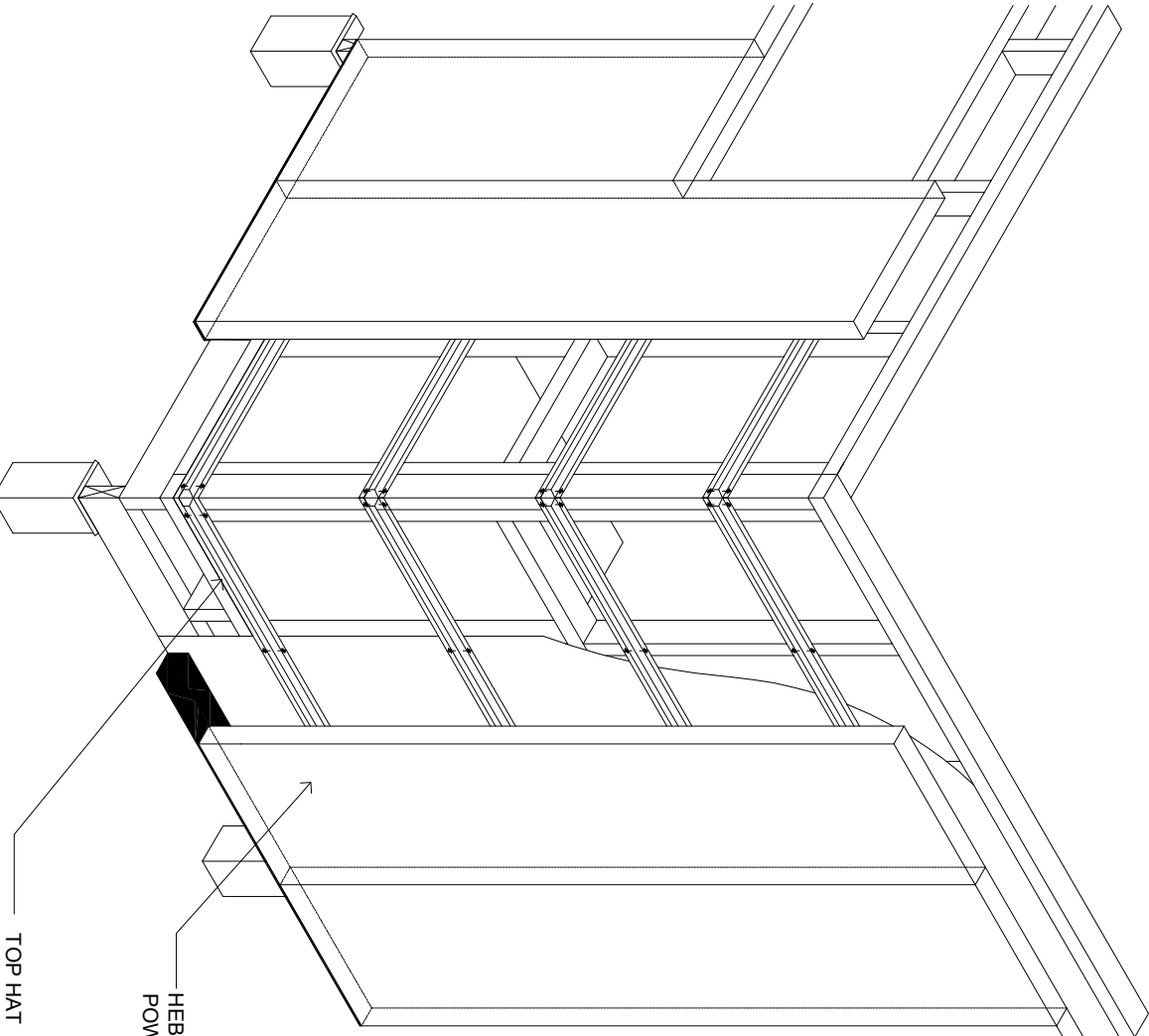
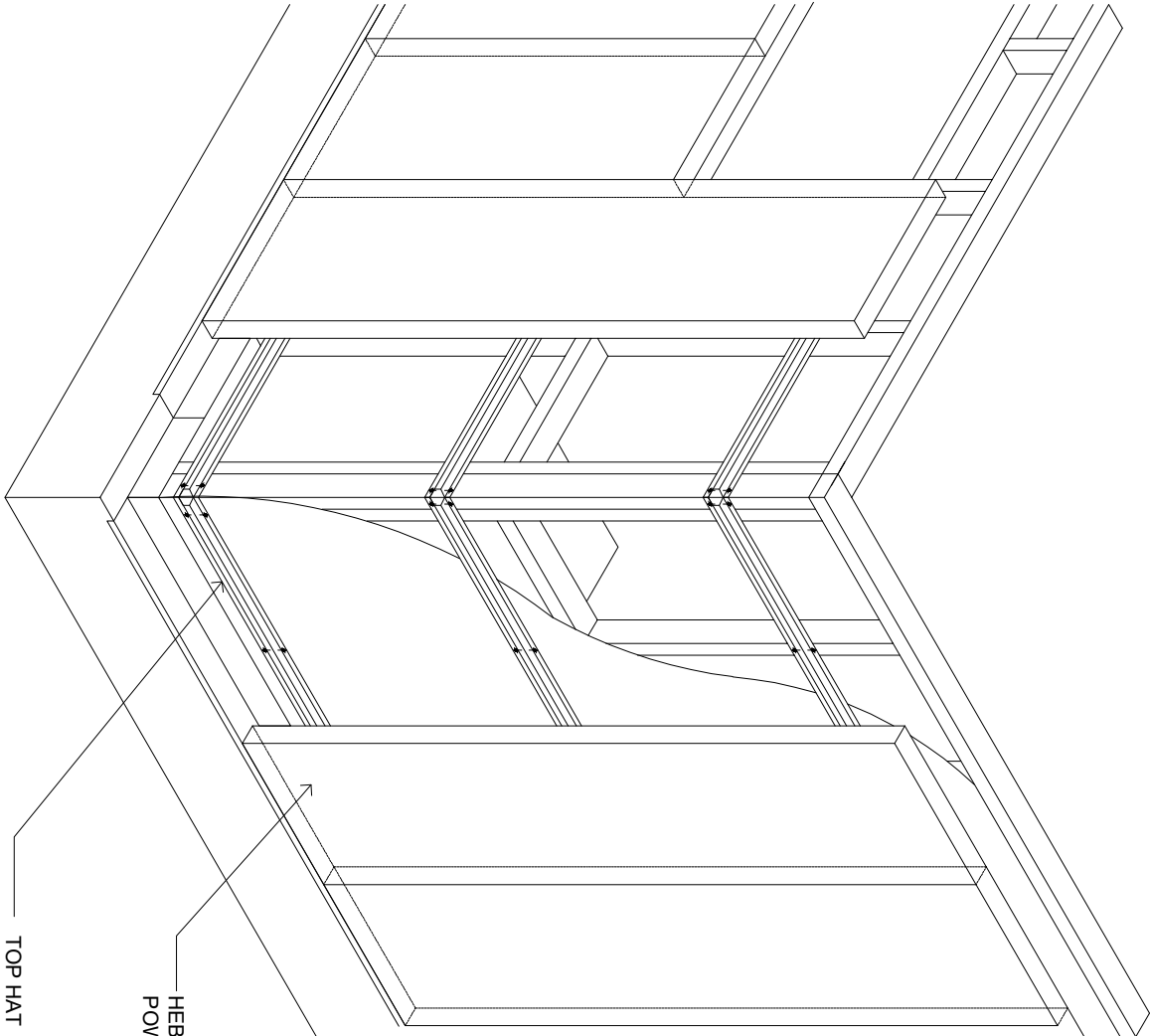




SINGLE STOREY CONSTRUCTION DETAILS  
INSTALLING HEBEL POWERPANEL<sup>XL</sup>



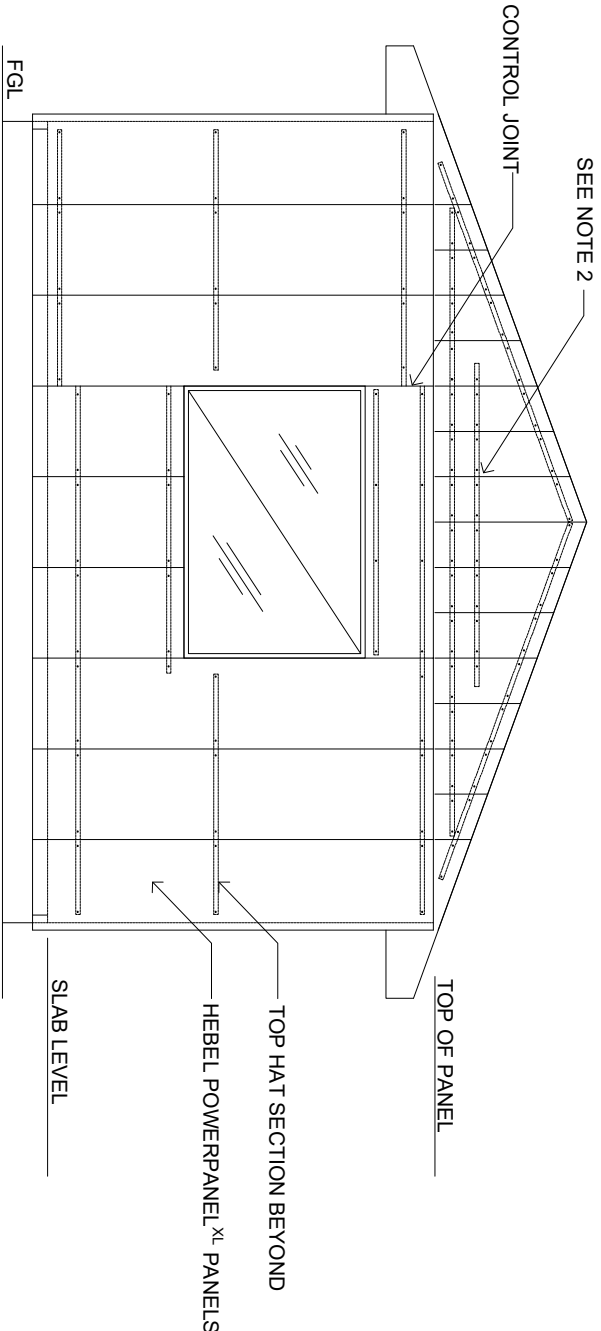
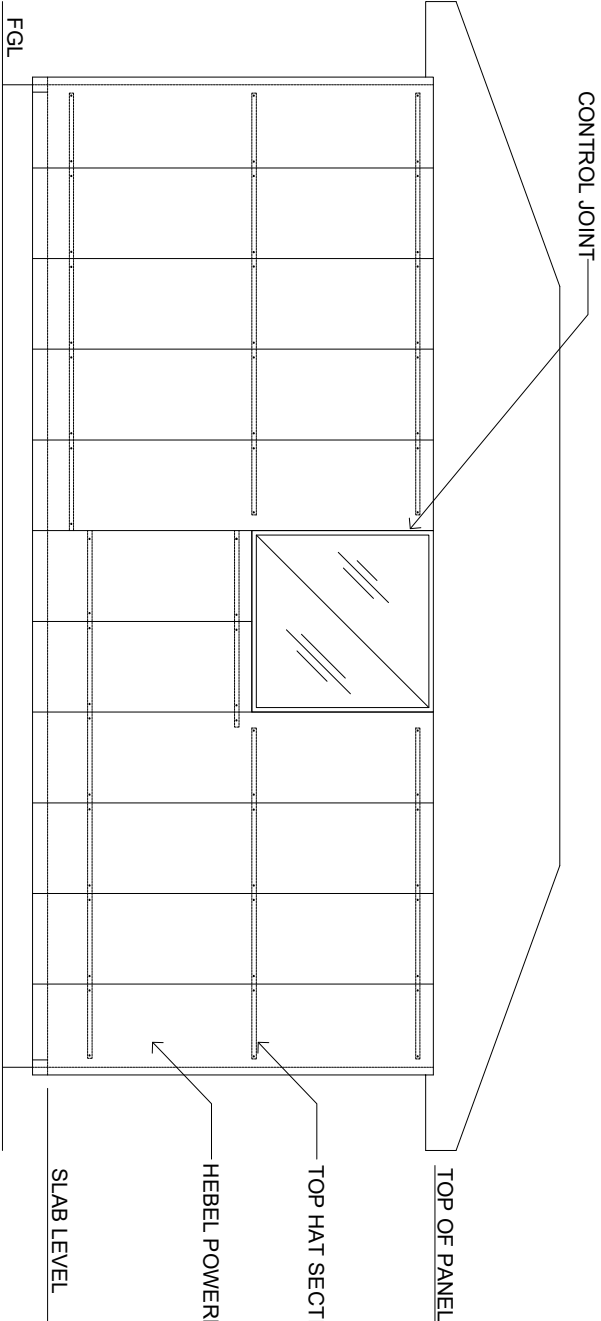
SINGLE STOREY CONSTRUCTION - ISOMETRIC VIEW DETAIL  
PANEL SUPPORTED AT BASE  
NTS

SINGLE STOREY CONSTRUCTION - ISOMETRIC VIEW DETAIL  
PANEL SUSPENDED  
NTS

- NOTE
- 1. THIS DETAIL IS NOT CONSIDERED TO ACHIEVE A FIRE RATING LEVEL.
  - 2. THE LIGHT GAUGE STEEL ANGLE IS FOR THE PURPOSE OF CLOSING THE CAVITY AT THE BASE OF THE WALL.

<div><div></div><div><div>CSR BUILDING PRODUCTS LTD</div><div>HEAD OFFICE: 111-113 BENTLEY ROAD, NORTH RYDE NSW 2113 LOCKED BAG 1345, NORTH RYDE NSW 1570 A.B.N. 55 008 631 356 Ph: 1300 369 448 www.hebelaustralia.com.au</div></div></div> <div><div></div><div><div>The better way to build</div><div>CSR Building Products Limited</div><div>1 to 13 Melbourne Park Road Sydney NSW 2000 Ph: 02 4363 3300 Fax: 02 4363 3300 A.B.N. 55 008 631 356</div></div></div>				FIGURE 3.6.1.1 - 3.6.1.2	TITLE SINGLE STOREY CONSTRUCTION DETAILS			
				DESIGN GUIDE REFERENCE HELT016APRIL 19	SCALE NTS @ A3	SHEET SIZE A3	DRAWN HT	DATE 08.06.19
						SHEET NO. 1 of 4	CHECK ZK	REVISION D

SINGLE STOREY CONSTRUCTION DETAILS  
INSTALLING HEBEL POWERPANEL XL



SINGLE STOREY CONSTRUCTION - HIP ROOF ELEVATION

SCALE: 1:50

SINGLE STOREY CONSTRUCTION - GABLE END ELEVATION

SCALE 1:50

- NOTE
1. NUMBER OF TOP HATS AND TOP HAT SPACING TO BE CONFIRMED BY THE BUILDING DESIGNER.
  2. ADDITIONAL TOP HATS MAY BE REQUIRED, FOR SUSPENDED PANELS. REFER TO TABLE 1.2.4 OF HEBEL POWERPANEL XL EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE.
  3. THESE DETAILS HAVE NOT SHOWN THE SET-OUT OF TOP HATS TO ACCOMMODATE CONTROL JOINT LOCATIONS, THIS IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TITLE				FIGURE			
SINGLE STOREY CONSTRUCTION DETAILS				3.6.1.3 - 3.6.1.4			
SCALE				DESIGN GUIDE REFERENCE			
NTS @ A3				HELT016APRIL 19			
SHEET NO				DRAWN			
2 of 4				HT			
CHECK				REVISION			
ZK				D			

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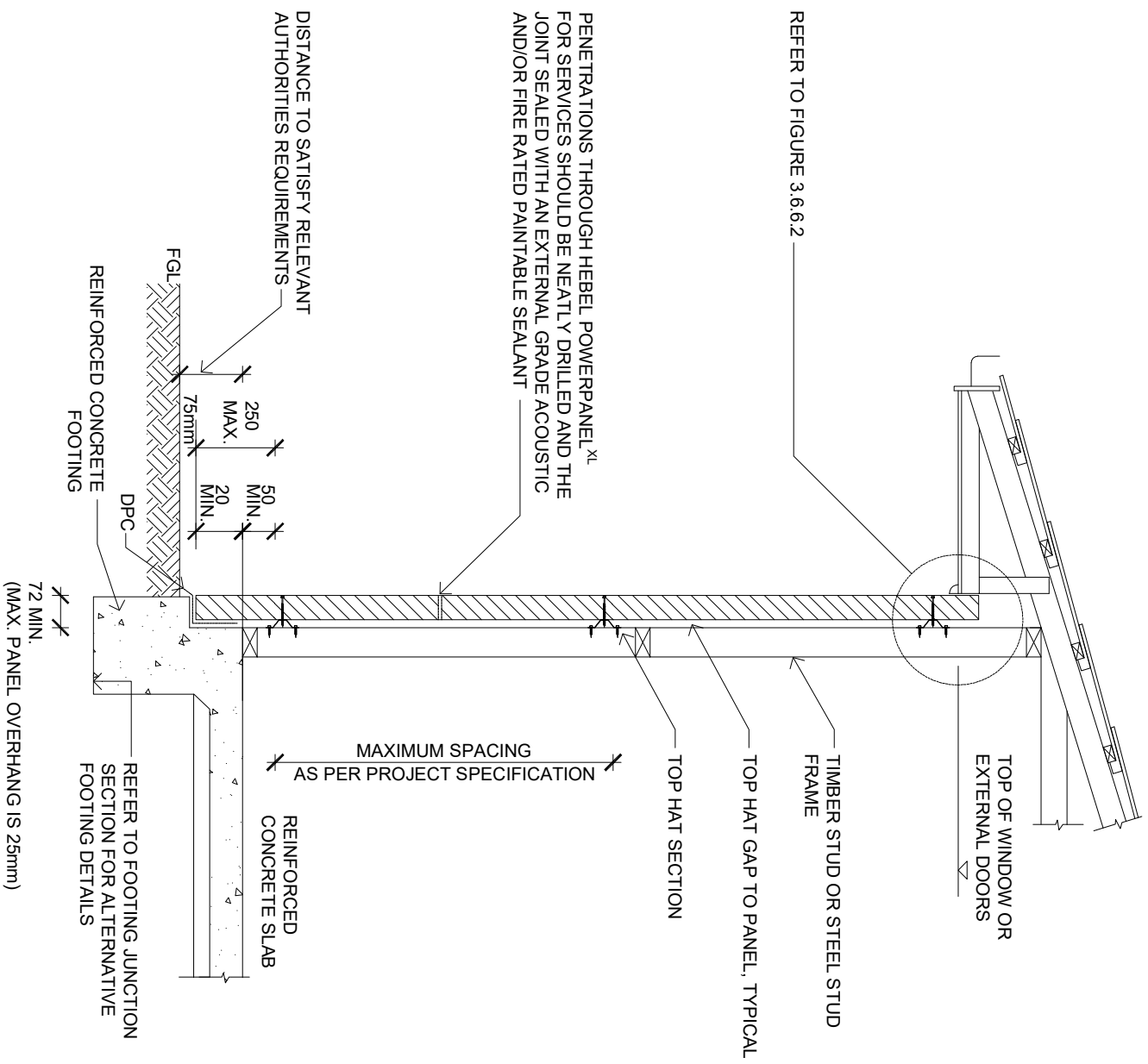
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# INSTALLING HEBEL POWERPANEL<sup>XL</sup>




## SINGLE STOREY CONSTRUCTION - TYPICAL SECTION DETAIL

SCALE 1:20

NOTE

1. THIS SLAB EDGE DETAIL DOES NOT COMPLY WITH THE TERMITE VISIBLE INSPECTION ZONE REQUIREMENTS. ALTERNATE TERMITE MANAGEMENT SYSTEM MUST BE USED WHEN SELECTING THIS DETAIL. IT IS THE RESPONSIBILITY OF THE BUILDER TO PROVIDE A SUITABLE PHYSICAL OR CHEMICAL BARRIER IN ACCORDANCE WITH AS 3660.

2. HEBEL POWERPANEL<sup>XL</sup> PANELS ARE SUPPORTED AT THE BASE ON CONCRETE SLAB EDGE.



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FIGURE

3.6.1.5

TITLE

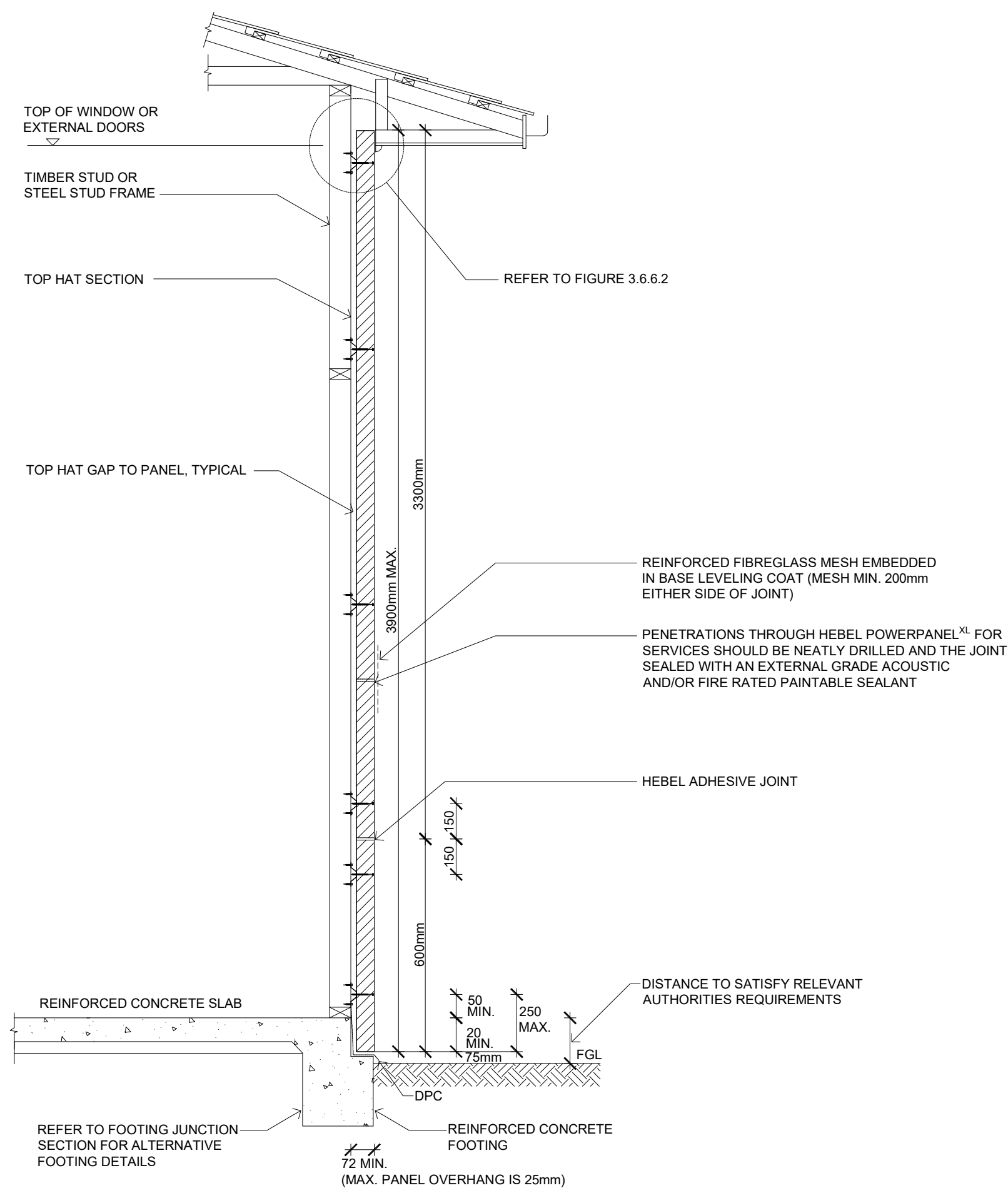
SINGLE STOREY CONSTRUCTION DETAILS

DESIGN GUIDE REFERENCE

HELT1016APRIL19

SCALE	SHEET SIZE	DRAWN	DATE
1:20 @ A3	A3	HIT	08.05.19
SHEET NO.	CHECK	REVISION	
3 of 4	ZK	D	

SINGLE STOREY CONSTRUCTION DETAILS  
INSTALLING HEBEL POWERPANEL<sup>XL</sup>






SINGLE STOREY CONSTRUCTION - HIGH WALL SECTION DETAIL -  
(3900mm MAX)  
SCALE 1:20

NOTE

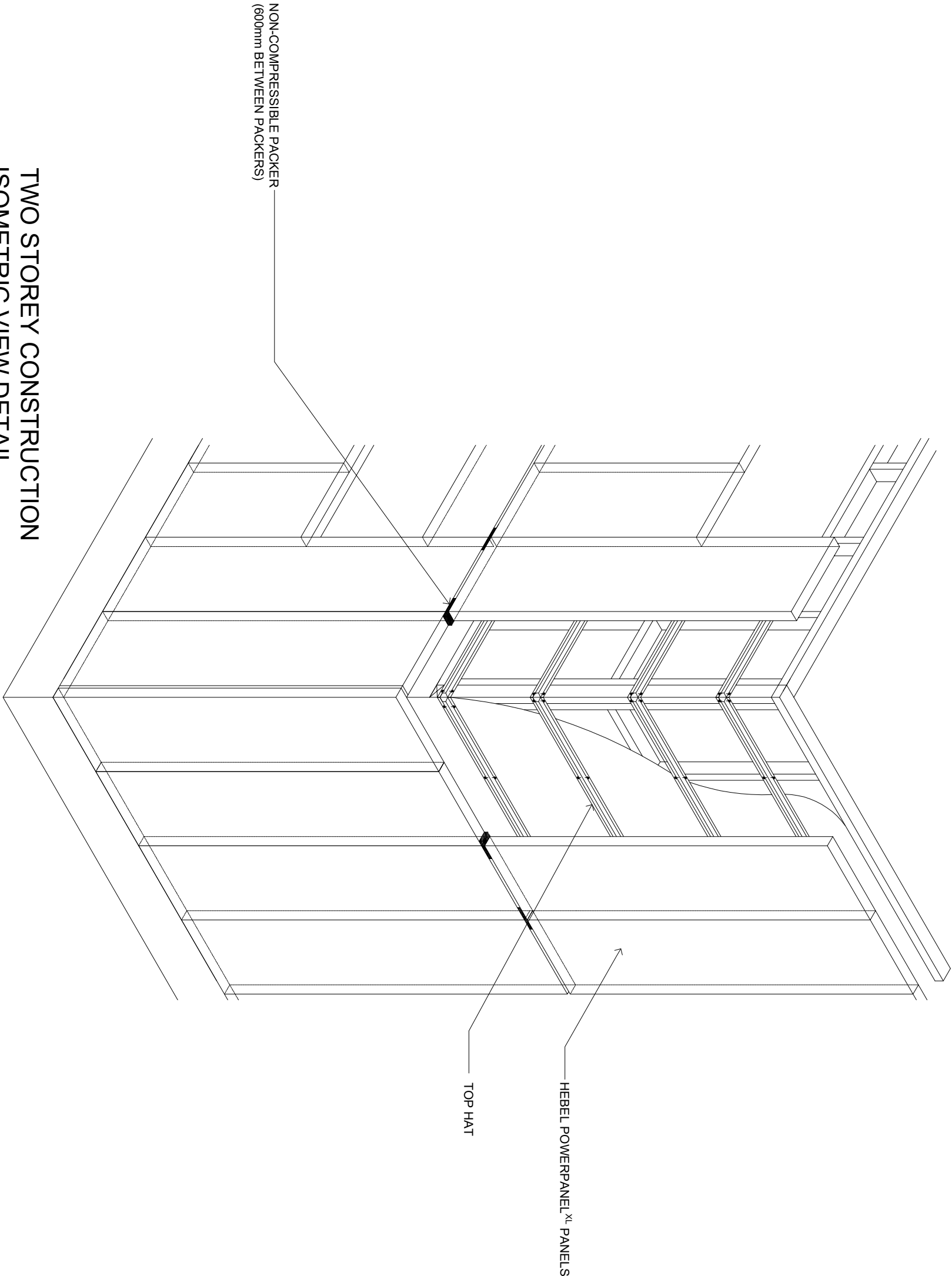
1. THIS SLAB EDGE DETAIL DOES NOT COMPLY WITH THE TERMITE VISIBLE INSPECTION ZONE REQUIREMENTS. ALTERNATE TERMITE MANAGEMENT SYSTEM MUST BE USED WHEN SELECTING THIS DETAIL. IT IS THE RESPONSIBILITY OF THE BUILDER TO PROVIDE A SUITABLE PHYSICAL OR CHEMICAL BARRIER IN ACCORDANCE WITH AS 3660.

2. HEBEL POWERPANEL<sup>XL</sup> PANELS ARE SUPPORTED AT THE BASE ON CONCRETE SLAB EDGE.

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			DESIGN GUIDE REFERENCE HELIT016APRIL19	SCALE 1:20 @ A3	SHEET SIZE A3	DRAWN HT	DATE 08.05.19
					SHEET NO. 4 of 4	CHECK ZK	REVISION D




TWO STOREY CONSTRUCTION DETAILS  
INSTALLING HEBEL POWERPANEL<sup>XL</sup>



TWO STOREY CONSTRUCTION  
ISOMETRIC VIEW DETAIL

NTS

TITLE		TWO STOREY CONSTRUCTION DETAILS		
FIGURE	3.6.2.1	SCALE	SHEET SIZE	
DESIGN GUIDE REFERENCE		NTS @ A3	A3	DRAWN
HELT016APRIL 19			1 of 4	CHECK
				HT
				DATE
				08.06.19
				REVISION
				D




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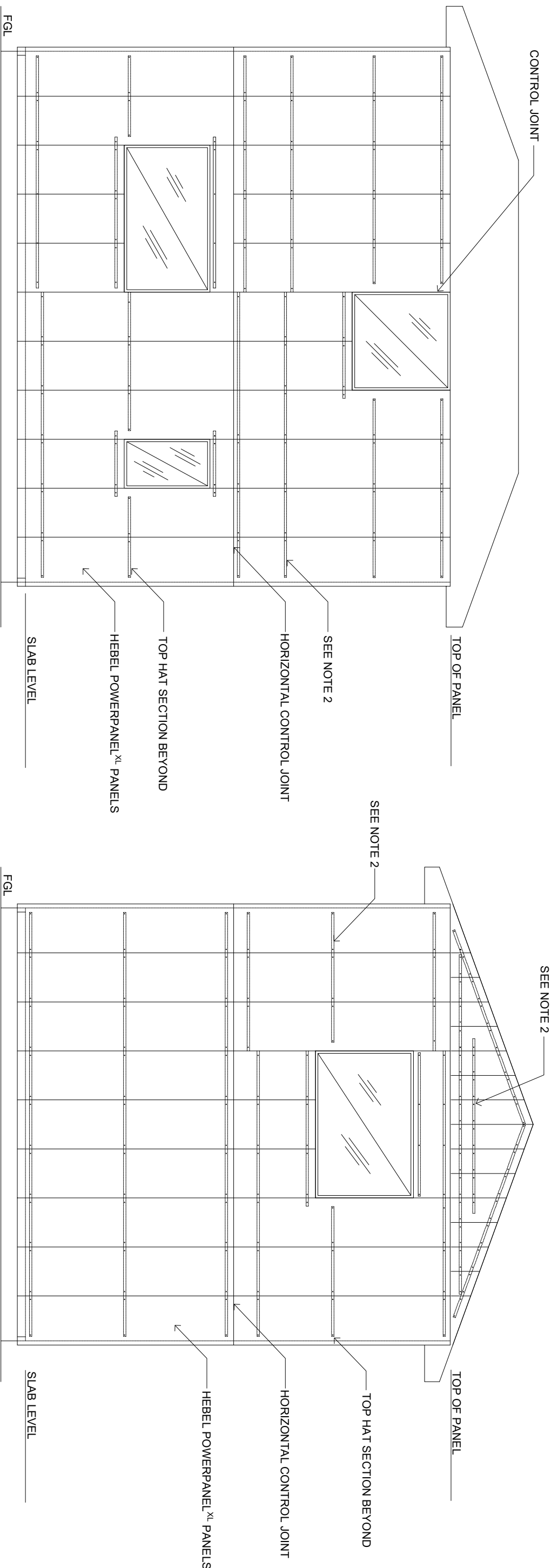
Stoney Creek NSW 2200

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## TWO STOREY CONSTRUCTION DETAILS INSTALLING HEBEL POWERPANEL<sup>XL</sup>



## TWO STOREY CONSTRUCTION - HIP ROOF ELEVATION



SCALE 1:50

## TWO STOREY CONSTRUCTION - GABLE END ELEVATION

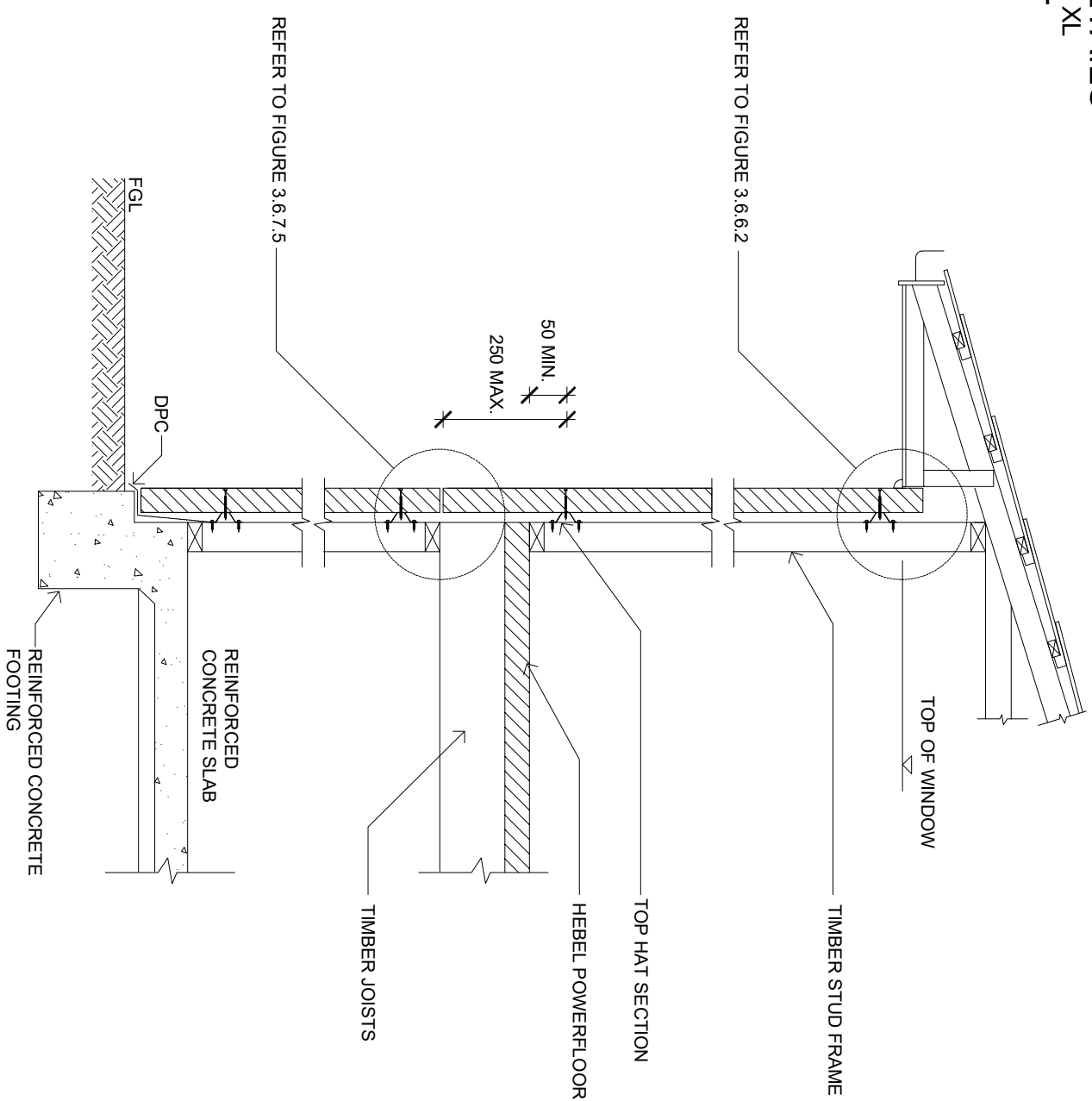
SCALE 1:50

## NOTE

1. NUMBER OF TOP HATS AND TOP HAT SPACING TO BE CONFIRMED BY THE BUILDING DESIGNER.
2. ADDITIONAL TOP HATS MAY BE REQUIRED, FOR SUSPENDED PANELS. REFER TO TABLE 1.2.4.
3. THESE DETAILS HAVE NOT SHOWN THE SET-OUT OF TOP HATS TO ACCOMMODATE CONTROL JOINT LOCATIONS. THIS IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.
4. FRAME DESIGN OF LOWER FLOOR TO ALLOW FOR EXTRA LOAD ON WALL FROM UPPER POWERPANEL<sup>XL</sup> PANELS.
5. MINIMUM FOUR HORIZONTAL TOP HATS REQUIRED FOR UPPER FLOOR POWERPANEL<sup>XL</sup> PANELS.

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 The Better Way To Build CSR Building Products Limited A.B.N. 55 008 631 365		12 Waverley Ferry Road Sydney NSW 2200 Phone: 02-94303300 Fax: 02-94303300	
FIGURE		TITLE	
3.6.2.2 - 3.6.2.3		TWO STOREY CONSTRUCTION DETAILS	
DESIGN GUIDE REFERENCE		STATE	
HELT1016APRIL19		1:50 @ A3	
SHEET NO.		SHEET SIZE	
2 of 4		A3	
CHECK		DRAWN	
ZK		HT	
REVISION		DATE	
D		08.05.19	


## TWO STOREY CONSTRUCTION DETAILS INSTALLING HEBEL POWERPANEL<sup>XL</sup>



TWO STOREY CONSTRUCTION  
TYPICAL TIMBER FRAME SECTION USING JOISTS WITH > 1% SHRINKAGE

SCALE 1:20

NOTE:  
1. LOWER STOREY HEBEL POWERPANEL<sup>XL</sup> PANELS ARE SUPPORTED AT THE BASE ON CONCRETE SLAB EDGE.



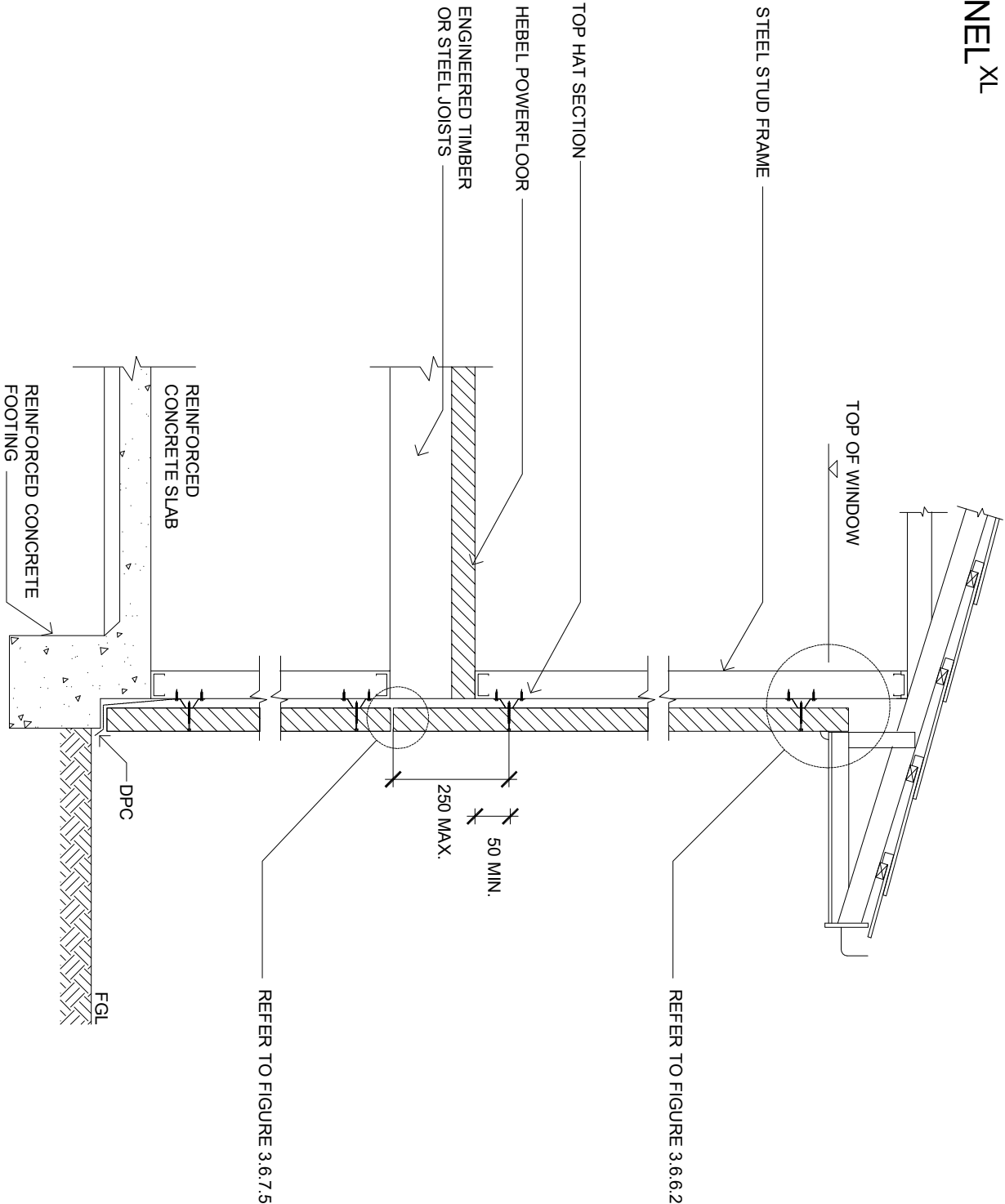
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FIGURE		TITLE										
3.6.2.4		TWO STOREY CONSTRUCTION DETAILS										
DESIGN GUIDE REFERENCE HELT016APRIL19		SCALE 1:20 @ A3	<table style="width: 100%; border-collapse: collapse;"><tr><th style="text-align: left;">SHEET SIZE</th><th style="text-align: left;">DRAIN</th><th style="text-align: left;">DATE</th></tr><tr><td style="text-align: center;">A3</td><td style="text-align: center;">HT</td><td style="text-align: center;">08.05.19</td></tr><tr><td style="text-align: center;">SHEET NO. 3 of 4</td><td style="text-align: center;">CHECK ZK</td><td style="text-align: center;">REVISION D</td></tr></table>	SHEET SIZE	DRAIN	DATE	A3	HT	08.05.19	SHEET NO. 3 of 4	CHECK ZK	REVISION D
SHEET SIZE	DRAIN	DATE										
A3	HT	08.05.19										
SHEET NO. 3 of 4	CHECK ZK	REVISION D										

TWO STOREY CONSTRUCTION DETAILS  
INSTALLING HEBEL POWERPANEL<sup>XL</sup>



TWO STOREY CONSTRUCTION  
STEEL FRAME SECTION OR ENGINEERED JOISTS WITH ≤ 1% SHRINKAGE  
SCALE 1:20

TITLE				FIGURE	
TWO STOREY CONSTRUCTION DETAILS				3.6.2.5	
SCALE				DESIGN GUIDE REFERENCE	
1:20 @ A3				HELI016APRIL 19	
SHEET NO		DRAWN		DATE	
A3		HT		08.05.19	
4 of 4		CHECK		REVISION	
		ZK		D	

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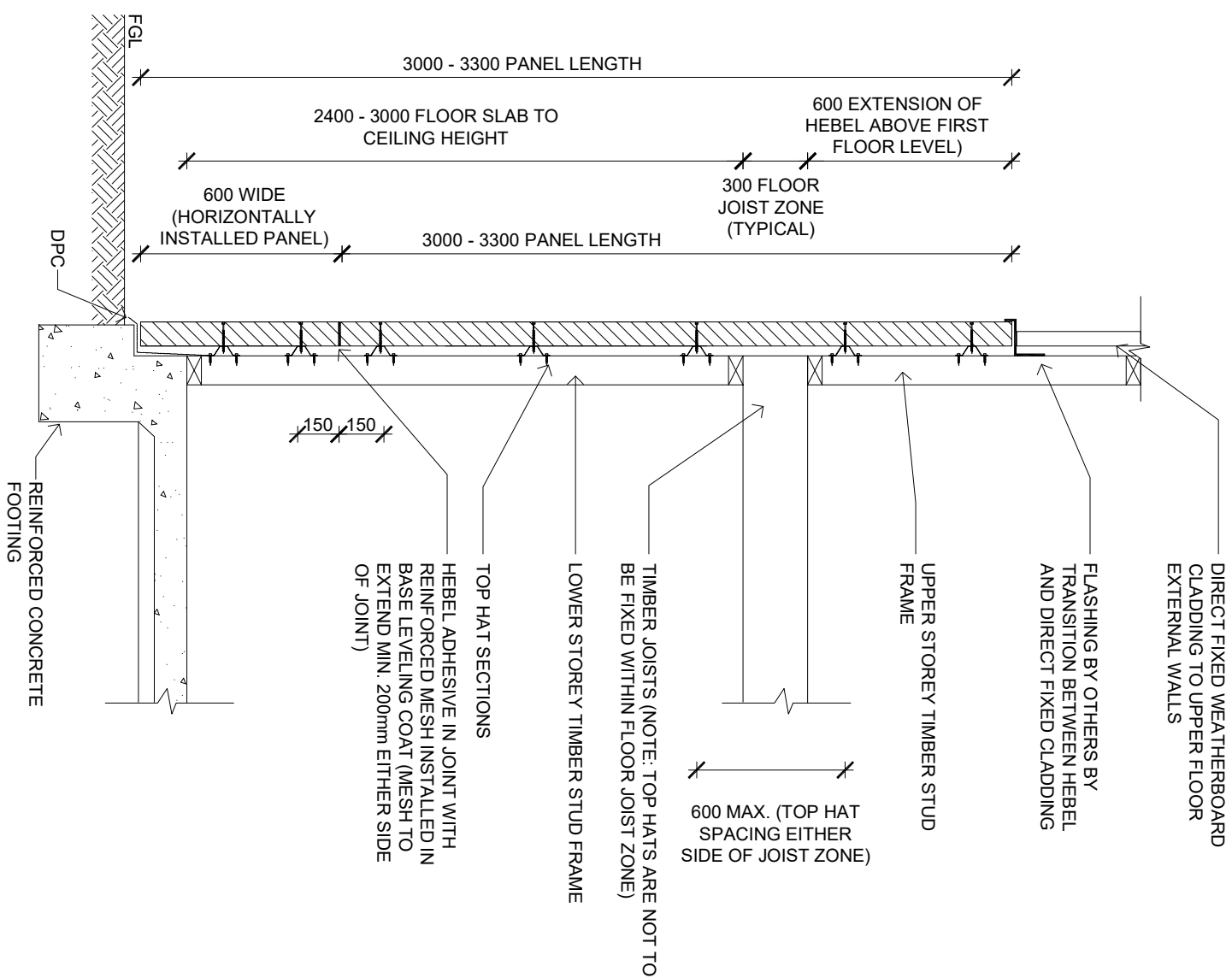
CSR BUILDING PRODUCTS LTD  
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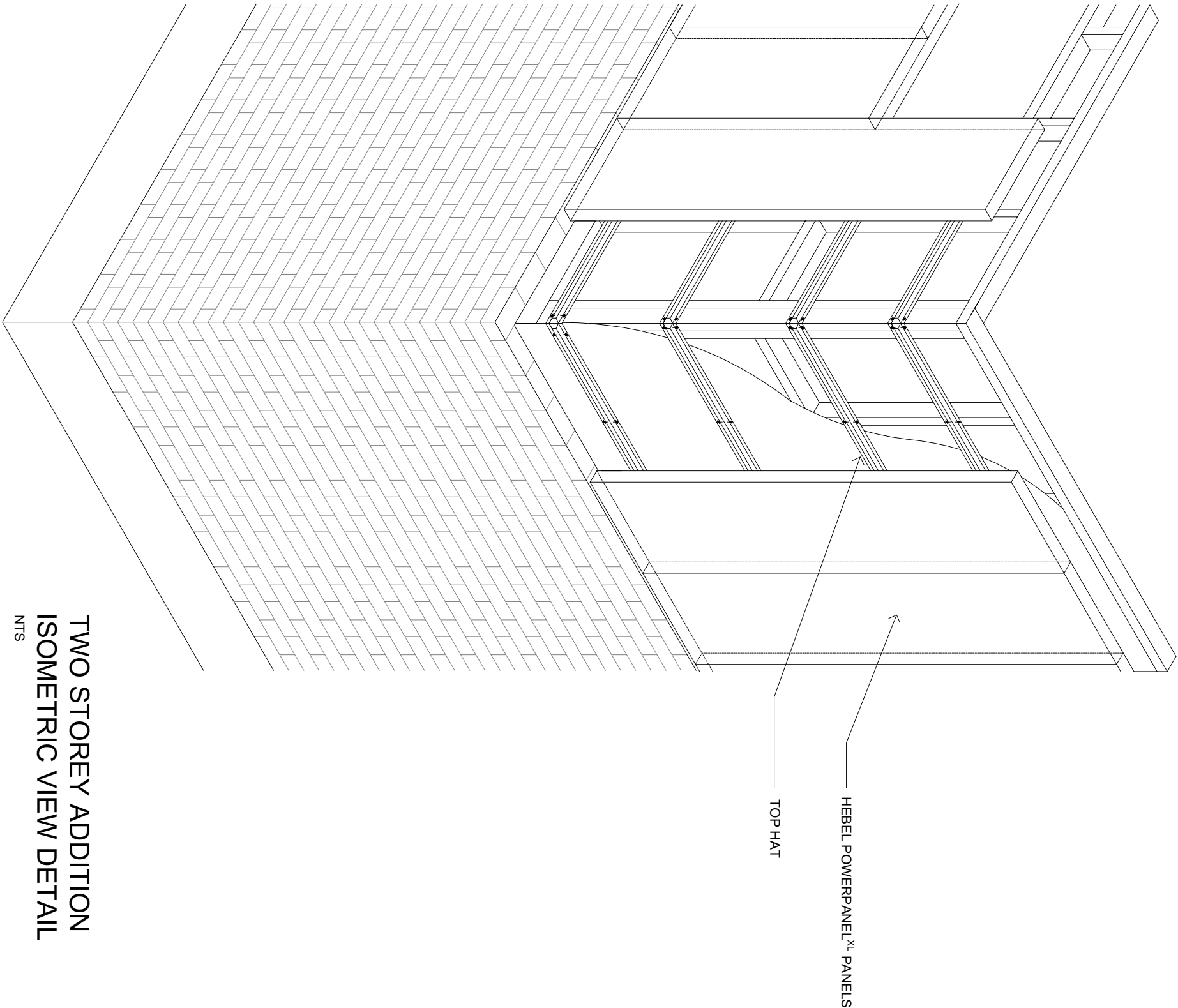
## HEBEL EXTERNAL WALL CLADDING DETAIL EXTENDING ABOVE FIRST FLOOR



TWO STOREY CONSTRUCTION  
HEBEL WALL CLADDING EXTENDING ABOVE FIRST FLOOR  
SCALE 1:20

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Figure 3.6.2.6		TITLE	
DESIGN GUIDE REFERENCE HEL.T1016A.PRIL.19		TWO STOREY ADDITION DETAILS	
SCALE	SHEET SIZE	DRAWN	DATE
NTS @ A3	A3	ZK	08.05.19
SHEET NO.	CHECK	REVISION	
1 of 3	ZK	D	

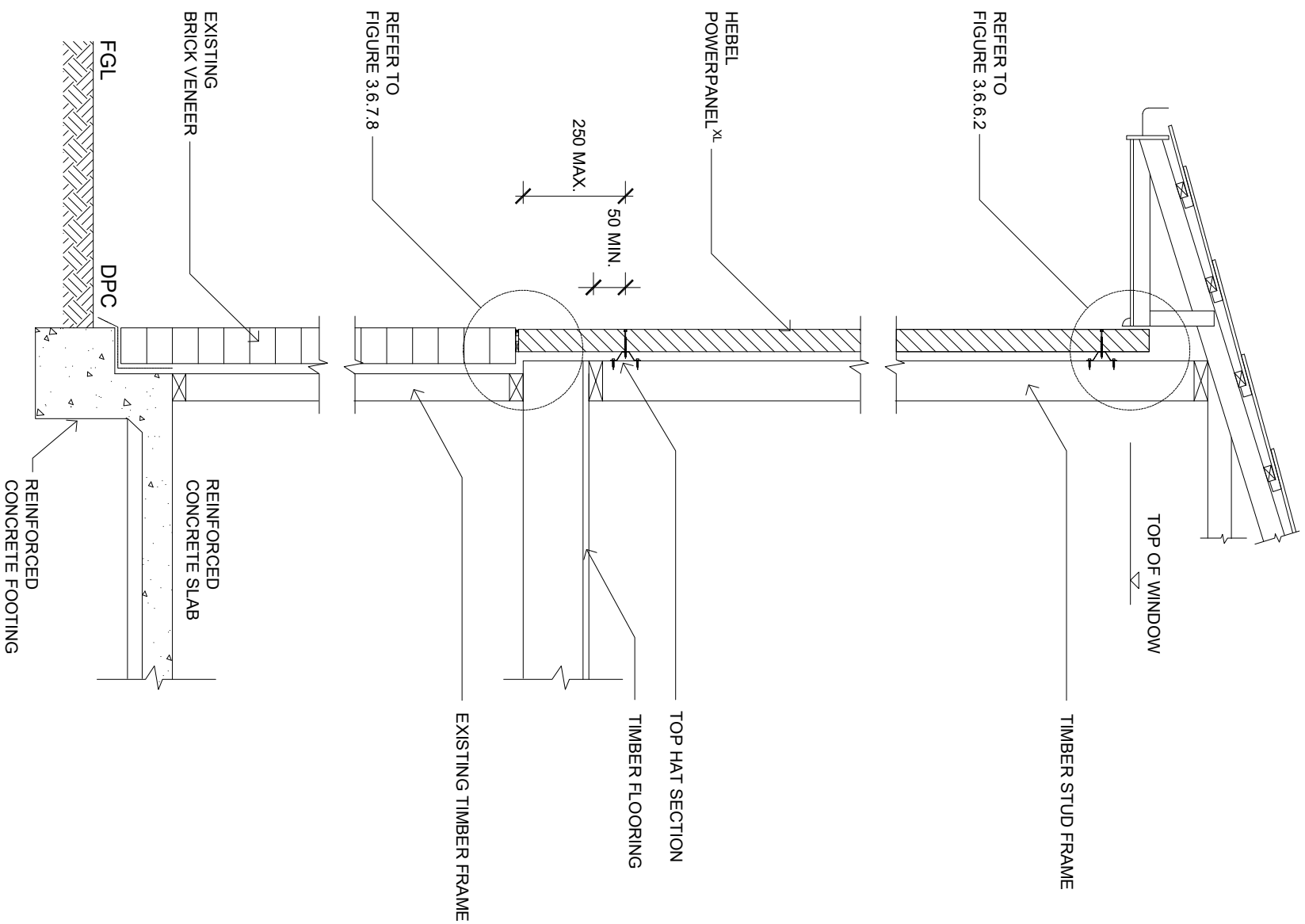
TWO STOREY ADDITION DETAILS  
INSTALLING HEBEL POWERPANEL XL



TWO STOREY ADDITION  
ISOMETRIC VIEW DETAIL  
NTS

<div><div><div>CSR</div><div>CSR BUILDING PRODUCTS LTD</div><div>HEBEL AUSTRALIA PTY LTD LOCKED BAG 136 NORTH RYDE NSW 1570 A.B.N. 55 008 631 356 Ph: 1300 369 448 www.hebelaustralia.com.au</div></div><div><div>hebel</div><div>The better way to build</div><div>CSR Building Products Limited 1 to 13 Melbourne Park Road Sydney NSW 2000 Ph: 02 4363 3300 Fax: 02 4363 3300 A.B.N. 55 008 631 356</div></div></div>		FIGURE 3.0.3.1	TITLE TWO STOREY ADDITION DETAILS			
DESIGN GUIDE REFERENCE HELI1016APRIL 19		SCALE NTS @ A3	SHEET SIZE A3	DRAWN HT	SHEET NO. 1 of 3	DATE 08.05.19
				CHECK ZK		REVISION C


## TWO STOREY ADDITION DETAILS INSTALLING HEBEL POWERPANEL<sup>XL</sup>




**TWO STOREY ADDITIONS - TYPICAL SECTION WITH BRICK VENEER BELOW**

SCALE: 1:20

**NOTE:**  
1. MINIMUM 4 TOP HATS REQUIRED FOR PANELS THAT ARE SUSPENDED OFF THE FRAME. REFER TO TABLE 1.2.4 OF THE DESIGN AND INSTALLATION GUIDE.



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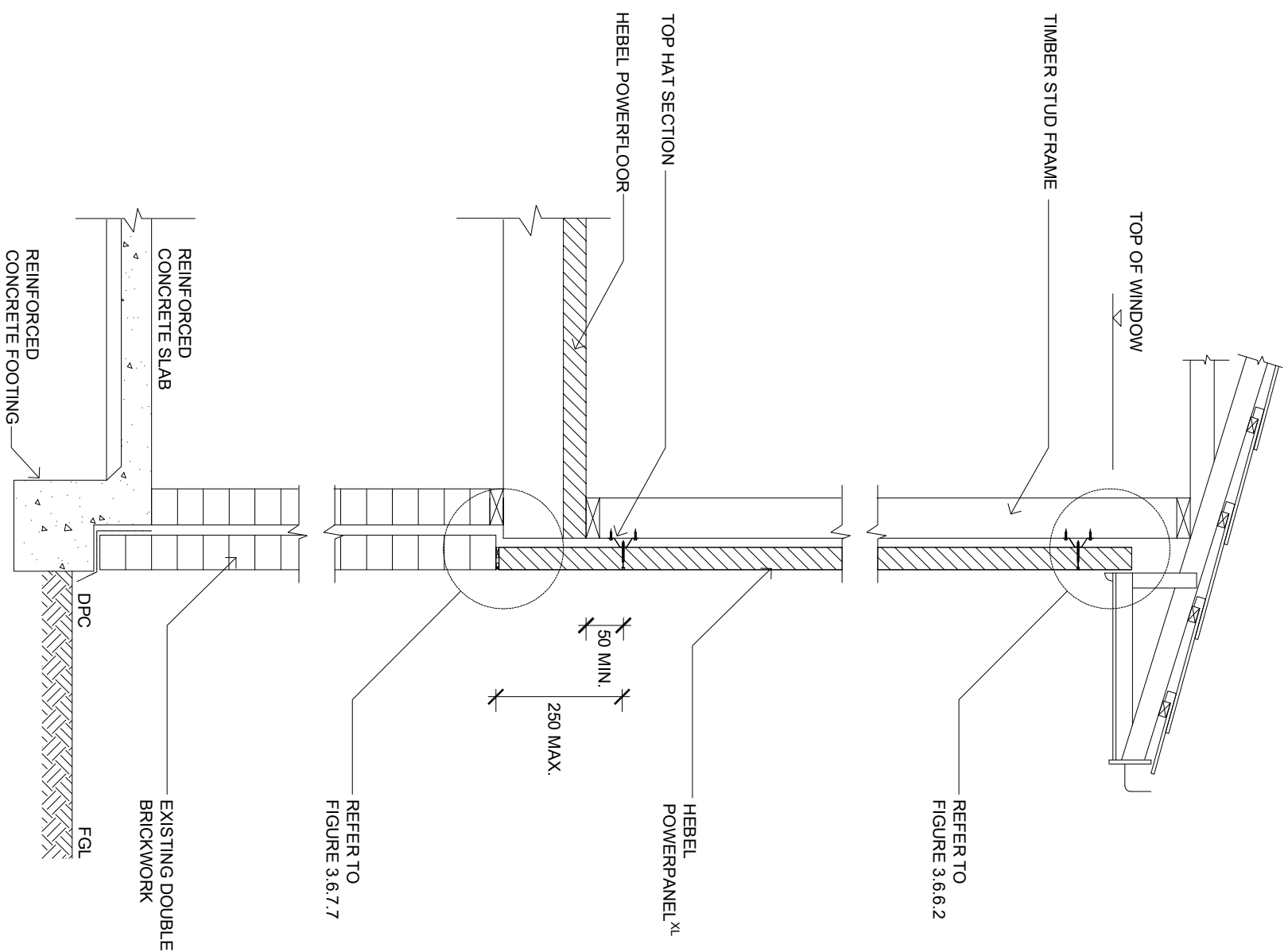
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FIGURE		TITLE	
3.6.3.2		TWO STOREY ADDITION DETAILS	
DESIGN GUIDE REFERENCE HELT1016A-PRL 19		SCALE 1:20 @ A3	DATE 08.06.19
SHEET NO. 2 of 3	DRAWN HT	CHECK ZK	REVISION D



## TWO STOREY ADDITION DETAILS INSTALLING HEBEL POWERPANEL<sup>XL</sup>



**TWO STOREY ADDITIONS - TYPICAL SECTION -  
WITH DOUBLE BRICK BELOW**

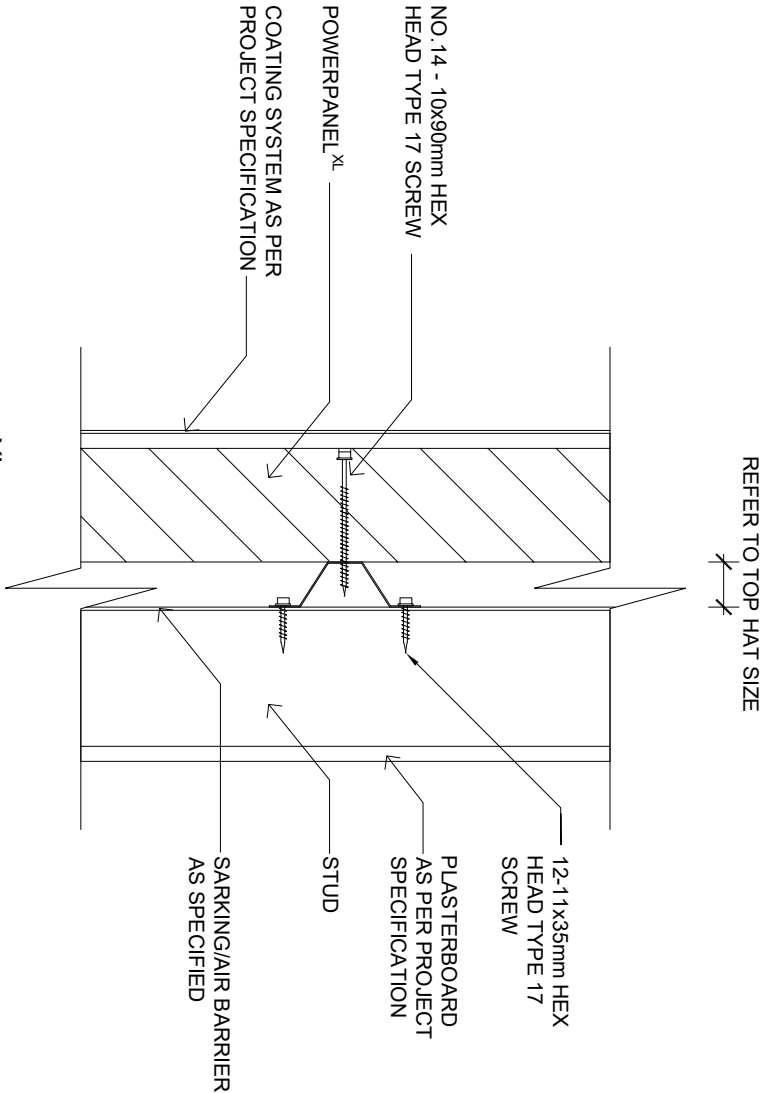
SCALE: 1:20

NOTE:  
1. MINIMUM 4 TOP HATS REQUIRED FOR PANELS THAT ARE SUSPENDED OFF THE FRAME. REFER TO TABLE 1.2.4 OF THE DESIGN AND INSTALLATION GUIDE.

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FIGURE	3.6.3.3	TITLE	
DESIGN GUIDE REFERENCE		SCALE	
HELT016APRIL19		1:20 @ A3	
SHEET NO.		SHEET SIZE	
3 of 3		A3	
CHECK		DRAWN	
ZK		HT	
REVISION		DATE	
D		08.05.19	
TWO STOREY ADDITION DETAILS			



# HEBEL POWERPANEL<sup>XL</sup> FIXING & INSTALLATION DETAILS



HEBEL POWERPANEL<sup>XL</sup> EXTERNAL WALL SYSTEM FIXING DETAIL  
(ACHIEVES FRL 90/90/90 WHEN INSTALLED AS PART OF THE WALL  
SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL<sup>XL</sup> EXTERNAL  
WALLS DESIGN AND INSTALLATION GUIDE)

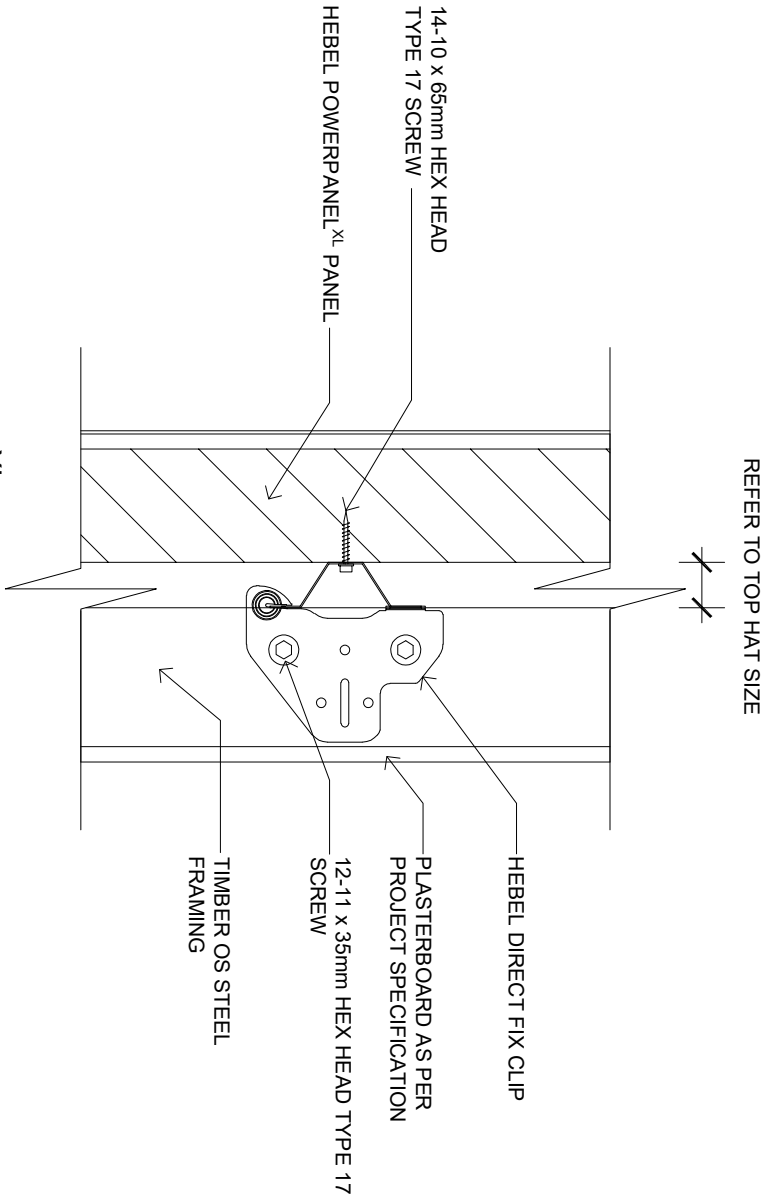
SCALE 1:5

NOTE:  
WHEN POSITIONING THE STUD FRAMES ALLOW 5-7mm EXTRA CAVITY WIDTH FOR THE SHEET BRACING BETWEEN TOP HAT AND TIMBER STUD.

**IMPORTANT:** TOP HAT CLIP IS FIXED ON THE LEFT HAND SIDE OF THE STUD (WHEN LOOKING FROM INSIDE TO THE OUTSIDE OF THE BUILDING) EXCEPT AT THE LAST STUD, ONLY, WHEN THE CLIP MAY BE INSTALLED UPSIDE DOWN.

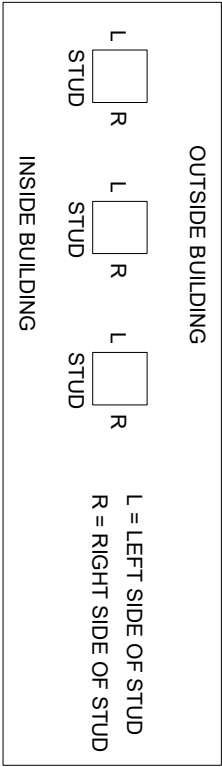
INSTALLING THE CLIP UPSIDE DOWN i.e WHERE THE SCREW FIXING FROM THE CLIP TO THE TOP HAT IS AT THE BOTTOM FLANGE OF THE TOP HAT, WILL BE ACCEPTABLE PROVIDED THAT:

- A: THE UPSIDE DOWN CLIP IS FIXED ON THE RIGHT HAND SIDE OF THE STUD (WHEN LOOKING FROM THE INSIDE TO THE OUTSIDE OF THE BUILDING)
- B: THE UPSIDE DOWN CLIP INSTALLATION IS TO THE LAST STUD OF A WALL RUN (ONLY), SUCH THAT THE SPACING BETWEEN THE LAST AND SECOND LAST STUDS IS NO GREATER THAN 600mm.
- C: THE TOP HAT IS CONTINUOUS IN THIS REGION FOR A MINIMUM OF TWO SPANS i.e TOP HAT EXTENDS ACROSS TWO STUD SPACINGS.
- D: IN ALL OTHER LOCATIONS, CLIPS ARE TO BE INSTALLED TO THE LEFT HAND SIDE OF THE STUD WITH THE SCREW FIXING TO THE TOP SIDE OF THE CLIP i.e INTO THE TOP FLANGE OF THE HORIZONTAL TOP HAT.



HEBEL POWERPANEL<sup>XL</sup> DUAL ZERO BOUNDARY WALLS FIXING  
DETAIL (ACHIEVES FRL 90/90/90 WHEN INSTALLED AS PART OF  
THE WALL SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL<sup>XL</sup>  
EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE)

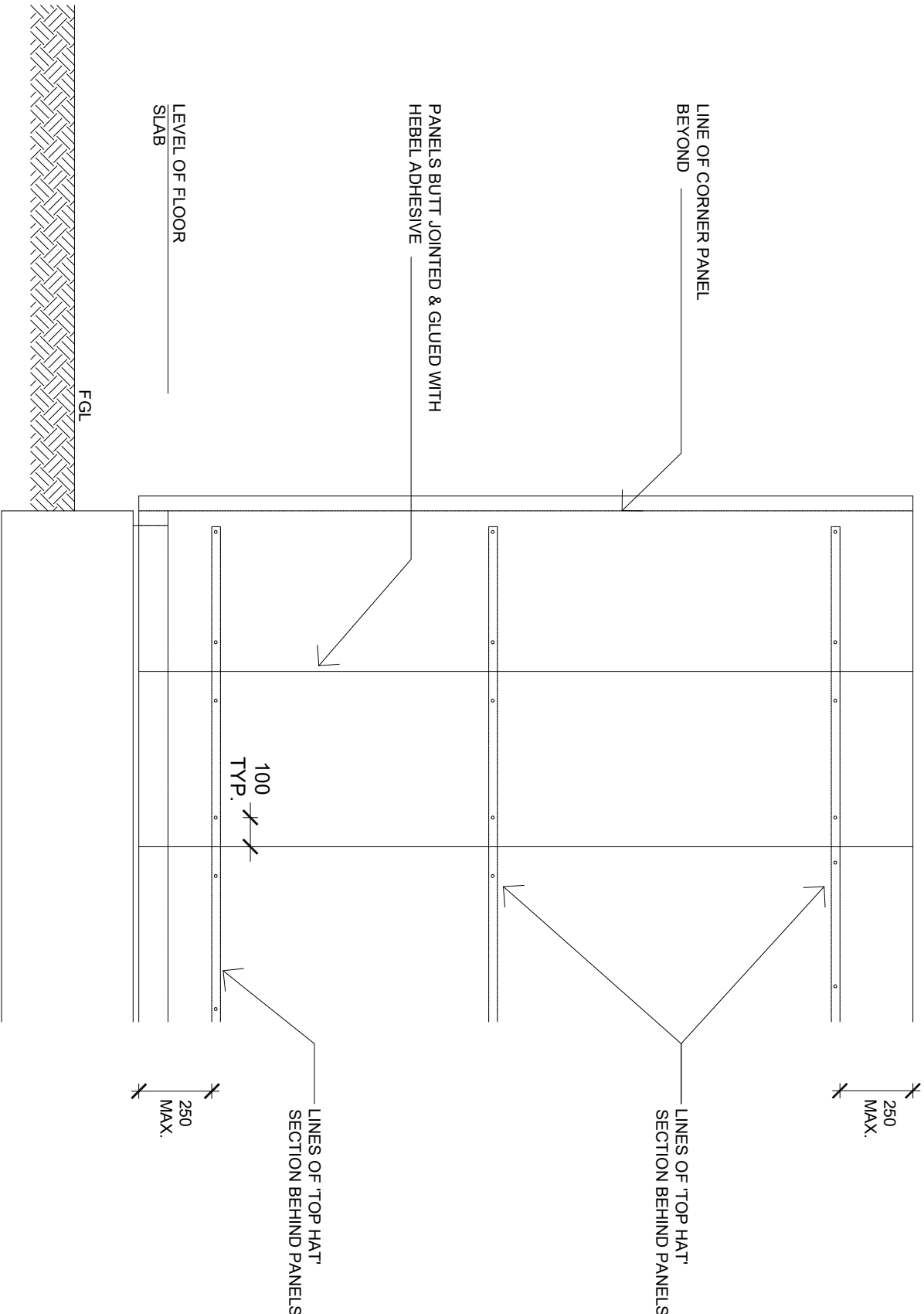
SCALE 1:5



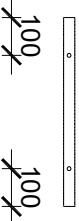
<div><div><div>CSR</div><div>HEBEL BUILDING PRODUCTS LTD</div><div>HEBEL BUILDING PRODUCTS LTD LOCKED BAG 1365 NORTH RYDE NSW 1570 A.B.N. 55 008 631 356 Ph: 1300 369 448 www.hebelaustralia.com.au</div></div><div><div><div>hebel</div><div>The better way to build</div><div>1 to 10 Melbourne Park Road Sydney NSW 2000 Ph: 02 4363 3300 Fax: 02 4363 3300</div></div><div><div>CSR Building Products Limited</div><div>A.B.N. 55 008 631 356</div></div></div></div>		Figure 3.6.4.1 - 3.6.4.2	Title HEBEL POWERPANEL <sup>XL</sup> FIXING & INSTALLATION DETAILS			
Design Guide Reference HELT016APRIL 19		Scale 1:5 @ A3	Sheet Size A3	Drawn HT	Check ZK	Date 08.05.19
		Sheet No 1 of 2				Revision D

# HEBEL POWERPANEL<sup>XL</sup> FIXING & INSTALLATION DETAILS

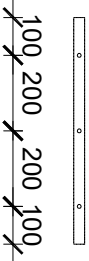
600 WIDE PANELS



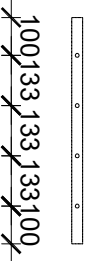
2 SCREWS



3 SCREWS



4 SCREWS




## SCREW LAYOUT

SCALE 1:20

## POWERPANEL<sup>XL</sup> PANEL SETOUT - ELEVATION VIEW

SCALE 1:20

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	3.6.4.3	DESIGN GUIDE REFERENCE	SCALE	SHEET SIZE	DRAWN
		HELT016APRIL 19	1:20 @ A3	A3	HT
				SHEET NO	CHECK
				2 of 2	ZK
					REVISION
					D



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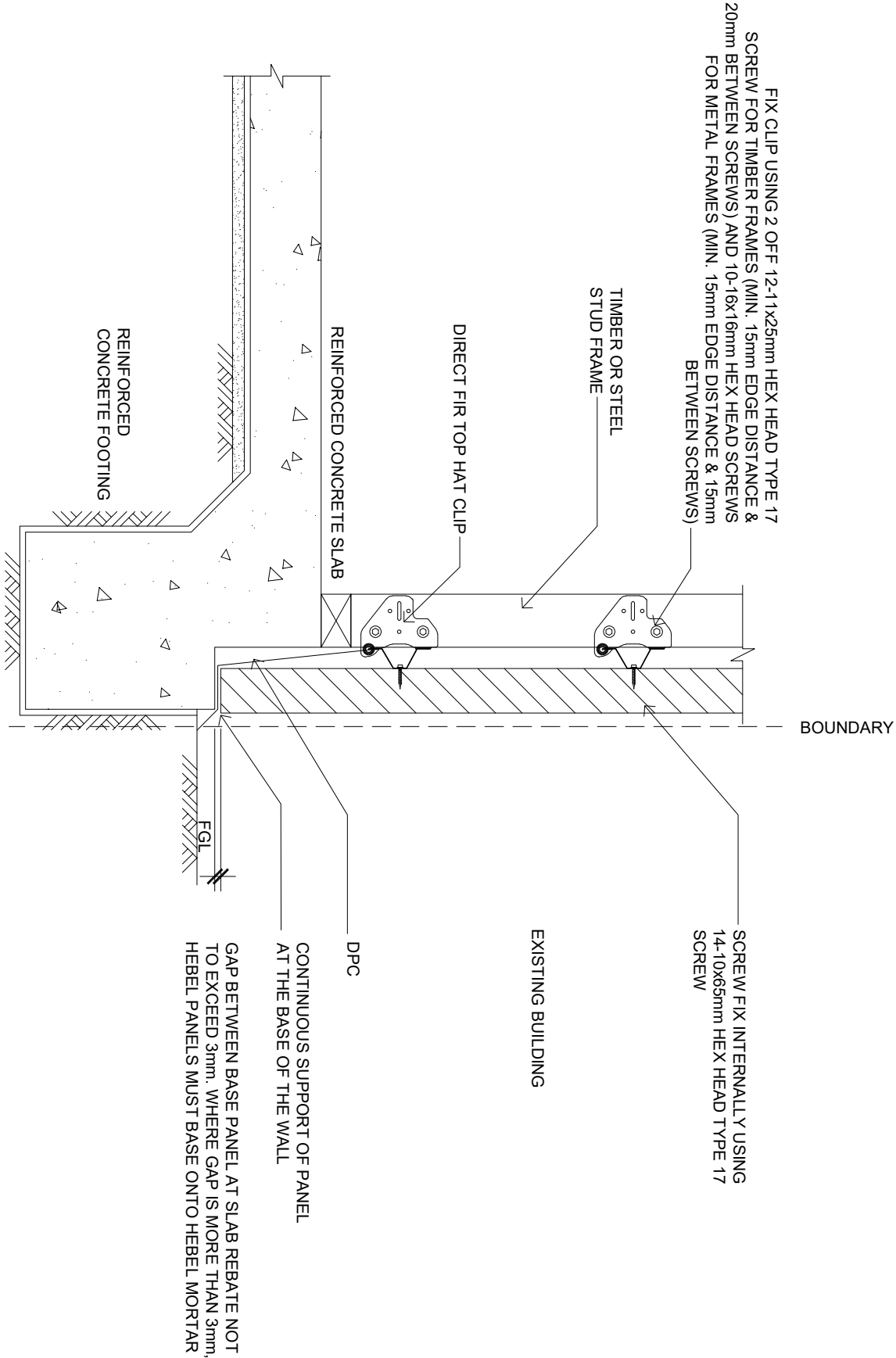


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Fax: 02 4363 3300

# HEBEL POWERPANEL<sup>XL</sup> FIXING & INSTALLATION DETAILS



HEBEL POWERPANEL<sup>XL</sup> ZERO BOUNDARY WALL SYSTEM  
(ACHIEVES FRL 90/90/90 WHEN INSTALLED AS PART OF THE  
WALL SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL<sup>XL</sup>  
EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE)

SCALE 1:10

FIGURE		TITLE			
3.6.4.4	DESIGN GUIDE REFERENCE	HEBEL POWERPANEL <sup>XL</sup> FIXING & INSTALLATION DETAILS			
	HELT016APRIL 19	SCALE	SHEET SIZE	DRAWN	DATE
		1:10 @ A3	A3	ZK	08.05.19
			SHEET NO	CHECK	REVISION
			1 of 6	ZK	D

CSR

CSR BUILDING PRODUCTS LTD

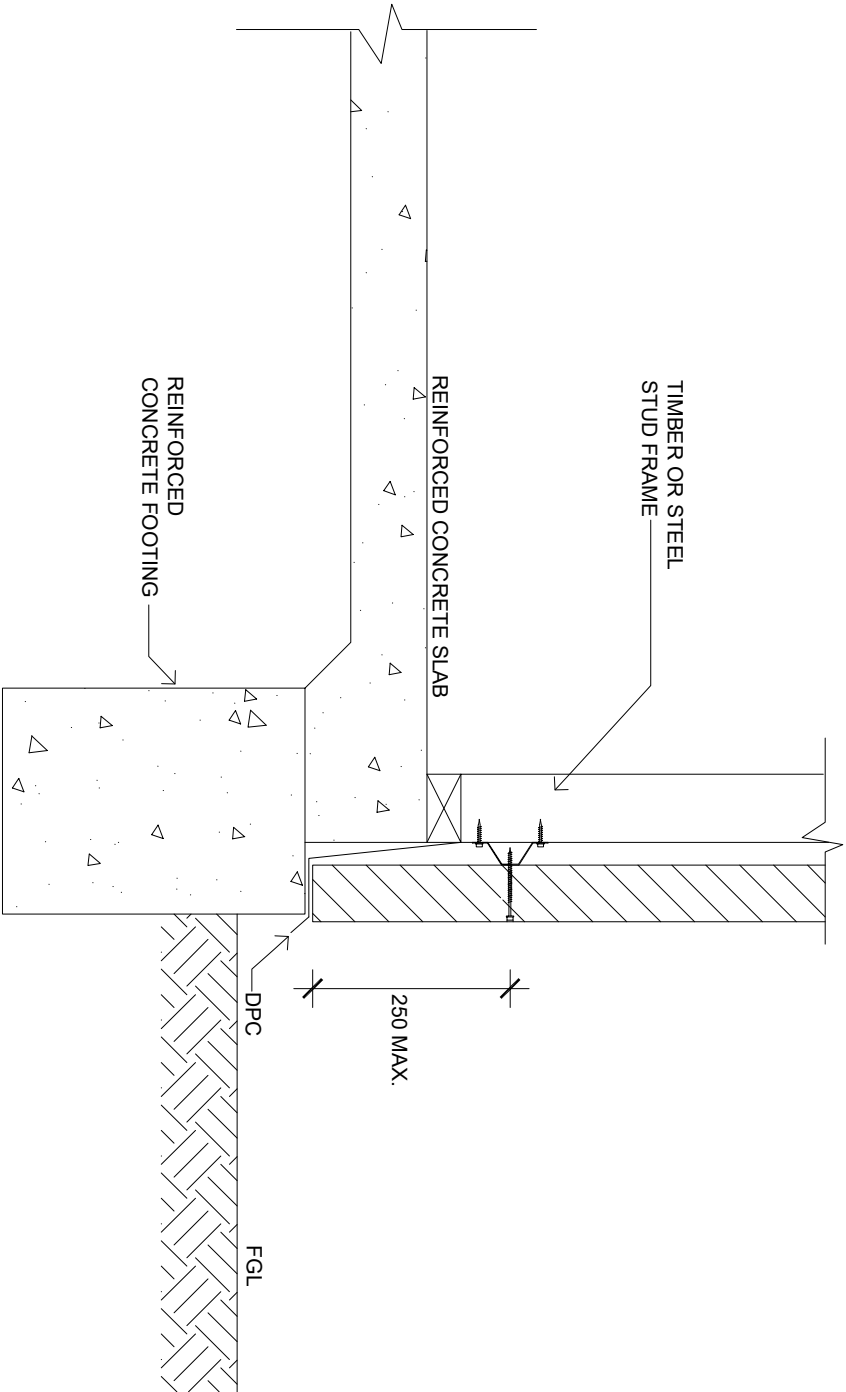
HEBEL BUILDING SYSTEMS & 30 BELMONT RD, NORTH RYDE NSW 2113  
LOCKED BAG 1345, NORTH RYDE NSW 1570  
A.B.N. 55 008 631 356    Ph: 1300 369 448  
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Sydney NSW 2000  
Ph: 02 4363 3300  
Fax: 02 4363 3300  
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FOOTING JUNCTION DETAILS




JUNCTION TO SHALLOW CONCRETE FOOTING  
SCALE 1:10

- NOTE:
1. DO NOT FIX TOP HAT TO FLOOR JOIST.
  2. IN NON-SHRINK FLOOR JOISTS ARE USED, GAP MAY BE REDUCED OR ELIMINATED. SEEK FURTHER ADVICE FROM THE FRAMING MANUFACTURER.
  3. REFER AS 3660 FOR TERMITES PROTECTION.
  4. WHEN FIXING TOP HATS TO CONCRETE, CONTACT THE FIXING MANUFACTURER FOR DETAILS.

TITLE		FOOTING JUNCTION DETAILS		
FIGURE	3.6.5.1	SCALE	SHEET SIZE A3	DRAWN HT
	DESIGN GUIDE REFERENCE HELI1016APRIL 19	1:10 @ A3		
		SHEET NO	CHECK	DATE
		1 of 7	ZK	08.05.19
				REVISION D

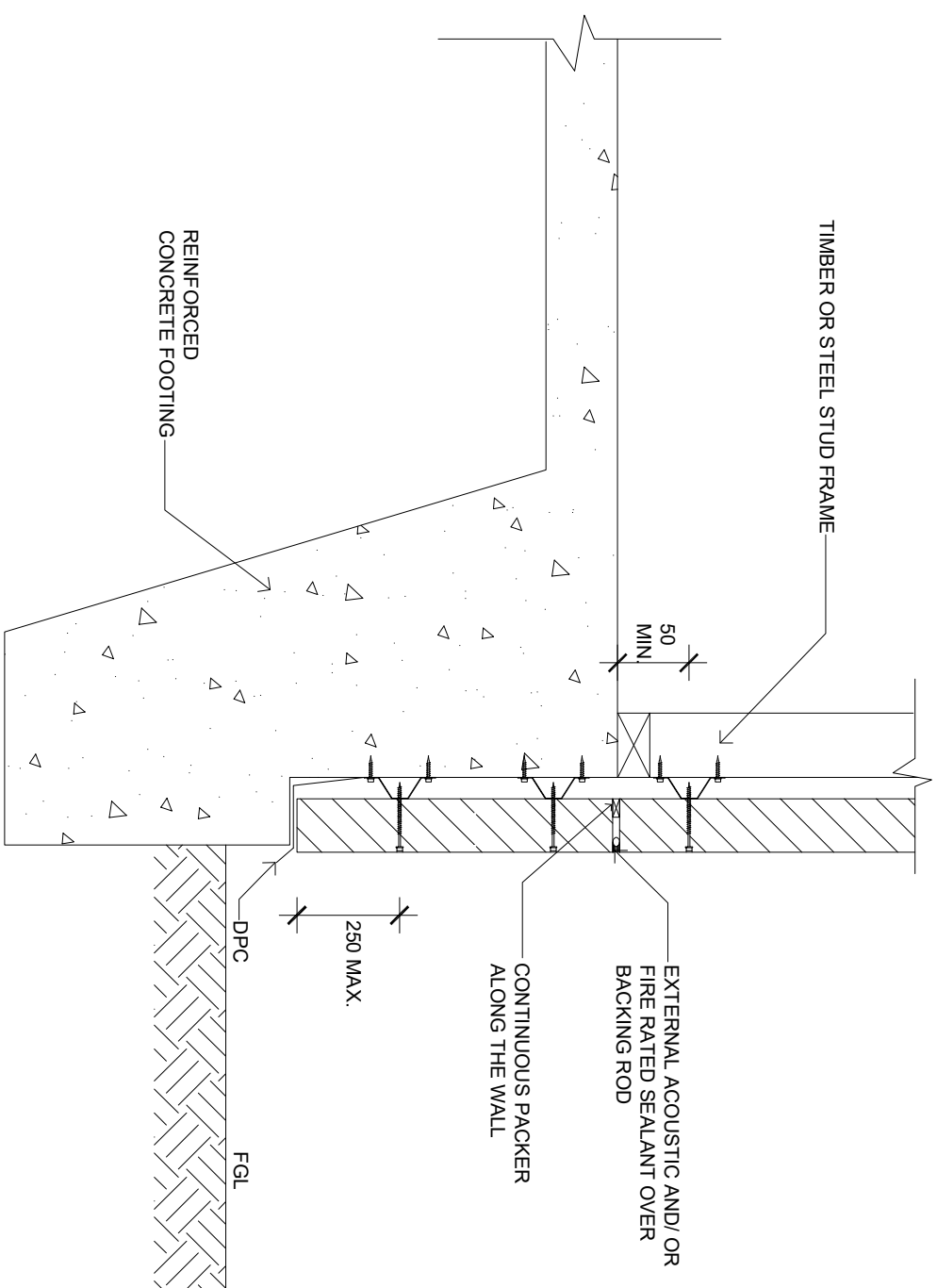


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## FOOTING JUNCTION DETAILS




## JUNCTION TO DEEP CONCRETE EDGE BEAM


SCALE 1:10

NOTE:


1. DO NOT FIX TOP HAT TO FLOOR JOIST.
2. IN NON-SHRINK FLOOR JOISTS ARE USED, GAP MAY BE REDUCED OR ELIMINATED. SEEK FURTHER ADVICE FROM THE FRAMING MANUFACTURER.
3. REFER AS 3660 FOR TERMITE PROTECTION.
4. REFER TO TABLE 1.2.6 FOR TOP HAT REQUIREMENTS FOR DEEP CONCRETE EDGE BEAM APPLICATIONS.




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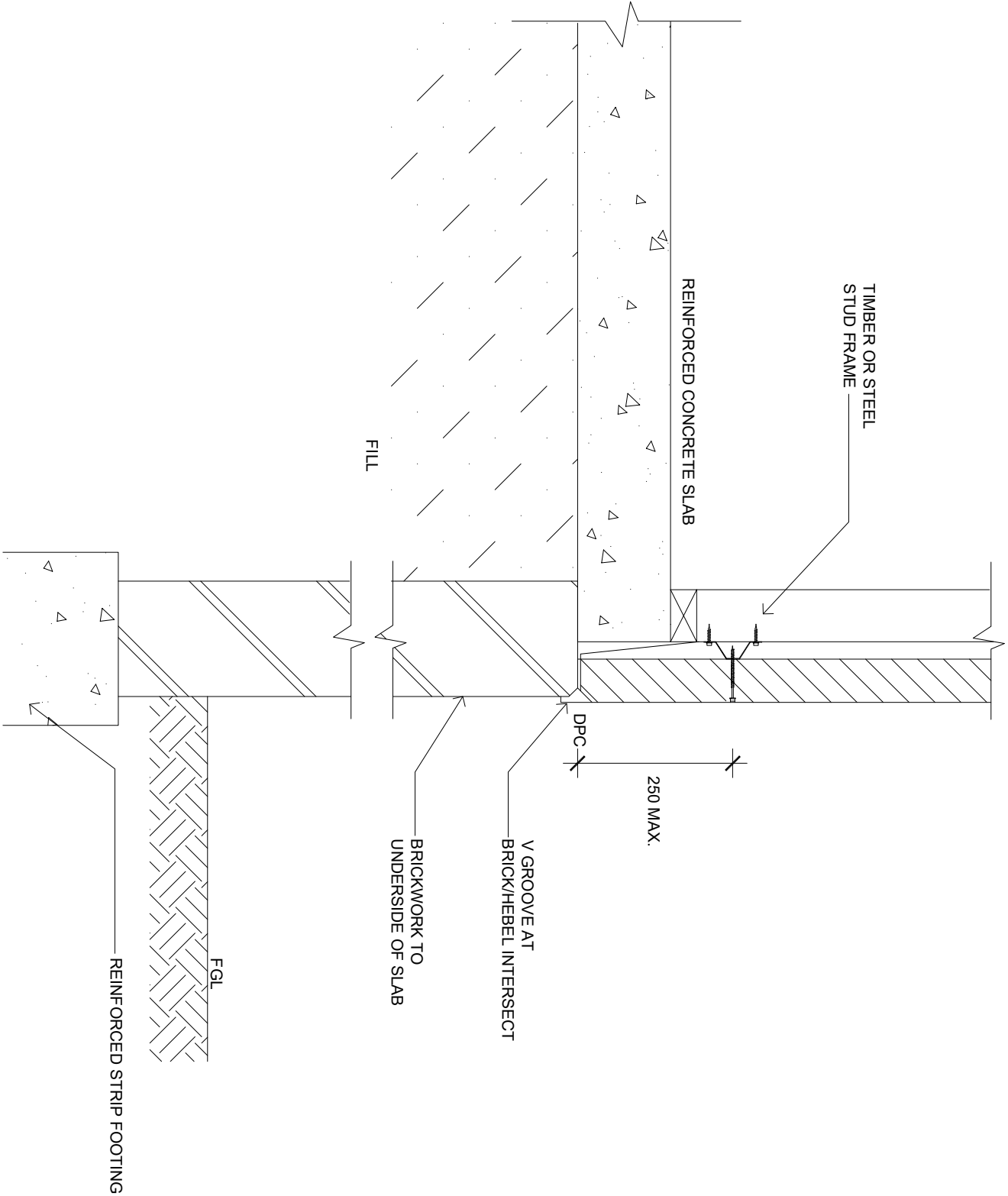
17/2 Wentworth Freeway Road  
 P.O. BOX 4340 3000  
 Fax: 023 4340 3000



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FIGURE		TITLE	
3.6.5.2		FOOTING JUNCTION DETAILS	
DESIGN GUIDE REFERENCE		SCALE	
HELT0716APRIL 19		1:10 @ A3	
SHEET NO.		DRAWN	
2 of 7		HT	
CHECK		DATE	
ZK		08.05.19	
REVISION		D	

FOOTING JUNCTION DETAILS




JUNCTION TO MASONRY EARTH RETAINING WALL  
SCALE 1:10

- NOTE:
1. DO NOT FIX TOP HAT TO FLOOR JOIST.
  2. IN NON-SHRINK FLOOR JOISTS ARE USED, GAP MAY BE REDUCED OR ELIMINATED. SEEK FURTHER ADVICE FROM THE FRAMING MANUFACTURER.
  3. REFER AS 3660 FOR TERMITE PROTECTION.
  4. WHEN FIXING TOP HATS TO CONCRETE, CONTACT THE FIXING MANUFACTURER FOR DETAILS.



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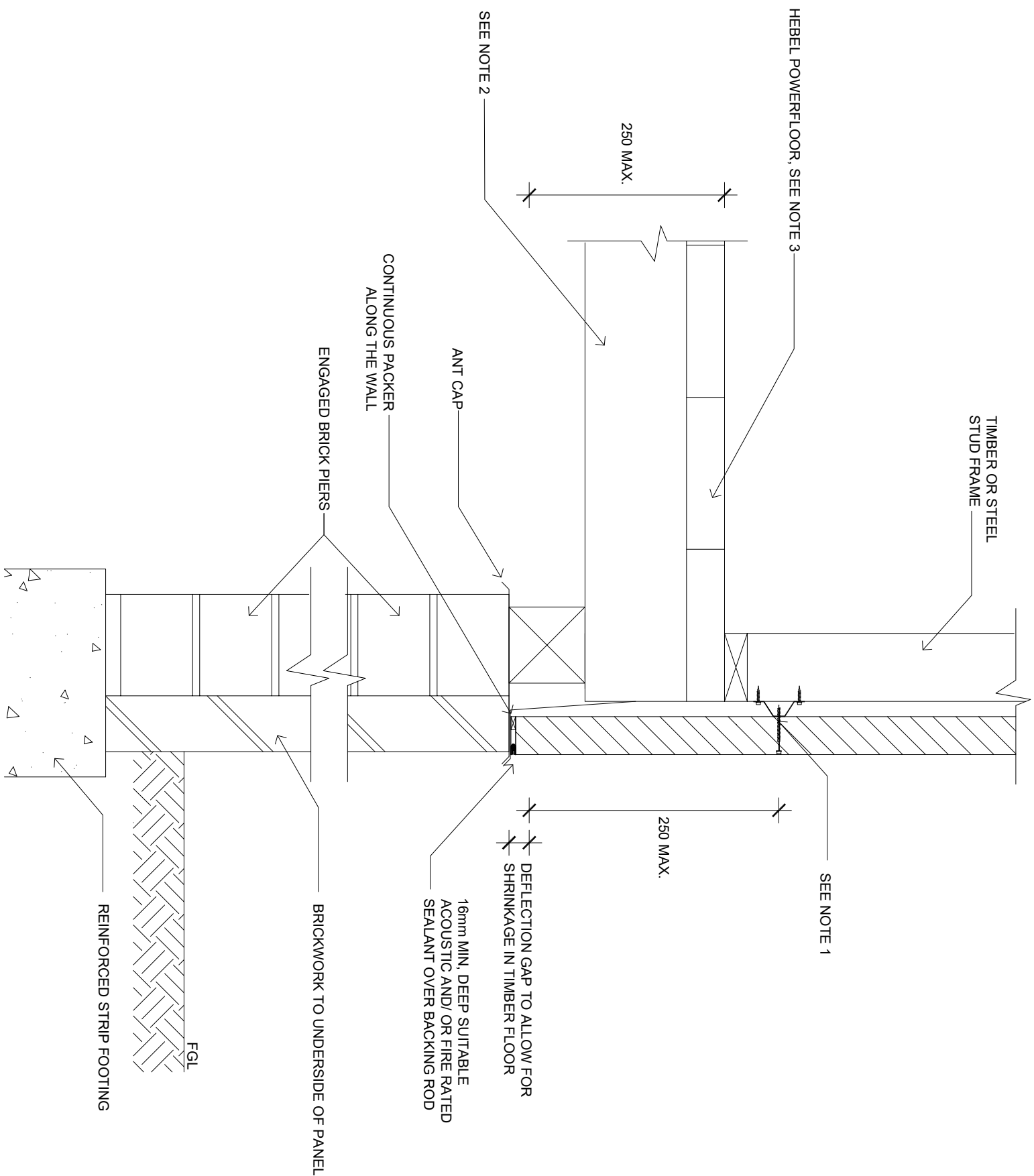
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FIGURE		TITLE			
3.6.5.3	DESIGN GUIDE REFERENCE	SCALE	FOOTING JUNCTION DETAILS		
		1:10 @ A3	SHEET SIZE	A3	
		HELT016A/PRL 19	SHEET NO.	DRAWN	DATE
			3 of 7	CHECK	HT
			ZK	REVISION	
				D	



## FOOTING JUNCTION DETAILS



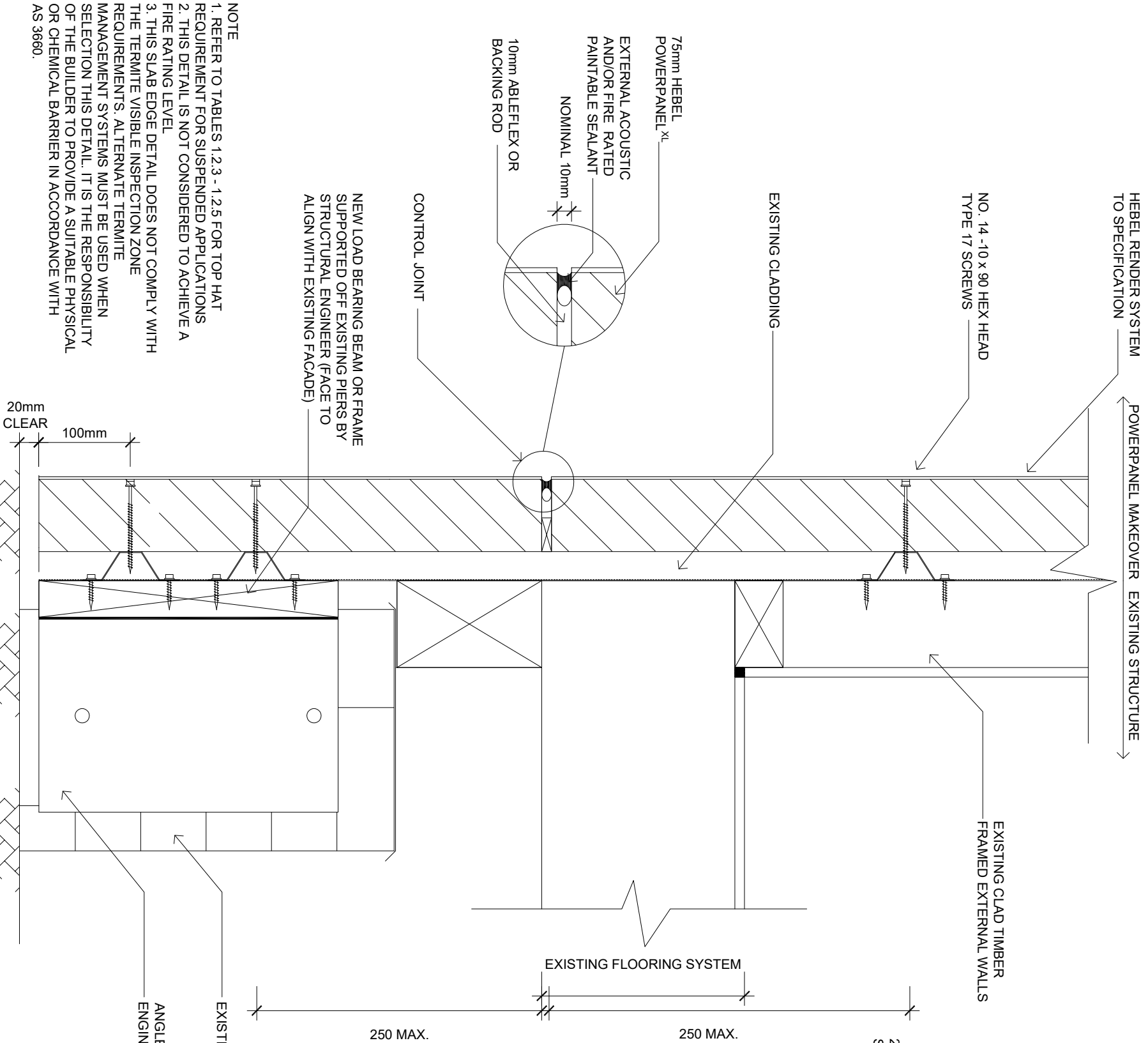
## JUNCTION TO MASONRY DWARF WALL

SCALE 1:10

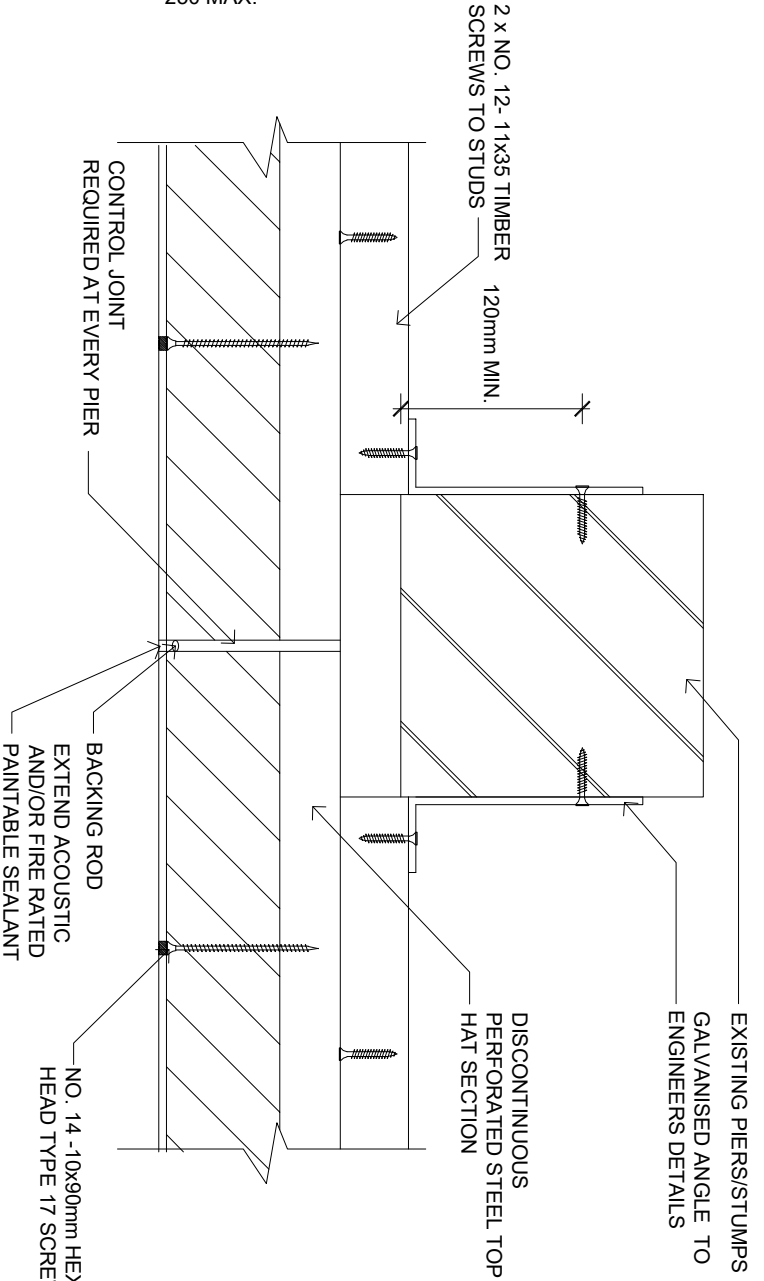
- NOTE:**
1. DO NOT FIX TOP HAT TO FLOOR JOISTS.
  2. IF NON-SHRINK FLOOR JOISTS ARE USED, GAP MAY BE REDUCED OR ELIMINATED. SEEK FURTHER TECHNICAL ADVICE FROM THE FRAMING MANUFACTURER.
  3. REFER TO CSR HEBEL POWERFLOOR™ DETAILS.
  4. REFER AS 3660 FOR TERMITE PROTECTION.
  5. WHEN FIXING TOP HATS TO CONCRETE, CONTACT THE FIXING MANUFACTURER FOR DETAILS.

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FIGURE		TITLE	
3.6.5.4		FOOTING, JUNCTION DETAILS	
DESIGN GUIDE REFERENCE		SCALE	
HELT0176APRIL 19		1:10 @ A3	
		SHEET SIZE	
		A3	
		SHEET NO	
		4 of 7	
		DRAWN	
		HT	
		DATE	
		08.05.19	
		CHECK	
		ZK	
		REVISION	
		D	

FOOTING JUNCTION DETAILS



- NOTE
1. REFER TO TABLES 1.2.3 - 1.2.5 FOR TOP HAT REQUIREMENT FOR SUSPENDED APPLICATIONS
  2. THIS DETAIL IS NOT CONSIDERED TO ACHIEVE A FIRE RATING LEVEL
  3. THIS SLAB EDGE DETAIL DOES NOT COMPLY WITH THE TERMITE VISIBLE INSPECTION ZONE REQUIREMENTS. ALTERNATE TERMITE MANAGEMENT SYSTEMS MUST BE USED WHEN SELECTION THIS DETAIL. IT IS THE RESPONSIBILITY OF THE BUILDER TO PROVIDE A SUITABLE PHYSICAL OR CHEMICAL BARRIER IN ACCORDANCE WITH AS 3660.



BASE DETAIL SUSPENDED FLOOR - PIER CONNECTION

SCALE 1:5

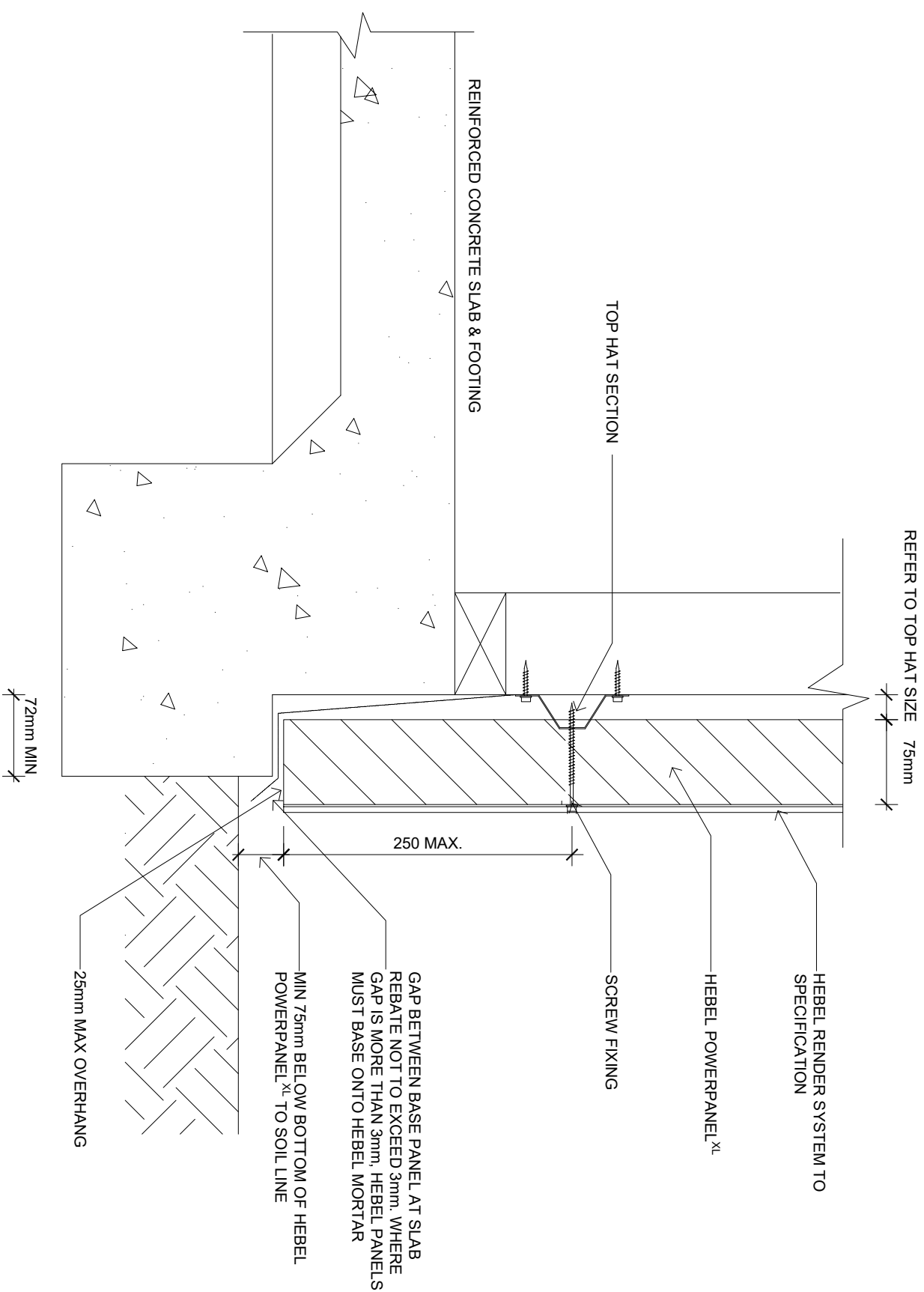
JUNCTION TO EXISTING PIERS/ STUMPS

SCALE 1:5

<div><div><div>CSR</div><div>CSR BUILDING PRODUCTS LTD</div><div>HEBEL ROAD, 100 BELMONT DRIVE, NORTH RIVER, NSW 2113</div><div>LOCKED BAG 1345, NORTH RIVER, NSW 2113</div><div>A.B.N. 55 008 631 356</div><div>Ph: 1300 369 448</div><div>www.hebelaustralia.com.au</div></div><div><div><div>hebel</div><div>The better way to build</div><div>CSR Building Products Limited</div><div>1 to 13 Williamsburg Ferry Road</div><div>Stoney Creek NSW 2160</div><div>Ph: 02 44033300</div><div>Fax: 02 44033300</div><div>A.B.N. 55 008 631 356</div></div></div></div>	FIGURE	3.6.5.5 & 3.6.5.7	TITLE			
	DESIGN GUIDE REFERENCE	HELT016APRIL 19	SCALE	1:5 @ A3	SHEET NO	5 of 7
			DRAWN	HT	CHECK	ZK
			DATE	08.05.19	REVISION	D



## FOOTING JUNCTION DETAILS





JUNCTION TO SHALLOW CONCRETE EDGE BEAM  
(ACHIEVES FRL 180/180/180 WHEN INSTALLED AS PART OF THE  
WALL SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL<sup>XL</sup>  
EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE)

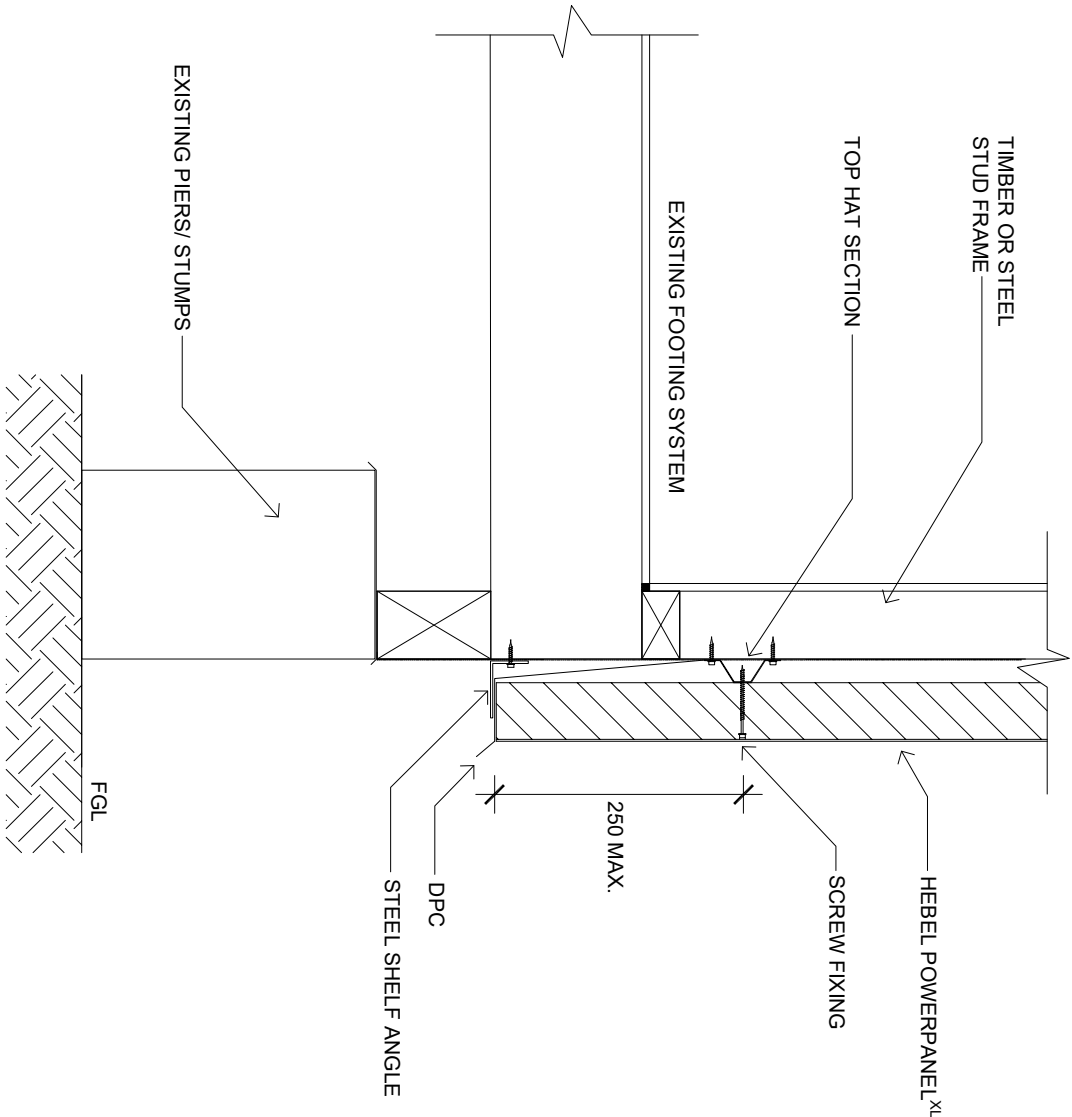
SCALE 1:5

NOTE:

1. ALL GARDEN BEDS AND/OR FINISHED SOIL LINE MUST REMAIN A MINIMUM OF 75mm BELOW THE BOTTOM OF THE FINISHED RENDERING WALL.
2. THIS SLAB EDGE DETAIL DOES NOT COMPLY WITH THE TERMITE VISIBLE INSPECTION ZONE REQUIREMENTS. ALTERNATE TERMITE MANAGEMENT SYSTEMS MUST BE USED WHEN SELECTION THIS DETAIL. IT IS THE RESPONSIBILITY OF THE BUILDER TO PROVIDE A SUITABLE PHYSICAL OR CHEMICAL BARRIER IN ACCORDANCE WITH AS3660.

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FIGURE 3.6.5.6		TITLE FOOTING, JUNCTION DETAILS	
DESIGN GUIDE REFERENCE HELT016APRIL 19		SCALE 1:5 @ A3	
SHEET SIZE A3		DRAWN HT	
CHECKED ZK		ALTE 08.05.19	
SHEET NO. 6 of 7		REVISION E	


FOOTING JUNCTION DETAILS



SUSPENDED BASE DETAIL  
SCALE 1:10


- NOTE
1. THIS DETAIL IS NOT CONSIDERED TO ACHIEVE A FIRE RATING LEVEL.
  2. THE LIGHT GAUGE STEEL ANGLE IS FOR THE PURPOSE OF CLOSING THE CAVITY AT THE BASE OF THE WALL.

TITLE				FOOTING JUNCTION DETAILS			
FIGURE		SCALE		SHEET SIZE		DRAWN	
3.6.5.8		1:10 @ A3		A3		HT	
DESIGN GUIDE REFERENCE				SHEET NO		CHECK	
HELT016APRL19				7 of 7		ZK	
						REVISION	
						08.05.19	
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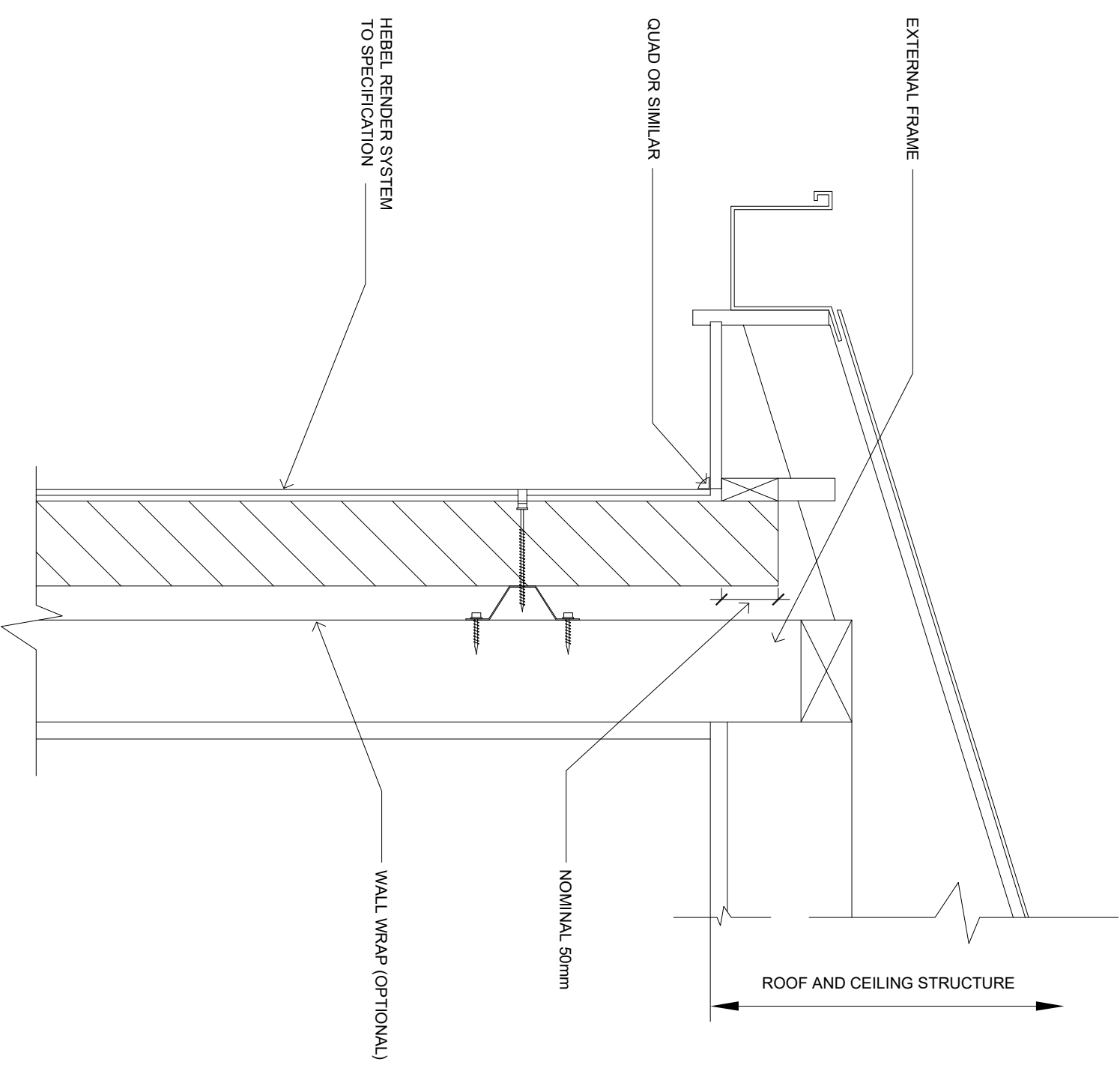
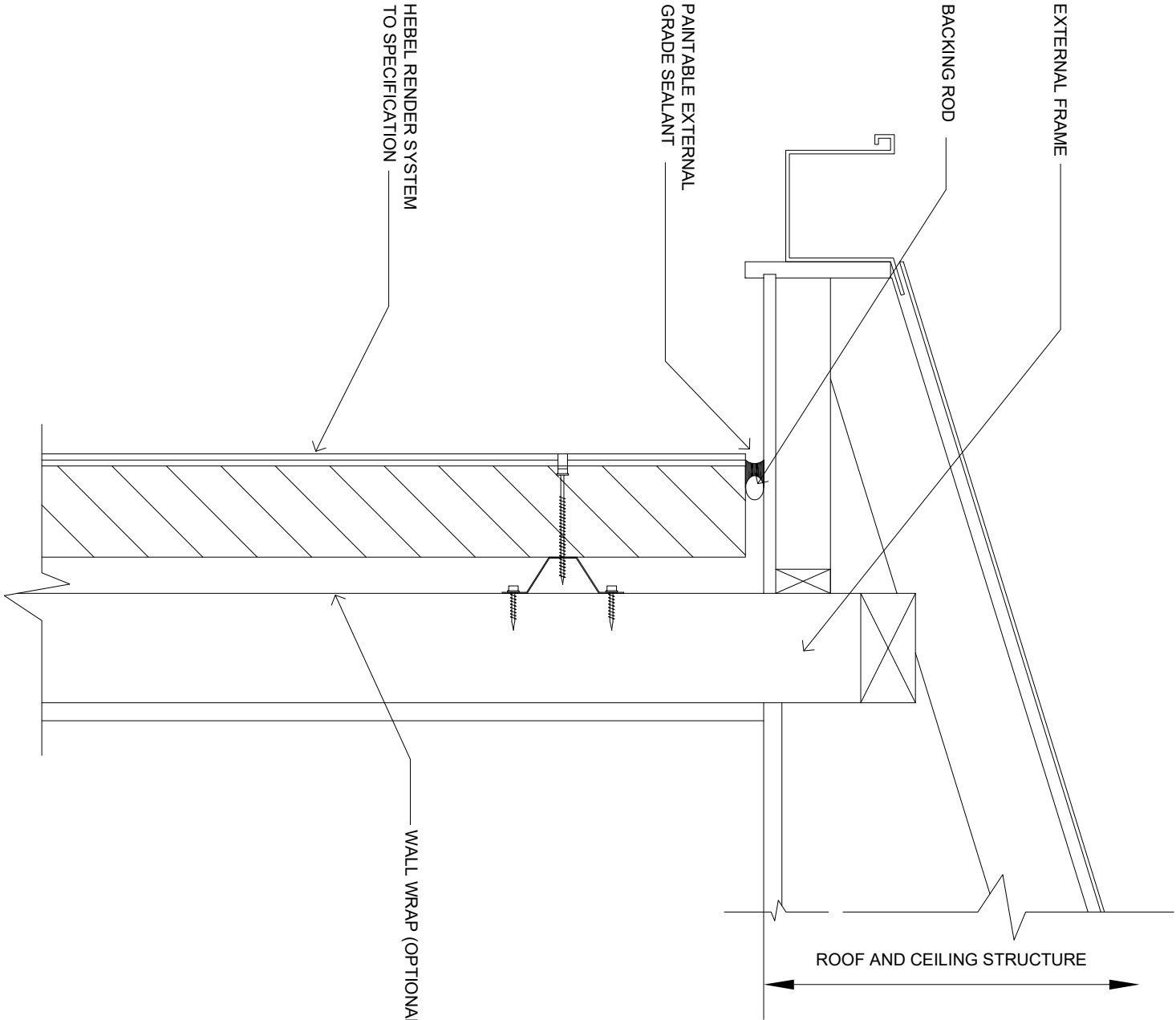


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WALL JUNCTION DETAILS & SECTIONS



TYPICAL ROOF EAVES DETAILS - OPTION 1  
SCALE 1:5

TYPICAL ROOF EAVES DETAILS - OPTION 2  
SCALE 1:5

WALL JUNCTION DETAILS & SECTIONS				
FIGURE	TITLE			
3.6.6.1 - 3.6.6.2	SCALE			
DESIGN GUIDE REFERENCE	1:5 @ A3	SHEET NO	DRAWN	DATE
HELI1016APRIL 19		1 of 5	HT	08.05.19
		CHECK	REVISION	
		ZK	D	

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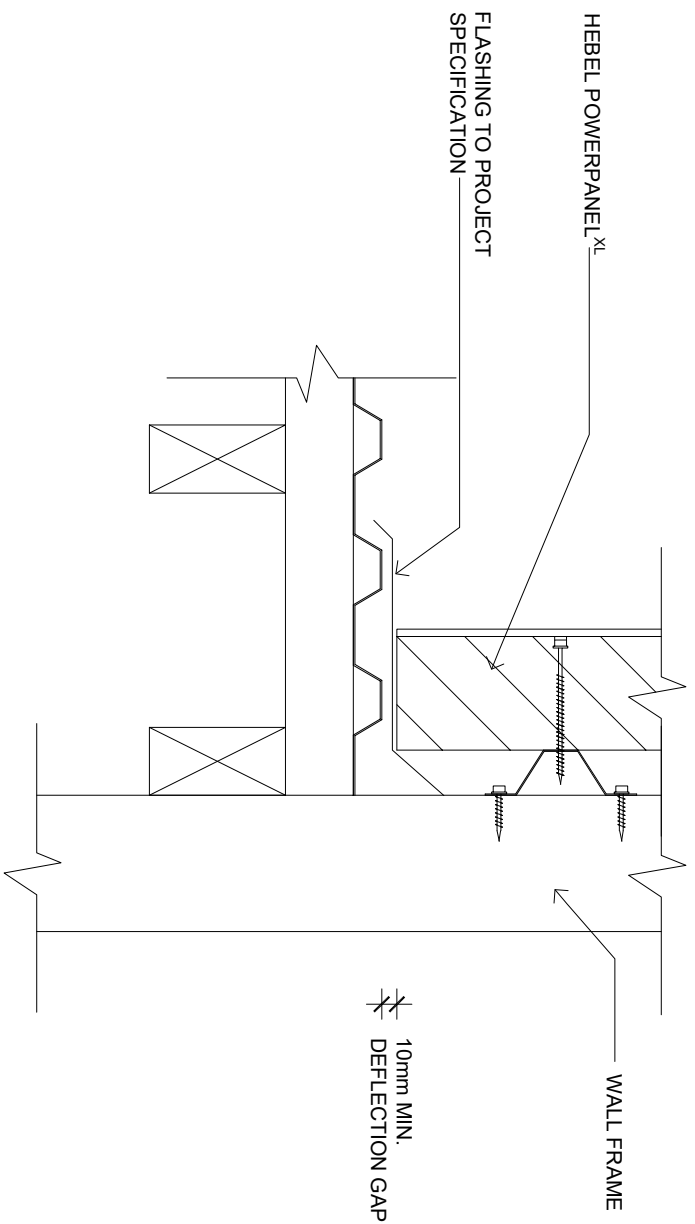
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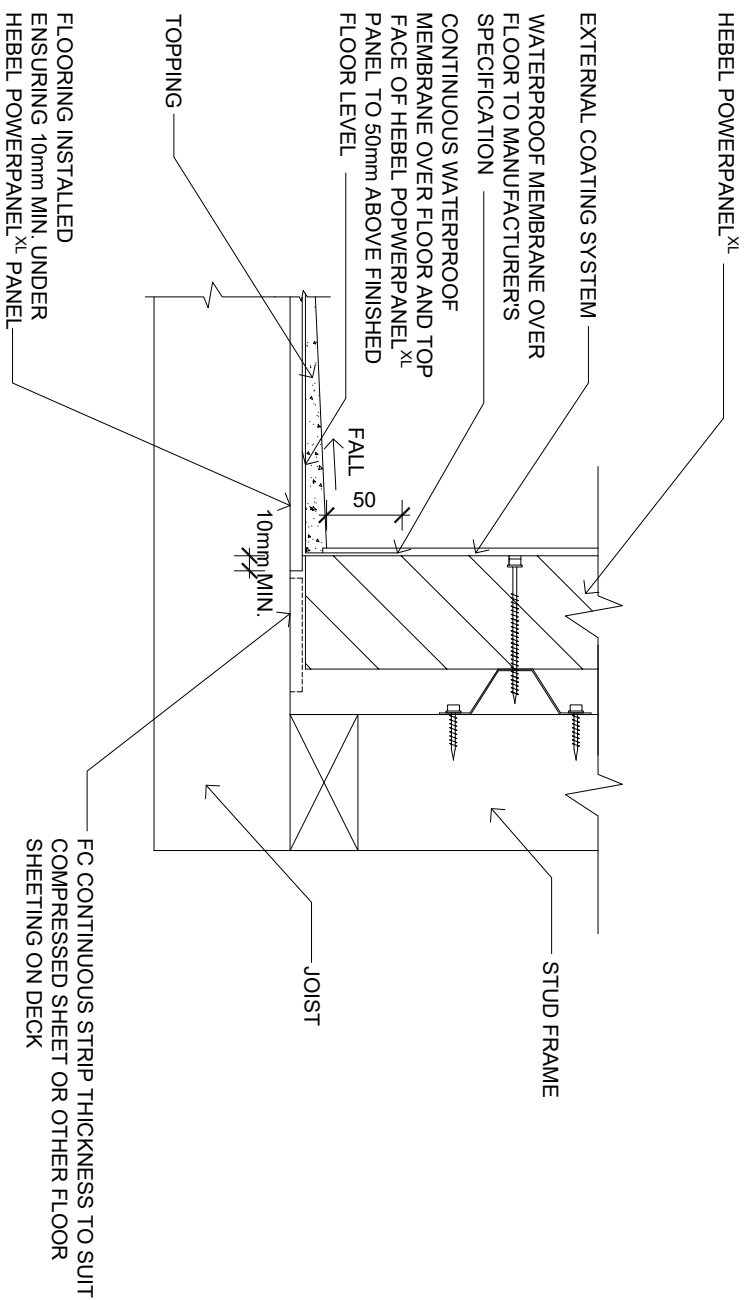
111-113 Bentley Road  
Sydney NSW 2150  
Ph: 02 4403 3300  
Fax: 02 4403 3300

# WALL JUNCTION DETAILS & SECTIONS



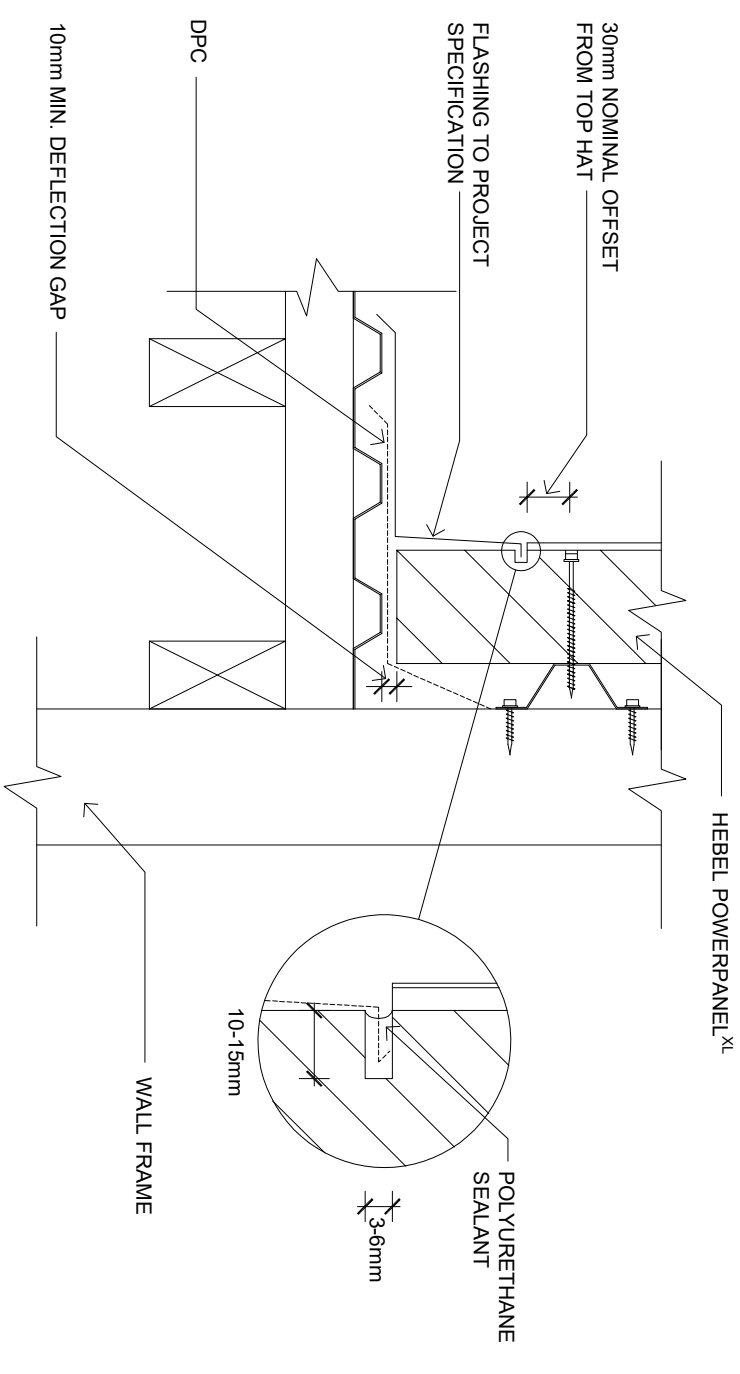
## ROOF TO WALL JUNCTION DETAIL - OPTION 1

SCALE 1:5





## BALCONY DETAIL

SCALE 1:5

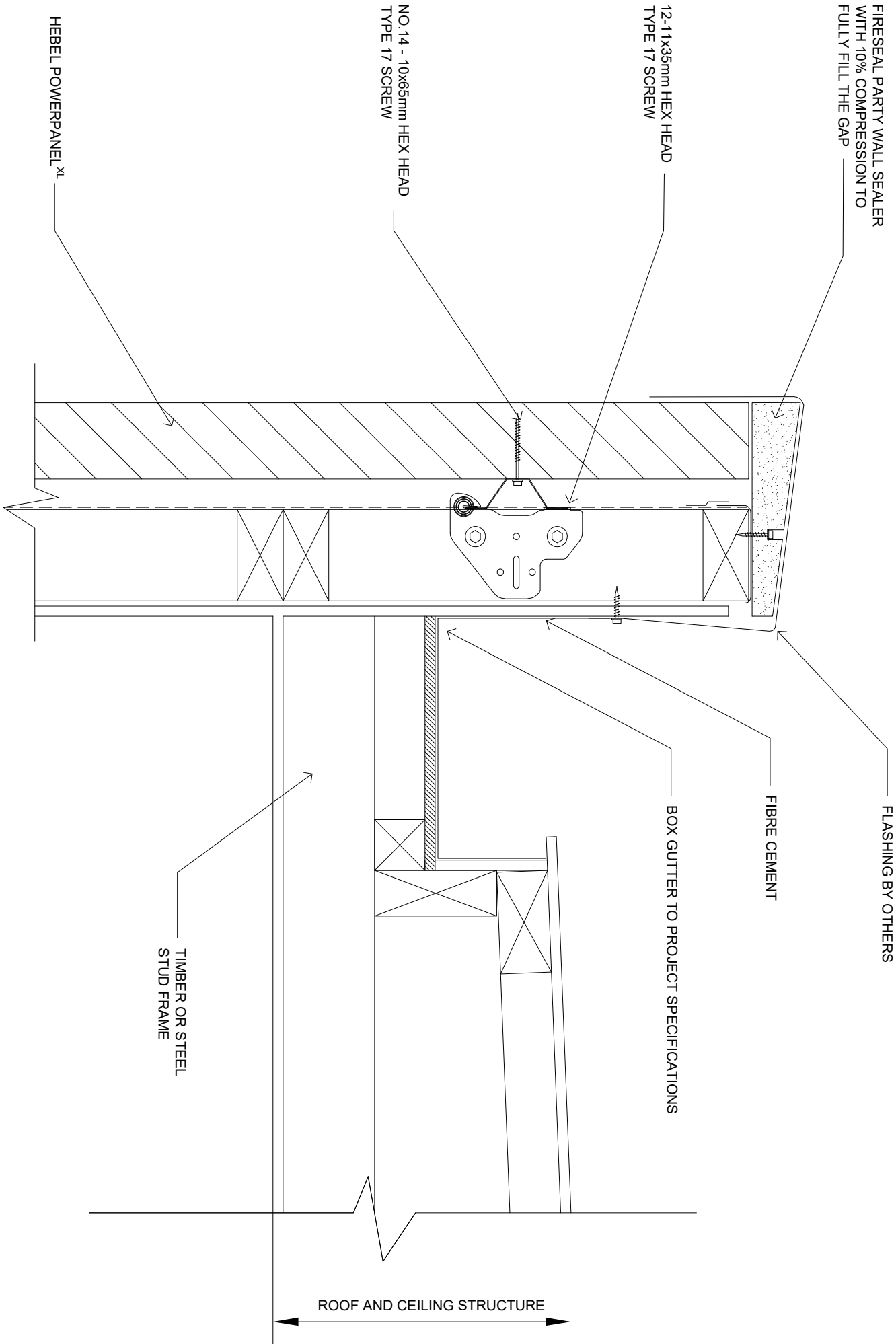


## ROOF TO WALL JUNCTION DETAIL - OPTION 2

SCALE 1:5

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FIGURE <b>3.6.6.3 - 3.6.6.4</b> <b>&amp; 3.6.6.6</b>		TITLE <b>WALL JUNCTION DETAILS &amp; SECTIONS</b>			
DESIGN QUOTE REFERENCE <b>HELLT016APRIL19</b>		SCALE <b>1:5 @ A3</b>	SHEET SIZE <b>A3</b>	DRAWN <b>HT</b>	DATE <b>08.05.19</b>
		SHEET NO. <b>2 of 5</b>	CHECK <b>ZK</b>	REVISION <b>D</b>	

WALL JUNCTION DETAILS & SECTIONS



TYPICAL ROOF EAVES DETAILS - ZERO BOUNDARY WALLS  
(ACHIEVES FRL 90/90/90 WHEN INSTALLED AS PART OF THE WALL SYSTEM.  
SEE SECTION 2.2 OF HEBEL POWERPANEL<sup>XL</sup> EXTERNAL WALLS DESIGN  
AND INSTALLATION GUIDE)

SCALE 1:5

TITLE				WALL JUNCTION DETAILS & SECTIONS			
FIGURE		SCALE		SHEET SIZE		DRAWN	
3.6.6.5		1:5 @ A3		A3		HT	
DESIGN GUIDE REFERENCE				SHEET NO		CHECK	
HELT016APRIL 19				1 of 5		ZK	
						REVISION	
						D	

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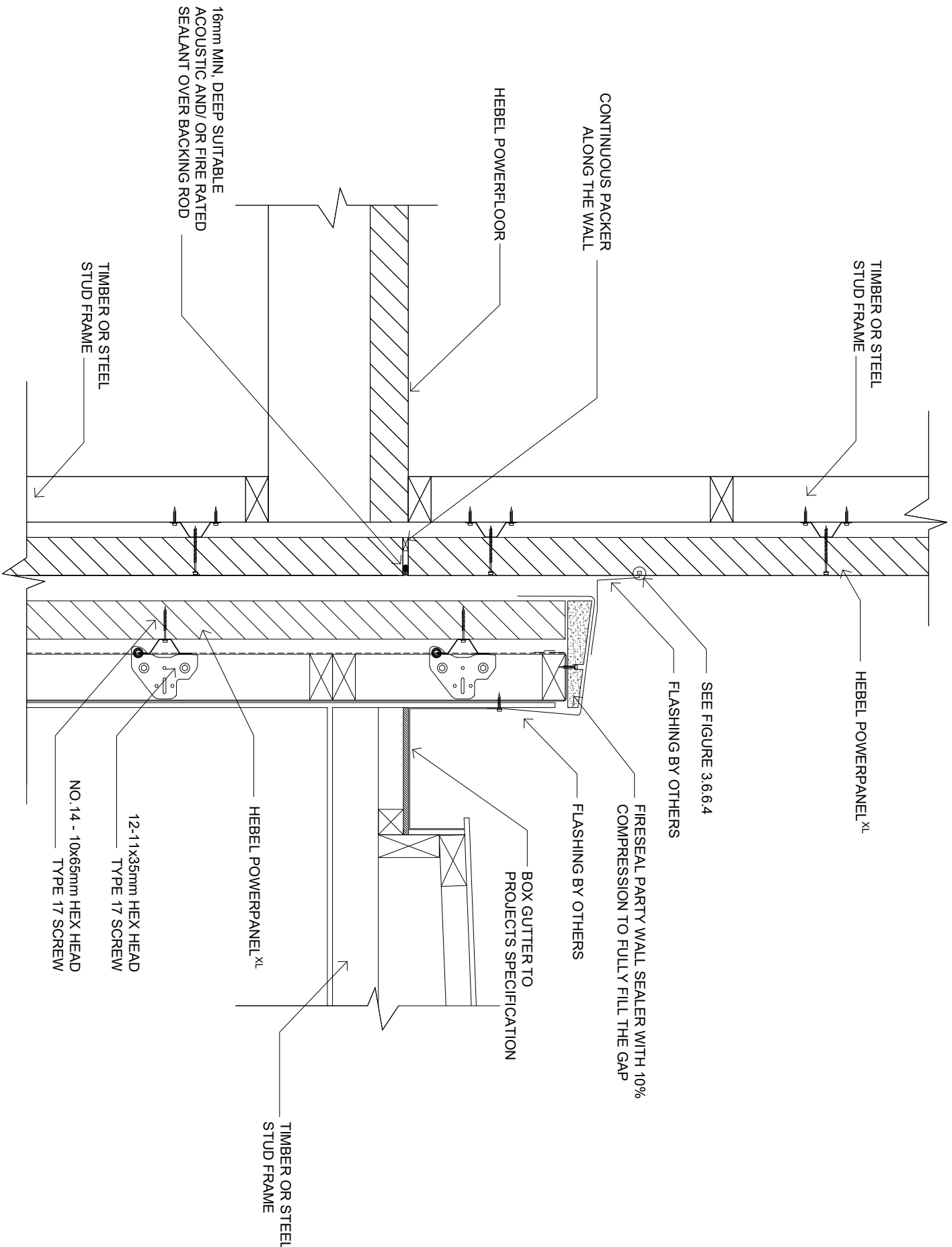
Stoney Creek, NSW 2150

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Fax: 02 4803 3300

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WALL JUNCTION DETAILS & SECTIONS



ZERO BOUNDARY WALL JUNCTION DETAIL  
(ACHIEVES FRL 90/90/90 WHEN INSTALLED AS PART OF THE WALL  
SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL<sup>XL</sup> EXTERNAL WALLS  
DESIGN AND INSTALLATION GUIDE)

SCALE 1:10

TITLE				WALL JUNCTION DETAILS & SECTION			
FIGURE		SCALE		SHEET SIZE		DRAWN	
3.6.6.7		1:10 @ A3		A3		HT	
DESIGN GUIDE REFERENCE				SHEET NO.		CHECK	
HELT016APRIL 19				4 of 6		ZK	
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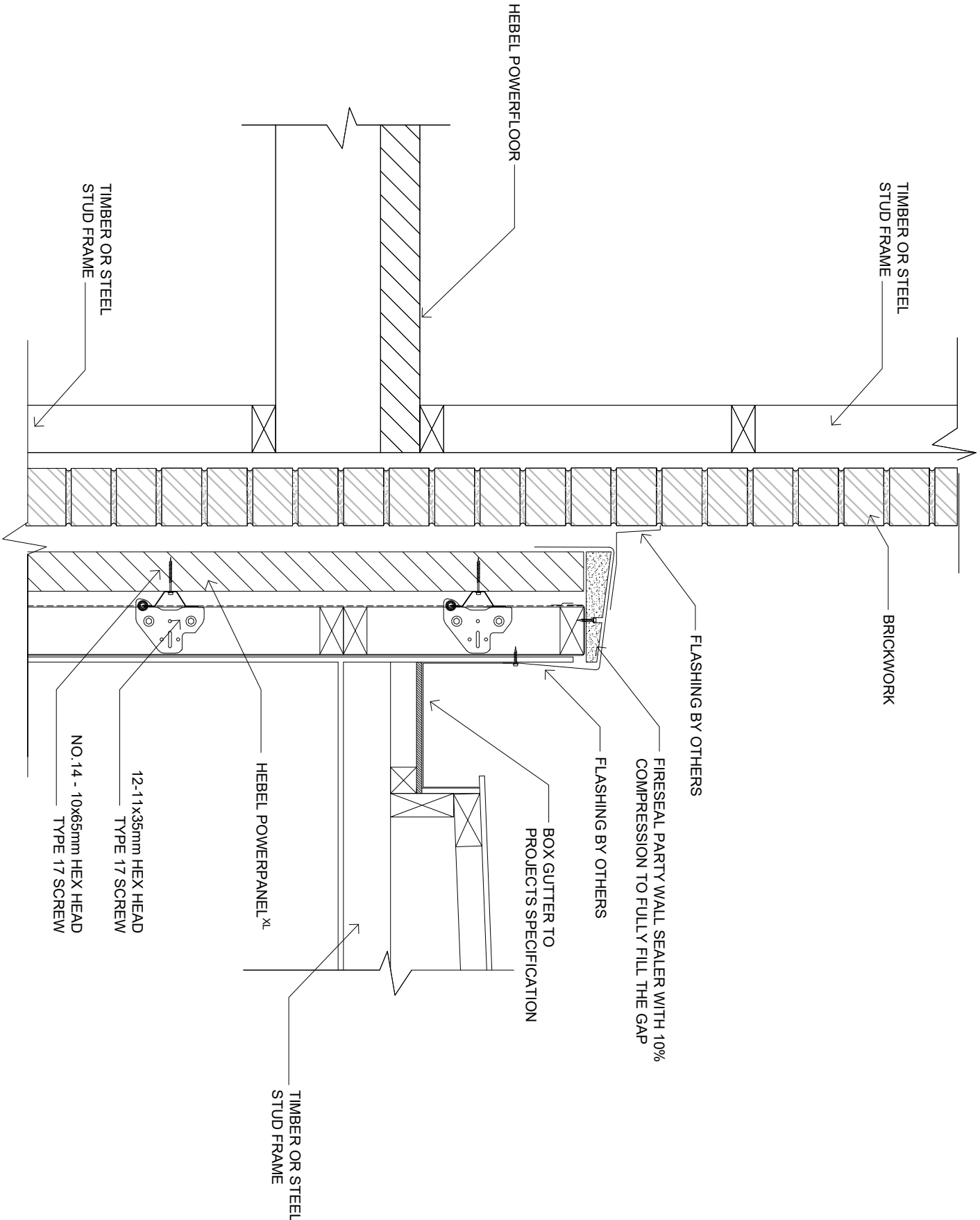
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WALL JUNCTION DETAILS & SECTIONS



ZERO BOUNDARY WALL JUNCTION DETAIL TO MASONRY  
(ACHIEVES FRL 90/90/90 WHEN INSTALLED AS PART OF THE WALL  
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SCALE 1:10



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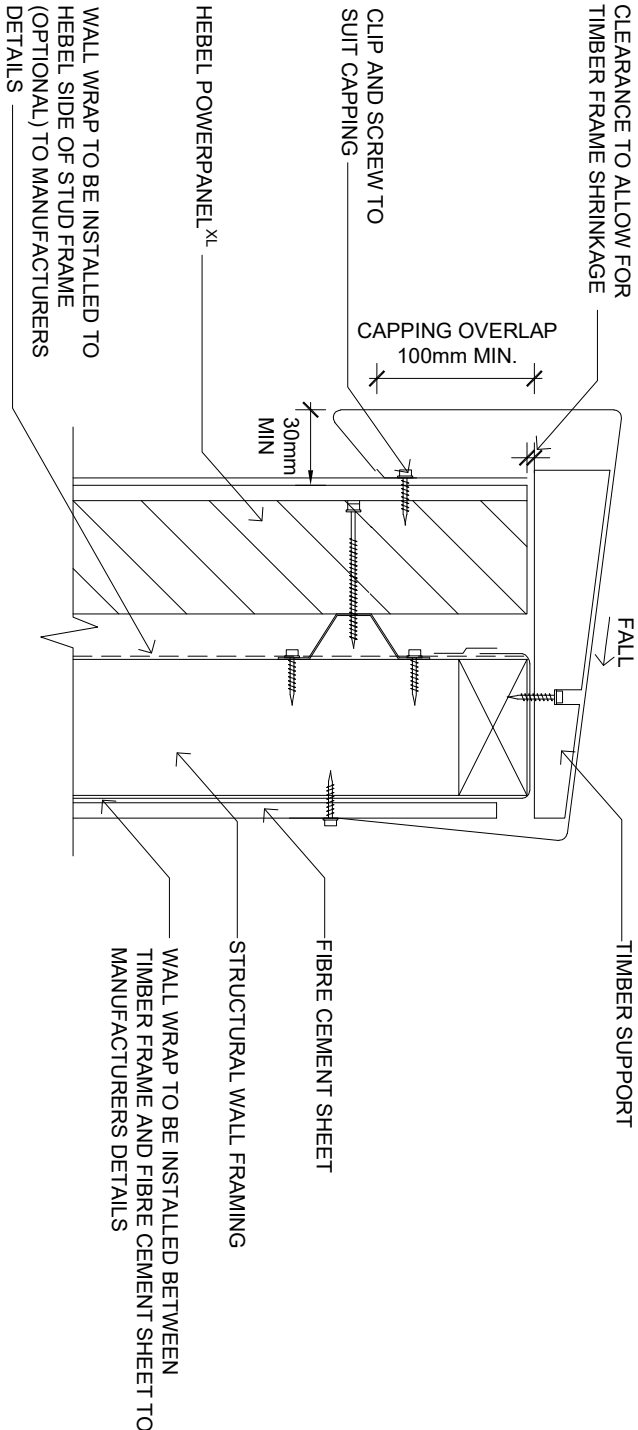
CSR Building Products Limited  
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Sydney, NSW 2000  
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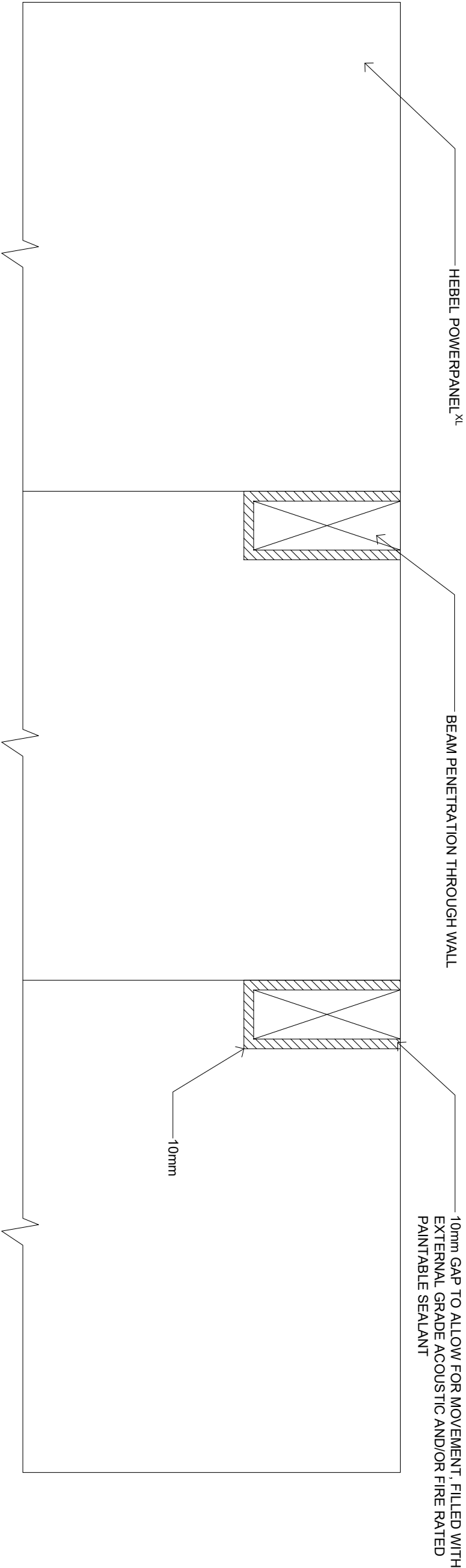
FIGURE		TITLE			
3.6.6.8		WALL JUNCTION DETAILS & SECTIONS			
DESIGN GUIDE REFERENCE		SCALE	SHEET SIZE	DRAWN	DATE
HELT016APRIL 19		1:10 @ A3	A3	HT	08.05.19
			SHEET NO.	CHECK	REVISION
			4 of 6	ZK	0

WALL JUNCTION DETAILS & SECTIONS

NOTE:  
PARAPET CAPPING SHALL BE DESIGNED AND FASTENED IN ACCORDANCE WITH SAA - HB39 2015 - INSTALLATION CODE FOR METAL ROOFING AND WALL CLADDING. STOP ENDS SHALL BE INCORPORATED TO ALL FLASHINGS.




PARAPET CAPPING  
SCALE 1:5




BEAM PENETRATION DETAIL  
SCALE 1:5

TITLE				WALL JUNCTION DETAILS & SECTIONS			
FIGURE		SCALE		SHEET SIZE		DRAWN	
3,6,6,9 & 3,6,6,13		1:5 @ A3		A3		HT	
DESIGN GUIDE REFERENCE				SHEET NO		CHECK	
HELT016APRIL 19				3 of 5		ZK	
						DATE	
						08.05.19	
						REVISION	
						D	



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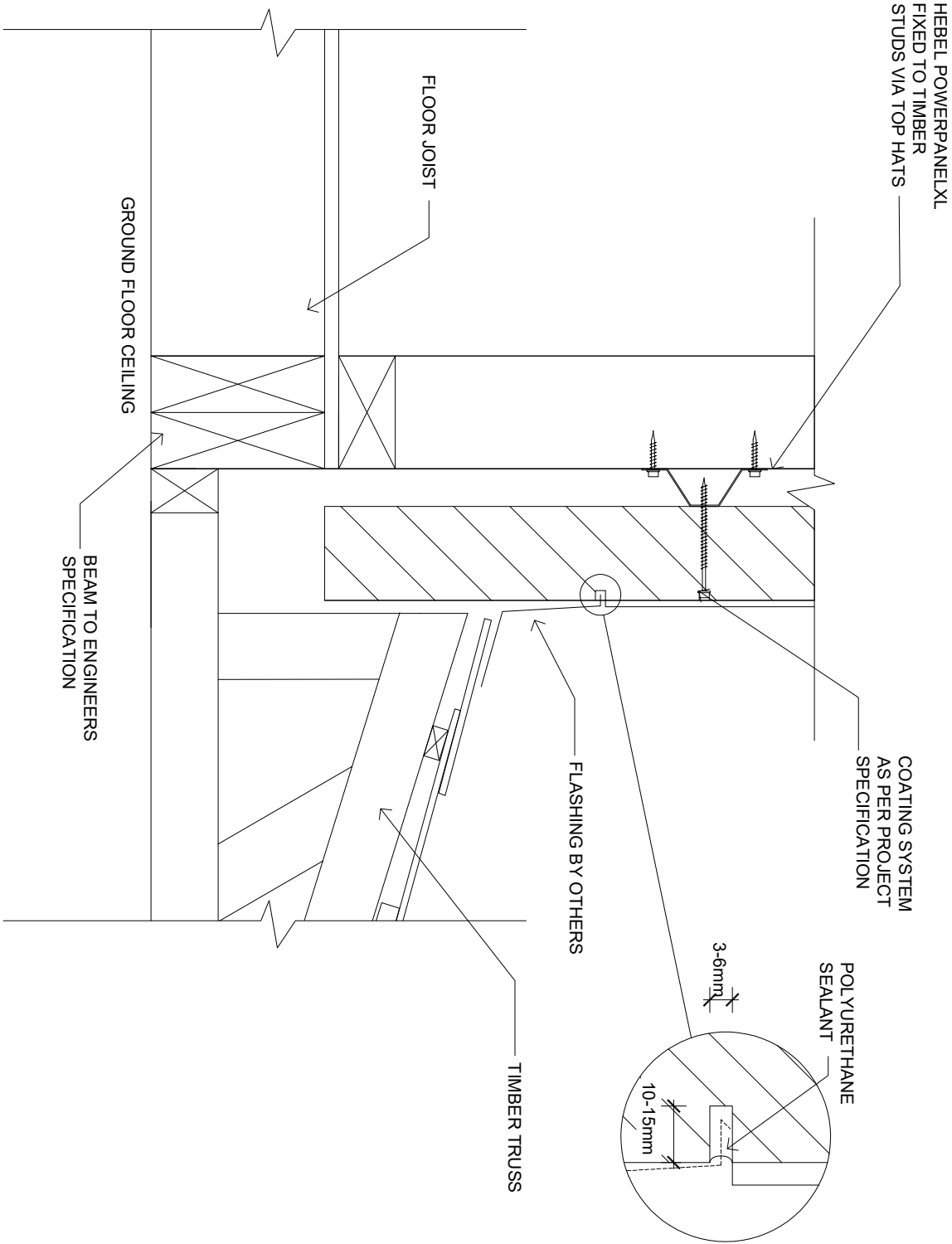


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WALL JUNCTION DETAILS & SECTIONS




HEBEL TO PITCHED ROOF JUNCTION  
SCALE 1:5



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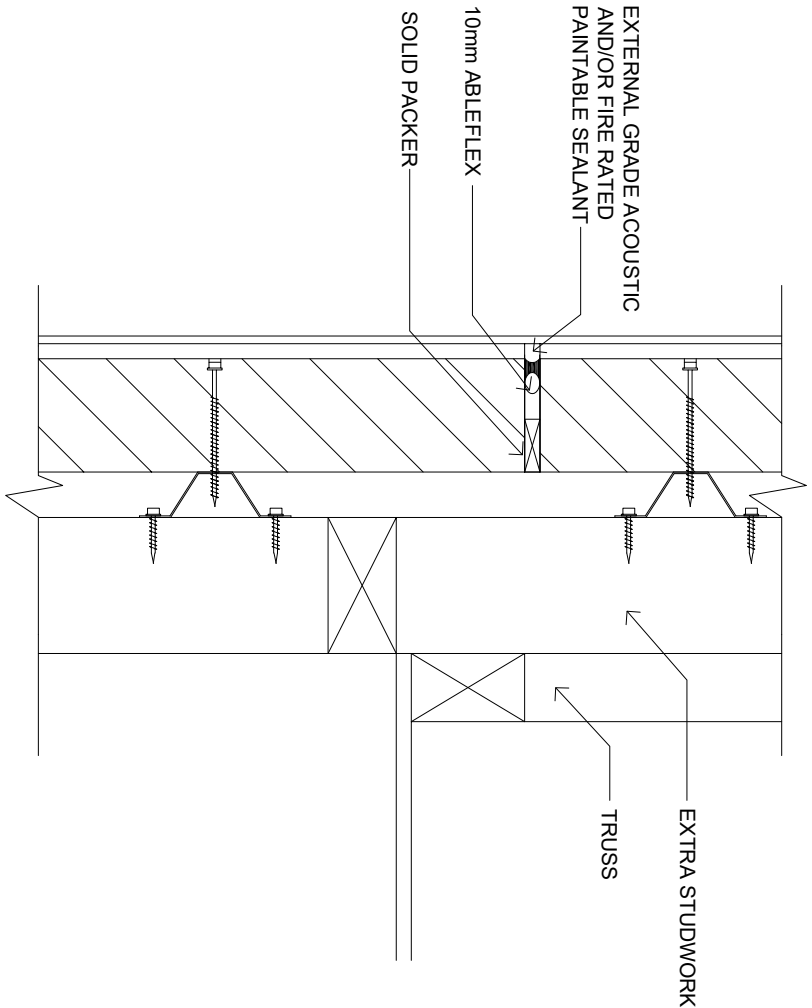
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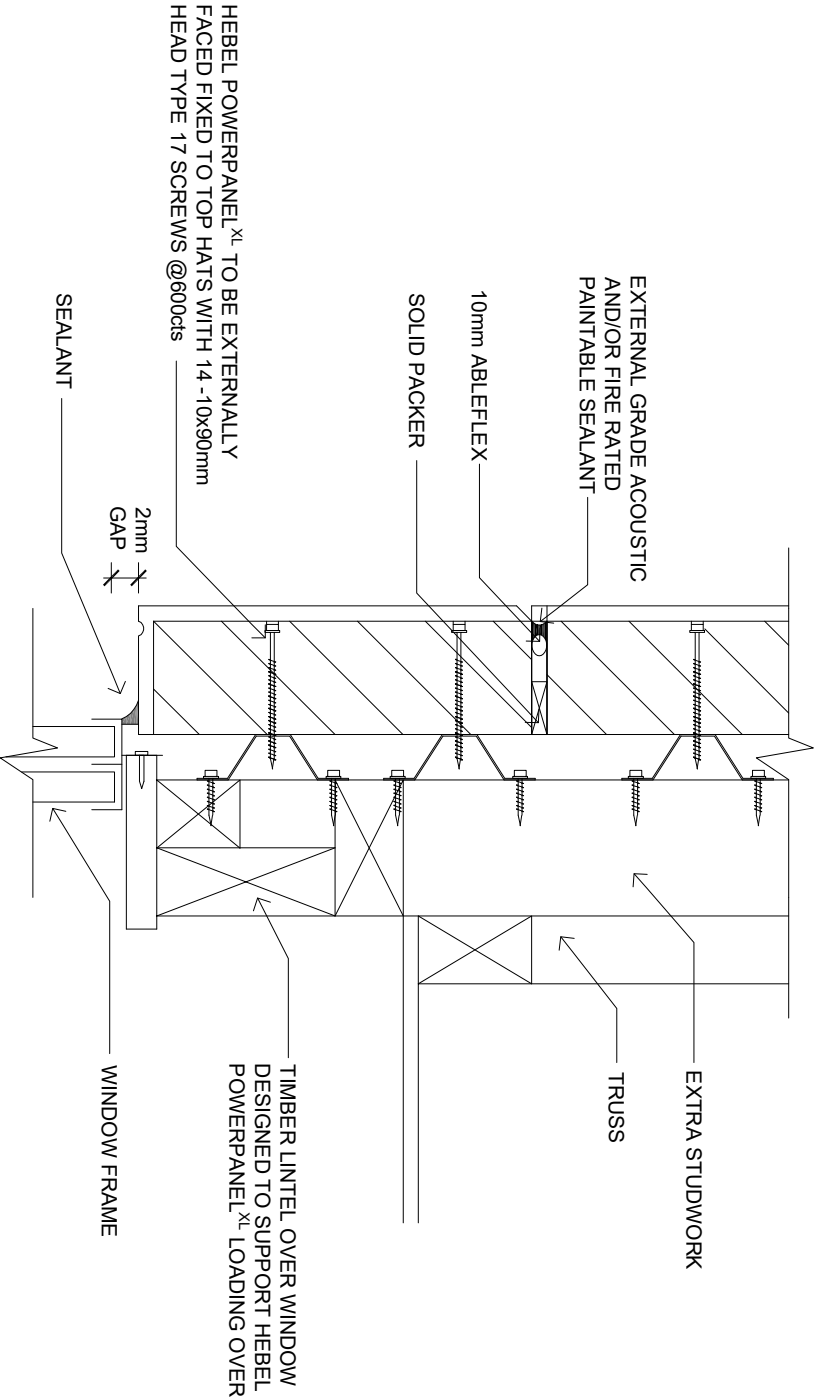
FIGURE		TITLE		WALL JUNCTION DETAILS & SECTIONS			
3.6.6.10		SCALE		SHEET SIZE			
DESIGN GUIDE REFERENCE		1:5 @ A3		A3		DRAWN	
HELT1016APRIL19		SHEET NO.		5 of 5		CHECK	
						ZK	
						DATE	
						08.05.19	
						REVISION	
						D	

WALL JUNCTION DETAILS & SECTIONS





GABLE END WALL DETAIL

SCALE 1:5

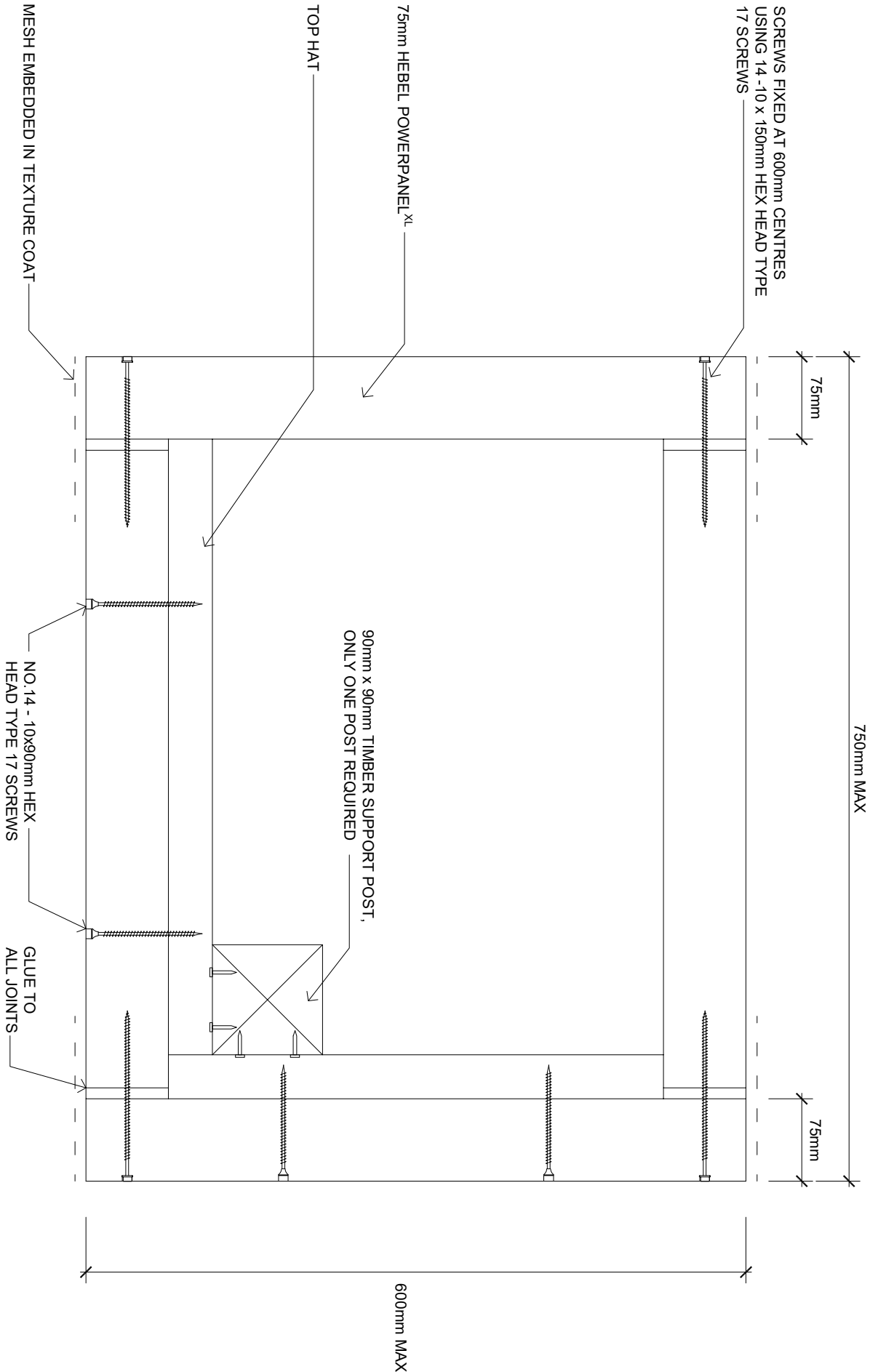


GABLE END WALL DETAIL - LINTEL PANEL OVER WINDOW

SCALE 1:5


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3.6.6.11 - 3.6.6.12		DESIGN GUIDE REFERENCE	WALL JUNCTION DETAILS & SECTIONS			
HELI17016APRIL 19		SCALE	1:5 @ A3	SHEET NO.	DRAWN	DATE
				4 of 5	HT	08.05.19
					CHECK	REVISION
					ZK	D

WALL JUNCTION DETAILS & SECTIONS




COLUMN DETAIL (GLUED AND SCREWED)  
SCALE 1:5

TITLE		WALL JUNCTION DETAILS & SECTIONS		
FIGURE	3.6.6.14	SCALE	SHEET SIZE	DRAWN
DESIGN GUIDE REFERENCE		1:5 @ A3	A3	HT
HELI17016APRIL 19			SHEET NO 5 of 5	CHECK ZK
				DATE 08.05.19
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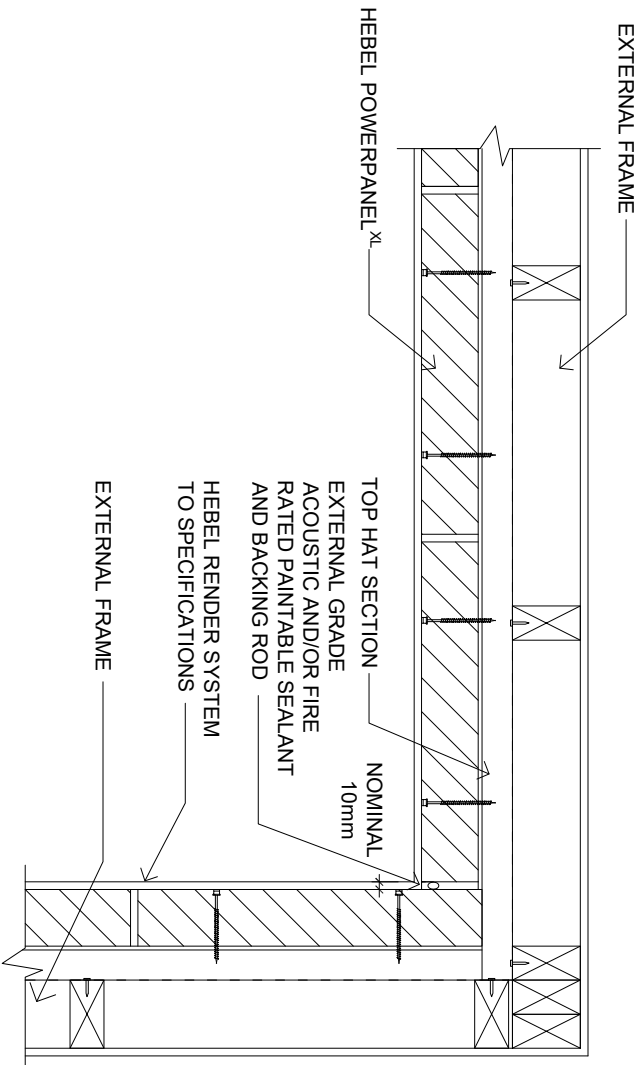
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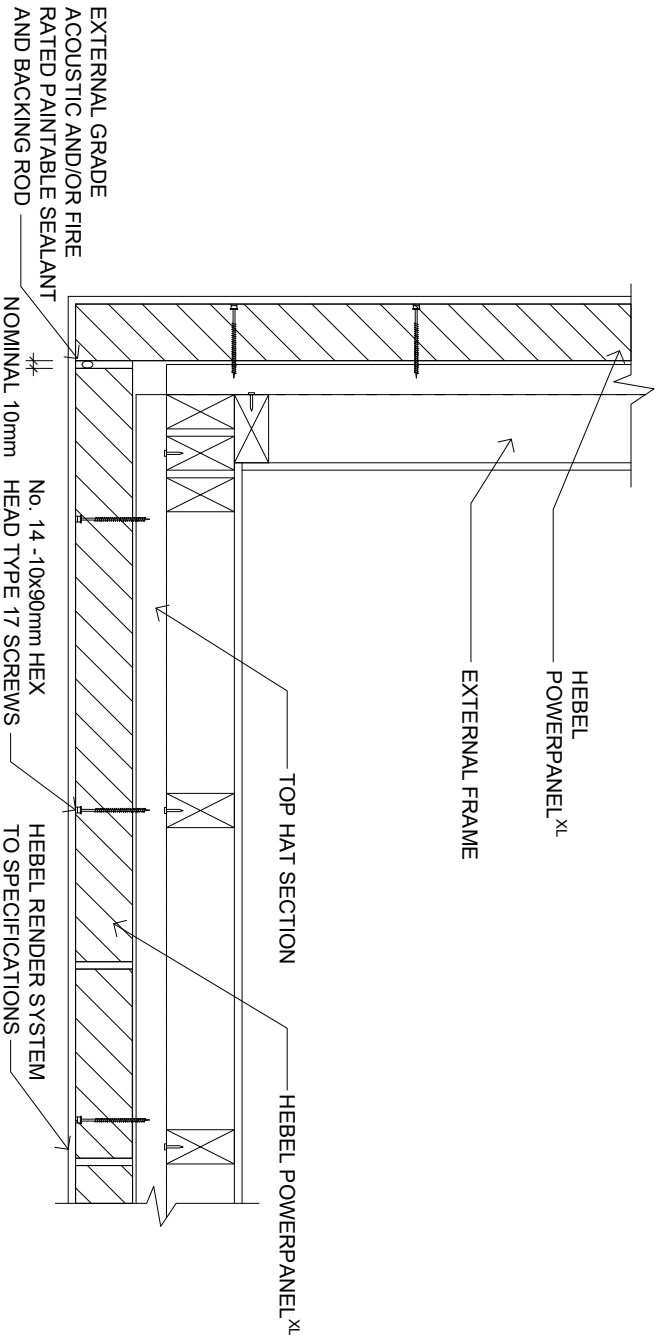


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CONTROL JOINT DETAILS



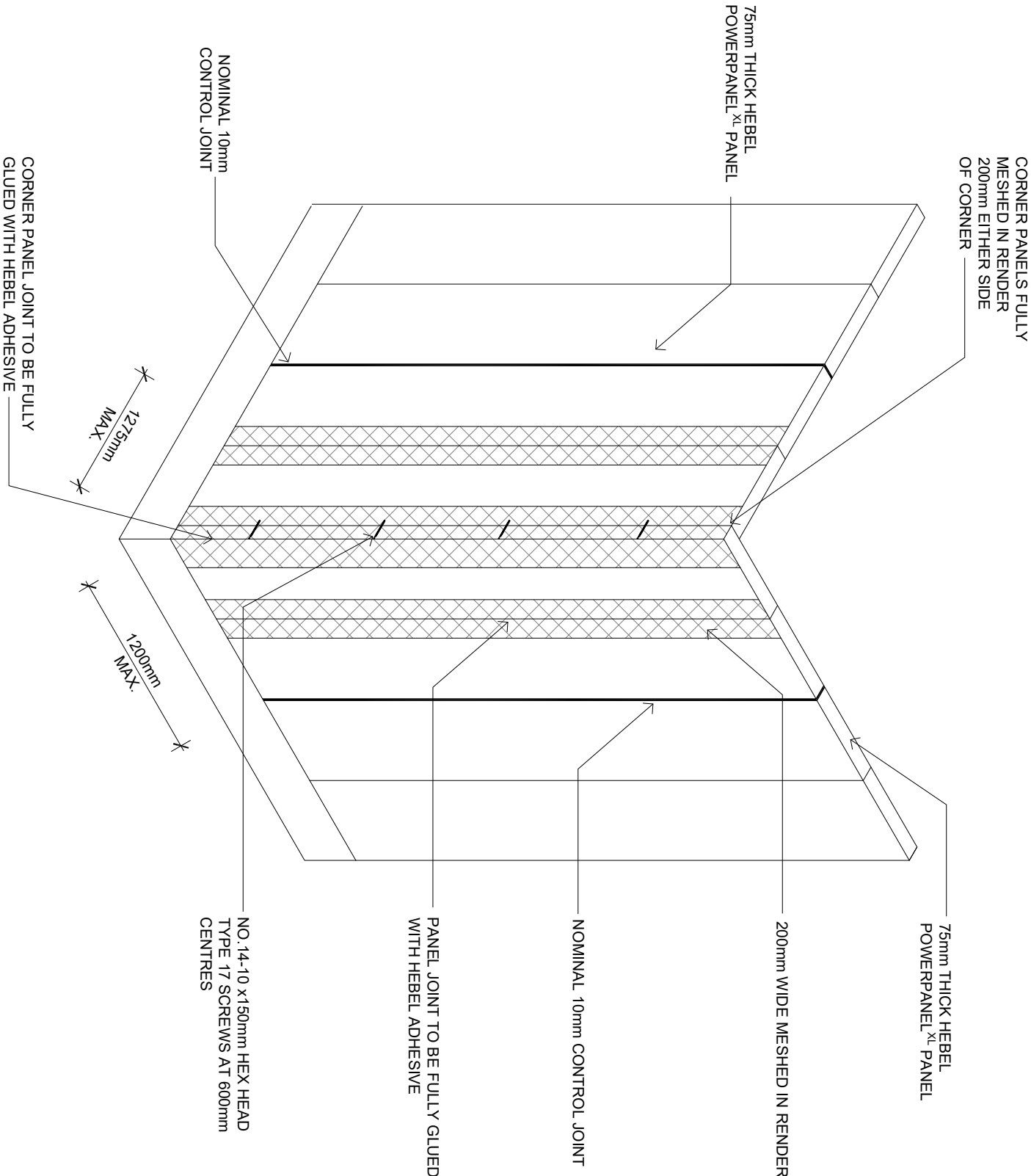
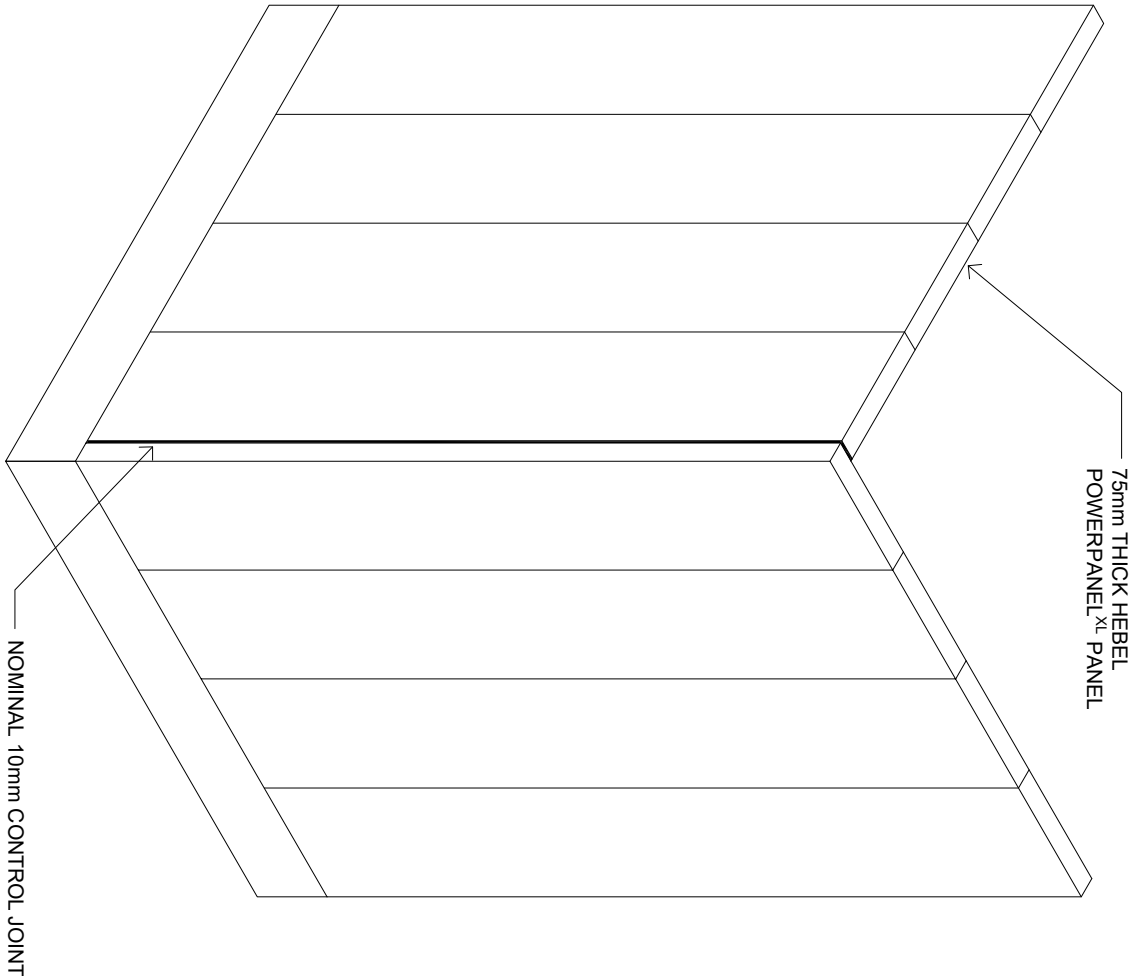
INTERNAL CORNER  
(ACHIEVES FRL -/120/120 WHEN INSTALLED AS PART OF THE WALL SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL XL EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE)  
SCALE 1:10



EXTERNAL CORNER  
(ACHIEVES FRL -/120/120 WHEN INSTALLED AS PART OF THE WALL SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL XL EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE)  
SCALE 1:10

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	3.6.7.1 - 3.6.7.2	SCALE	1:10 @ A3	SHEET NO	DATE
	DESIGN GUIDE REFERENCE	1:10 @ A3	A3	1 of 7	08.05.19
HELT016APRIL19			CHECK	HT	REVISION
			ZK		E



CONTROL JOINT DETAILS



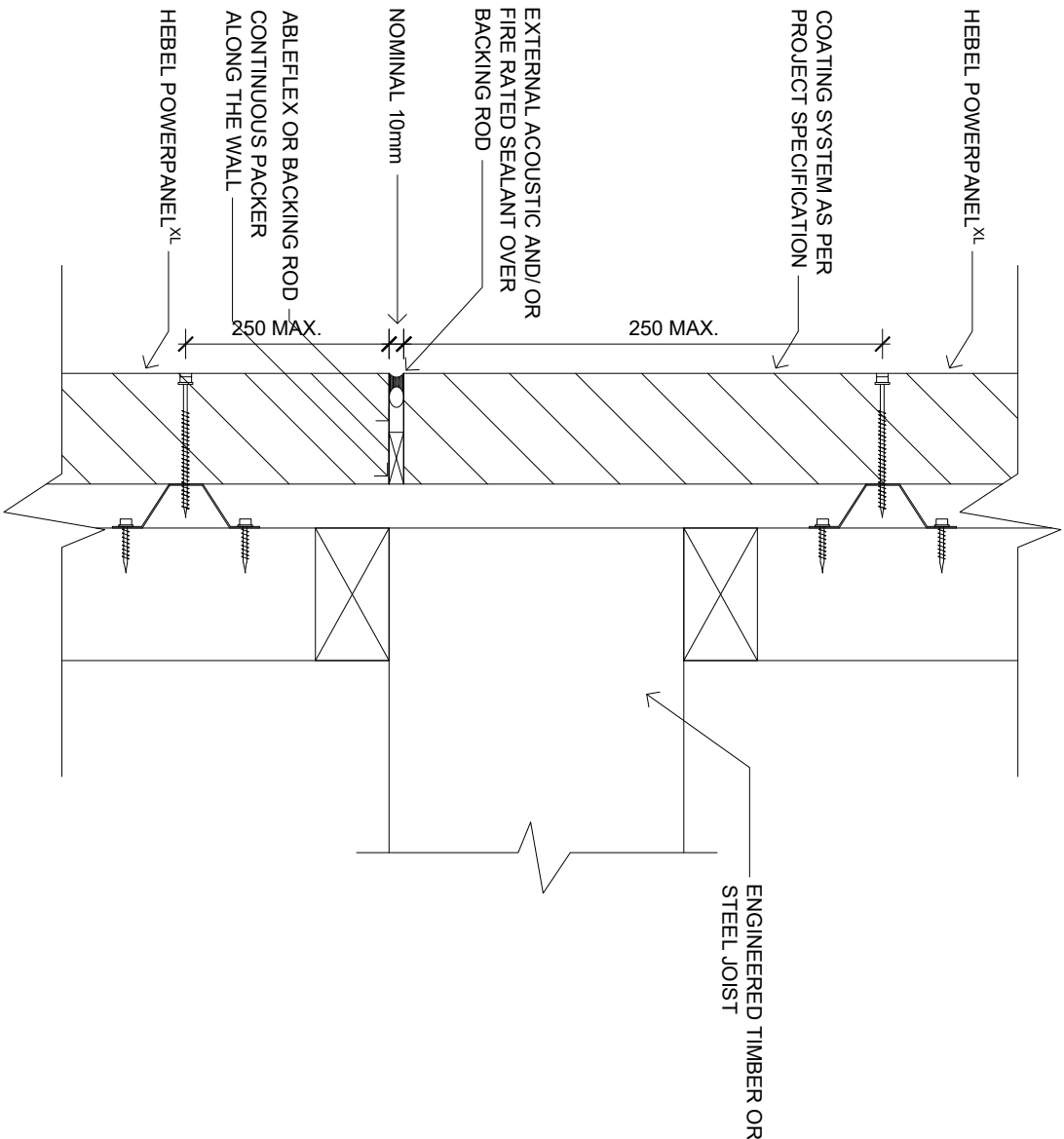
NOTE: CONTROL JOINT TO BE LOCATED AT OPENING IF LOCATED WITHIN THIS 1200 REGION

TYPICAL DETAIL FOR CONTROL JOINTS  
POSITIONED ON CORNER  
NTS

NTS

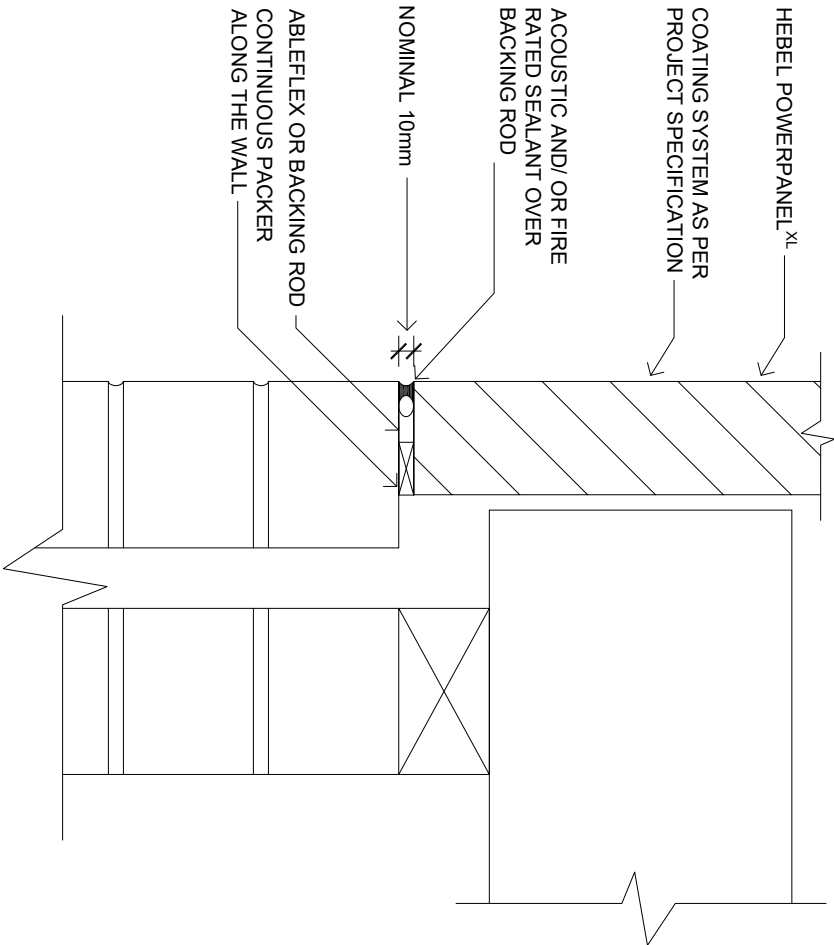
<div><div><div><div>CSR BUILDING PRODUCTS LTD</div><div>Head Office Tmils 3, 39 DELIA RD, NORTH RYDE NSW 2113</div><div>LOCKED BAG 1365, NORTH RYDE BC NSW 1670</div><div>A.B.N. 55 008 631 356</div><div>Ph: 1300 369 448</div><div>www.hebelaustralia.com.au</div></div><div><div><div><div>The better way to build</div><div>CSR Building Products Limited</div><div>A.B.N. 55 008 631 356</div></div><div><div>1 to 13 Melbourne Park Road</div><div>Sydney NSW 2000</div><div>Phone: 02 4363 3300</div><div>Fax: 02 4363 3300</div></div></div></div></div></div>		FIGURE	TITLE				
		3.6.7.3 - 3.6.7.4		SCALE		CONTROL JOINT DETAILS	
DESIGN GUIDE REFERENCE		HELT1016APRIL 19		NTS @ A3		SHEET SIZE	
						A3	
SHEET NO.		2 of 7		CHECK		DRAWN	
				ZK		HT	
REVISION		D				DATE	
						08.05.19	

CONTROL JOINT DETAILS



TYPICAL HORIZONTAL CONTROL JOINT -  
ENGINEERED TIMBER OR STEEL STUD FRAME  
(ACHIEVES FRL -/120/120 WHEN INSTALLED AS PART OF THE  
WALL SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL XL  
EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE)


SCALE 1:5




HORIZONTAL CONTROL JOINT -  
CAVITY BRICKWORK TO HEBEL POWERPANEL XL

SCALE 1:5


TITLE		CONTROL JOINT DETAILS		DATE	
FIGURE	3.6.7.5 - 3.6.7.6	SCALE	1:5 @ A3	DRAWN	HT
DESIGN GUIDE REFERENCE	HELI1016APRIL 19	SHEET SIZE	A3	CHECK	ZK
		SHEET NO	3 of 7	REVISION	E



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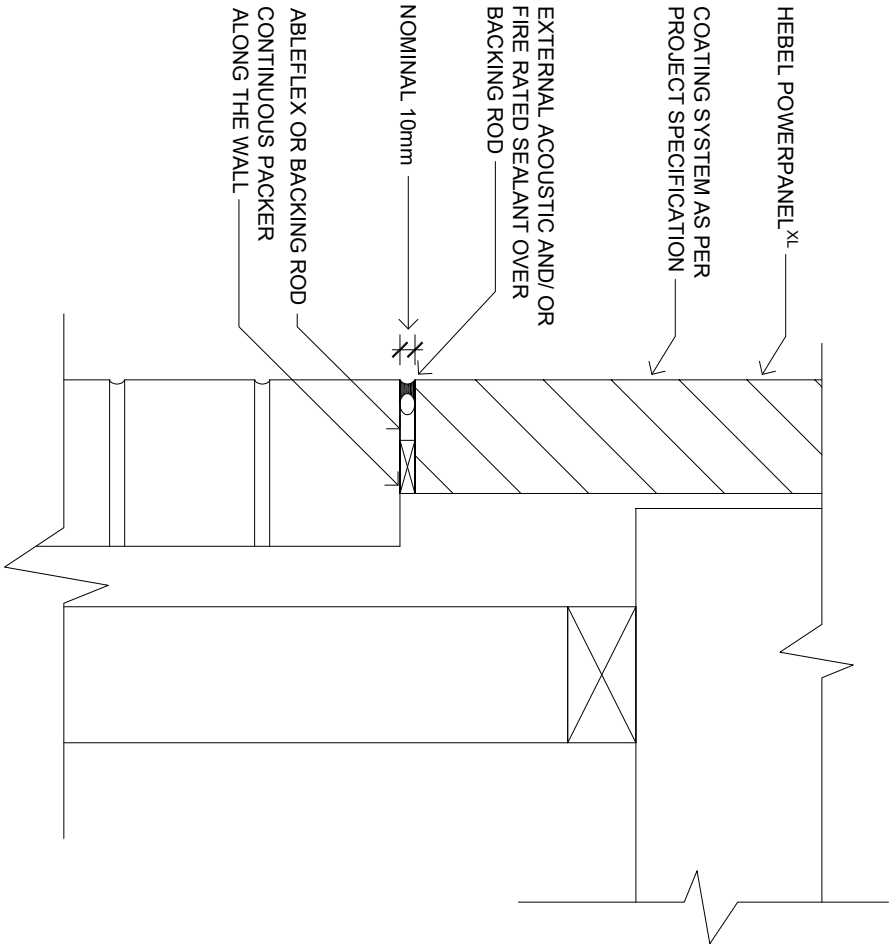


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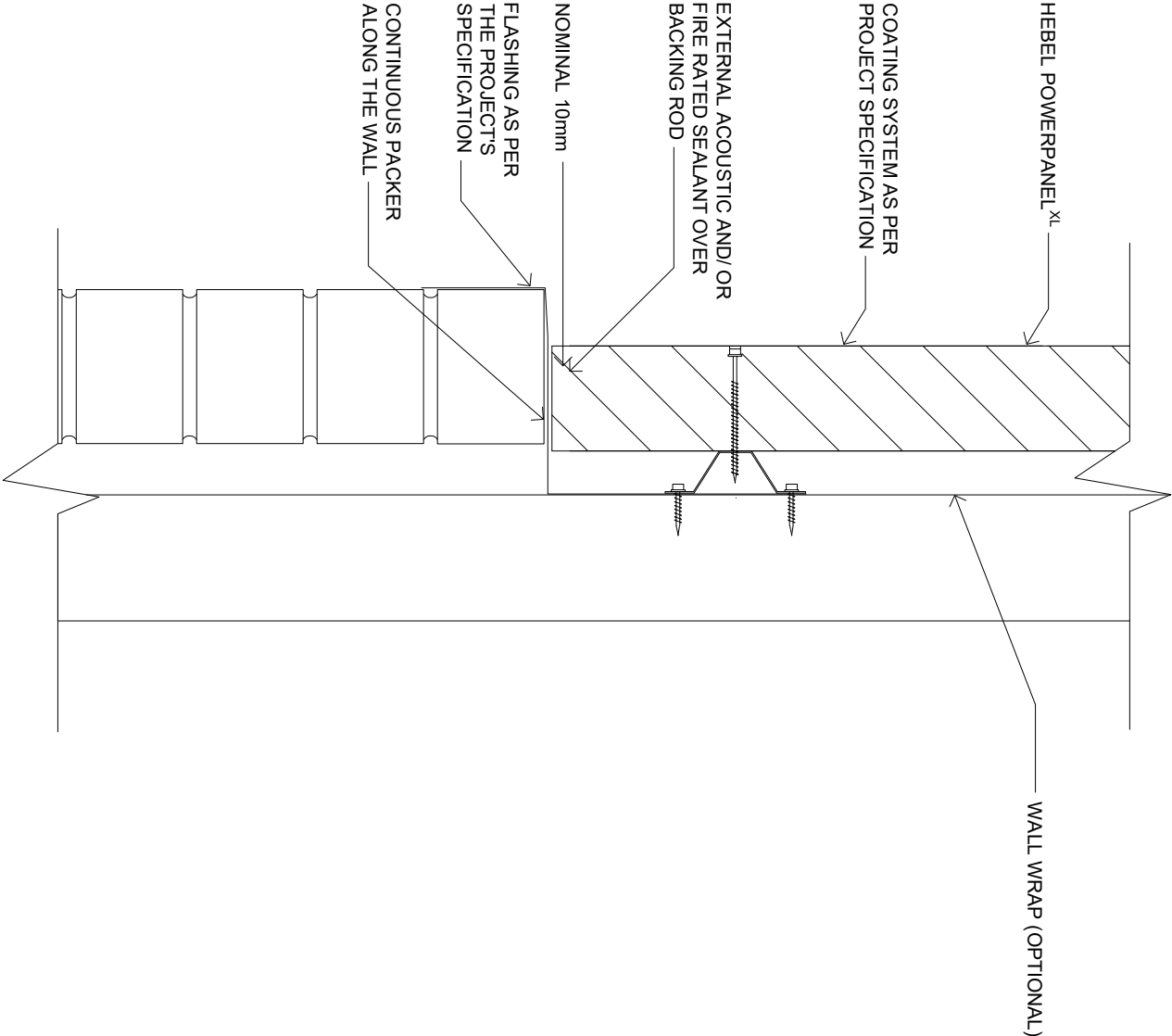


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CONTROL JOINT DETAILS



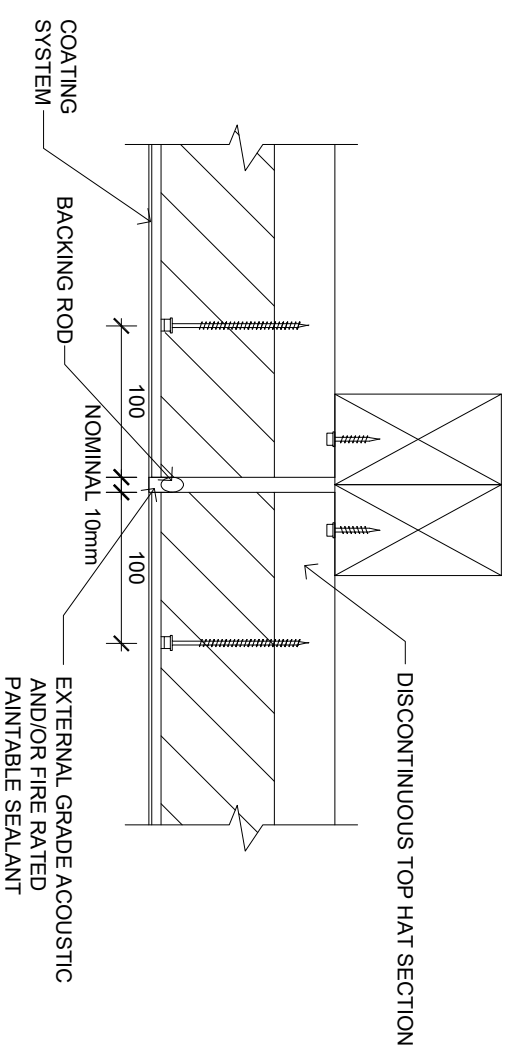
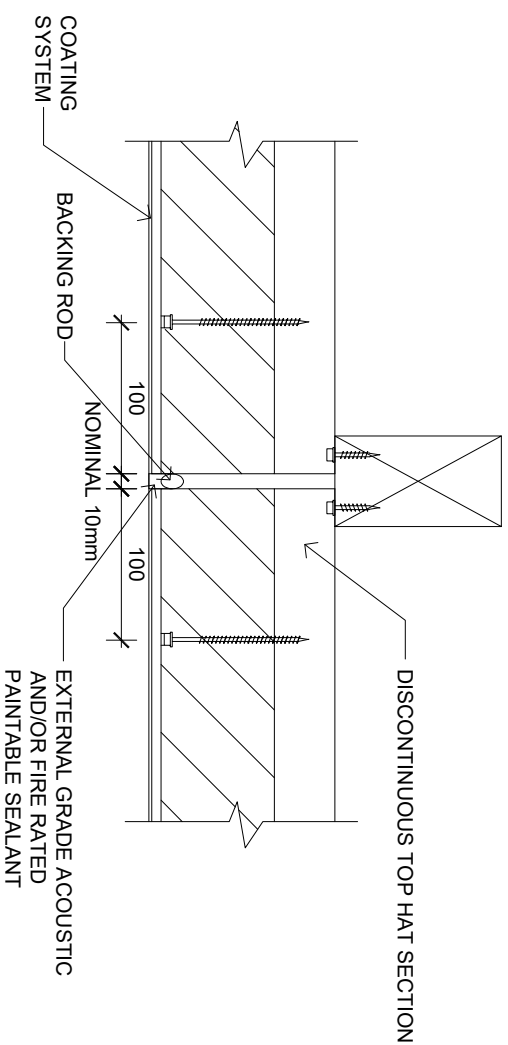
HORIZONTAL CONTROL JOINT -  
BRICK VENEER TO HEBEL POWERPANEL XL  
SCALE 1:5



HORIZONTAL CONTROL JOINT -  
BRICK VENEER TO HEBEL POWERPANEL XL  
SCALE 1:5

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	DESIGN GUIDE REFERENCE	SCALE	SHEET SIZE	DRAWN	DATE	
	HELI1016APRIL19	1:5 @ A3	A3 4 of 7	HT ZK	08.05.19 D	

## CONTROL JOINT DETAILS



## TYPICAL VERTICAL CONTROL JOINT


(ACHIEVES FRL -120/120 WHEN INSTALLED AS PART OF THE WALL SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL<sup>XL</sup> EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE)

SCALE 1:5


## TYPICAL VERTICAL CONTROL JOINT

(ACHIEVES FRL -/120/120 WHEN INSTALLED AS PART OF THE WALL SYSTEM. SEE SECTION 2.2 OF HEBEL POWERPANEL<sup>XL</sup> EXTERNAL WALLS DESIGN AND INSTALLATION GUIDE)

SCALE 1:5



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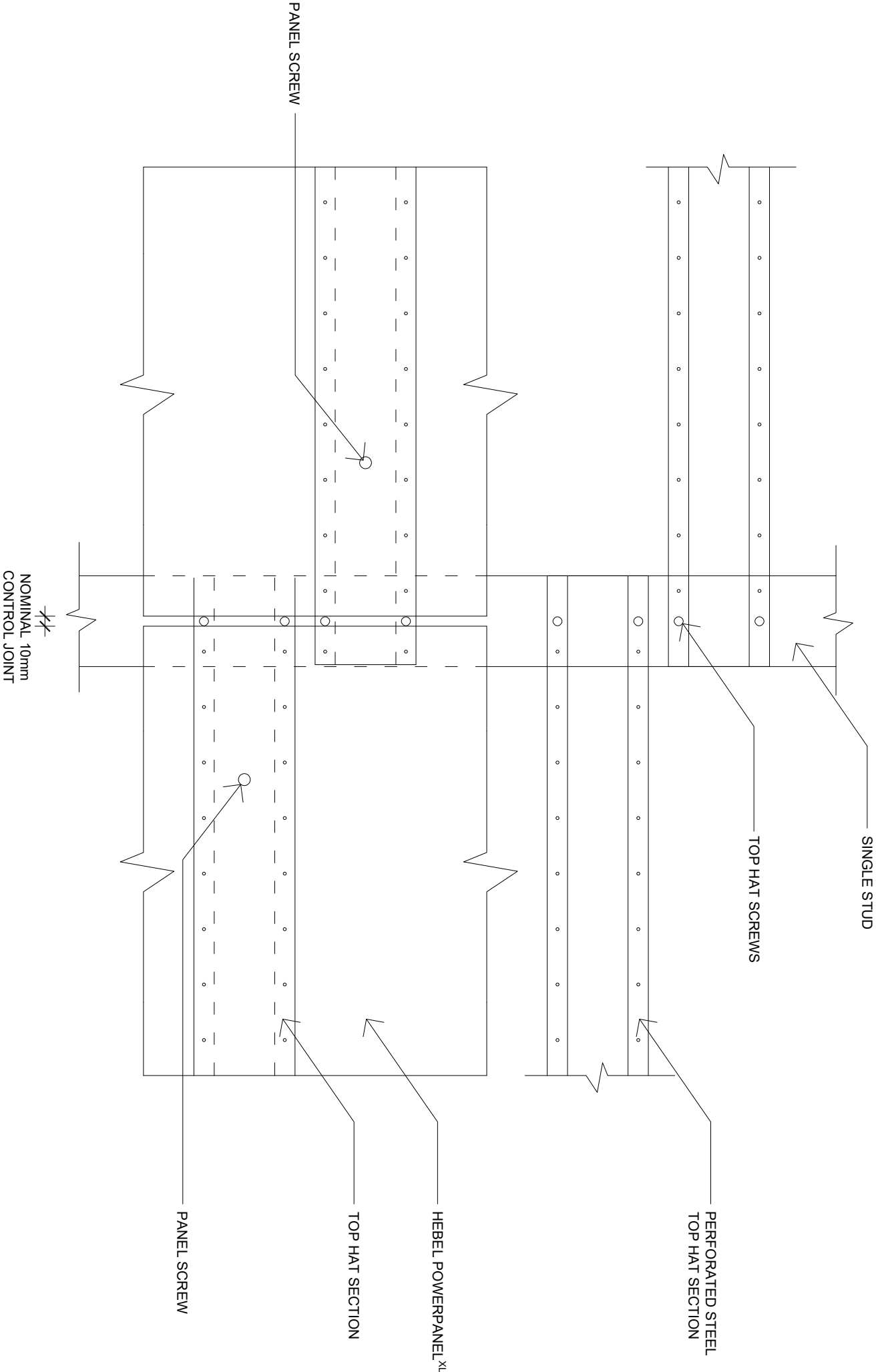
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 A.B.N. 55 008 631 366

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 Somers, NSW 2500  
 Phone: 02 4802 3300  
 Fax: 02 4802 3300

FIGURE		TITLE			
3.6.7.9 - 3.6.7.10		CONTROL JOINT DETAILS			
DESIGN GUIDE REFERENCE		SCALE			
HELIT016APRIL 19		SHEET SIZE		DATE	
		A3		08.05.19	
		SHEET NO.		REVISION	
		5 of 7		ZK E	




CONTROL JOINT DETAILS




DISCONTINUOUS TOP HATS ON A SINGLE STUD  
SCALE 1:5

TITLE				CONTROL JOINT DETAILS			
FIGURE	3, 6, 7, 11	SCALE	DESIGN GUIDE REFERENCE	SHEET SIZE	DRAWN	DATE	
	HELI/T016A/PRL 19	1:5 @ A3	DESIGN GUIDE REFERENCE	A3	HT	08.05.19	
				SHEET NO.	CHECK	REVISION	
				6 of 7	ZK	D	



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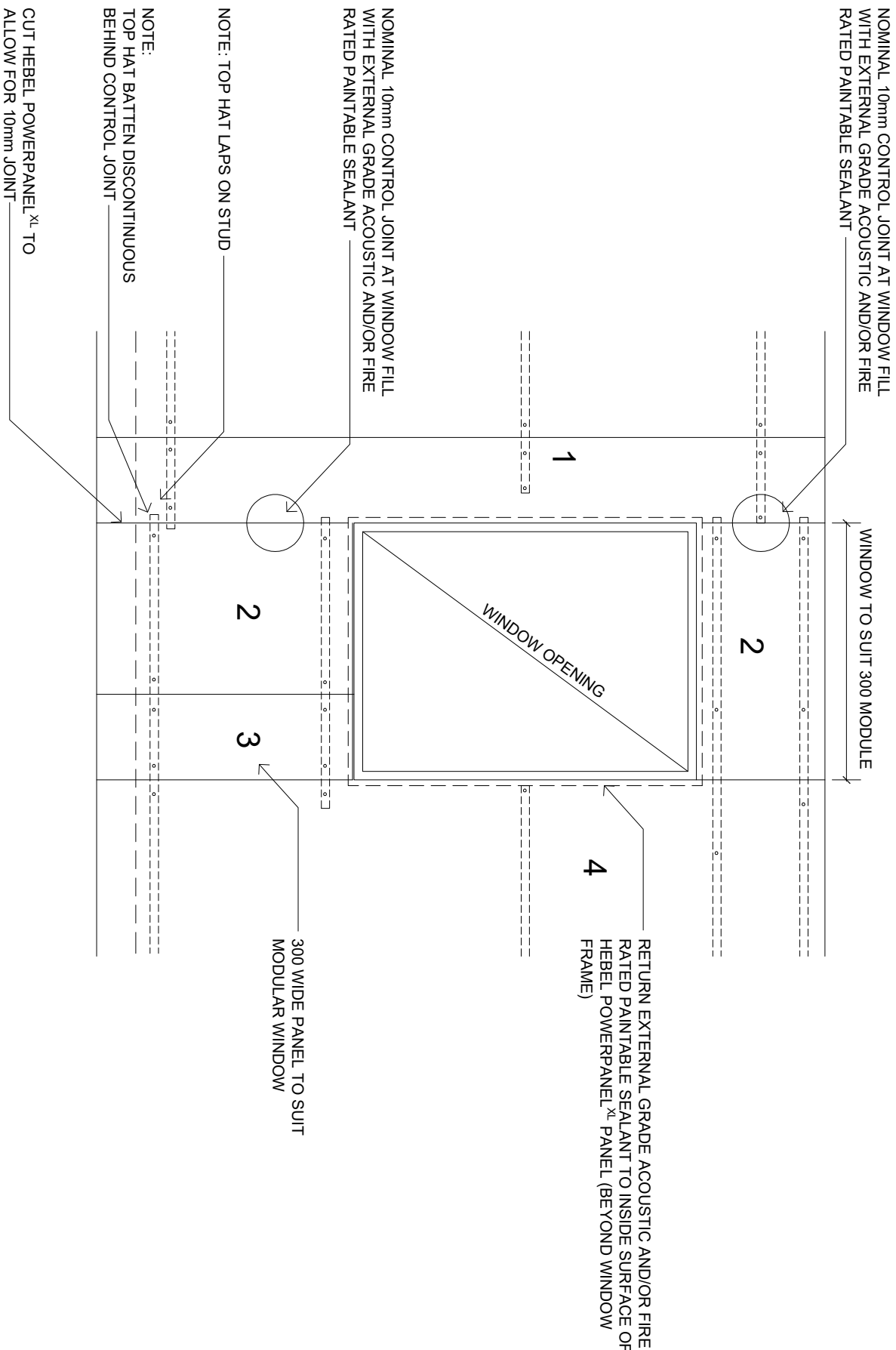


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CONTROL JOINT DETAILS



TYPICAL WINDOW CONTROL JOINT DETAIL - LINTEL OVER  
SCALE 1:5

TITLE				CONTROL JOINT DETAILS			
FIGURE		SCALE		SHEET SIZE		DRAWN	
3.6.7.12		1:20 @ A3		A3		HT	
DESIGN GUIDE REFERENCE				SHEET NO		CHECK	
HELT1016APRIL19				7 of 7		ZK	
						DATE	
						08.05.19	
						REVISION	
						C	

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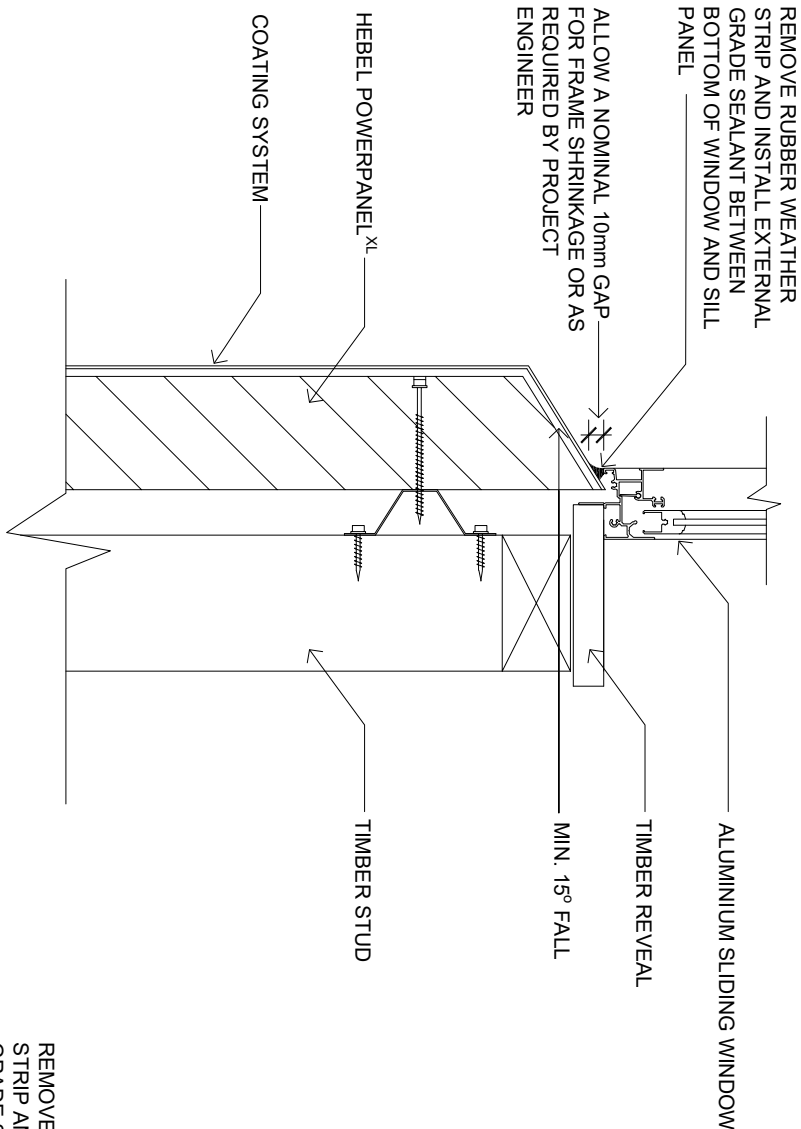
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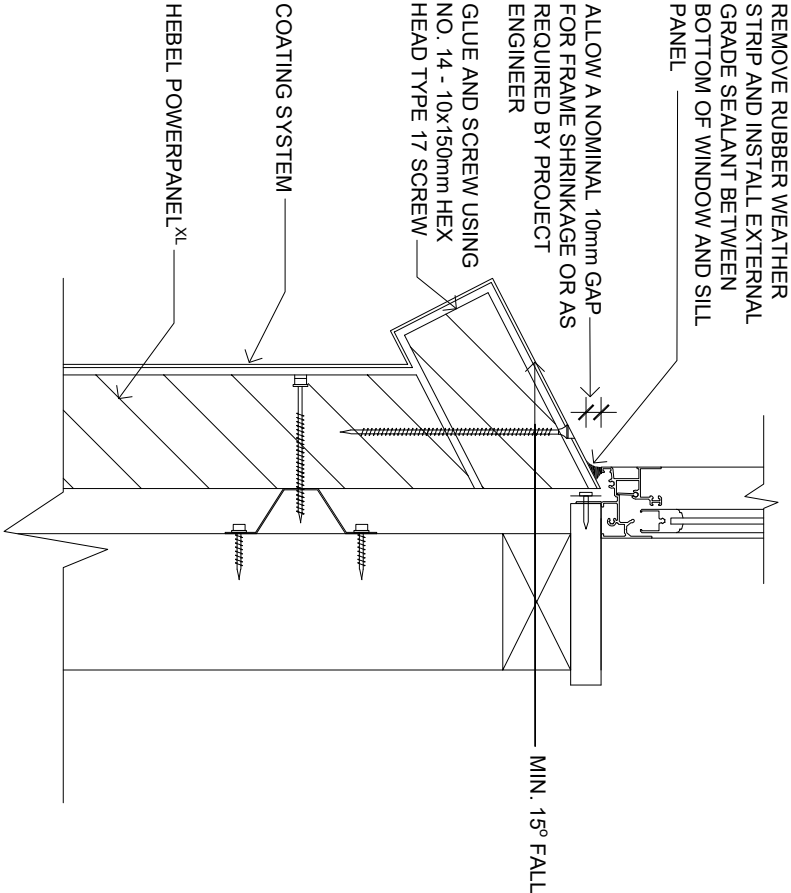
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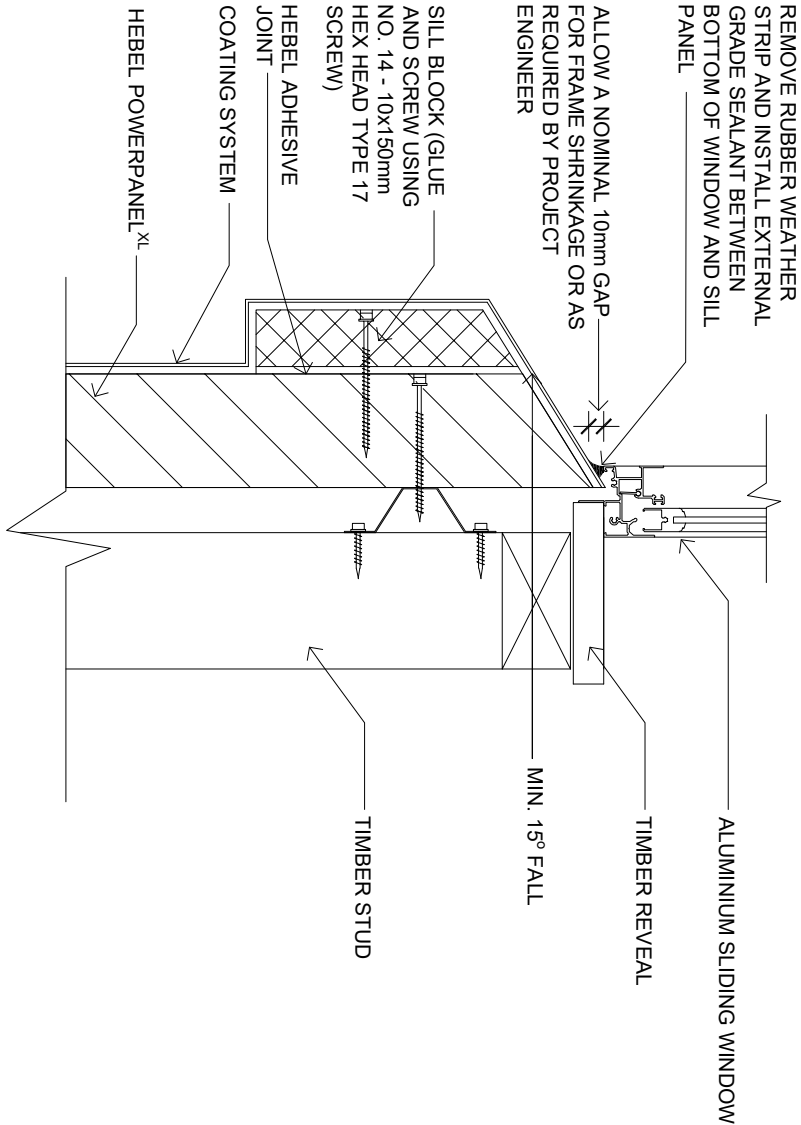
DOOR AND WINDOW DETAILS



TYPICAL WINDOW SILL DETAIL  
ALUMINIUM WINDOW FRAME -  
OPTION 1  
SCALE 1:5



TYPICAL WINDOW SILL DETAIL  
ALUMINIUM WINDOW FRAME -  
OPTION 3  
SCALE 1:5



TYPICAL WINDOW SILL DETAIL  
ALUMINIUM WINDOW FRAME -  
OPTION 2  
SCALE 1:5

- NOTE:
1. DRAINAGE OF WINDOW AND DOOR SILLS, IN EITHER ALUMINIUM OR TIMBER, SHOULD BE DIRECTED TO THE OUTSIDE OF THE BUILDING, ON TOP OF THE WINDOW SILL.
  2. INCLUDE SUITABLE BACKING ROD AND SEALANT FOR 5-10mm GAPS.

FIGURE		TITLE			
3.6.8.1 - 3.6.8.3		DOOR AND WINDOW DETAILS			
SCALE		SHEET SIZE		DATE	
1:5 @ A3		A3		08.05.19	
DESIGN GUIDE REFERENCE		DRAWN		HT	
HELT016APRIL 19		SHEET NO		CHECK	
		1 of 4		ZK	
				REVISION	
				D	

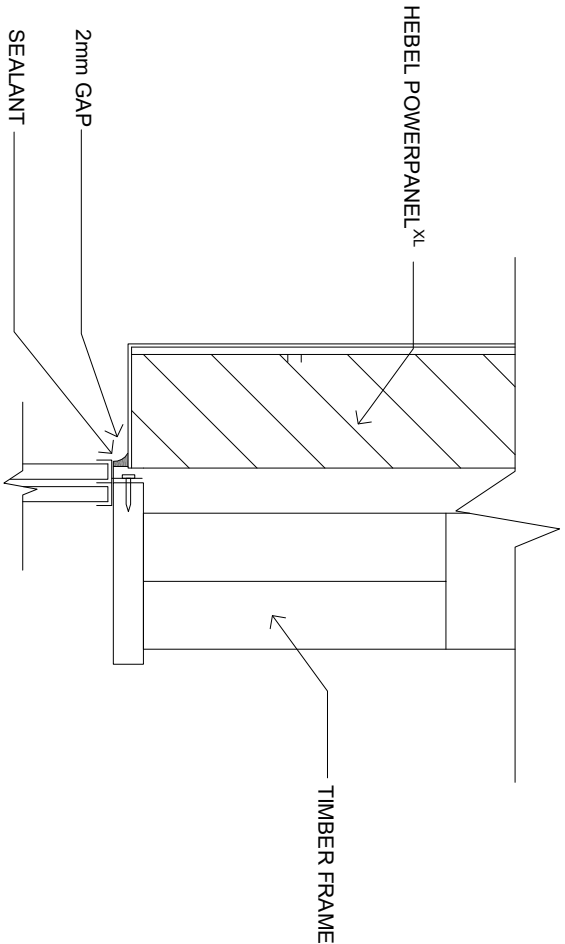


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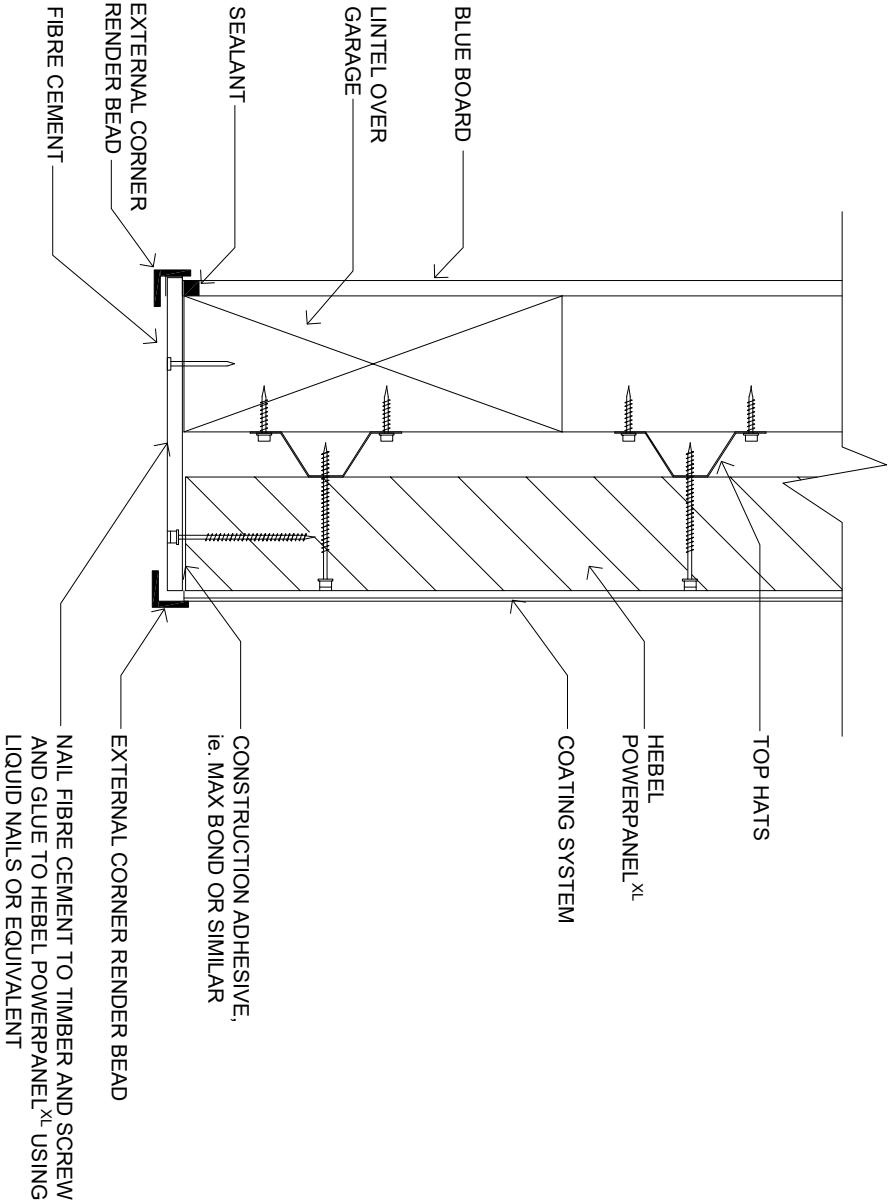


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DOOR AND WINDOW DETAILS



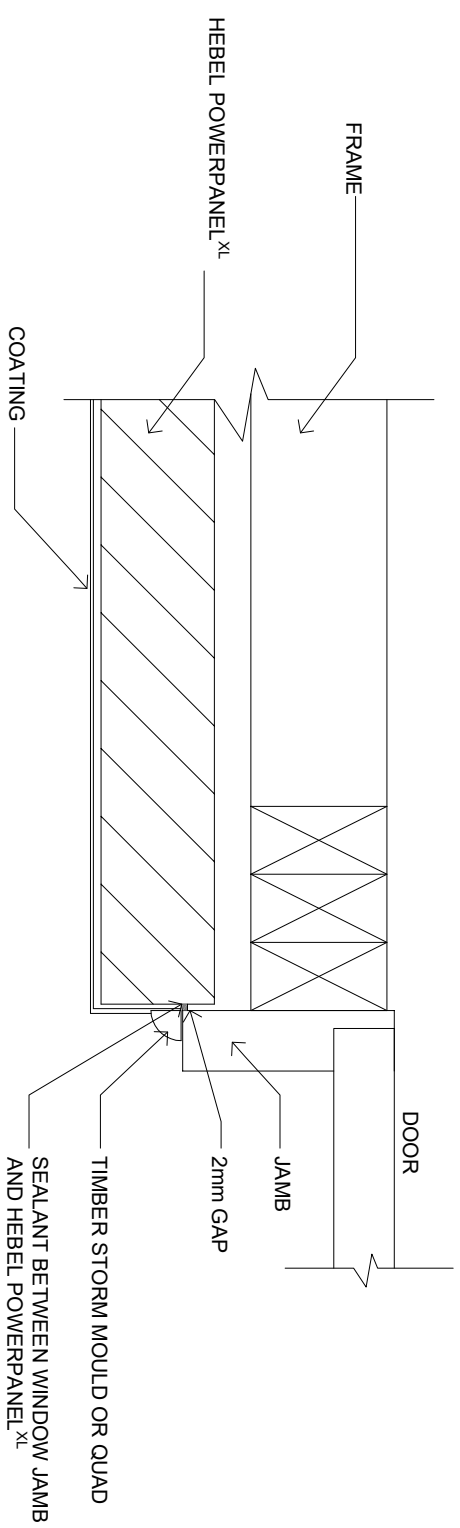
HEADER DETAIL  
SCALE 1:5



GARAGE HEAD DETAIL  
SCALE 1:5

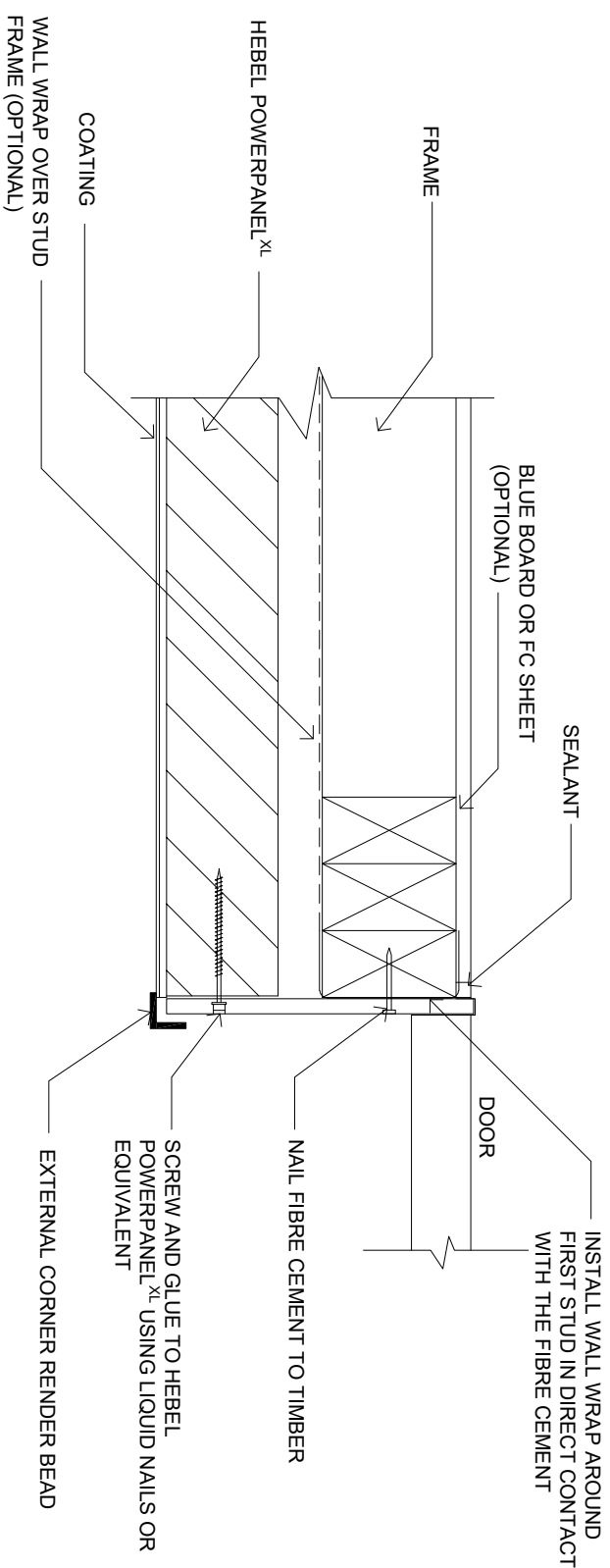
<div><div><div>CSR</div><div>CSR BUILDING PRODUCTS LTD</div><div>HEBEL AUSTRALIA PTY LTD LOCKED BAG 1365 NORTH RYDE NSW 1570 A.B.N. 55 008 631 356 Ph: 1300 369 448 www.hebelaustralia.com.au</div></div><div><div><div>hebel</div><div>The better way to build</div><div>CSR Building Products is a Lend Lease Group</div></div><div><div>1111 Melbourne Road Sydney NSW 2000 Ph: 02 44033300 Fax: 02 44033300</div></div></div></div>	FIGURE	TITLE			
	3.6.8.4 - 3.6.8.5	DOOR AND WINDOW DETAILS			
	DESIGN GUIDE REFERENCE	SCALE	SHEET SIZE	DRAWN	DATE
HELI1016APRIL 19	1:5 @ A3	A3	HT	08.05.19	
		SHEET NO	CHECK	REVISION	
		2 of 4	ZK	D	

## DOOR AND WINDOW DETAILS



Garage Door - Jamb Detail -  
Option 1

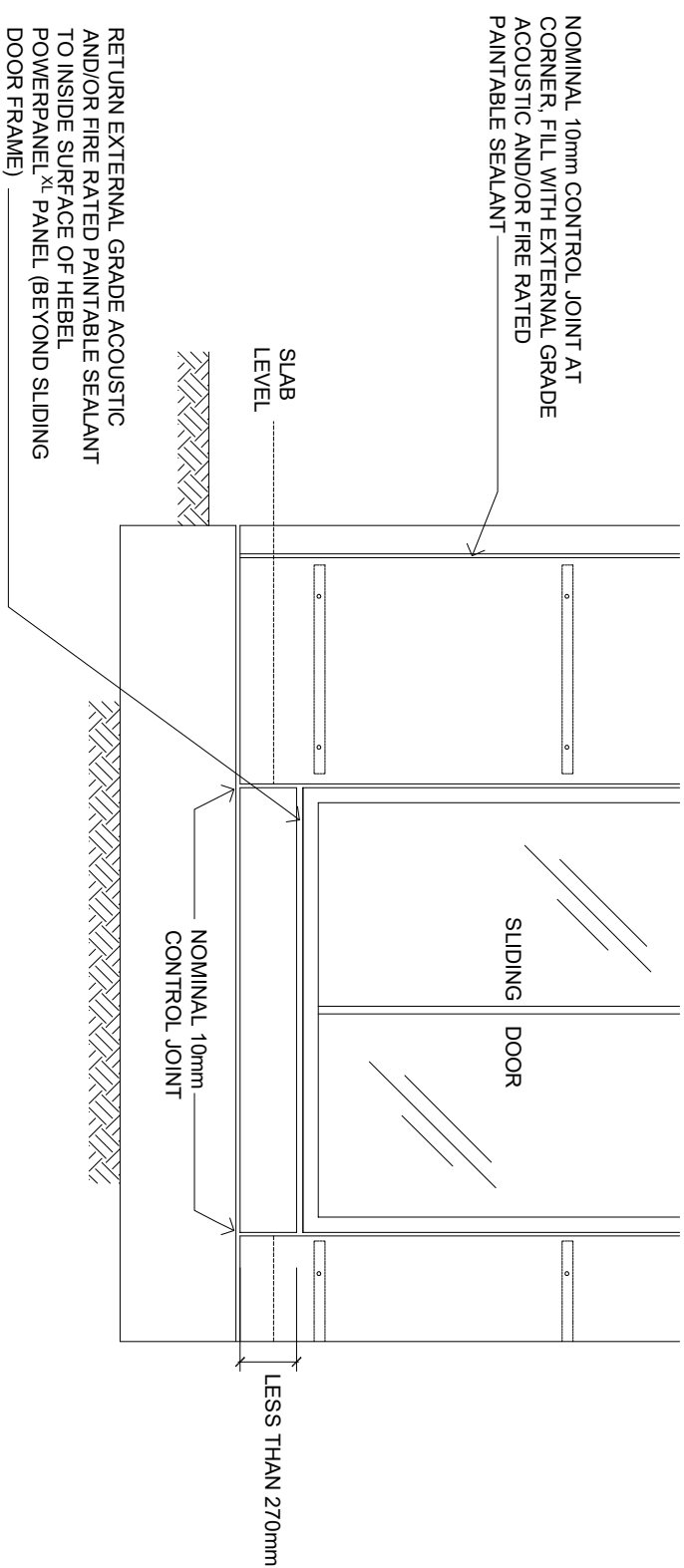
SCALE 1:5



Garage Door - Jamb Detail -  
Option 2

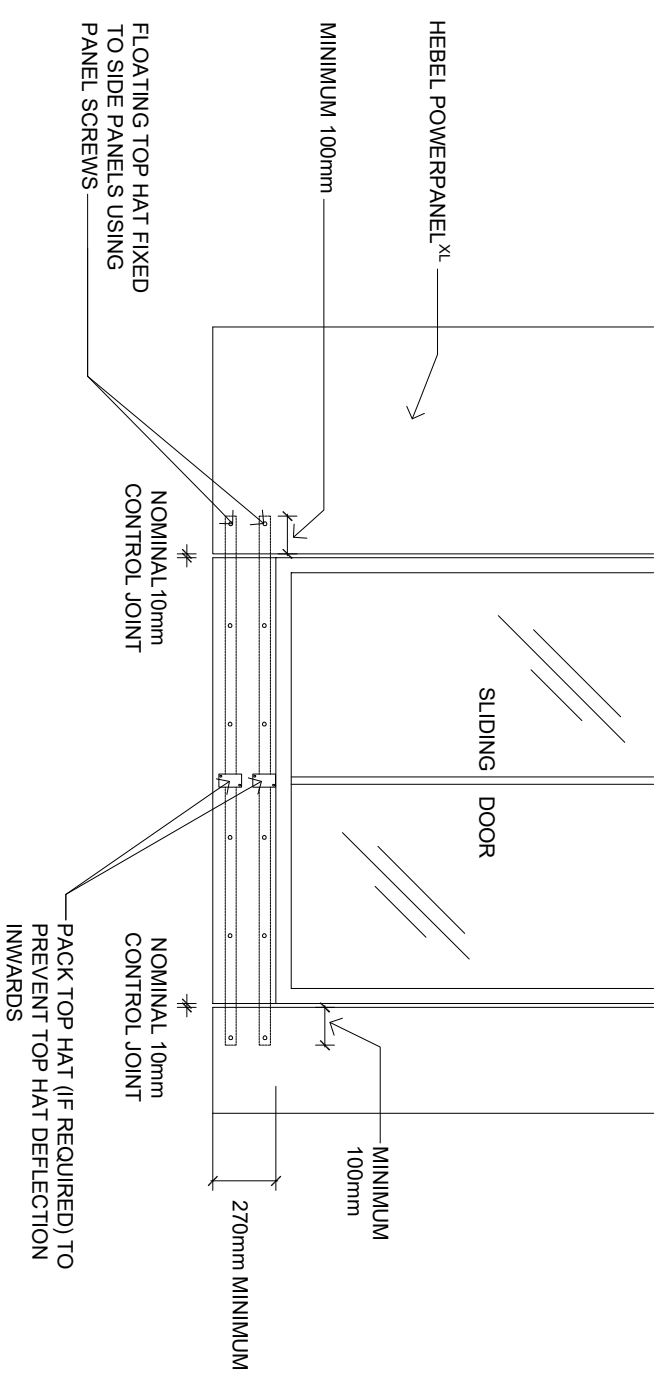
SCALE 1:5

## DOOR AND WINDOW DETAILS



### SLIDING DOOR SILL DETAIL - OPTION 1 CONCRETE SILL < 270mm

SCALE 1:20

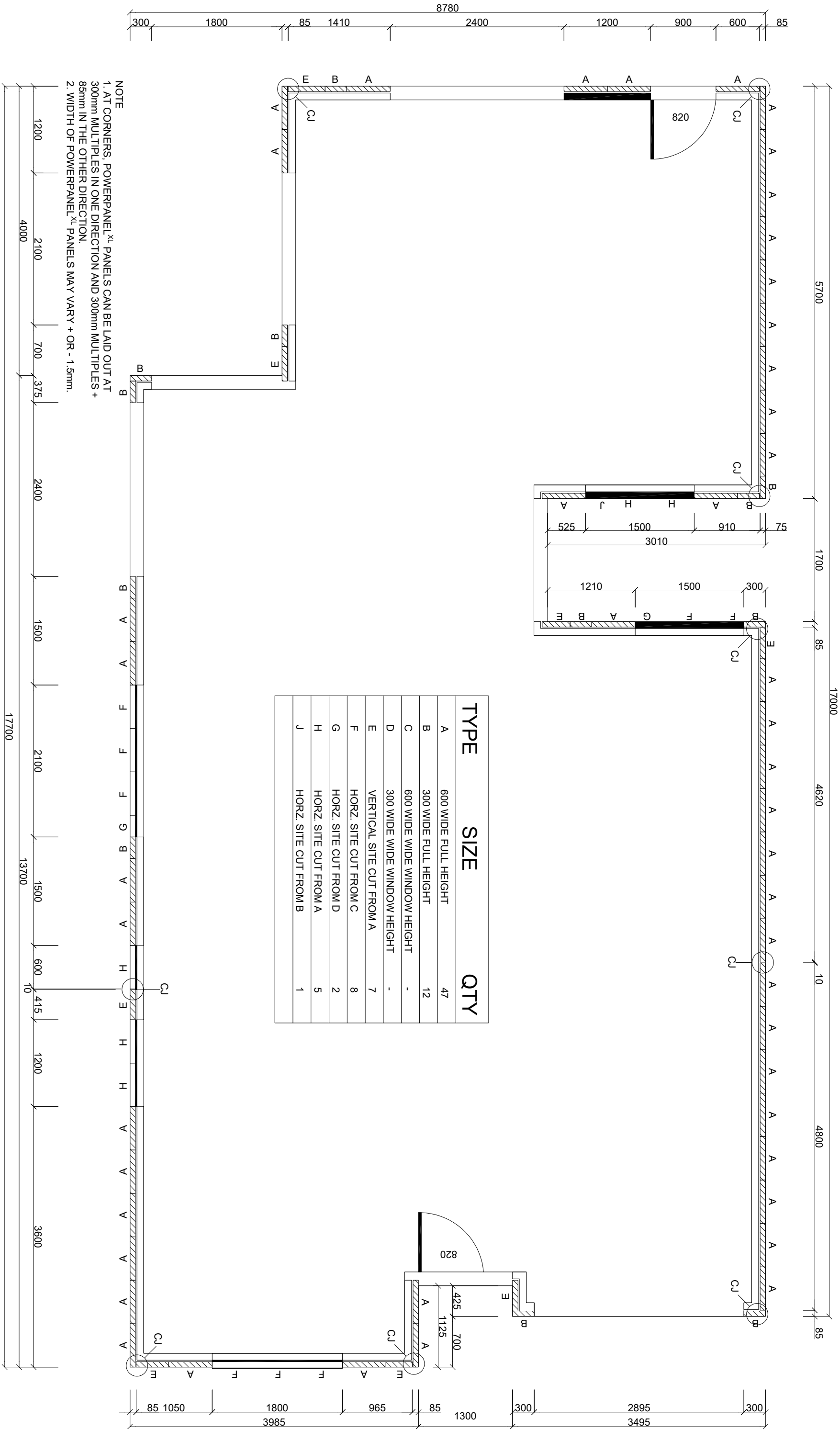


SLIDING DOOR SILL DETAIL - SECTION VIEW  
POWERPANEL<sup>XL</sup> SILL > 270mm

SCALE 1:20

FIGURE		TITLE		
3.6.8.8 - 3.6.8.9		DOOR AND WINDOW DETAILS		
DESIGN GUIDE REFERENCE	SCALE	SHEET SIZE	BRIEF	DATE
	1:20 @ A3	A3	HT	08.05.19
HEL1016APRIL.19	SHEET NO.	CHECK	REVISION	
	4 of 4	ZK	D	

MISCELLANEOUS DETAILS - PANEL  
LAYOUT DRAWING - PLAN VIEW




TYPE	SIZE	QTY
A	600 WIDE FULL HEIGHT	47
B	300 WIDE FULL HEIGHT	12
C	600 WIDE WINDOW HEIGHT	-
D	300 WIDE WINDOW HEIGHT	-
E	VERTICAL SITE CUT FROM A	7
F	HORZ. SITE CUT FROM C	8
G	HORZ. SITE CUT FROM D	2
H	HORZ. SITE CUT FROM A	5
J	HORZ. SITE CUT FROM B	1

- NOTE
1. AT CORNERS, POWERPANEL<sup>XL</sup> PANELS CAN BE LAID OUT AT 300mm MULTIPLES IN ONE DIRECTION AND 300mm MULTIPLES + 85mm IN THE OTHER DIRECTION.
  2. WIDTH OF POWERPANEL<sup>XL</sup> PANELS MAY VARY + OR - 1.5mm.

PANEL LAYOUT DRAWING - PLAN VIEW

1:50

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FIGURE  
3.6.9.1

DESIGN GUIDE REFERENCE  
HELT016APRIL19

TITLE  
TWO STOREY ADDITION DETAILS

SCALE  
NTS @ A3

SHEET NO.  
1 of 1

DRAWN  
HT

CHECK  
ZK

DATE  
08.06.19

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