

Ref: NA230831



26 March 2024

Parkwood Modular Buildings Pty Ltd  
Lot 6 Kangoo Road  
SOMERSBY NSW 2250

Attn: Mr John McDougall

Unit 10, Level 1  
No. 1 Maitland Place  
Baulkham Hills  
NSW 2153

**T** 02 9634 6311  
**F** 02 9438 5398

[www.acor.com.au](http://www.acor.com.au)

PO Box 7660  
Baulkham Hills  
NSW 2153

Dear John

**Re      Structural Inspection of Prefabrication Buildings  
         March 2024**

---

ENGINEERS

MANAGERS

INFRASTRUCTURE  
PLANNERS

DEVELOPMENT  
CONSULTANTS

We confirm that ACOR consultants Pty Ltd attended the fabrication premises on the 1<sup>st</sup> March 2024 for the purpose on inspecting the structural elements of pre-fabricated housing and buildings at various stages during construction.

At the time of our inspection, relevant structural elements were assessed and were found to comply with the structural design specifications and with the requirements of the Building Code of Australia.

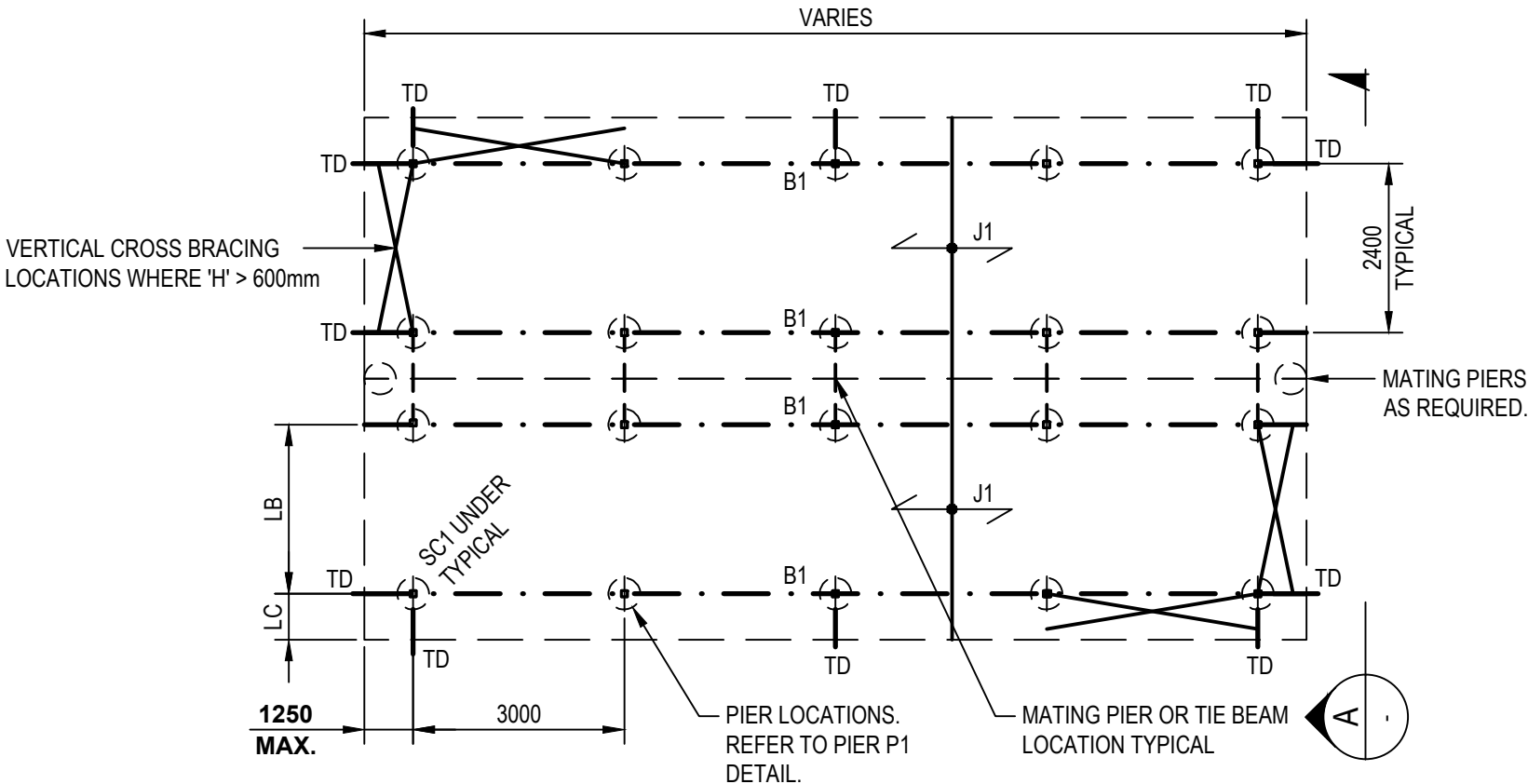
Should you have any further queries don't hesitate to contact the undersigned.

Yours faithfully  
**ACOR Consultants Pty Ltd**

A handwritten signature in black ink that reads 'sfieck'.

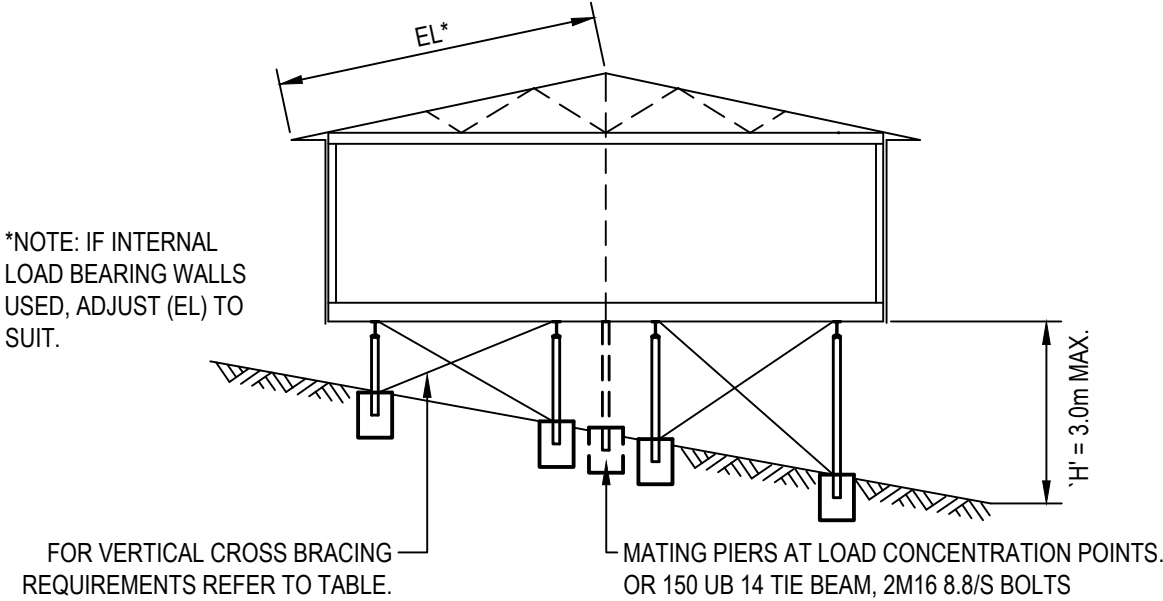
Syhra Fieck  
Project Engineer - Structural  
BE(Hons1) MIEAust





PIER LOCATION AND CHASSIS PLAN

TD - REFER TO TIEDOWN TYPICAL DETAILS



ELEVATION

A

MEMBER SCHEDULE			
MARK	SIZE		REMARKS
B1	200UB18 OR 230 PFC		BEARER
MARK	HEIGHT 'H'	SIZE	CROSS BRACING
SC1	450 MIN.-600mm	90x90x2.0 DURAGAL SHS	N/A
SC1	601-2400mm	90x90x2.0 DURAGAL SHS	MINIMUM OF 150mm <sup>2</sup> STEEL CROSS SECTIONAL AREA
SC1	2400 - 3000	90x90x2.0 DURAGAL SHS	MINIMUM OF 300mm <sup>2</sup> STEEL CROSS SECTIONAL AREA

NOTE:  
MAX CANTILEVER = BACKSPAN/2 OR 1.3M WHICH IS LESS  
  
MAX CANTILEVER WHEN SUPPORTING BI FOLD OR SLIDING DOORS  
= BACKSPAN/3 OR 1.0M WHICHEVER IS LESS

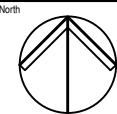
FLOOR JOIST SCHEDULE (J1)			
SIZE	BACK SPAN (LB)	MAX. CANTILEVER (LC)	EFFECTIVE ROOF (EL)
190 x 45 MGP10 AT 450 CTS.	2400 CONTINUOUS	1200	2400
		1000	3600
		800	4800
190 x 35 MGP10 AT 450 CTS.	2400 CONTINUOUS	1100	1500
		800	3600
		600	4800
140 x 35 MGP10 AT 450 CTS.	2400 CONTINUOUS	800	1500
		600	2400
STEEL C-SECTION IN ACCORDANCE WITH MANUFACTUERS SPECIFICATIONS			

REFER TO "UNDER-EAVE EXTENSIONS" DIAGRAMS.  
NOTE: ROOFING MATERIAL IS SHEET METAL ONLY (TOTAL ROOF = 40kg/m<sup>2</sup>)

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Issue	Description	Date	Drawn	Approved
2	REISSUED FOR CONSTRUCTION	30.04.19	BD	AH
1	ISSUED FOR CONSTRUCTION	11.07.17	AT	AH



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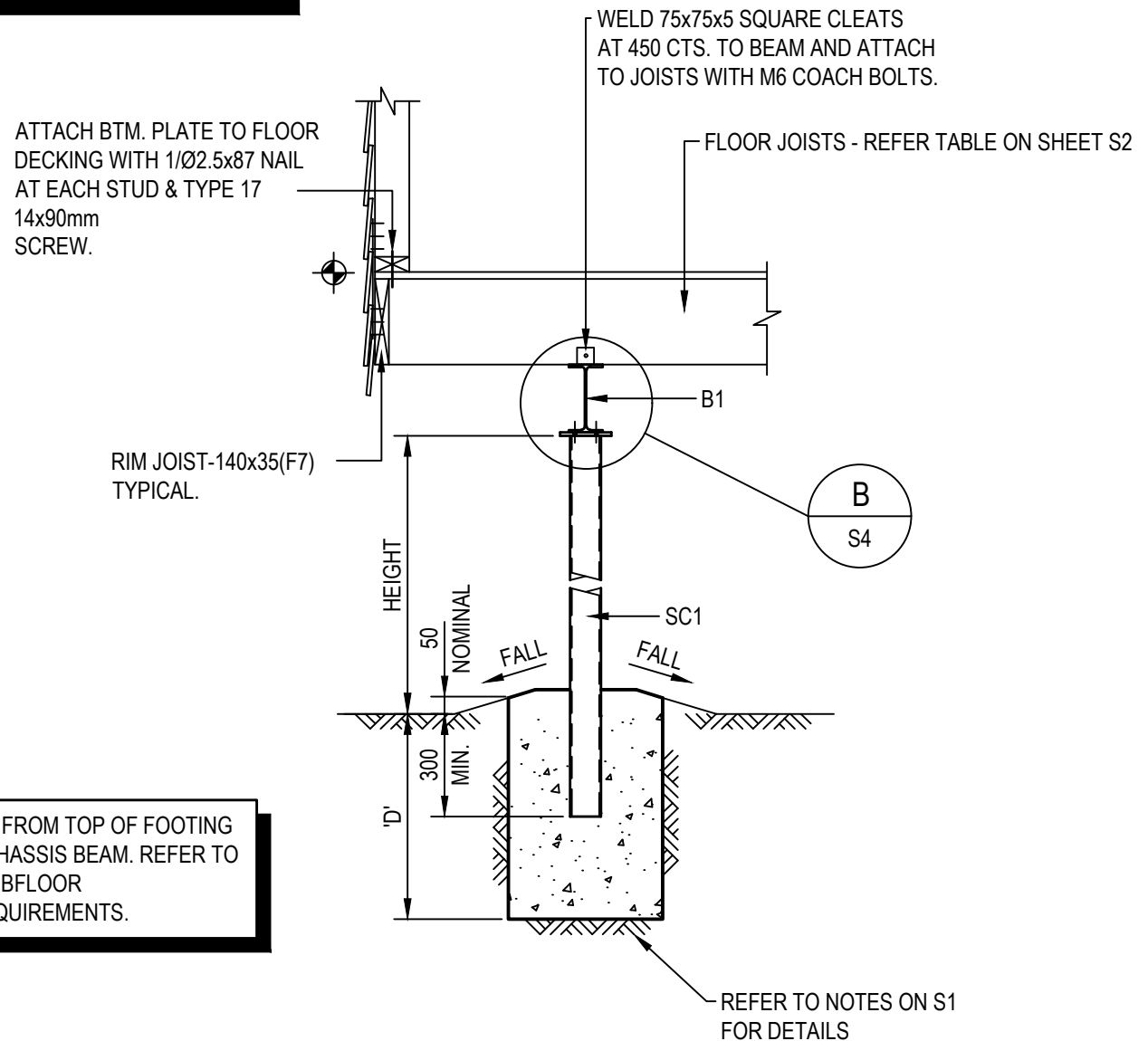
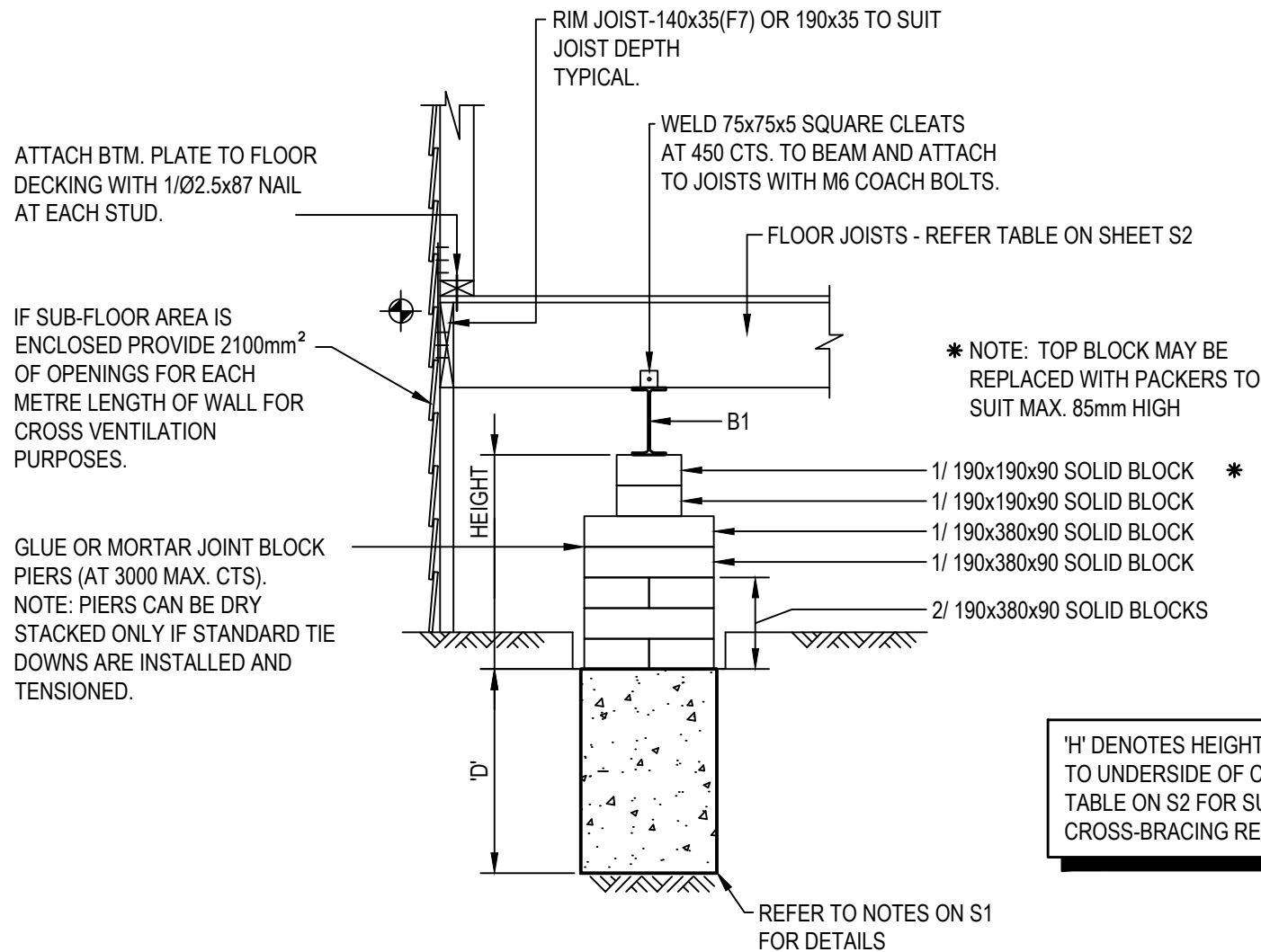
Project  
PARKWOOD MODULAR BUILDINGS

Drawing Title  
STRUCTURAL SERVICES  
TYPICAL SUB-FLOOR PLAN AND DETAILS  
SHEET 1

Drawn	Date	Scale	A3	Q.A. Check	Date
AT	APRIL '17	N.T.S		AH	Q.A. DATE
Designed	Project No.	Dwg. No.	Issue		
AH	WS170089	S02	2		

FOR CONSTRUCTION

TYPICAL GALVANISED STEEL STRAP, USE 6 STAPLES OR 3/Ø2.5x87 NAILS AT EACH SIDE OF JOINT. STEEL STRAP REQUIRED AT EVERY STUD AND AT BOTH STUDS AT EACH END OF OPENINGS.



## PIER P1 DETAIL WHERE HEIGHT < OR = 600mm

### PAD FOOTING DETAIL

NOTE: WHERE BEDROCK ENCOUNTERED PROVIDE 50mm THICK LEVELING PAD

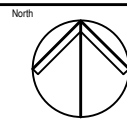
WHERE HEIGHT TO CHASSIS BEAM IS 1000 FOR LESS THAN 25% OF ALL PIERS ON SITE, PIER HEIGHTS MAY BE INCREASED USING 2/190x390x90 BLOCKS. AN ADDITIONAL TIE DOWN SHOULD BE INSTALLED WHERE THIS OCCURS ON AN EXTERNAL ROW OF PIERS.

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Project  
PARKWOOD MODULAR BUILDINGS

Drawing Title  
STRUCTURAL SERVICES  
TYPICAL SUB-FLOOR PLAN AND DETAILS  
SHEET 2

Drawn	Date	Scale	A3	Q.A. Check	Date
AT	APRIL '17	20		AH	Q.A. DATE
Designed	Project No.	Dwg. No.	Issue		
AH	WS170089	S03	2		

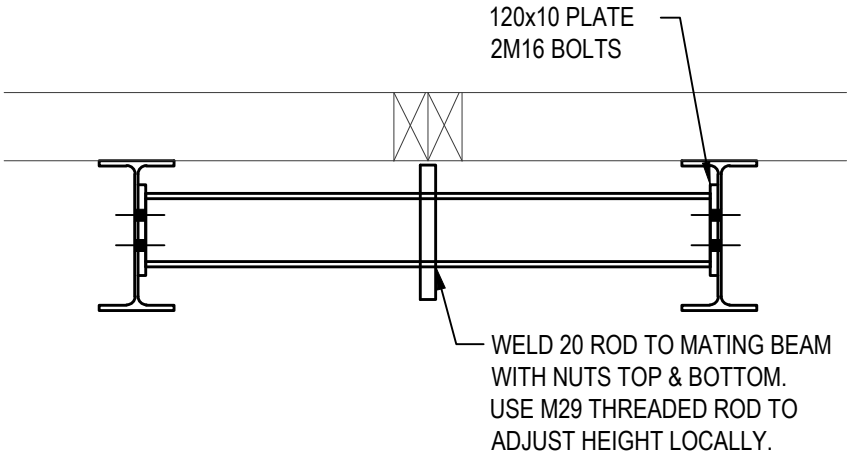
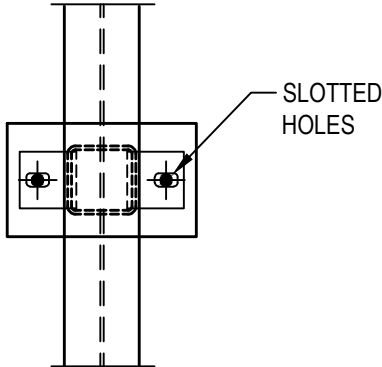
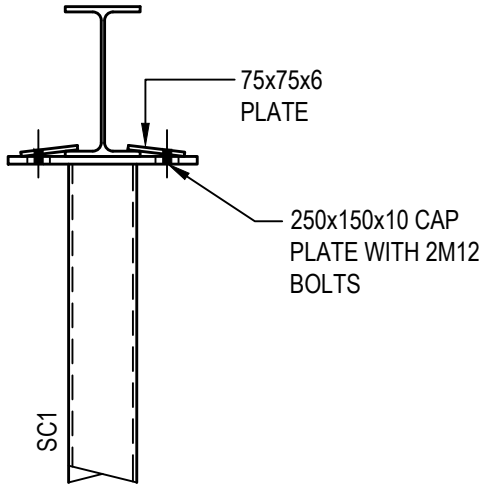


## SCREW PILE LOADING SCHEDULE (SAFE WORKING LOADS)

NOTE:  
CONTRACTOR TO DESIGN PIERS FOR MAXIMUM 150 ECCENTRIC  
LOAD.

Drawing Title <b>STRUCTURAL SERVICES</b>				
TYPICAL DETAILS				
SCREW PIER WITH PAD FOOTING				
Drawn <b>AT</b>	Date <b>APRIL '17</b>	Scale <b>A3</b>	Q.A. Check <b>AH</b>	Date <b>Q.A. DATE</b>
Designed <b>AH</b>	Project No. <b>WS170089</b>		Dwg. No. <b>S03.02</b>	Issue <b>2</b>

FOR CONSTRUCTION



DETAIL

B  
S3

PLAN

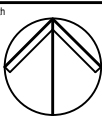
MATING BEAM DETAIL

100UC FOR 200 CHASSIS  
150UC FOR 250 CHASSIS

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Project

PARKWOOD MODULAR BUILDINGS

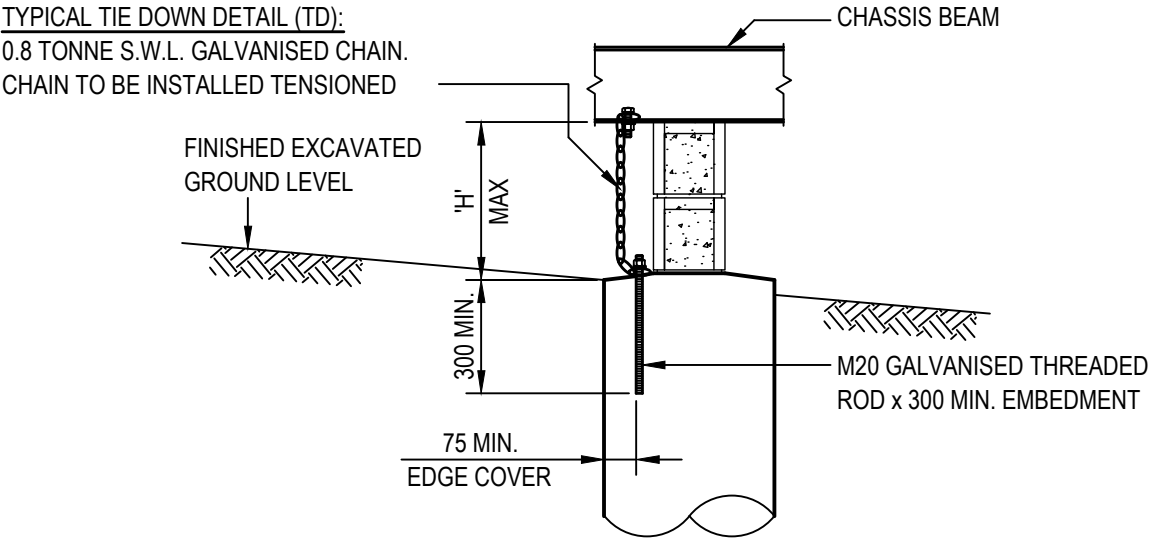
Drawing Title  
STRUCTURAL SERVICES  
TYPICAL SUB-FLOOR PLAN AND DETAILS  
SHEET 3

Drawn	Date	Scale	A3	Q.A. Check	Date
AT	APRIL '17	10		AH	Q.A. DATE
Designed	Project No.	Dwg. No.	Issue		
AH	WS170089	S04	2		

FOR CONSTRUCTION

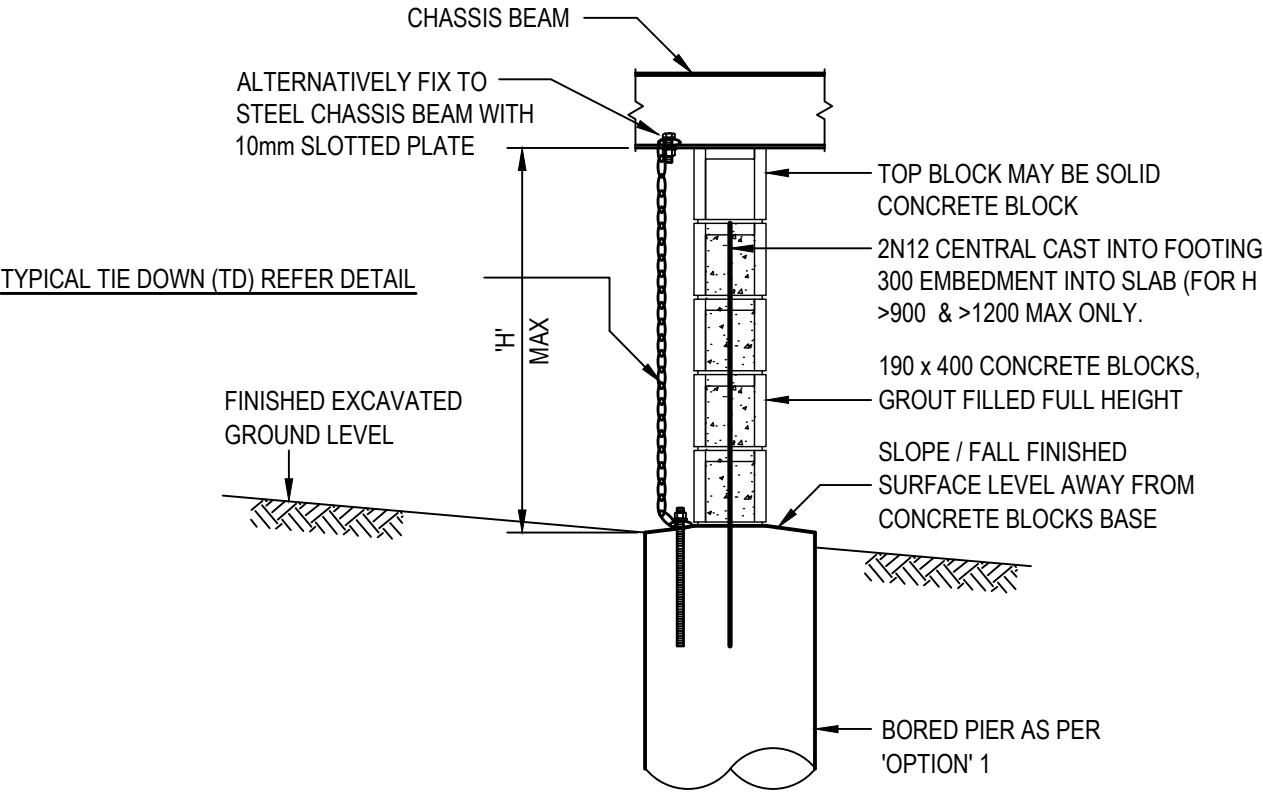
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Date: 30/04/2019 14:42:00





### ANCHOR DETAIL

FOR 190 x 400 GROUT FILLED CONCRETE BLOCKS 'H' = 400 MAX.  
FOR 400 x 400 SOLID CONCRETE BLOCKS 'H' = 900 MAX.



### ALTERNATE PIER DETAIL

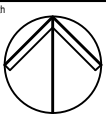
FOR 190 x 400 GROUT FILLED CONCRETE BLOCKS 'H' = 400 MAX.  
FOR 400 x 400 SOLID CONCRETE BLOCKS 'H' = 900 MAX.  
FOR 190 x 400 REINFORCED CORE FILLED CONCRETE BLOCKS 'H' = 1200 MAX.

## ANCHOR DETAILS

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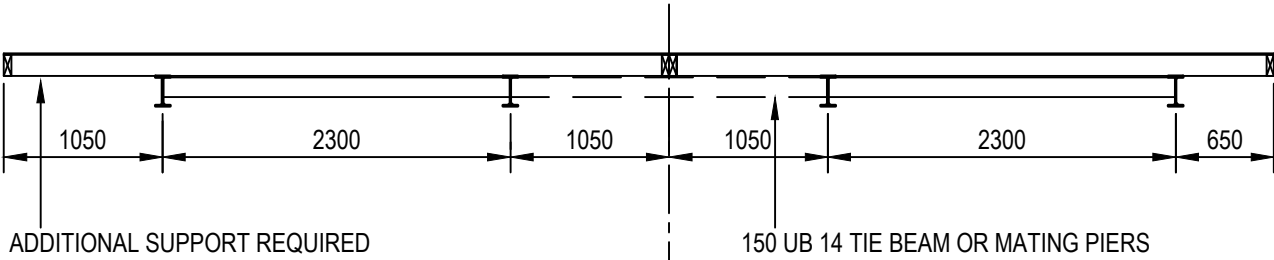
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Project  
PARKWOOD MODULAR BUILDINGS

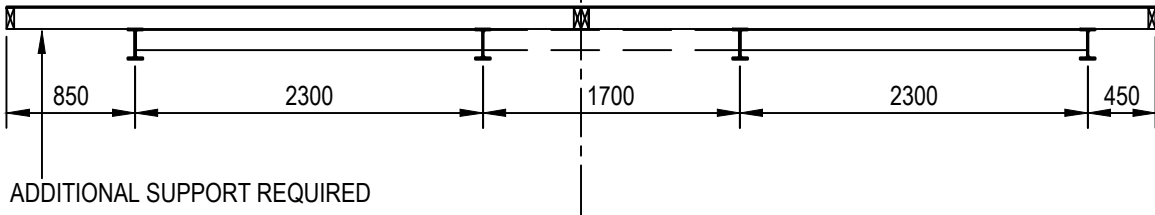
Drawn	Date	Scale	A3	Q.A. Check	Date
AT	APRIL '17	1:20		AH	Q.A. DATE
Designed	Project No.	Dwg. No.	Issue		
AH	WS170089	S05	2		

FOR CONSTRUCTION

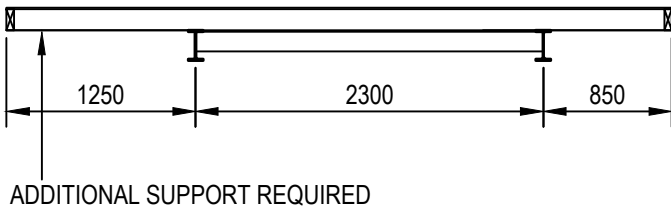
8000  
(2@4.0m)



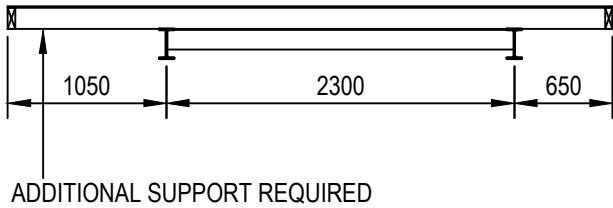
7200  
(2@3.6m)



4000

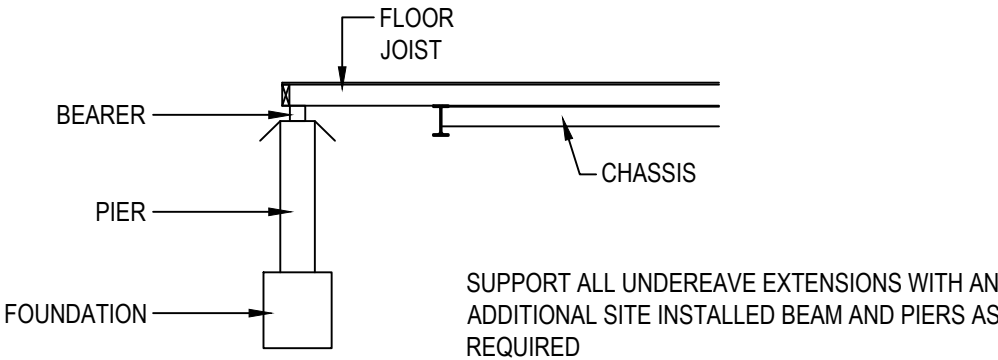


3600



UNDER-EAVE EXTENSIONS

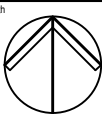
REFER TO SHEET S2 FOR JOIST SCHEDULE



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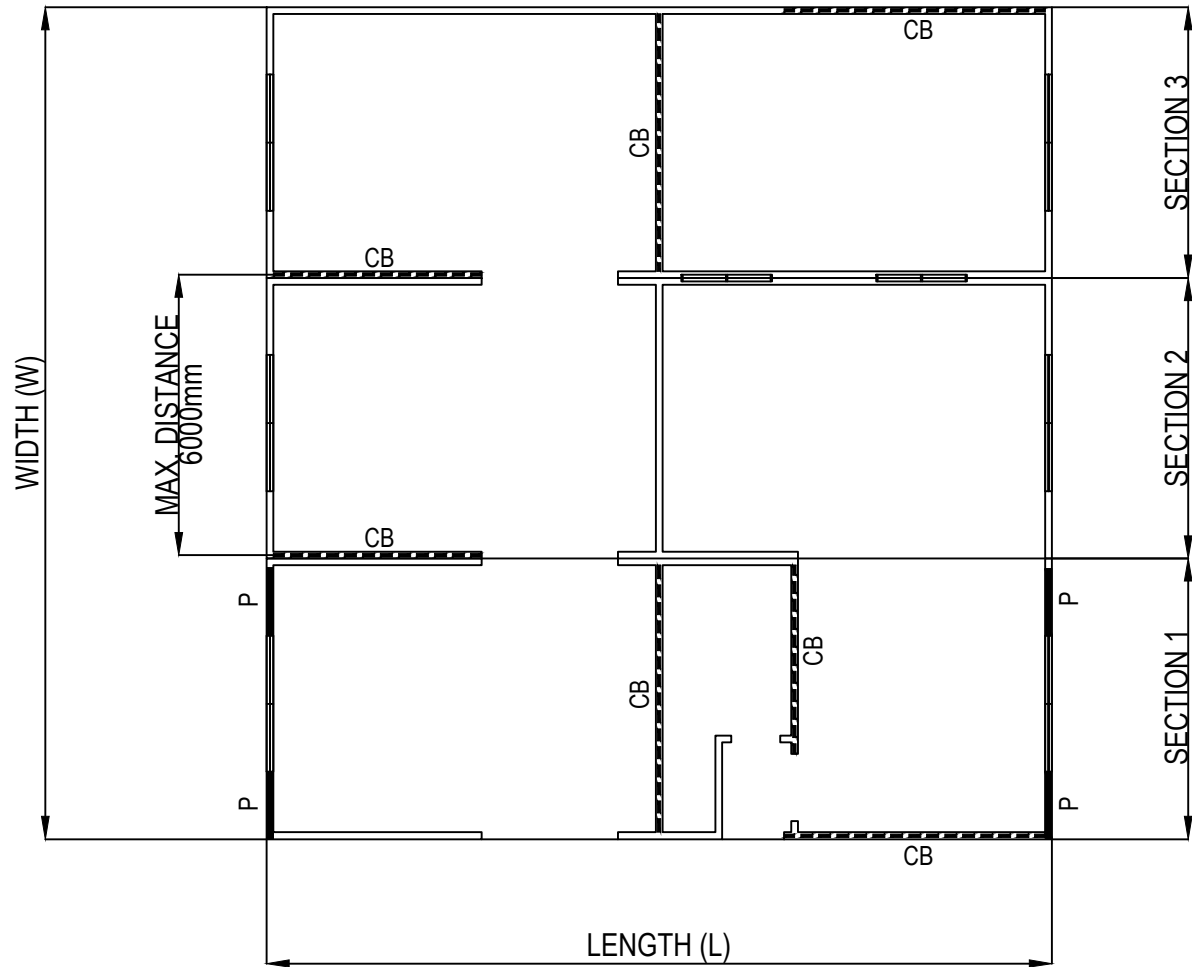
Project  
PARKWOOD MODULAR BUILDINGS

Drawing Title  
STRUCTURAL SERVICES  
TYPICAL DETAILS - UNDER-EAVE EXTENSIONS

Drawn	Date	Scale	A3	Q.A. Check	Date
AT	APRIL '17	1:50		AH	Q.A. DATE
Designed	Project No.	Dwg. No.	Issue		
AH	WS170089	S06	2		

FOR CONSTRUCTION





FLOOR PLAN:

- FLOOR JOISTS TO BE TREATED PINE OR SIMILAR. DO NOT IN ANY WAY UNDERMINE, ENDANGER OR DESTABILISE ANY ADJACENT STRUCTURES (OR PARTS THEREOF)
- ENGINEER TO BE CONTACTED PRIOR TO ANY PROPPING, BRACING OR UNDERPINNING AS MAY BE REQUIRED.
- ALL FOOTINGS MUST BEAR FULLY ON FIRM NATURAL STRATA OF THE SAME TYPE HAVING AN ALLOWABLE BEARING CAPACITY OF 150kPa MINIMUM.

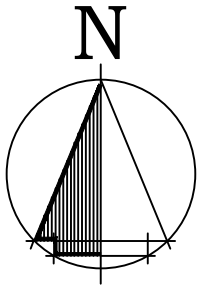
HOUSE WIDTH W (m)	WIND CLASSIFICATION N3 IN ULTIMATE STRESS SINGLE STOREY STANDARD HOUSE LENGTH L (m) WITH Max 15° ROOF PITCH											
	4		8		10		12		16		18	
	NUMBER OF TYPE B BRACING (6 kN PER BRACING)											
4	2	N.S.	4	N.S.	4	N.S.	5	N.S.	7	N.S.	8	N.S.
	2	W.E.	2	W.E.	2	W.E.	2	W.E.	2	W.E.	2	W.E.
8	2	N.S.	4	N.S.	4	N.S.	5	N.S.	7	N.S.	8	N.S.
	4	W.E.	4	W.E.	4	W.E.	4	W.E.	4	W.E.	4	W.E.
12	2	N.S.	4	N.S.	4	N.S.	5	N.S.	7	N.S.	8	N.S.
	5	W.E.	5	W.E.	5	W.E.	5	W.E.	5	W.E.	5	W.E.

BRACING LEGEND:

- P DENOTES PLYWOOD TYPE B BRACING. REFER TO BRACING DETAILS IN DRWG No. S8
- CB LONG SIDE AND INTERNAL CROSS BRACING. REFER TO BRACING DETAILS IN DRWG No. S8
- MAXIMUM DISTANCE BETWEEN BRACING WALLS SHALL BE 6000.
  - REFER TO TABLE ABOVE FOR BRACING REQUIREMENTS.

STRUCTURAL NOTES:

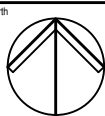
- TIMBER ROOF BATTENS TO BE FIXED TO RAFTERS WITH ONE BUILDEX No.14-10x75mm TYPE 17 SCREW OR, 2/87xØ2.5 NAILS AT EACH RAFTER
- ROOF SHEETING TO BE FIXED AS PER MANUFACTURERS' INSTRUCTIONS TO RESIST WIND PRESSURES OF 1.60kPa
- WINDOW, DOOR FRAMES AND GLAZING TO BE DESIGNED TO RESIST WIND PRESSURES OF 1.17kPa.
- IF ROOF PITCH IS LESS THAN 15° THEN ABOVE TABLE IS ADEQUATE. IF GREATER THAN 15° SEEK ADDITIONAL BRACING REQUIREMENTS FROM ENGINEER



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Project  
**PARKWOOD MODULAR BUILDINGS**

Drawing Title  
**STRUCTURAL SERVICES  
TYPICAL DETAILS - BRACING PLAN**

Drawn	Date	Scale	A3	Q.A. Check	Date
AT	APRIL '17	1:100		AH	Q.A. DATE
Designed	Project No.	Dwg. No.	Issue		
AH	WS170089	S07	2		

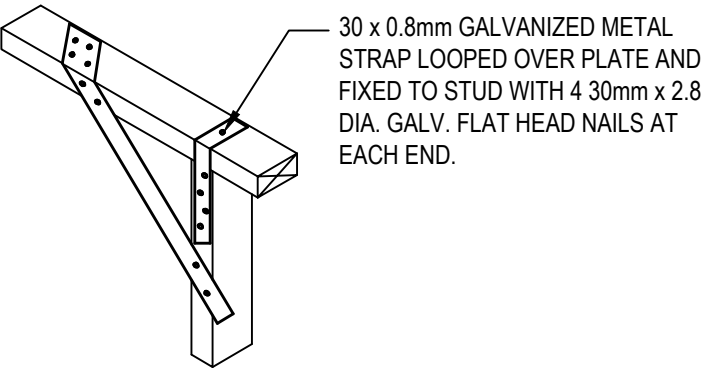
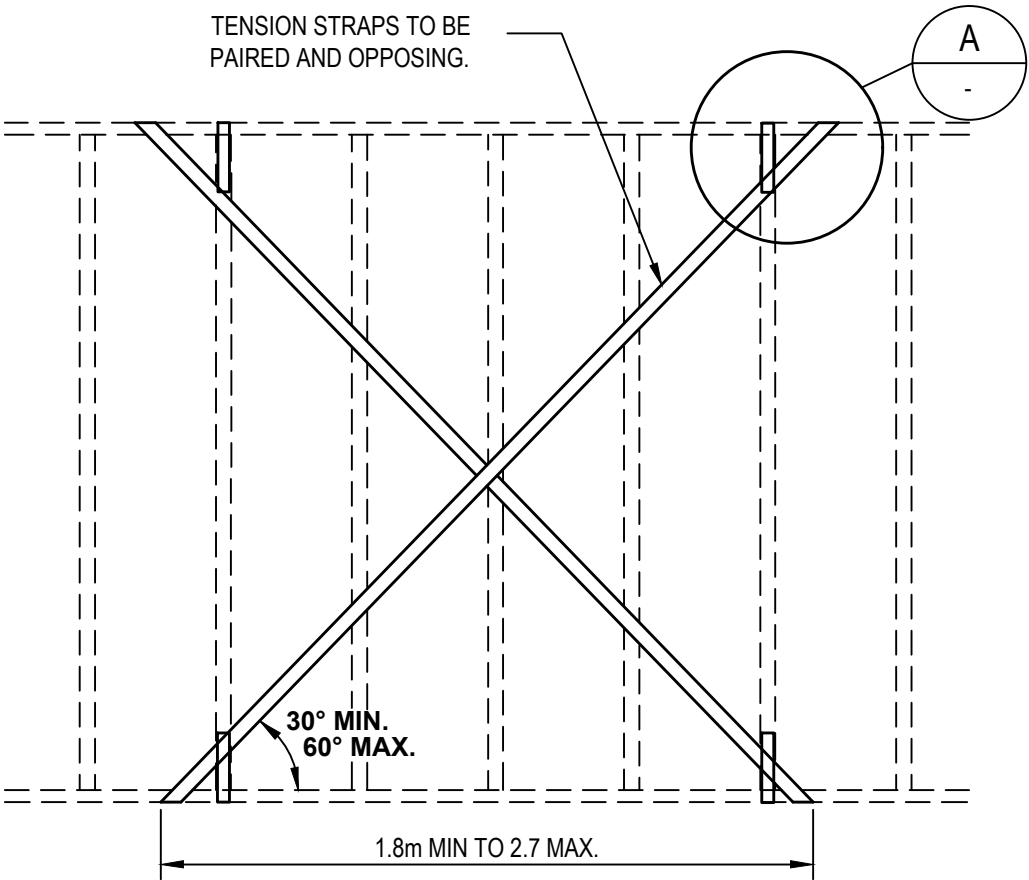
FOR CONSTRUCTION

TYPE B - STRAP BRACING (SB) SPECIFICS

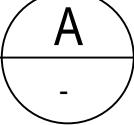
TYPE OF DIAGONAL BRACE	MATERIAL & SIZE	NAILING REQUIREMENTS		SPECIAL REQUIREMENTS
		TO EACH STUD	TO EACH PLATE	
TENSION STRAP	GALVANIZED FLAT METAL TENSION STRAP NOM SIZE 30 x 0.8mm & MIN. SECTION OF 24mm <sup>2</sup>	2/30 x 3.15mmØ GALV. FLATHEAD NAILS.	4/30 x 2.8mm Ø GALV. FLATHEAD NAILS.	STRAPS MUST BE PROPERLY TENSIONED AND STRAP MUST RETURN OVER TOP PLATE & UNDER BOTTOM PLATE. THE STUD NEAREST TO EACH END OF EACH DIAGONAL STRAP SHALL BE FIXED TO THE PLATES WITH STRAPS OR FRAMING ANCHORS 4/30 x 2.8mmØ NAILS AT EACH END.

NOTE

REFER TO PLATE FIXING TABLE FOR TOP AND BOTTOM PLATE FIXING DETAILS.

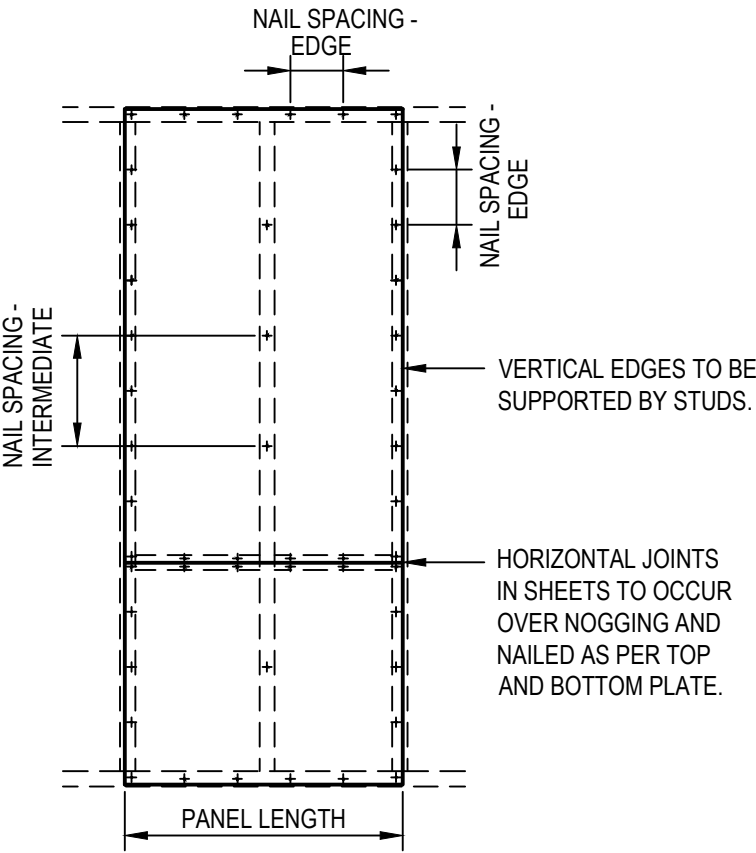


DETAIL



TYPE B - SHEET BRACING (PB) SPECIFICS

PRODUCT	AUSTRALIAN STANDARD	TYPE/ GRADE	MINIMUM THICKNESS (mm) FOR STUD SPACING (mm).		PANEL LENGTH (mm)	NAIL SIZE (mm)	NAIL SPACING (mm)		SPECIAL REQUIREMENTS
			450	600			EDGE	INTERMEDIATE	
PLYWOOD	AS 2269	F8 F11 F14 F27	7 6 4 4	9 7 6 4.5	900 / 1200	30x2.8mm Ø GALV.	50 TO PLATES AND 150 TO EDGE STUDS	300	NO NOGGING REQ'D EXCEPT AT SHEET ENDS. NAILS SHALL BE 7mm FROM ALL EDGES.
HARDBOARD (MASONITE)	AS 2458	G.P.	6.4	6.4	900 / 1200	30x2.8mm Ø GALV.	50 TO PLATES AND 150 TO EDGE STUDS	300	NAILS TO BE 10mm FROM VERTICAL EDGES AND 20mm FROM HORIZONTAL EDGES. NO NOGGING REQ'D EXCEPT AT SHEET ENDS.



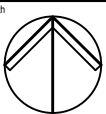
TYPE B - SHEET BRACING NOTES

- PANEL LENGTHS GREATER THAN THOSE LISTED ABOVE CAN BE CONSIDERED AS A NUMBER OF BRACING UNITS DIRECTLY PROPORTIONED TO THEIR INSTALLED LENGTH, I.E. A 1200mm PANEL OF PLYWOOD EQUALS 1200/900 = 1.33 BRACING UNITS.
- NAILS SHOULD BE DRIVEN JUST BELOW THE SURFACE OF THE SHEET USING THE HAMMER FACE ONLY.  
NAILS MUST NOT BE PUNCHED.
- PB\* INDICATES - FULL AVAILABLE LENGTH.
- REFER TO PLATE FIXING TABLE FOR TOP AND BOTTOM PLATE FIXING DETAILS.

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Project  
PARKWOOD MODULAR BUILDINGS

Drawing Title  
STRUCTURAL SERVICES  
TYPICAL BRACING DETAILS  
SHEET 1

Drawn	Date	Scale	A3	Q.A. Check	Date
AT	APRIL '17	N.T.S		AH	Q.A. DATE
Designed	Project No.	Dwg. No.	Issue		
AH	WS170089	S08	2		

PLATE FIXING TABLE

BRACING TYPE	PLATE	FIXING DETAILS
TYPE A	BOTTOM PLATE TO JOISTS	2/75mm NAILS AT 600mm CENTRES ALONG JOIST FOR PLATES TO 38mm THICK AND 2/90mm NAILS AT 600mm CENTRES ALONG JOIST FOR PLATE TO 50mm THICK.
	BOTTOM PLATE TO SLAB	1/75mm MASONRY NAIL AT MAXIMUM 1200mm CENTRES FOR 38mm THICK PLATES. 1/90mm MASONRY NAIL AT MAXIMUM 1200mm CENTRES FOR 50mm THICK PLATES.
TYPE B	BOTTOM PLATE TO JOISTS	1/M10 BOLT OR 1/30 x 0.8 GALVANISED METAL STRAP AT MAXIMUM 1200mm CENTRES ALONG JOIST OR TO EVERY SECOND JOIST.
	BOTTOM PLATE TO SLAB	STRAP TO HAVE 3/30 x 2.8mm DIA. NAILS EACH END. 1/M10 BOLT OR CAST IN GALVANISED METAL BOTTOM PLATE CONNECTOR AT EACH END OR BRACING UNIT AND AT 1200mm MAXIMUM CENTRES.
ALL TYPE A or B	TOP PLATE TO CEILING OR ROOF FRAMING	JOISTS, BATTENS OR RAFTERS SHALL BE FIXED TO TOP PLATES WITH 2/75mm NAILS AT EACH CROSSING AT MAXIMUM OF 1200mm CENTRES ALONG THE TOP PLATE. TRUSSES CAN BE FIXED TO TOP PLATE USING BLOCKING OR PROPRIETARY CONNECTORS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

GENERAL NOTES:

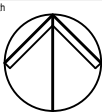
1. FIXING SHOULD COMMENCE AS CLOSE AS POSSIBLE TO THE ENDS OF EACH BRACING UNIT.
2. WALL TOP PLATES MUST BE DESIGNED TO PROVIDE LATERAL LOAD TRANSFER WHILE ALLOWING TRUSS TO SETTLE UNDER DEAD LOAD.

SUB FLOOR BRACING:

ALL BRACING SHALL BE FIXED TO THE FLOOR OR FOOTING BELOW AND THE FLOOR ABOVE TO ENABLE THE TRANSFER OF THE FULL DESIGN STRENGTH OF THE BRACING SYSTEM.

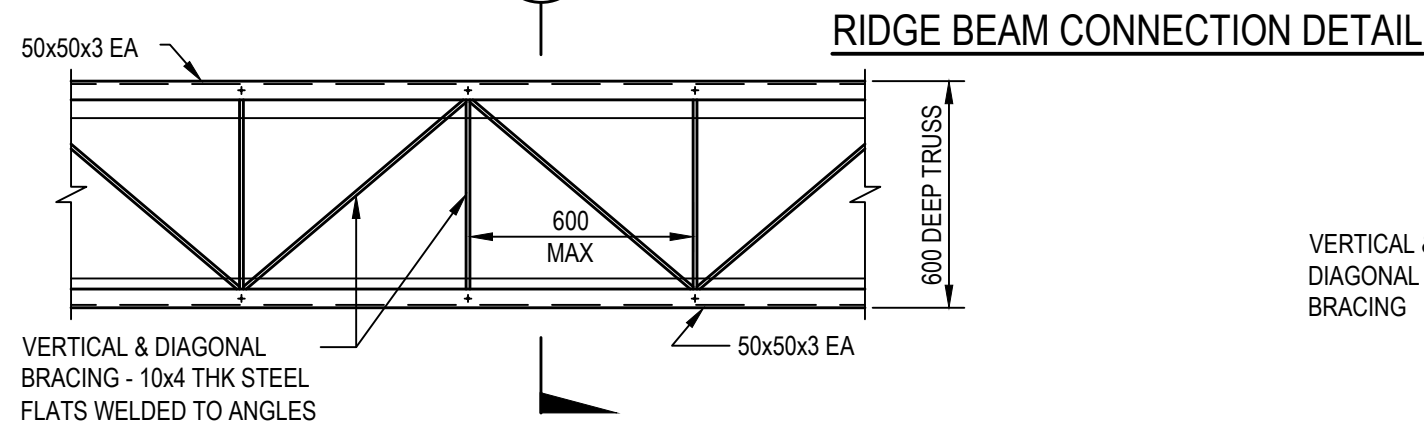
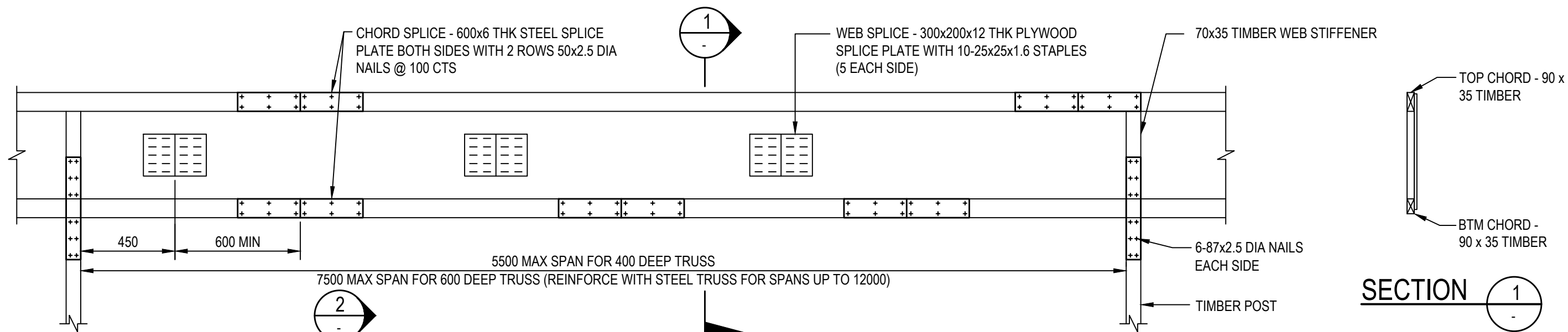
BRACING IN THE SUB-FLOOR SHALL BE EVENLY DISTRIBUTED. THE MAXIMUM DISTANCE BETWEEN BRACING SETS, STUMPS, PIERS, WALLS OR POSTS, ETC. UNDER A PLATFORM STRIP OR SHEET TIMBER FLOOR SYSTEM SHALL BE 1400mm PROVIDED THE MINIMUM WIDTH OF THE FLOOR IS 6000mm.

2	REISSUED FOR CONSTRUCTION	30.04.19	BD	AH	
1	ISSUED FOR CONSTRUCTION	11.07.17	AT	AH	
Issue	Description	Date	Drawn	Approved	

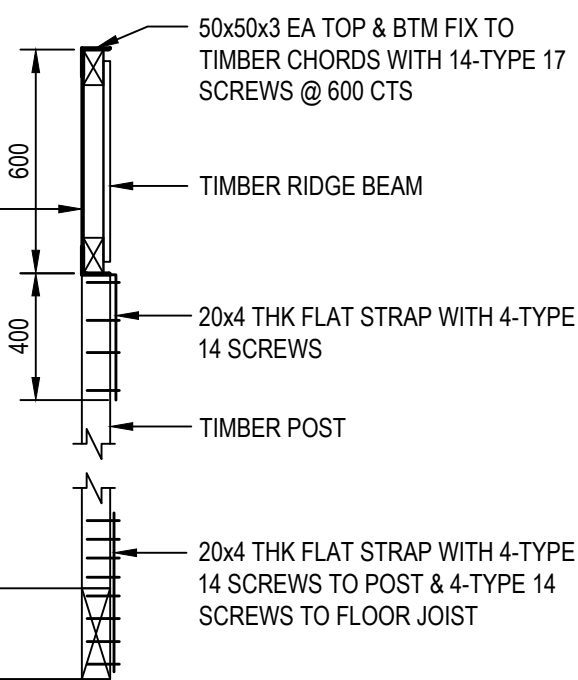
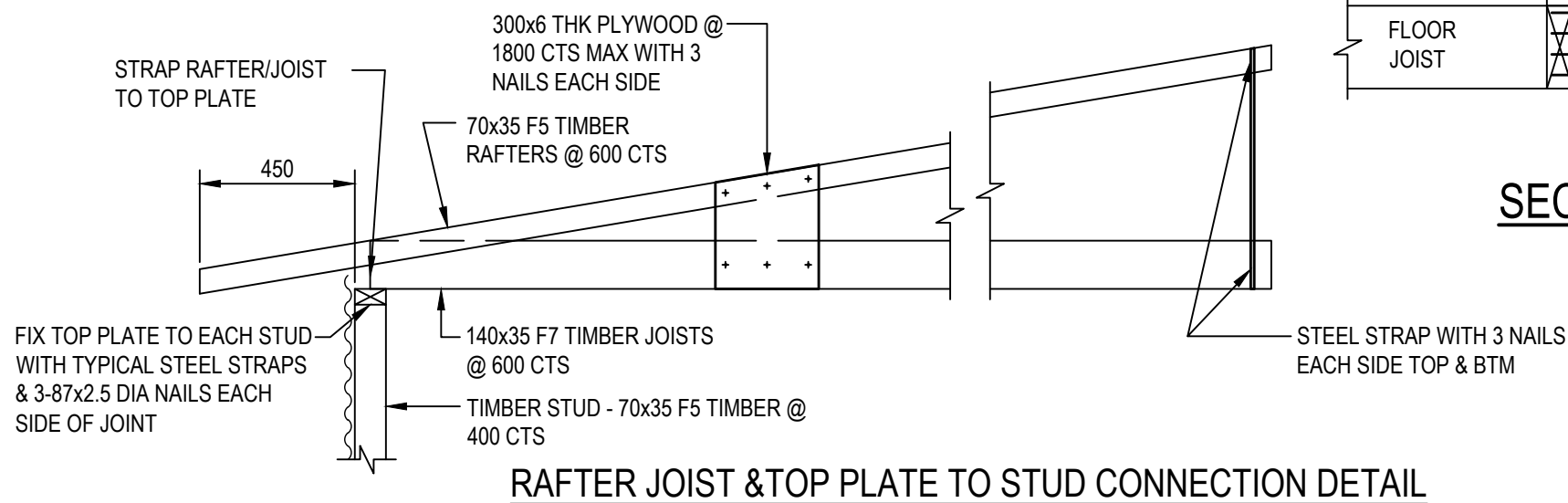


Drawing Title STRUCTURAL SERVICES TYPICAL BRACING DETAILS SHEET 2					
Drawn AT	Date APRIL '17	Scale N.T.S	A3	Q.A. Check AH	Date Q.A. DATE
Designed AH	Project No. WS170089	Dwg. No. S09		Issue 2	

FOR CONSTRUCTION



### STEEL TRUSS REINFORCEMENT TO RIDGE BEAM DETAIL

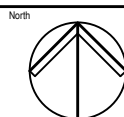


NOTE: ALL STRAPS TO BE 350 MPa YIELD STRENGTH AND 18mm<sup>2</sup> CROSS-SECTIONAL AREA MINIMUM

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1	ISSUED FOR CONSTRUCTION	11.07.17	AT	AH



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Project  
PARKWOOD MODULAR BUILDINGS

Drawing Title  
STRUCTURAL SERVICES  
TYPICAL ROOF DETAILS  
SHEET 1

Drawn	Date	Scale	A3	Q.A. Check	Date
AT	APRIL '17	N.T.S		AH	Q.A. DATE
Designed	Project No.	Dwg. No.	Issue		
AH	WS170089	S10	2		

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