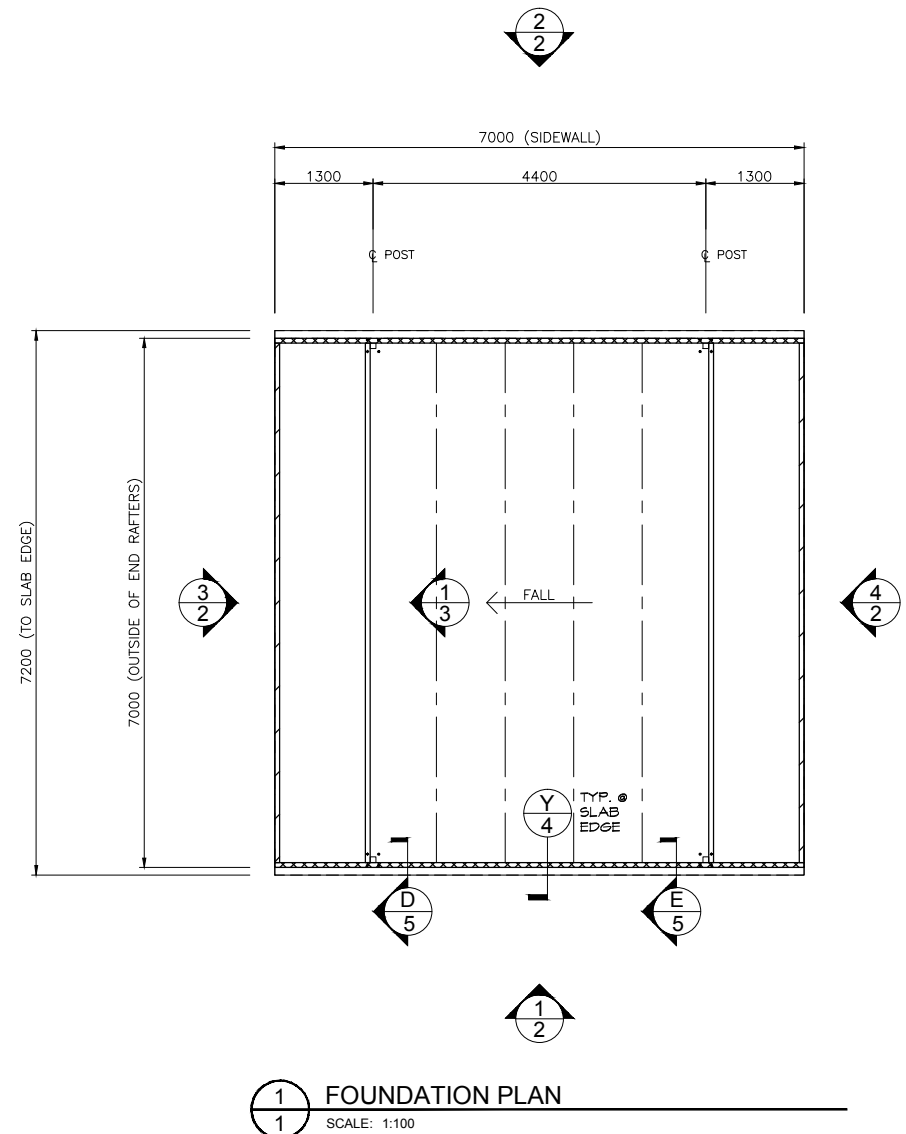




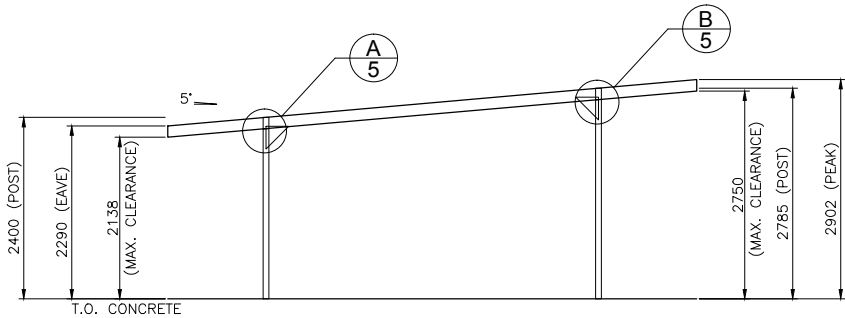
The design and detail shown on these drawings are applicable to this project only and may not be reproduced in whole or any part or be used for any other purpose without the written permission of FBHS (Aust) Pty Limited (FBHS) with whom copyright resides. The local distributor you are dealing with is an authorised independent distributor and enters into agreements with its customers on its own behalf.



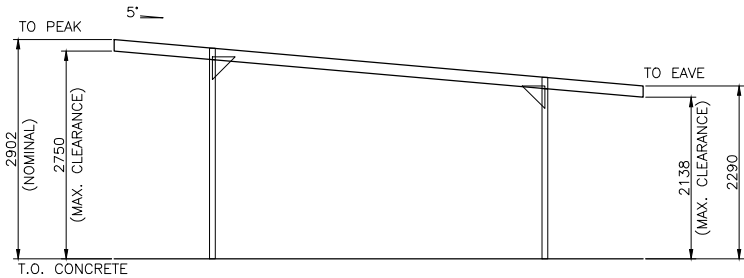
- LEGEND:
- ROOF PURLIN
 - BEAM
 - ▨ RAFTER
 - ▨ EAVE PURLIN

1 OF 5	SHEET	JOB NO. MAST37926	DATE	CHECKED TM	DRAWN FDS	STEEL BUILDING BY (CONTACT)		SHED SAFE accutrack		 Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56	Mr Timothy Roy Messer BE MIEAust RPEQ Signature  Date 20/3/2025 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register
						FOR	MA STEEL 02 6382 4387 MARK O'CONNOR 3 LANDSDOWN STREET YOUNG				

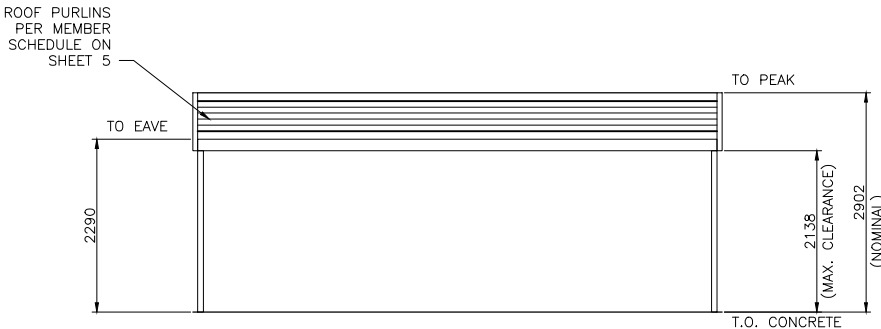
The design and detail shown on these drawings are applicable to this project only and may not be reproduced in whole or any part or be used for any other purpose without the written permission of FBHS (Aust) Pty Limited (FBHS) with whom copyright resides. The local distributor you are dealing with is an authorised independent distributor and enters into agreements with its customers on its own behalf.



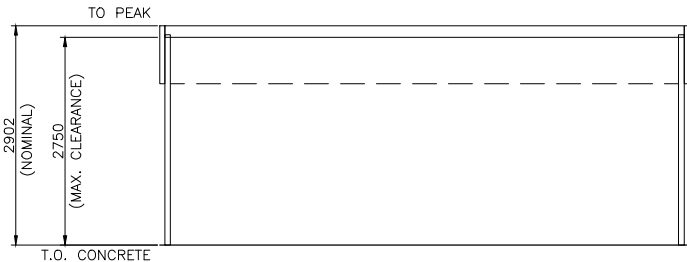
1 SIDEWALL EXTERIOR ELEVATION
2 SCALE: 1:100



2 SIDEWALL EXTERIOR ELEVATION
2 SCALE: 1:100



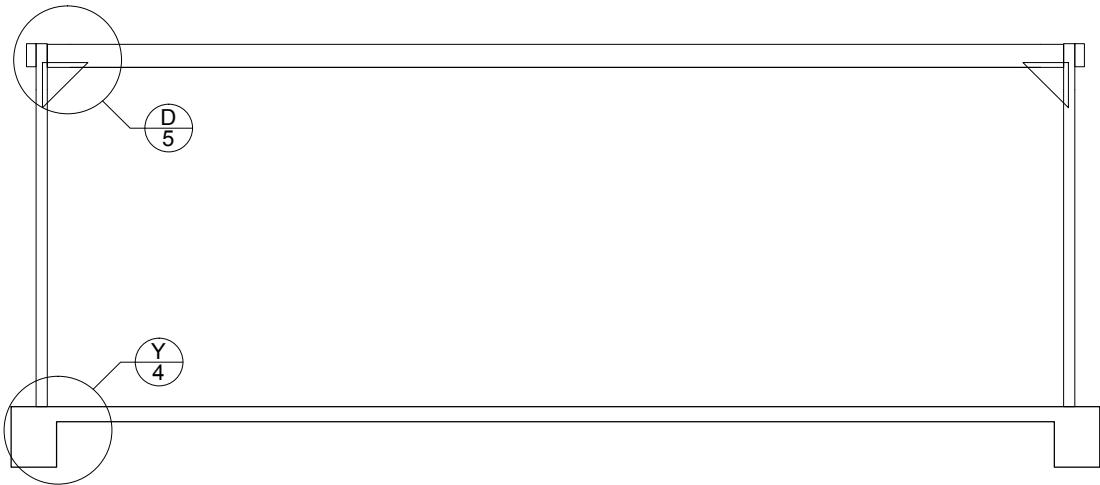
3 ENDWALL EXTERIOR ELEVATION
2 SCALE: 1:100



4 ENDWALL EXTERIOR ELEVATION
2 SCALE: 1:100



2 OF 5	SHEET	JOB NO. MAST37926	DATE	CHECKED TM	DRAWN FDS	STEEL BUILDING BY	(CONTACT)	FOR	AT	MA STEEL 02 6382 4387 MARK O'CONNOR 3 LANDSDOWN STREET YOUNG			Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56	Mr Timothy Roy Messer BE MIEAust RPEQ Signature
						Registered Chartered Professional Engineer Registered Professional Engineer (Civil & Structural) QLD Registered Certifying Engineer (Structural) N.T. Registered Engineer - (Civil) VIC Registered Engineer - (Civil) TAS	Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. PE0002216 Regn. No. CC5648M						Date 20/3/2025 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register	

The design and detail shown on these drawings are applicable to this project only and may not be reproduced in whole or any part or be used for any other purpose without the written permission of FBHS (Aust) Pty Limited (FBHS) with whom copyright resides.
The local distributor you are dealing with is an authorised independent distributor and enters into agreements with its customers on its own behalf.



1 INTERNAL FRAME SECTION
3 SCALE: 1:50

(Refer to Sheet #4 for concrete specification).

3 OF 5 SHEET	JOB NO. MAST37926	DATE	CHECKED TM	DRAWN FDS	<div>STEEL BUILDING BY (CONTACT)</div> <div>MA STEEL</div> <div>02 6382 4387</div> <div>MARK O'CONNOR</div> <div>3 LANDSDOWN STREET</div> <div>YOUNG</div> <div>SHED SAFE</div>		<div>NORTHERN CONSULTING engineers</div> <div>Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56</div> <div>Registered Chartered Professional Engineer Registered Professional Engineer (Civil & Structural) QLD Registered Certifying Engineer (Structural) N.T. Registered Engineer - (Civil) VIC Registered Engineer - (Civil) TAS</div> <div>Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. PE0002216 Regn. No. CC5648M</div>	<div>Mr Timothy Roy Messer BE MIEAust RPEQ</div> <div>Signature </div> <div>Date 20/3/2025</div> <div>Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register</div>
-----------------	----------------------	------	---------------	--------------	---	--	--	---

STRUCTURAL GENERAL NOTES

1.

GOVERNING CODE : BUILDING CODE OF AUSTRALIA (BCA), LOADING TO AS1170 - ALL SECTIONS.
2.

DRAWING OWNERSHIP :
THESE DRAWINGS REMAIN THE PROPERTY OF AG&S BUILDING SYSTEMS PTY. LTD (AG&S). ENGINEERING SIGNATURE AND CERTIFICATION IS ONLY VALID WHEN BUILDING IS SUPPLIED BY A DISTRIBUTOR OF AG&S. DRAWINGS ARE PROVIDED FOR THE DUAL PURPOSE OF OBTAINING BUILDING PERMITS AND AIDING CONSTRUCTION. ANY OTHER USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM AG&S.
3.

DRAWING SIGNATURE REQUIREMENTS :
THESE DRAWINGS ARE NOT VALID UNLESS SIGNED BY THE ENGINEER. THE ENGINEER ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR DRAWINGS WITHOUT A SIGNATURE. EACH TITLE BLOCK CONTAINS A WATER MARK UNDER THE CUSTOMERS NAME CONTAINING THE DATE OF PRODUCTION OF THE DRAWINGS; THE DRAWINGS ARE TO BE SUBMITTED TO COUNCIL WITHIN 21 DAYS OF THIS DATE. THIS IS TO ENSURE THAT ONLY CURRENT DRAWINGS ARE IN CIRCULATION.
4.

CONTRACTOR RESPONSIBILITIES :
CERTIFIER AND CONTRACTOR TO CONFIRM [ON SITE] THAT THE WIND LOADINGS APPLIED TO THIS DESIGN ARE TRUE AND CORRECT FOR THE ADDRESS STATED IN THE TITLE BLOCK.
CONTRACTOR SHALL VERIFY AND CONFIRM ALL EXISTING CONDITIONS AND DIMENSIONS. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS PRIOR TO START OF WORK.
CONTRACTOR MUST NOT MAKE ANY DEVIATION FROM THE PROVIDED PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM ONE THE UNDERSIGNING ENGINEERS. THE ENGINEER / AG&S TAKE NO RESPONSIBILITY FOR CHANGES MADE WITHOUT WRITTEN APPROVAL.
CONTRACTOR IS RESPONSIBLE FOR ENSURING NO PART OF THE STRUCTURE BECOMES OVERSTRESSED DURING CONSTRUCTION.
BUILDING IS NOT STRUCTURALLY ADEQUATE UNTIL THE INSTALLATION OF ALL COMPONENTS AND DETAILS SHOWN IS COMPLETED IN ACCORDANCE WITH THESE DRAWINGS.
THE INDICATED DRAWING SCALES ARE APPROXIMATE. DO NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES.
FOR FURTHER DIRECTIONS ON CONSTRUCTION THE CONTRACTOR SHOULD CONSULT THE APPROPRIATE INSTRUCTION MANUAL.
5.

ENGINEERING :
THE ENGINEER / AG&S ARE NOT ACTING AS PROJECT MANAGERS FOR THIS DEVELOPMENT, AND WILL NOT BE PRESENT DURING CONSTRUCTION.
THE UNDERSIGNING ENGINEERS HAVE REVIEWED THIS BUILDING FOR CONFORMITY ONLY TO THE STRUCTURAL DESIGN PORTIONS OF THE GOVERNING CODE. THE PROJECT MANAGER IS RESPONSIBLE FOR ADDRESSING ANY OTHER CODE REQUIREMENTS APPLICABLE TO THIS DEVELOPMENT.
THESE DOCUMENTS ARE STAMPED ONLY AS TO THE COMPONENTS SUPPLIED BY AG&S. IT IS THE RESPONSIBILITY OF THE PURCHASER TO COORDINATE DRAWINGS PROVIDED BY AG&S WITH OTHER PLANS AND/OR OTHER COMPONENTS THAT ARE PART OF THE OVERALL PROJECT. IN CASES OF DISCREPANCIES, THE LATEST DRAWINGS PROVIDED BY AG&S SHALL GOVERN.
6.

INSPECTIONS :
NO SPECIAL INSPECTIONS ARE REQUIRED BY THE GOVERNING CODE ON THIS JOB. ANY OTHER INSPECTIONS REQUESTED BY THE LOCAL BUILDING DEPARTMENT SHALL BE CONDUCTED AT THE OWNER'S EXPENSE.
7.

SOIL REQUIREMENTS :
SITE CLASSIFICATION TO BE A, S OR M ONLY. SOIL SAFE BEARING CAPCITY VALUE INDICATED ON DRAWING SHEET 4 OCCURS AT 100mm BELOW FINISH GRADE, EXISTING NATURAL GRADE, OR AT FROST DEPTH SPECIFIED BY LOCAL BUILDING DEPARTMENT, WHICHEVER IS THE LOWEST ELEVATION. REGARDLESS OF DETAIL Y ON SHEET 4 THE MINIMUM FOUNDATION DEPTH SHOULD BE 100MM INTO NATURAL GROUND OR BELOW FROST DEPTH SPECIFIED BY LOCAL COUNCIL. ROLLED OR COMPACTED FILL MAY BE USED UNDER SLAB, COMPACTED IN 150mm LAYERS TO A MAXIMUM DEPTH OF 900mm. CONCRETE FOUNDATION EMBEDMENT DEPTHS DO NOT APPLY TO LOCATIONS WHERE ANY UNCOMPACTED FILL OR DISTURBED GROUND EXISTS OR WHERE WALLS OF THE EXCAVATION WILL NOT STAND WITHOUT SUPPLEMENTAL SUPPORT, IN THIS CASE SEEK FURTHER ENGINEERING ADVICE.
8.

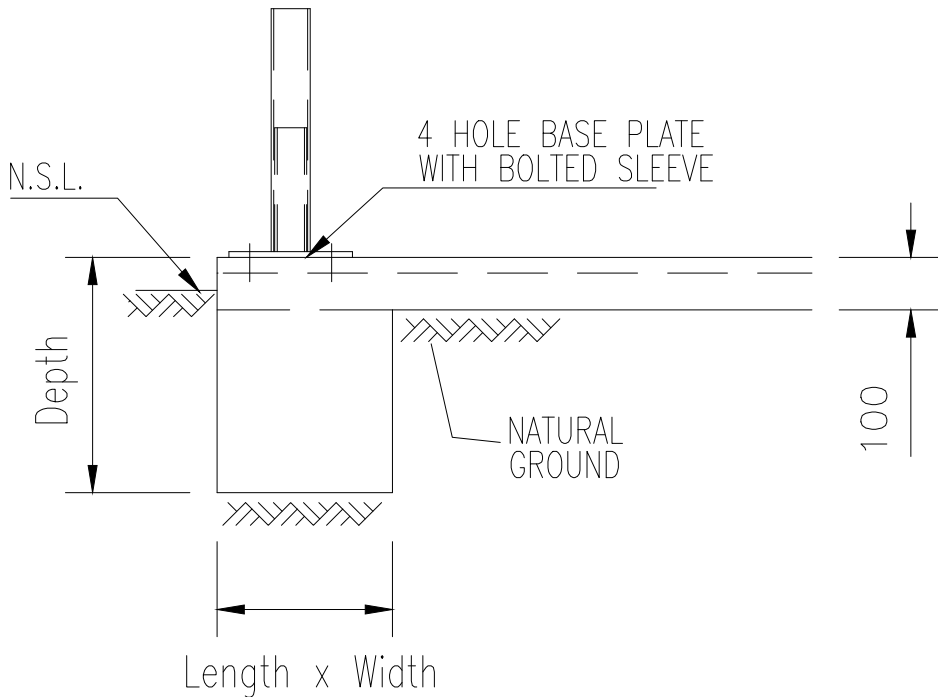
CLASS 10a FOOTING DESIGNS:
THE FOUNDATION DOCUMENTED IS APPROPRIATE FOR CLASS 10a BUILDING DESIGNS ON 'M-D', 'H', 'H-D' OR 'E' CLASS SOILS, IF TOTAL SLAB AREA IS UNDER 100m/sq; AND THE MAXIMUM SLAB DIMENSION (LENGTH AND WIDTH) IS LESS THAN 12m.
PLEASE BE AWARE THAT THE SLAB DESIGN FOR H & E CLASS SOILS IN THESE INSTANCES ARE DESIGNED TO EXPERIENCE SOME CRACKING. THIS CRACKING IS NOT CONSIDERED A STRUCTURAL FLAW OR DESIGN ISSUE, AND IS SIMPLY COSMETIC IN NATURE. IF THIS IS A CONCERN TO THE CLIENT IT IS ADVISED THEY DISCUSS OTHER OPTIONS WITH THE RELEVANT DISTRIBUTOR PRIOR TO THE POURING OF THE SLAB.
FOR PAD ONLY DESIGNS BUILDING DIMENSION PREVAILS OVER SLAB DIMENSIONS.
9.

CONCRETE REQUIREMENTS :
ALL CONCRETE DETAILS AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH AS2870 AND AS3600. CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 20MPa FOR EXPOSURE A1, 25MPa FOR EXPOSURE A2, 32MPa FOR EXPOSURE B1, 40MPa FOR EXPOSURE B2 AND 50MPa FOR EXPOSURE C, IN ACCORDANCE WITH SECTION 4, AS3600. CEMENT TO BE TYPE A. MAX AGGREGATE SIZE OF 20mm. SLUMP TO BE 80mm +/-15mm. SLABS TO BE CURED FOR 7 DAYS BY WATERING OR COVERING WITH A PLASTIC MEMBRANE, AFTER WHICH CONSTRUCTION CAN BEGIN, DUE CARE GIVEN NOT TO OVER-TIGHTEN HOLD DOWN BOLTS. GIVEN ALLOWABLE SOIL TYPES 1 LAYER OF SL72 REINFORCING MESH IS TO BE INSTALLED ON STANDARD SLABS WITH A MINIMUM 30MM COVER FROM CONCRETE SURFACE. CONCRETE REINFORCING TO CONFORM TO AS 1302, AS1303 & AS 1304. ALL REINFORCING COVER TO BE A MINIMUM OF 30mm.
10.

STRUCTURAL STEEL REQUIREMENTS :
ALL STRUCTURAL STEEL, INCLUDING SHEETING THOUGH EXCLUDING CONCRETE REINFORCING, SHALL CONFORM TO AS 1397 (GAUGE <= 1mm fy = 550MPa, GAUGE > 1mm < 1.5mm fy = 500MPa, GAUGE >= 1.5mm fy = 450MPa).
NO WELDING IS TO BE PERFORMED ON THIS BUILDING.
ALL STRUCTURAL MEMBERS AND CONNECTIONS DESIGNED TO AS4600. ALL BOLT HOLE DIAMETERS TO STRAMIT GENERAL PUNCHINGS.

PROJECT DESIGN CRITERIA

ROOF LIVE LOAD: 0.25 kPa
BASIC WIND SPEED: VR 45 m/s
WIND REGION: Reg A
TERRAIN CATEGORY: TCat 2
SEISMIC ZONE: 4
SOIL SAFE BEARING CAPACITY: 100 kPa
IMPORTANCE LEVEL: 2



300 x 300 x 300
length x width x depth (mm)

Y

LOCAL THICKENING DETAIL

SCALE:
NO SCALE

4
OF
5

SHEET

JOB NO.
MAST37926

DATE

CHECKED
TM

DRAWN
FDS

STEEL BUILDING BY

FOR

AT

(CONTACT)
MA STEEL
02 6382 4387
MARK O'CONNOR
3 LANDSDOWN STREET
YOUNG



**NORTHERN
CONSULTING
engineers**

Civil & Structural Engineers
50 Punari Street
Currarong, Qld 4812
Fax: 07 4725 5850
Email: design@nceng.com.au
ABN 341 008 173 56

Registered Chartered Professional Engineer
Registered Professional Engineer (Civil & Structural) QLD
Registered Certifying Engineer (Structural) N.T.
Registered Engineer - (Civil) VIC
Registered Engineer - (Civil) TAS

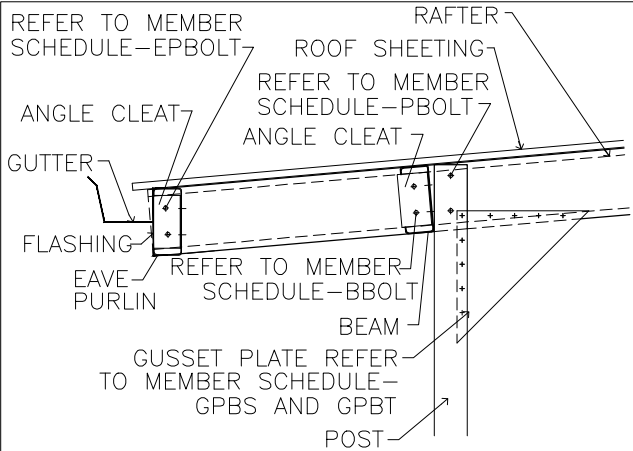
Regn. No. 2558980
Regn. No. 9985
Regn. No. 116373ES
Regn. No. PE0002216
Regn. No. CC5648M

Mr Timothy Roy Messer BE MIEAust RPEQ

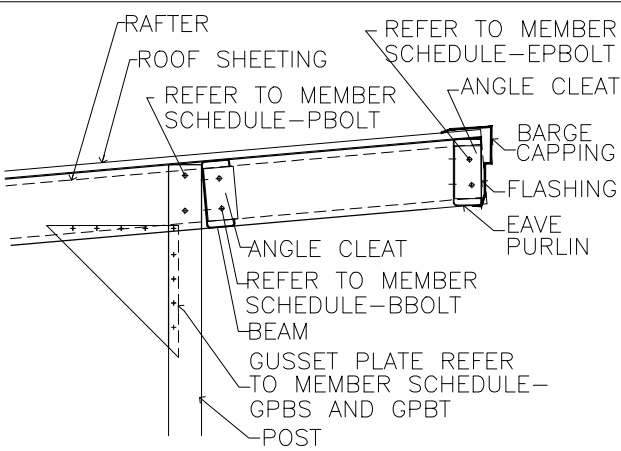
Signature *T. Messer*

Date 20/3/2025

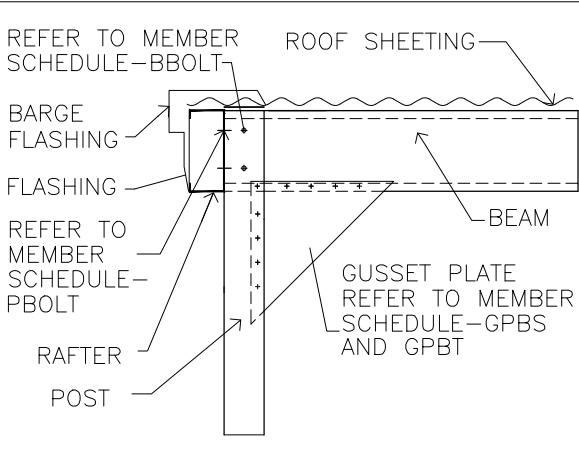
Registered on the NPER in the areas of practice
of Civil & Structural National Professional
Engineers Register



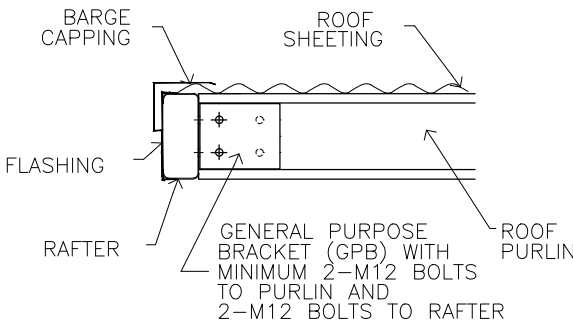
A HAUNCH CONNECTION AT LOW END DWG NO FBHL



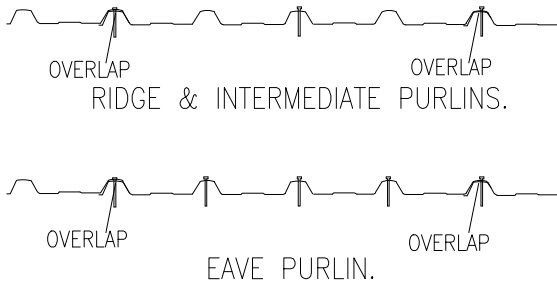
B HAUNCH CONNECTION AT HIGH END DWG NO FBHH



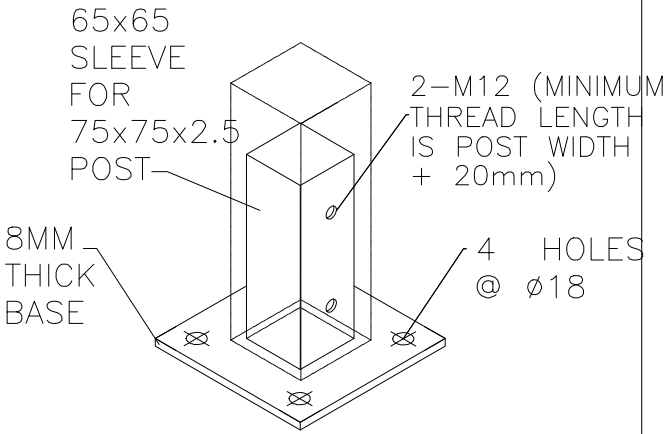
D POST CONNECTION DWG NO FBPC



E ROOF PURLIN CONNECTION-END-BOLT DWG NO FBRP1



G ROOF SHEETING PROFILE DWG NO R1




R BASE CONNECTION DETAIL DWG NO CBC18

MEMBER AND MATERIAL SCHEDULE

1	C.S. FRAME RAFTER	Single C15024
2	C.S. FRAME POST(LOW)	Single Post 75x75x2.5 SHS 2.40m stock length
3	POST(LOW) CUT LENGTH	2.4m
4	C.S. FRAME POST(HIGH)	Single Post 75x75x2.5 SHS 2.95m stock length
5	POST(HIGH) CUT LENGTH	2.78m *
6	ANCHOR BOLTS (# PER DETS.)	Sleeve Anchor 16.0x110 G/Y
7	POST SLEEVE BOLTS	Hex 4.6 Gal M12x100
8	EAVE PURLIN	C15024
9	BEAMS	C15024
10	ROOF PURLIN	C15024
11	ROOF PURLIN SPACING	0.911 m. (1.5m Max.)
12	ROOF CLADDING	Monoclad TCT 0.47, CB
13	ROOF CLADDING FASTENERS	12-14x45 H/Grip C/S CB
14	FRAME SCREW FASTENERS	14-13x22 Hex C/S (SP HD 5/16' Hex Drive)
15	FRAME BOLT FASTENERS	Purlin Assy M12x30 Z/P
16	GUSSET PLATE BRACKET SIZE (GPBS)	300 x 300
17	GUSSET PLATE BRACKET TEKS (GPBT)	8x14-13x22 Hex C/S (SP HD 5/16' Hex Drive)
18	POST BOLTS (PBOLT)	2xHex 4.6 Gal M12x100
19	ROOF PURLIN BOLTS (RPBOLT)	4xPurlin Assy M12x30 Z/P
20	EAVE PURLIN BOLTS (EPBOLT)	4xPurlin Assy M12x30 Z/P
21	BEAM BOLTS (BBOLT)	4xPurlin Assy M12x30 Z/P
22	ROOF COLOUR	COLORBOND
23	DOWNPIPE COLOUR	COLORBOND
24	GUTTER COLOUR	COLORBOND
25	BARGE COLOUR	COLORBOND

C.S. = CLEARSPAN
* MID POSTS TO BE CUT TO SUIT ACTUAL HEIGHT USING THE CUT LENGTH OF THE HIGH POSTS

COMPLIANCE CERTIFICATE FOR BUILDING DESIGN

Property Description Street address (include number, street, suburb/locality & postcode)	3 LANDSDOWN STREET YOUNG Postcode : 2594																													
Description of Component/s Certified Clearly describe the extent of work covered by this certificate.	Steel Portal Frame Structure. 7m span x 7m O/A length x 2.4m eaves height. Consisting of 1 bays at 4.4m spacing.																													
Basis of Certification Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.	<div>Australian Standards (list) AS/NZS 4600-2018, AS/NZS 1170.0,1-2002, 1170.2-2021, 1170.3-2003, 1170.4-2007, AS2870-2011, AS3600-2018, AS5216-2021</div> <table><tr><td>2022 National Construction Code of Australia</td><td>NCC Building Classification: Class 10a</td></tr><tr><td>Region AS1170.2 = Reg A</td><td>Factor for Region = NA</td></tr><tr><td>NCC Importance Level = 2</td><td>NCC Equivalent Wind class = N2</td></tr><tr><td>Annual Probability Exceedance wind = 1:500</td><td>Design Roof Live Load = 0.25 kPa</td></tr><tr><td>Regional 3 s Gust Wind Speed for annual probability of exceedance V_R = 45 m/s</td><td></td></tr><tr><td>Wind directional multipliers for the 8 cardinal directions M_d = 1</td><td></td></tr><tr><td>Terrain/Height multiplier (M_z, Cat) = 0.91</td><td>Shielding Multiplier M_s = 1</td></tr><tr><td>Topographic multiplier M_t = 1</td><td>Design Wind Speed = 40 m/s</td></tr><tr><td>Ext. Pressure Coefficient c_{pe} = -0.4 & +0.4</td><td>Int. Pressure Coefficient c_{pi} = N/A</td></tr></table>			2022 National Construction Code of Australia	NCC Building Classification: Class 10a	Region AS1170.2 = Reg A	Factor for Region = NA	NCC Importance Level = 2	NCC Equivalent Wind class = N2	Annual Probability Exceedance wind = 1:500	Design Roof Live Load = 0.25 kPa	Regional 3 s Gust Wind Speed for annual probability of exceedance V_R = 45 m/s		Wind directional multipliers for the 8 cardinal directions M_d = 1		Terrain/Height multiplier (M_z , Cat) = 0.91	Shielding Multiplier M_s = 1	Topographic multiplier M_t = 1	Design Wind Speed = 40 m/s	Ext. Pressure Coefficient c_{pe} = -0.4 & +0.4	Int. Pressure Coefficient c_{pi} = N/A									
2022 National Construction Code of Australia	NCC Building Classification: Class 10a																													
Region AS1170.2 = Reg A	Factor for Region = NA																													
NCC Importance Level = 2	NCC Equivalent Wind class = N2																													
Annual Probability Exceedance wind = 1:500	Design Roof Live Load = 0.25 kPa																													
Regional 3 s Gust Wind Speed for annual probability of exceedance V_R = 45 m/s																														
Wind directional multipliers for the 8 cardinal directions M_d = 1																														
Terrain/Height multiplier (M_z , Cat) = 0.91	Shielding Multiplier M_s = 1																													
Topographic multiplier M_t = 1	Design Wind Speed = 40 m/s																													
Ext. Pressure Coefficient c_{pe} = -0.4 & +0.4	Int. Pressure Coefficient c_{pi} = N/A																													
Reference Documentation Clearly identify any relevant documentation, e.g numbered structural engineering plans	<div>Drawing Nos: 'Fair Dinkum Sheds' Structural Design Drawing</div> <div>To be read in conjunction with Pages 1 to 5</div> <div>For Job Number: MAST37926 DATED : 20/3/2025</div> <div>Specifications:</div> <div>Computations:</div> <div>Test Reports:</div> <div>Other Documentation:</div>																													
Competent Person Details A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practise in aspect of the design, building or inspection of the building work because of the person's skill and experience in the aspect. The competent person must also be registered or licensed under a law applying in the state to practice the aspect. A COPY OF A CURRENT CV AND PROFESSIONAL REGISTRATION DETAILS MUST BE PROVIDED WITH THE CERTIFICATE	<table><tr><td>Name:</td><td colspan="2">Timothy Roy Messer</td></tr><tr><td>Company Name (If applicable):</td><td colspan="2">Northern Consulting Engineers</td></tr><tr><td>Postal Address:</td><td colspan="2">50 Punari Street, Currajong 4812</td></tr><tr><td>Contact Person:</td><td colspan="2">Timothy Roy Messer</td></tr><tr><td>Telephone Number:</td><td colspan="2">07 4725 5550</td></tr><tr><td>Mobile Number:</td><td colspan="2">N/A</td></tr><tr><td>Fax Number:</td><td colspan="2">07 4725 5850</td></tr><tr><td>Email Address:</td><td colspan="2">design@nceng.com.au</td></tr><tr><td>License or Registration Number:</td><td>2558980</td><td>Copy of CV Attached: <input type="checkbox"/> Tick Box</td></tr></table> <div>Y <input type="checkbox"/> or N <input checked="" type="checkbox"/></div>			Name:	Timothy Roy Messer		Company Name (If applicable):	Northern Consulting Engineers		Postal Address:	50 Punari Street, Currajong 4812		Contact Person:	Timothy Roy Messer		Telephone Number:	07 4725 5550		Mobile Number:	N/A		Fax Number:	07 4725 5850		Email Address:	design@nceng.com.au		License or Registration Number:	2558980	Copy of CV Attached: <input type="checkbox"/> Tick Box
Name:	Timothy Roy Messer																													
Company Name (If applicable):	Northern Consulting Engineers																													
Postal Address:	50 Punari Street, Currajong 4812																													
Contact Person:	Timothy Roy Messer																													
Telephone Number:	07 4725 5550																													
Mobile Number:	N/A																													
Fax Number:	07 4725 5850																													
Email Address:	design@nceng.com.au																													
License or Registration Number:	2558980	Copy of CV Attached: <input type="checkbox"/> Tick Box																												
Signature of Competent Person This form may be used by competent persons to certify the design of a material, system, method of building, building element design or other thing. If the competent person is a licensed company the authorised person of the company is to sign the form.	<div>I certify that the item/s described above, if installed or carried out in accordance with the information contained in this certificate, including any referenced documentation, will comply with the National Construction Code of Australia/relevant Australian or International Standard.</div> <div>Signature of competent person: </div> <div>Date: 20/3/2025</div>																													
LOCAL GOVERNMENT USE ONLY																														
Date received		Reference Number/s																												