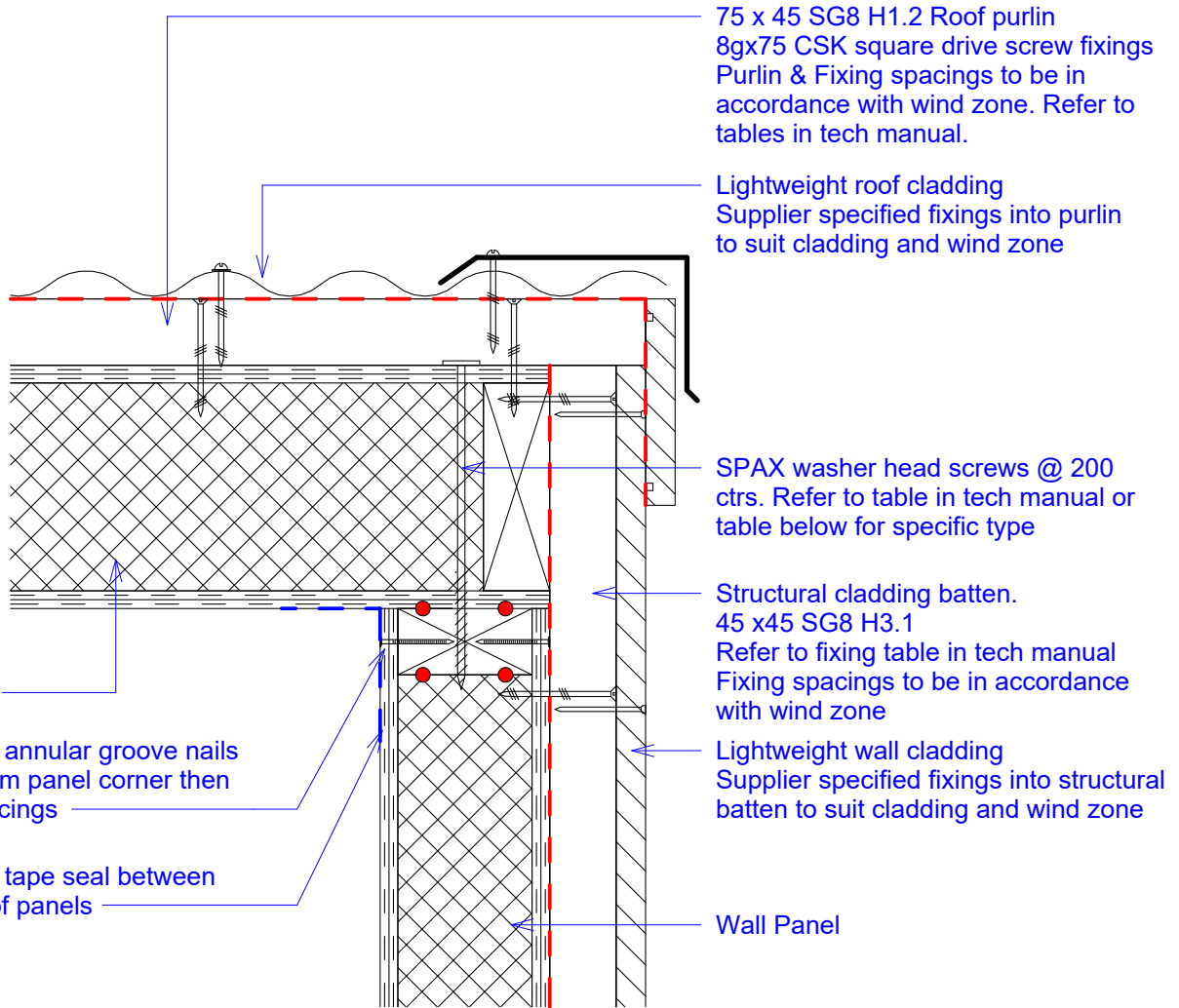
All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
6	INFO	07/07/2021
5	INFO	12/08/2019
4	INFO	29/07/2019
3	INFO	16/07/2019

PROJECT <b>Standard Details</b>		
SHEET <b>Roof/Wall - Eave</b>		
CLIENT <b>NZSIP</b>		
Date May 2018	Project number NZSIP	Scale (@ A4) As indicated
Drawn by NZSIP	DRAWING NUMBER	REV
Checked by NZSIP	<b>SIP502</b>	<b>6</b>

If roof overhangs are required, these should be formed using purlins and/or outriggers as per NZS3604 10.2.1.15 or SED

Flexible roof & wall underlay must comply with NZBC acceptable solution E2/AS1 table 23 or a breather type membrane covered by a valid BRANZ appraisal for use as a roof & wall underlay.



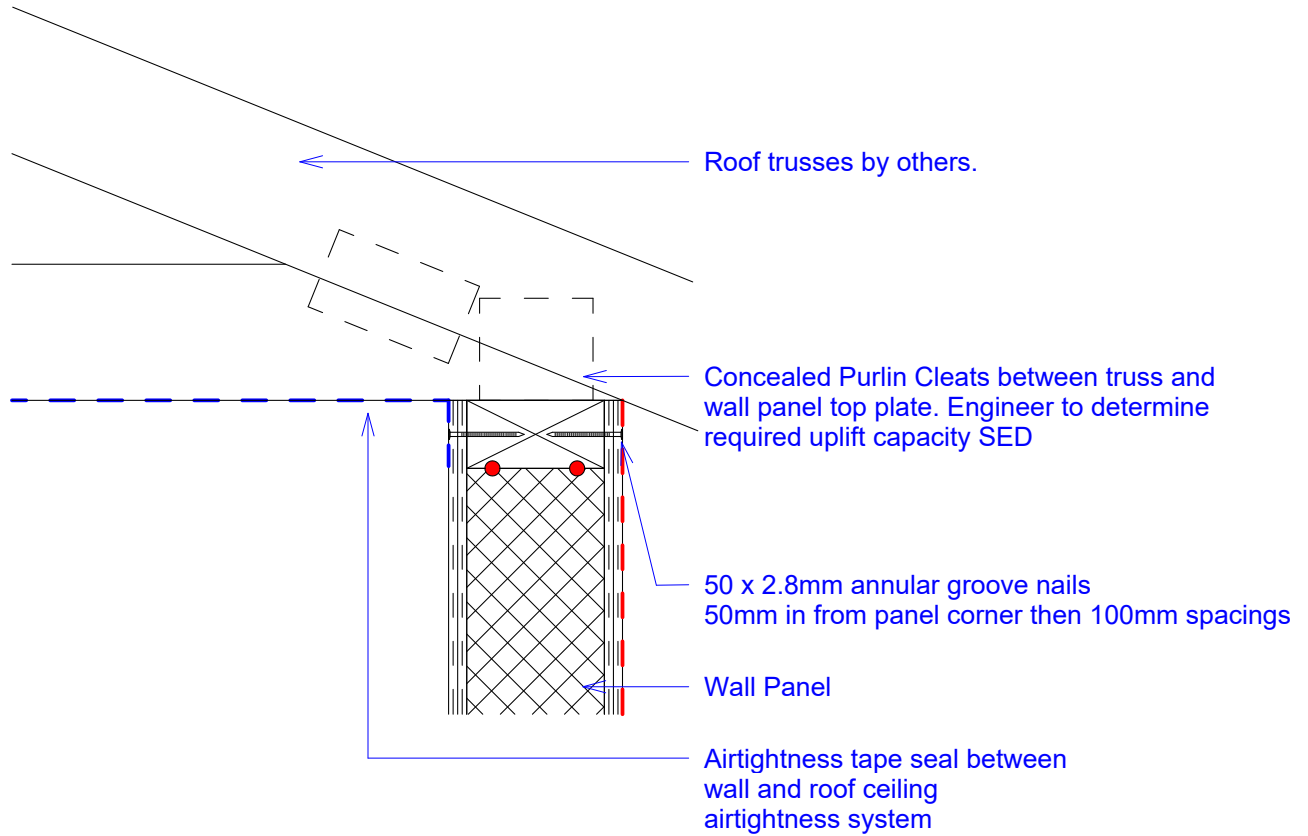
<b>SPAX washer head screws fixing schedule</b>	
Washer Head type screws for fixing roof panels, wall panels and beams together are selected from the following.	
115 mm thick panel 160 mm x 8 mm (corner, internal wall or gable connection)	165 mm thick Roof at maximum 30° Roof pitch 280 mm x 10 mm (eave or roof beam connection)
165 mm thick panel 220 mm x 8 mm (corner, internal wall, gable or roof beam connection)	215 mm thick Roof at maximum 30° Roof pitch 320 mm x 10 mm (eave or roof beam connection)

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

PROJECT <b>Standard Details</b>		
SHEET <b>Roof/Wall - Gable</b>		
CLIENT <b>NZSIP</b>		
Date May 2018	Project number NZSIP	Scale (@ A4) As indicated
Drawn by NZSIP	DRAWING NUMBER	
Checked by NZSIP	<b>SIP504</b>	
		REV <b>6</b>

No.	Description	Date
6	INFO	07/07/2021
5	INFO	12/08/2019
4	INFO	29/07/2019
3	INFO	16/07/2019





All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

PROJECT <b>Standard Details</b>			
SHEET <b>Roof/Wall - Eave Truss Roof</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP506</b>		<b>3</b>

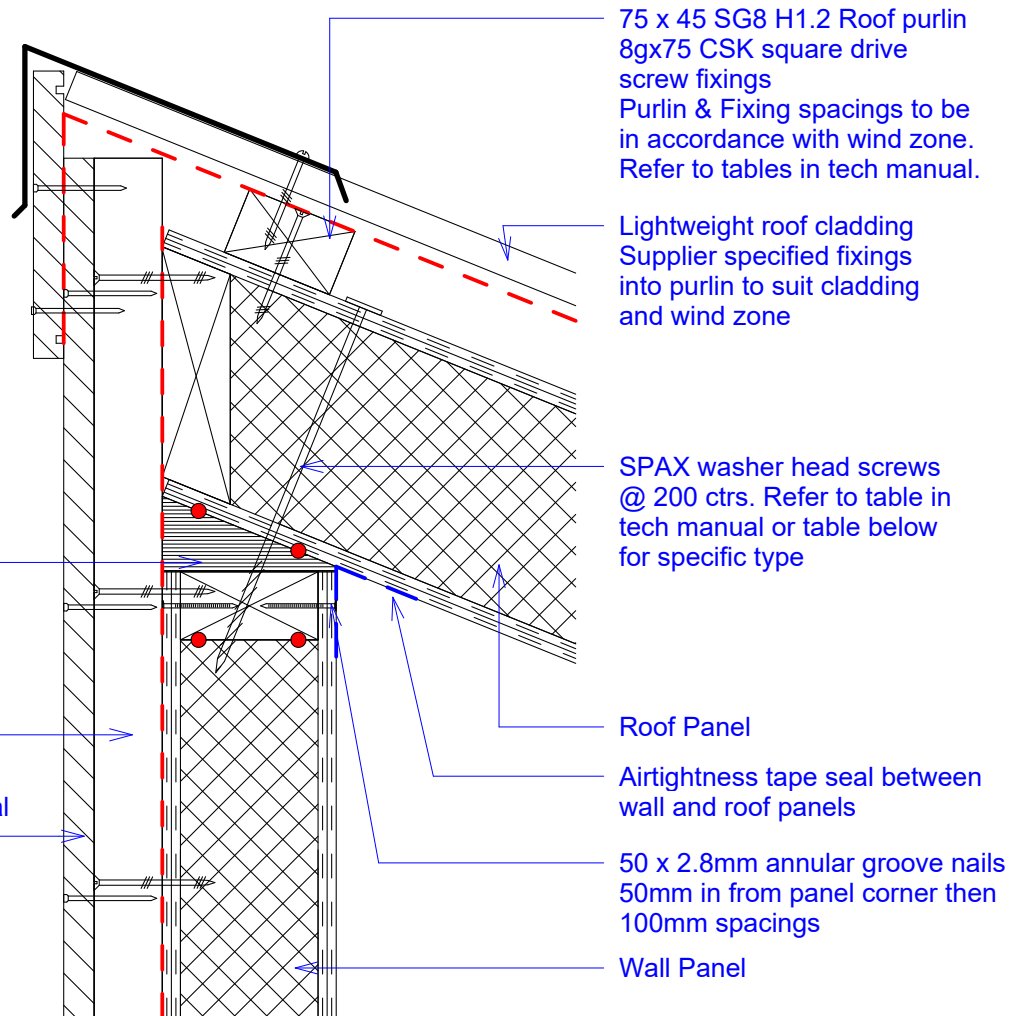
No.	Description	Date
3	INFO	07/07/2021
2	INFO	13/05/2019
1	INFO	21/05/2018

Flexible roof & wall underlay must comply with NZBC acceptable solution E2/AS1 table 23 or a breather type membrane covered by a valid BRANZ appraisal for use as a roof & wall underlay.

LVL/solid timber wedge (45/90mm thick timber to suit pitch)

Structural cladding batten. 45 x45 SG8 H3.1  
Refer to fixing table in tech manual  
Fixing spacings to be in accordance with wind zone

Lightweight wall cladding  
Supplier specified fixings into structural batten to suit cladding and wind zone

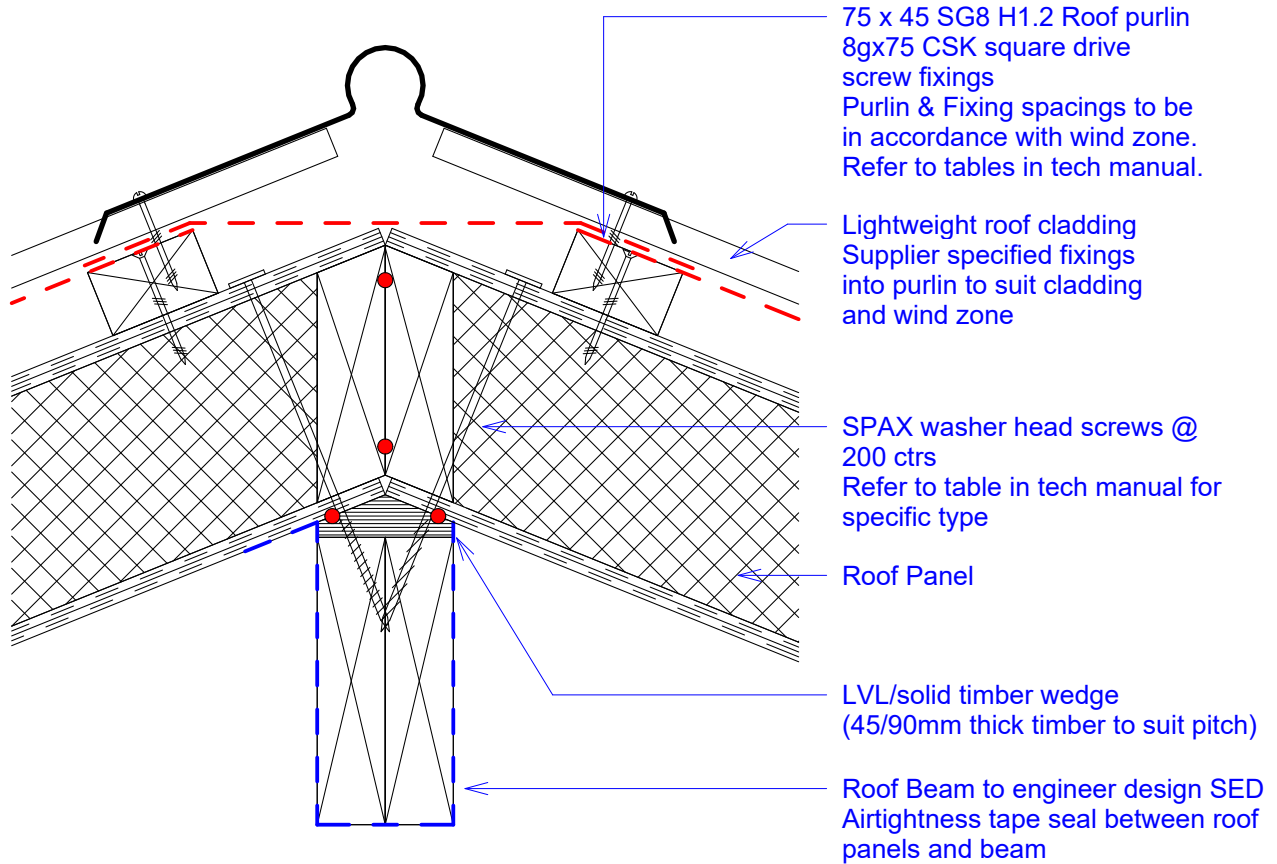


<u>SPAX washer head screws fixing schedule</u>	
Washer Head type screws for fixing roof panels, wall panels and beams together are selected from the following.	165 mm thick Roof at maximum 30° Roof pitch 280 mm x 10 mm (eave or roof beam connection)
115 mm thick panel 160 mm x 8 mm (corner, internal wall or gable connection)	215 mm thick Roof at maximum 30° Roof pitch 320 mm x 10 mm (eave or roof beam connection)
165 mm thick panel 220 mm x 8 mm (corner, internal wall, gable or roof beam connection)	

<p>All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.</p>		PROJECT <b>Standard Details</b>	
		SHEET <b>Roof/Wall - Ridge</b>	
		CLIENT <b>NZSIP</b>	
		Date May 2018	Project number NZSIP
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP510</b>		<b>5</b>

No.	Description	Date
5	INFO	07/07/2021
4	INFO	12/08/2019
3	INFO	29/07/2019
2	INFO	13/05/2019

Flexible roof & wall underlay must comply with NZBC acceptable solution E2/AS1 table 23 or a breather type membrane covered by a valid BRANZ appraisal for use as a roof & wall underlay.



**SPAX washer head screws fixing schedule**

Washer Head type screws for fixing roof panels, wall panels and beams together are selected from the following.

115 mm thick panel 160 mm x 8 mm  
(corner, internal wall or gable connection)

165 mm thick panel 220 mm x 8 mm  
(corner, internal wall, gable or roof beam connection)

165 mm thick Roof at maximum 30° Roof pitch 280 mm x 10 mm (eave or roof beam connection)

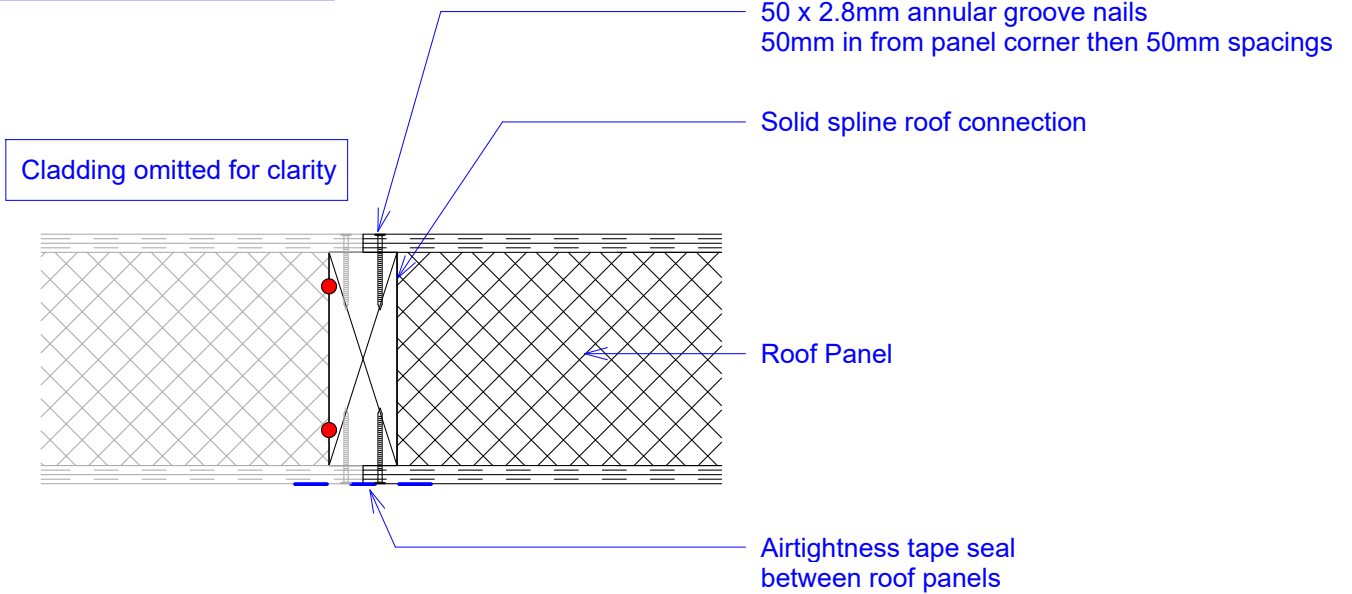
215 mm thick Roof at maximum 30° Roof pitch 320 mm x 10 mm (eave or roof beam connection)

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

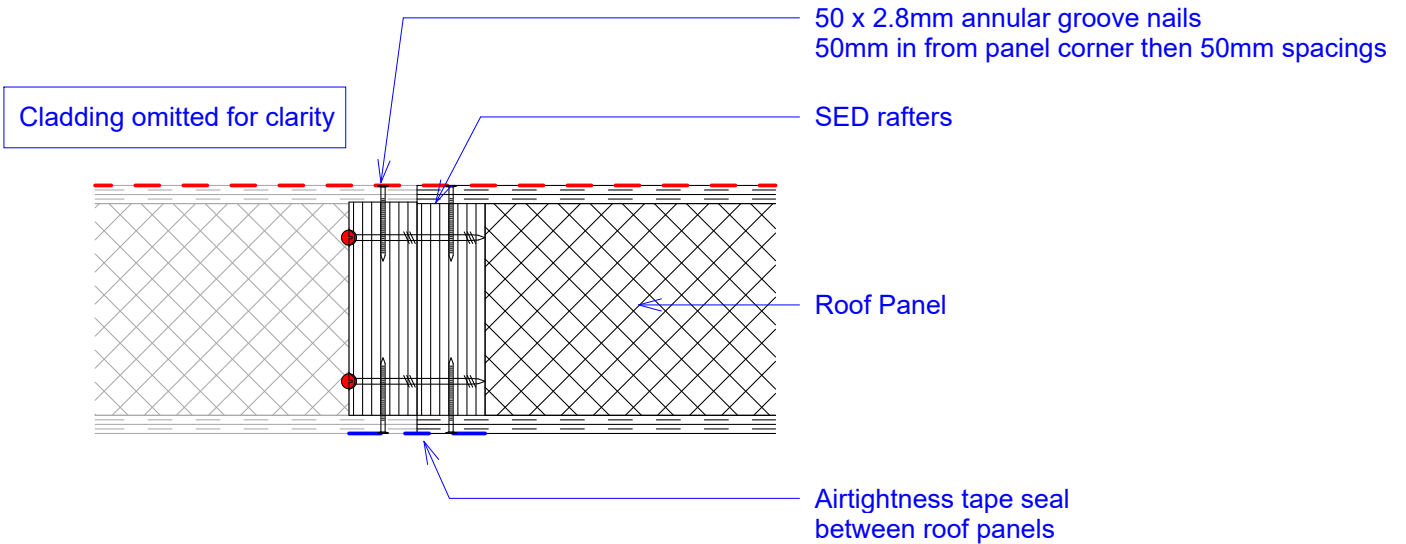
No.	Description	Date
4	INFO	12/08/2019
3	INFO	29/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>Ridge beam</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) As indicated	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP511</b>		<b>4</b>

THIS IS THE STANDARD METHOD OF CONNECTING ROOF PANELS USING SPAN TABLES



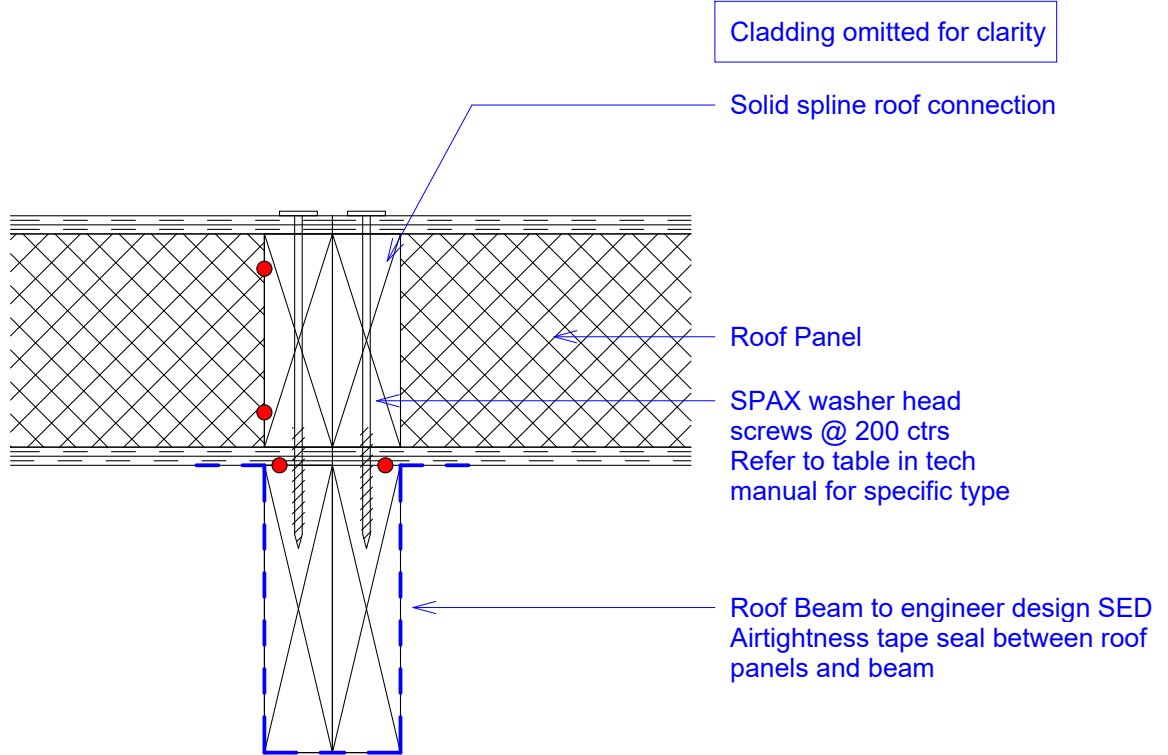
ALTERNATIVE METHOD OF CONNECTING ROOF PANELS WITH SED SPANS



All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
4	INFO	07/07/2021
3	INFO	16/07/2019
2	INFO	13/05/2019
1	INFO	21/05/2018

PROJECT <b>Standard Details</b>			
SHEET <b>Roof Junction</b>			
CLIENT <b>NZSIP</b>			
Date May 2018	Project number NZSIP	Scale (@ A4) 1 : 5	
Drawn by NZSIP	DRAWING NUMBER		REV
Checked by NZSIP	<b>SIP521</b>		<b>4</b>



**SPAX washer head screws fixing schedule**

Washer Head type screws for fixing roof panels, wall panels and beams together are selected from the following.

115 mm thick panel 160 mm x 8 mm  
(corner, internal wall or gable connection)

165 mm thick panel 220 mm x 8 mm  
(corner, internal wall, gable or roof beam connection)

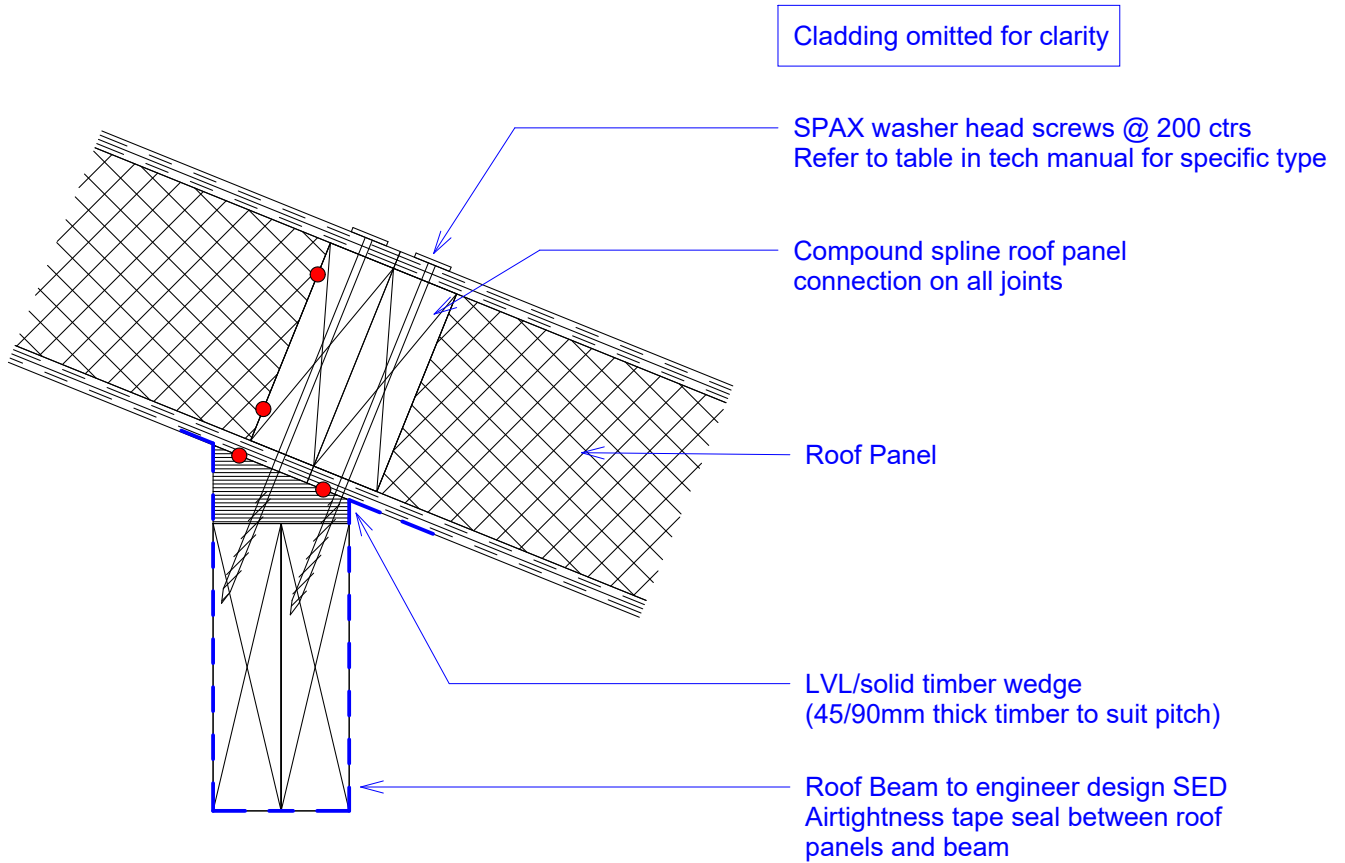
165 mm thick Roof at maximum 30° Roof pitch 280 mm x 10 mm (eave or roof beam connection)

215 mm thick Roof at maximum 30° Roof pitch 320 mm x 10 mm (eave or roof beam connection)

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
5	INFO	12/08/2019
4	INFO	29/07/2019
3	INFO	16/07/2019
2	INFO	13/05/2019

PROJECT <b>Standard Details</b>		
SHEET <b>Roof Junction - Beam square</b>		
CLIENT <b>NZSIP</b>		
Date May 2018	Project number NZSIP	Scale (@ A4) As indicated
Drawn by NZSIP	DRAWING NUMBER <b>SIP525</b>	REV <b>5</b>
Checked by NZSIP		



**SPAX washer head screws fixing schedule**

Washer Head type screws for fixing roof panels, wall panels and beams together are selected from the following.

115 mm thick panel 160 mm x 8 mm  
(corner, internal wall or gable connection)

165 mm thick panel 220 mm x 8 mm  
(corner, internal wall, gable or roof beam connection)

165 mm thick Roof at maximum 30° Roof pitch 280 mm x 10 mm (eave or roof beam connection)

215 mm thick Roof at maximum 30° Roof pitch 320 mm x 10 mm (eave or roof beam connection)

All work to be in accordance with current NZ Standards unless otherwise noted. Drawings to be read in conjunction with specifications, engineers and other consultant drawings. Engineer's drawings take priority on all structural matters. Contractors shall verify all conditions and dimensions on site and notify New Zealand Structural Insulated Panels Limited (NZSIP) of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Any changes without the approval of NZSIP and/or the local building authority in writing shall void NZSIP of all contractual obligations.

No.	Description	Date
5	INFO	12/08/2019
4	INFO	29/07/2019
3	INFO	16/07/2019
2	INFO	13/05/2019

PROJECT <b>Standard Details</b>		
SHEET <b>Roof Junction - Beam angled</b>		
CLIENT <b>NZSIP</b>		
Date May 2018	Project number NZSIP	Scale (@ A4) As indicated
Drawn by NZSIP	DRAWING NUMBER	
Checked by NZSIP	<b>SIP526</b>	REV <b>5</b>