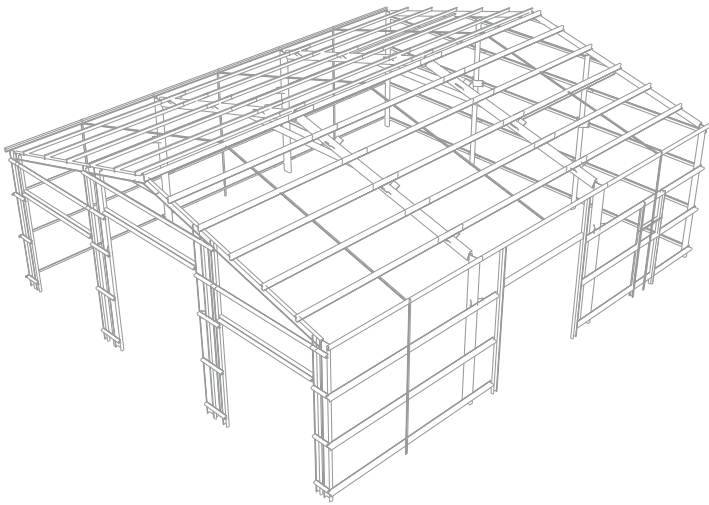


STEEL SHEDS AUSTRALIA

Framing plans



Version: 49 - 1.5.0.0

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CLIENT
MorCo Equipment Pty Ltd Tony Morcom

FRANCHISEE / RESELLER
Totalspan Steel Buildings

BUILDING DETAILS
Project No: SSA4946
Date: 16/12/2022 7:22:23 AM
Pressure Coefficient: -0.3/+0.2
Windspeed: 40.95
Span: 12000
Length: 14000
Eave Height: 4200
Roof Pitch: 15
Bay Count: 3
Max Bay Size: 4667
Roof Type: Corrugated .42
Wall Type: Corrugated.42

INDEX

1.	Contents
2.	General Notes & Specification
3.	Material Specification
4.	Elevation page
5.	Slab Plan
6.	Frame Roof Plan
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8.	Frame Elevation Wall 2
9.	Frame Elevation Wall 3
10.	Frame Elevation Wall 4
11.	Frame Mid Portal
12.	Cladding Roof Plan
13.	Cladding Elevation Wall 1
14.	Cladding Elevation Wall 2
15.	Cladding Elevation Wall 3
16.	Cladding Elevation Wall 4
17.	Connection Details
30.	Slab and Pier Details

CONSTRUCTION NOTES

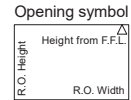
1. Drawings contained within shall not be scaled for fabrication or erection purposes.
2. Drawings shall be read in conjunction with both the projects architectural drawings and the supplied instruction manual.
3. At setout, diagonals shall be carefully checked to ensure building is square.
4. The structure shall be maintained in a stable condition during erection and no component shall be overstressed. Temporary roof and/or wall bracing may be required during construction.
5. Boxed sections are quantified as a single member but actually consist of two individual members.
6. If in doubt, please read instruction manual.

DIMENSION NOTES

1. All dimensions contained within this document are in mm unless noted otherwise.
2. Slab plan doors are accumitively dimensioned from the edge of the slab to the door rebates.
3. Elevation openings are accumitively dimensioned from the edge of the slab to the rough opening.
4. Frame diagonals are measured from the bottom of one leg across to the top of the opposite leg.
5. Girts are dimensioned from the finished floor level to the bottom edge of the sections.
6. Purlins are dimensioned from the top of the rafter section to the bottom edge of the purlin sections.

KEYS

- B.E. refers to bottom edge of section
- CTR refers to centres
- F.F.L. refers to finised floor level
- R.O. refers to rough opening
- T.E. refers to top edge of section



Content
1 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

GENERAL NOTES

1. THESE DRAWINGS ARE VALID ONLY WHEN ENDORSED BY A SEPARATE DESIGN CERTIFICATE THAT IS VALID FOR THE DATE OF ISSUE AND CONSTRUCTION.
- CERTIFICATION**
1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR BEFORE COMMENCING WORK.
3. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH RELEVANT CURRENT AUSTRALIAN STANDARDS, BCA AND LOCAL AUTHORITY BYLAW.
4. DRAWINGS SHALL NOT BE SCALED FOR ANY FABRICATION OR ERECTION DETAILS.
5. AT SETOUT, DIAGONALS MUST BE CAREFULLY CHECKED TO ENSURE BUILDING IS SQUARE.
6. OBTAIN NECESSARY PERMITS AND APPROVALS FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE.
7. THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION DURING ERECTION AND NO COMPONENT SHALL BE OVERTRESSED. TEMPORARY ROOF RIB WALL BRACING MAY BE REQUIRED DURING CONSTRUCTION.
- LOADINGS**
1. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LOADS:
1. DEAD LOAD + 0.1kPa (ROOF SHEETING & PURLINS) AS PER AS/NZS 1170.1
2. LIVE LOAD + 0.25kPa IN ACCORDANCE WITH AS/NZS 1170.1
3. WIND LOADS (WIND REGION A & B ONLY), CALCULATED IN ACCORDANCE WITH AS/NZS 1170.2:2011
4. SITE SPECIFIC WIND SPEED CALCULATOR USED TO OBTAIN SITE WIND SPEED. THE FOLLOWING SITE WIND PARAMETERS TAKEN INTO ACCOUNT: IMPORTANCE LEVEL (I), REGIONAL WIND SPEED (V_R), CYCLONIC FACTOR (F_C), DIRECTIONAL MULTIPLIER (M_D), TERRAIN HEIGHT MULTIPLIER (M_T), TOPOGRAPHIC MULTIPLIER (M_T), SHIELDING (M_S).
5. INTERNAL WIND PRESSURE COEFFICIENTS. REFER TABLE

REGION	DOMINANT OPENING	ENCLOSED
A & B	C _{pi} = +0.7, -0.85	C _{pe} = 0.2, -0.3
C	C _{pi} = +0.7, -0.85	C _{pe} = 0.7, -0.85

4. COMBINATION DESIGN LOADS - AS PER AS/NZS 1170.0
- DESIGN LOAD LIMITATIONS:**
1. THIS DESIGN IS APPLICABLE ONLY TO NON-TRAFFICABLE ROOFS (R2 ROOFS)
2. SNOW LOADS NOT TAKEN INTO ACCOUNT IN THIS DESIGN.
- STEELWORK**
1. ALL STRUCTURAL FRAMING MEMBERS SHALL BE G550 - G450 GRADE STEEL U.O. AND ALL CLEATS SHALL BE G450 GRADE STEEL GALVANIZED TO MIN Z275. POSTS SHALL BE G450. REFER DRAWING.
2. ROOF AND WALL SHEETING SHALL BE G550 GRADE STEEL PROTECTED WITH ZINCALUMINE AZ150.
3. ROOF SHEETING CAN BE REPLACED WITH CLEAR ROOF 2400X3M PANEL FIXED TO MANUFACTURERS SPECIFICATIONS. A HIGHER GOM RATE MAY BE REQUIRED FOR SNOW AREAS.
4. PURLINS & BRIDGING TO BE EX. C100 LIPPED CRAMPED CHANNELS 0.95mm B.M.T., 1.2mm, 1.5mm OR 1.9mm B.M.T.
5. ROOF CLADDING SHEET IS TO BE FIXED AS FOLLOWS:
NOTE: MAXIMUM SPAN OF CLADDING AND TEK SCREW LOCATIONS FOR EACH CLADDING TYPE SHOWN ON THIS SHEET.
- REGION A & B ROOFING:**
CORRUGATED 0.42 B.M.T.
FIXED WITH #12-14x48 TEKs AT EVERY SECOND CREST TO EAVE AND RIDGE PURLINS AND 2-3-2 PATTERN FOR INTERMEDIATE FASTENERS.
7 RIB 0.350 42 B.M.T.
(0.35mm B.M.T APPROVED FOR REGION A ONLY)
FIXED WITH #12-14x48 TEKs AT EAVE AND RIDGE PURLINS WITH 1 SCREW EVERY RIB AND ALTERNATE RIBS FOR ALL INTERMEDIATE PURLINS.
- SPANCLAD 0.42mm B.M.T.**
FIXED WITH #12-14x48 TEKs AT ALL PURLINS WITH 1 SCREW EVERY RIB.
- REGION C ROOFING:**
CORRUGATED 0.42 B.M.T.
FIXED WITH #14-10x65 CYCLONIC ASSEMBLY WITH PROFILE WASHERS AT EVERY SECOND CREST TO ALL PURLINS.
SPANCLAD 0.42 B.M.T.
FIXED WITH #14-10x65 CYCLONIC ASSEMBLY WITH PROFILE WASHERS AT EVERY CREST TO ALL PURLINS.

WALL CLADDING CONT.
NOTE: MAXIMUM SPAN OF CLADDING AND TEK SCREW LOCATIONS FOR EACH CLADDING TYPE SHOWN THIS SHEET.

- REGION A & B WALL CLADDING:**
CORRUGATED 0.42 B.M.T.
FIXED WITH #10-16x20 NEO TEKs AT EVERY SECOND VALLEY TO ALL GIRTS INTERMEDIATE GIRTS.
7 RIB 0.350 42 B.M.T.
FIXED WITH #10-16x20 TEKs AT EVERY VALLEY TO TOP AND BOTTOM GIRT AND EVERY SECOND VALLEY FOR ALL INTERMEDIATE GIRTS.
REGION C WALL CLADDING:
CORRUGATED 0.42 B.M.T.
FIXED WITH #14-10x20 NEO TEKs AT EVERY SECOND VALLEY TO ALL GIRTS
7 RIB 0.42 B.M.T (0.35 B.M.T NOT AVAILABLE).
FIXED WITH #14-10x20 NEO TEKs AT EVERY VALLEY TO ALL GIRTS.
SPANCLAD 0.350 42 B.M.T.
FIXED WITH #14-10x20 NEO TEKs AT EVERY VALLEY TO ALL GIRTS.
- NOTE:** OTHER ROOF AND WALL CLADDING PROFILES MAY BE USED. REFER MANUFACTURERS SPECIFICATIONS FOR FIXING DETAILS.
7. PURLINS / GIRTS FAST TO RAFTERS / COLUMNS / UPRIGHTS WITH 2 M12 BOLTS AND WASHERS EACH END U.O.C. REFER RELEVANT JOINT DETAILS.

SERVICE HOLES

ARE PERMITTED IN WEBS OF ALL STRUCTURAL MEMBERS. MAXIMUM SIZE 35mm DIA. SPACING BETWEEN SERVICE HOLES FOR TO BE AT LEAST 100mm. FOR SECTIONS LARGER THAN OR EQUAL TO C12 150 AND 25mm DIA. FOR SECTIONS LESS THAN C12 150.

SPECIFICATIONS

- ALL TOP HAT SECTIONS SHALL BE PRODUCED FROM G550/G500 HIGH TENSILE STEEL WITH GALVANIZED / ZINC-ALUMINUM ALLOYS COATING CONFORMING TO AS1397
- ALL SHEETING, FRAMING AND FLASHING SCREWS SHALL BE CLIMASEAL 4
- STRUCTURAL BOLTS TO BE M12 OR M18 N.G. 4.8 OR 8.8 U.O.C. WASHERS MUST BE USED (TYP.)
- RIDGES, BARGEES AND ALL PENETRATIONS TO BE FLASHED WITH 4mm ZINCALUMINE FINISHED STEEL.
- GUTTER AND DOWNPIPES TO BE FITTED AND DISCHARGED TO A LEGAL POINT OF DISCHARGE. SPLICE GUTTER AT CENTRE OF BUILDING. PROVIDE TWO SCREWS/RIVETS INTO EACH WEB AND SEAL WITH SILICONE.
- STEELWORK SHALL ALL COMPLY WITH THE REQUIREMENTS OF:-
 - AS/NZS 1170.0, 1.1 & 2, 2002:2011 LOADING CODES.
 - AS 4100 STEEL STRUCTURE CODES.
 - AS 3600 CONCRETE STRUCTURES.
 - AS/NZS 4500: 2005 COLD FORMED STEEL STRUCTURE CODE.
 - AS 1582 DESIGN AND INSTALLATION OF METAL ROOFING.
 - AS 1111/1112 METRIC-HEXAGON COMMERCIAL BOLTS AND SCREWS.
 - AS 2313 GUIDE TO THE PROTECTION OF IRON AND STEEL.
 - AS 3698 SELF DRILLING SCREWS FOR BUILDING & CONSTRUCTION INDUSTRY.
 - AS/NZS 4505:2012 GARAGE DOORS AND OTHER LARGE ACCESS DOORS.

CONCRETE

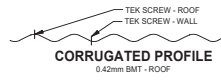
- REFER SLAB DRAWINGS FOR CONCRETE DETAILS, NOTES, SITE CONDITIONS ETC.

DOMINANT OPENING

- ANY BUILDINGS THAT HAVE PERMANENT OPENINGS AND OPEN BAYS ARE ENGINEERED FOR "DOMINANT OPENING" DESIGN WIND PRESSURE
- BUILDINGS WITH 2 ADJACENT SIDE / END WALLS ENCLOSED FALL INTO THIS CATEGORY
- IN CYCLONIC REGIONS, ALL BUILDINGS ARE ENGINEERED FOR "DOMINANT OPENING" DESIGN WIND PRESSURE
- IN CASES WHERE THERE ARE OPEN BAYS AND PORTAL COLUMNS ARE WITHOUT LATERAL RESTRAINTS, ALL COLUMNS SHALL BE BACK TO BACK.

ENCLOSED BUILDINGS WITH ROLLER DOORS OR BUILDINGS OPENED ON 2 OPPOSING SIDES
REGION A & B - C_{pi} = +0.2, -0.3
REGION C - C_{pi} = +0.7, -0.85
(UNLESS DOMINANT OPENING EXISTS)

NOTE: PA DOOR LOCATION ADJUSTABLE WITHIN A NON BRACED BAY



MAX. SPAN OF CLADDING

REGION	ROOF	WALLS
A	1450mm (1200)	1450mm
B	1450mm (1200)	1450mm
C	N/A	1200mm

1200mm (900mm) REPRESENTS 1200mm INTERNAL SPANS, 900mm END SPANS AT EAVES AND RIDGE.

MAX. SPAN OF CLADDING

REGION	ROOF	WALLS
A	1500mm (1200)	1800mm
B	1500mm (1200)	1800mm
C	1100mm (900)	1200mm

1200mm (900mm) REPRESENTS 1200mm INTERNAL SPANS, 900mm END SPANS AT EAVES AND RIDGE.

MAX. SPAN OF CLADDING

REGION	ROOF	WALLS
A	1500mm (1200)	1800mm
B	1500mm (1200)	1800mm
C	1100mm (900)	1200mm

1200mm (900mm) REPRESENTS 1200mm INTERNAL SPANS, 900mm END SPANS AT EAVES AND RIDGE.

MAX. SPAN OF CLADDING

REGION	ROOF	WALLS
A	N/A	1200mm
B	N/A	1200mm
C	N/A	N/A

STRUCTURAL PROFILES

C SECTION	Z SECTION
C100 10 12 15 19	Z100 10 12 15 19
C150 12 15 19 24	Z150 12 15 19 24
C200 19 24	Z200 19 24
C250 19 24	Z250 19 24
C300 24 30	Z300 24 30
C350 30	Z350 30

C SECTION (SINGLE SECTION)

Z SECTION

STRUCTURAL PROFILES

C SECTION
B2B C100 10 12 15 19
B2B C150 12 15 19 24
B2B C200 19 24
B2B C250 19 24
B2B C300 24 30
B2B C350 30

C SECTION (BACK TO BACK SECTION)

PA DOOR JAMB SECTION TO SUIT SECTION GIRTS

DIM A	DIM B
C150 / Z150	152
C200 / Z200	202
C250 / Z250	252



I certify that buildings erected in accordance with these drawings will comply with the Building Code of Australia.

Wirtu L. Bayissa

B.Sc (Civil), M.Tech (Building Services), PhD (Structures),
MIE Aust (2853202), RPENG (891707), RPENG (16592), RPPE VICE (PE0002088),
AC (NSW) (8202146), J. SUP (NSW) (20201566)

Signed: _____
Date: _____

For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

Date: 16/12/2022 7:22:23 AM

Framing plans

General Notes & Specification

2 of 32

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REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

Building Dimensions									
Categories	Span	Length	Height	Pitch	Number of bays	Design Open/Close	Wind Region	Wind Speed	
Main Building	12000	14000	4200	15	3	Closed	A	40.95	

Bay Length			
	Bay 1	Bay 2	Bay 3
Bay Length	4667	4666	4667

Cladding Elements & Colours		
Category	Colour	Product
Roof Cladding	Off White	Corro
Wall Cladding	Off White	Corro
Trim	Off White	Type 06 01 Flashing
Roller Door	Off White	See roller door specification table
Downpipes	PVC	PVC Pipe 6m 90mm

Portal Elements				
	Portal 1	Portal 2	Portal 3	Portal 4
Purlin	Z10012	Z10012	Z10012	Z10012
Eave purlin	C10012	C10012	C10012	C10012
Purlin spacing	1077	1077	1077	1077
End girt	TH64120			TH64120
Side girt	Z10012	Z10012	Z10012	Z10012
Girt spacing	1353	1353	1353	1353
Number of uprights	2			2
Leg	C20019	C25019	C25019	C15015
Rafter	C20019	C25019	C25019	C15015

Bracing Specifications	
End Wall Bracing	2X 50 x 1.0 Straps
Side Wall Bracing	3X 50 x 1.0 Straps
Roof Bracing End	50 x 1.0 Straps

Roller Doors Specifications				
Opening	3000 x 3000	3000 x 3000	3000 x 3000	3419 x 4000
Wall	3	4	4	4
Jamb	C15024	C15024	C15024	C25024
Common Jamb	N/A	N/A	N/A	N/A
Head Beam	C15012	C15012	C15012	C15012

NOTE: Dimensions are in mm.
NOTE: CLOSED DESIGN ♦ N3-WIND RATED ROLLER DOORS, SLDs, WINDOWS SHALL BE INSTALLED AS PER AS/NZS1170.2-2011 Amdt 4.

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Wirtu L. Bayissa

B.Sc (Civil), M.Tech (Building Services), PID (Structures),
MIE Aust (2853082), RPEng (891707), RPEQ (16592), RPE Vic (PE0002088),
AC (NSW) (8022146), GSP (NSW) (02001568)

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Date: _____



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Project No: SSA4946

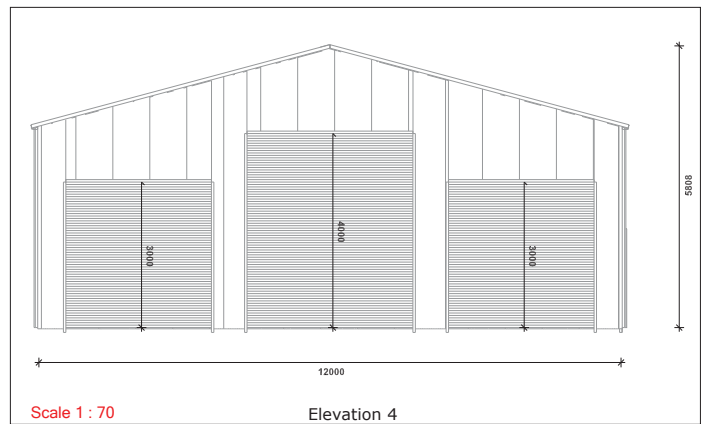
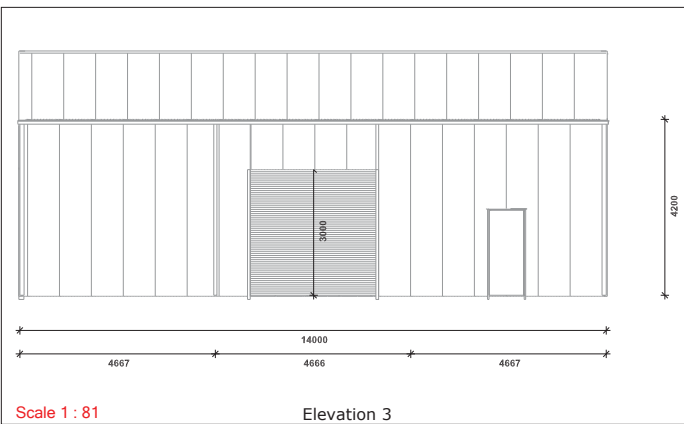
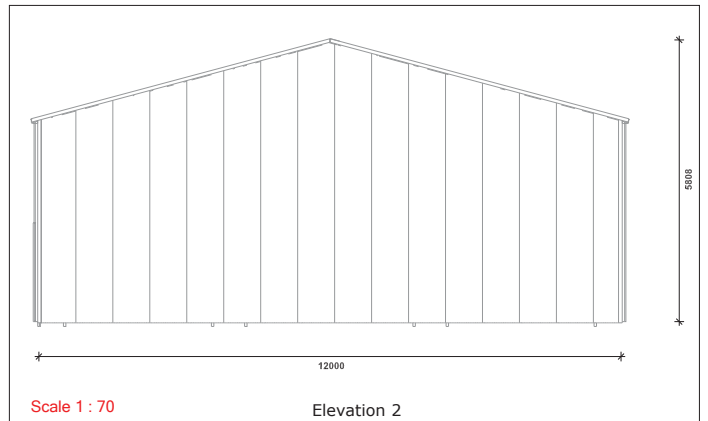
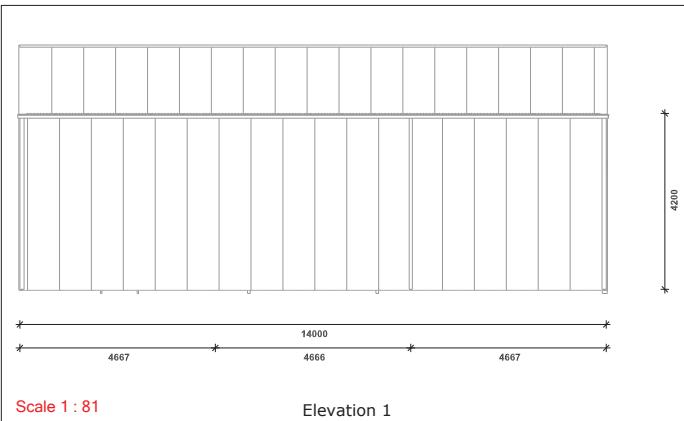
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Framing plans

Material Specification

3 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS



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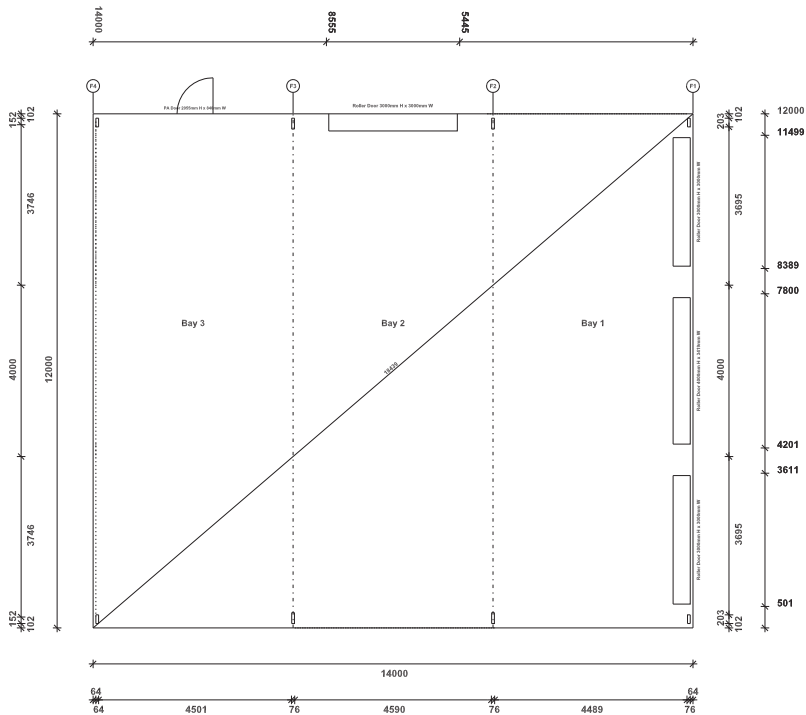
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Framing plans

Elevation page

4 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS



Scale 1 : 71



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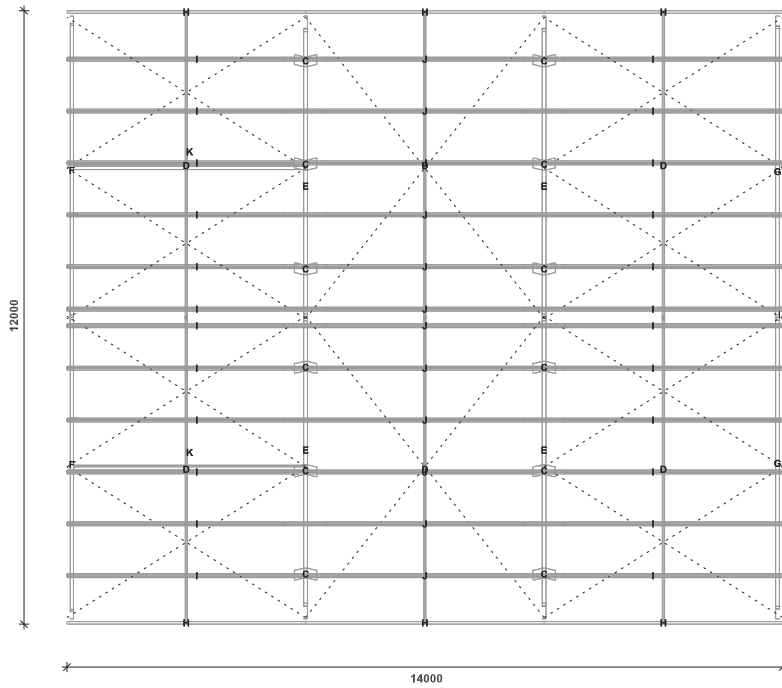
Framing plans

Slab Plan

5 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

Flybrace roof	Qty/Length
C FBSTRAP	12 / 200
Bridging	
D Ceiling Batten 22mm 2400	6 / 6212
Mid Rafter	
E C25019	4 / 5785
End Rafter	
F C15015	2 / 5911
G C20019	2 / 5848
Eave Purlin	
H C10012	6 / 4667
Purlin	
I Z10012	24 / 5077
J Z10012	12 / 5486
Compression Brace	
K C15012	2 / 4537
Bracing	
50 x 1.0 Straps	-----



Scale 1 : 69

3
2 4
1
Elevations

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MIE Aust (285302), RPEQ (891707), RPEQ (16592), RPE Vic (PE0002088),
AC (NSW) (8022146), CSP (NSW) (120201568)

Signed: _____

Date: _____

STEEL SHEDS
AUSTRALIA

For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

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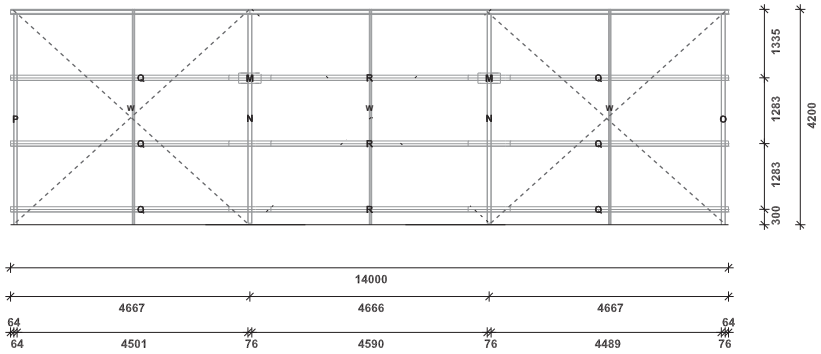
Framing plans

Frame Roof Plan

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REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

Flybrace	Qty/Length
M FBSTRAP	2 / 200
Mid Leg	
N C25019	2 / 4091
End Leg	
O C20019	1 / 4121
P C15015	1 / 4121
Side Girt	
Q Z10012	6 / 5077
R Z10012	3 / 5486
Bracing	
50 x 1.0 Straps	-----
W Ceiling Batten 22mm 2400	2 / 4200



Scale 1 : 67

I certify that buildings erected in accordance with these drawings will comply with the Building Code of Australia.

Wirtu L. Bayissa

B.Sc (Civil), M.Tech (Building Services), PID (Structures),
 ME Aust (2853082), RPEQ (891707), RPEQ (16592), RPE Vic (PE0002088),
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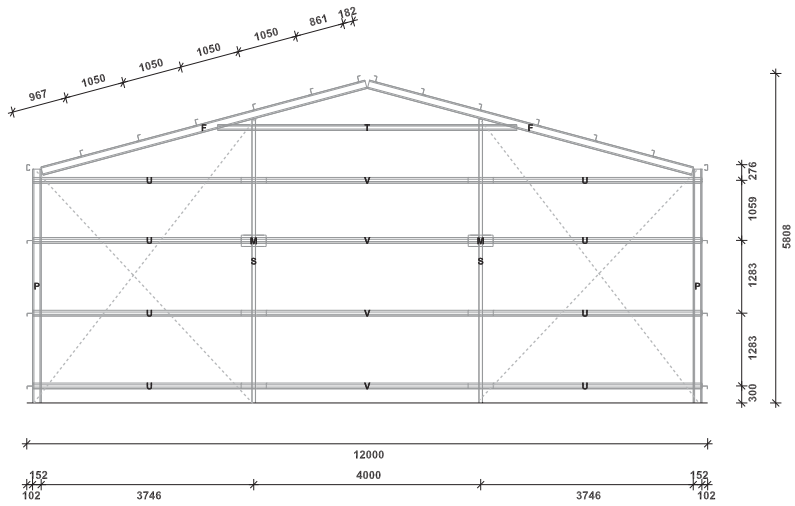
Framing plans

Frame Elevation Wall 1

7 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

End Rafter		Qty/Length
F	C15015	2 / 5911
Flybrace		
M	FBSTRAP	2 / 200
End Leg		
P	C15015	2 / 4121
Upright		
S	C15024	2 / 5000
End Girt		
T	TH64120	1 / 5273
U	TH64120	8 / 4120
V	TH64120	4 / 4444
Bracing		
50 x 1.0 Straps		-----



Scale 1 : 57

I certify that buildings erected in accordance with these drawings will comply with the Building Code of Australia.

Wirtu L. Bayissa

B.Sc (Civil), M.Tech (Building Services), PID (Structures),
 MIE Aust (2853082), RPEQ (891707), RPEQ (16592), RPE Vic (PE0002088),
 AC (NSW) (8022146), QSP (Tas) (10261566)

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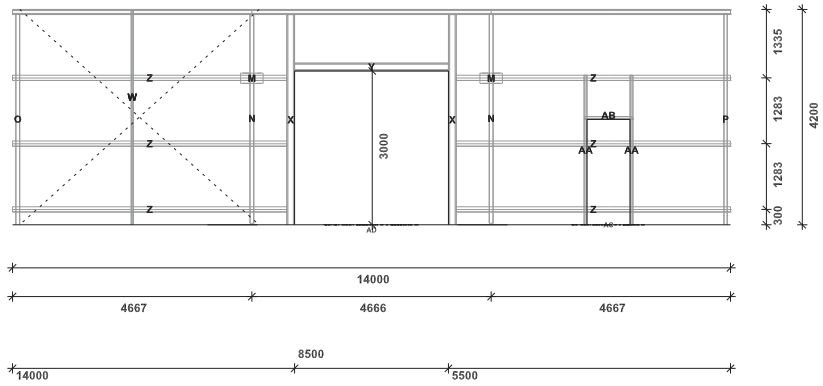
Framing plans

Frame Elevation Wall 2

8 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

Bridging	Qty/Length
W Ceiling Batten 22mm 2400	1 / 4200
Flybrace	
M FBSTRAP	2 / 200
Mid Leg	
N C25019	2 / 4091
End Leg	
O C20019	1 / 4121
P C15015	1 / 4121
Side Girt	
Z Z10012	6 / 5348
Door Jamb	
X C15024	2 / 4099
RAD Header	
Y C15012	1 / 3000
PA Door Jamb	
AA PADJR100	2 / 2916
PA Door Header	
AB PADJR100	1 / 952
PA Door	
AC 2055mm H x 840mm W	1 / 0
Roller Door	
AD 3000mm H x 3000mm W	1 / 0
Bracing	
50 x 1.0 Straps	-----



Note: PA Door location is adjustable.

Scale 1 : 67

I certify that buildings erected in accordance with these drawings will comply with the Building Code of Australia.

Wirtu L. Bayissa

B.Sc (Civ), M.Tech (Building Services), PID (Structures),
MIE Aust (285302), RPEQ (891707), RPEQ (16592), RPE Vic (PE0002088),
AC (NSW) (8022146), QSP (NSW) (10261568)

Signed: _____

Date: _____

STEEL SHEDS
AUSTRALIA

For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

Date: 16/12/2022 7:22:23 AM

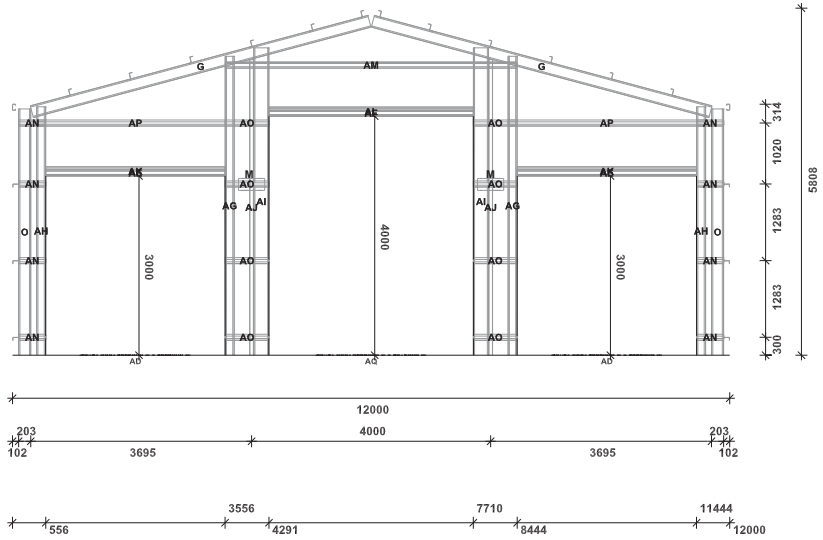
Framing plans

Frame Elevation Wall 3

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REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

End Rafter	Qty/Length
G C20019	2 / 5848
Flybrace	
M FBSTRAP	2 / 200
End Leg	
O C20019	2 / 4121
Upright	
AJ C15024	2 / 4947
End Girt	
AM TH64120	1 / 4879
AN TH64120	8 / 453
AO TH64120	8 / 733
AP TH64120	2 / 3306
Door Jamb	
AG C15024	2 / 5002
AH C15024	2 / 4157
AI C25024	2 / 5144
RAD Header	
AK C15012	2 / 3000
AL C15012	1 / 3419
Roller Door	
AD 3000mm H x 3000mm W	2 / 0
AQ 4000mm H x 3419mm W	1 / 0
Roller Door Girt Spacer	
AE TH64120	2 / 3000
AF TH64120	1 / 3419



Scale 1 : 57

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Project No: SSA4946

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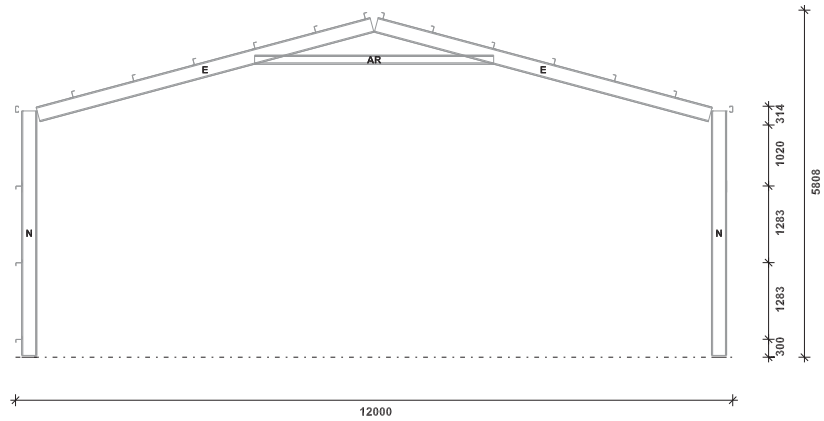
Framing plans

Frame Elevation Wall 4

10 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

Mid Rafter	Qty/Length
E C25019	2 / 5785
Mid Leg	
N C25019	2 / 4091
Apex Brace	
AR C15024	1 / 4000



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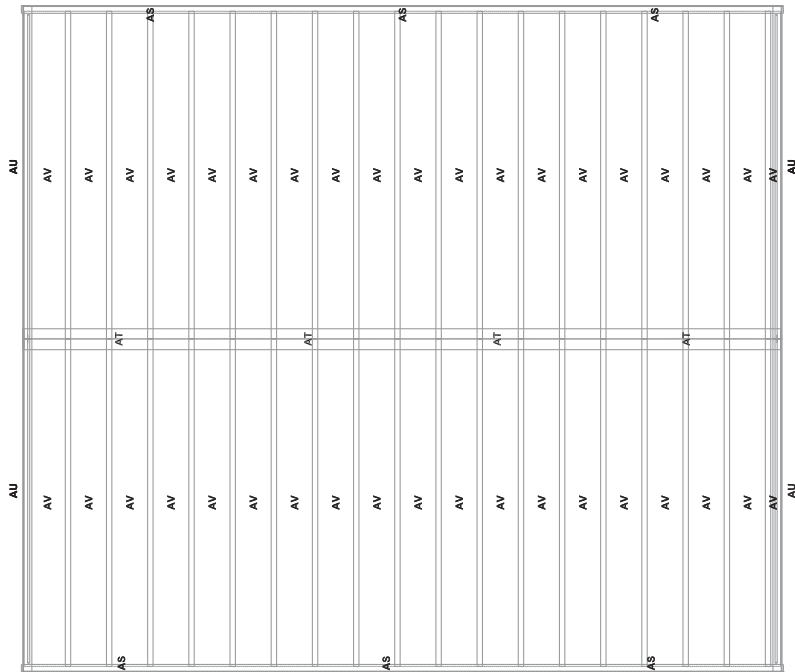
Framing plans

Frame Mid Portal

11 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

Gutter		Qty/Length
AS	Gutter 150 Quad High	6 / 4900
Ridge Cap		
AT	Type 03 08 Flashing	4 / 3613
Barge		
AU	Type 06 01 Flashing	4 / 6374
Roofing		
AV	Corro	38 / 6274



Scale 1 : 70



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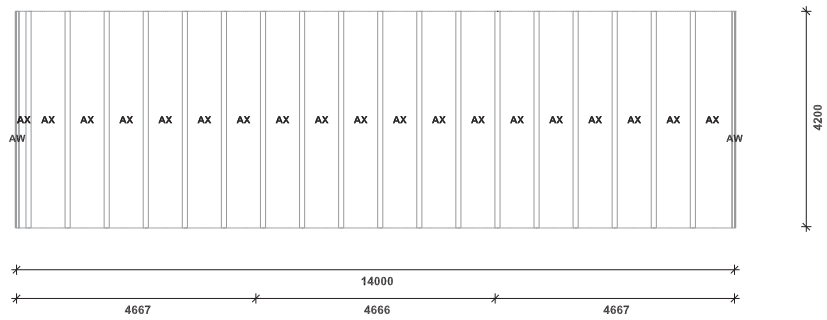
Framing plans

Cladding Roof Plan

12 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

Corner Flashing	Qty/Length
AW Type 05 07 Flashing	2 / 4225
Side Wall Cladding	
AX Corro	19 / 4225



Scale 1 : 67

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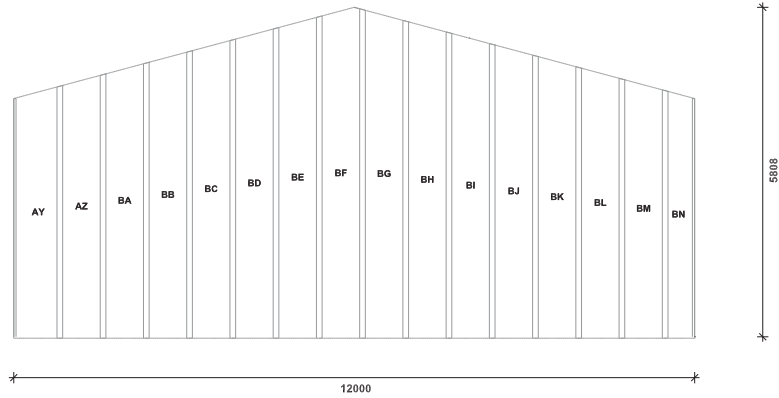
Framing plans

Cladding Elevation Wall 1

13 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

End Wall Cladding	Qty/Length
AY	Corro 1 / 4456
AZ	Corro 1 / 4660
BA	Corro 1 / 4864
BB	Corro 1 / 5068
BC	Corro 1 / 5273
BD	Corro 1 / 5477
BE	Corro 1 / 5681
BF	Corro 1 / 5833
BG	Corro 1 / 5807
BH	Corro 1 / 5603
BI	Corro 1 / 5399
BJ	Corro 1 / 5194
BK	Corro 1 / 4990
BL	Corro 1 / 4786
BM	Corro 1 / 4582
BN	Corro 1 / 4378



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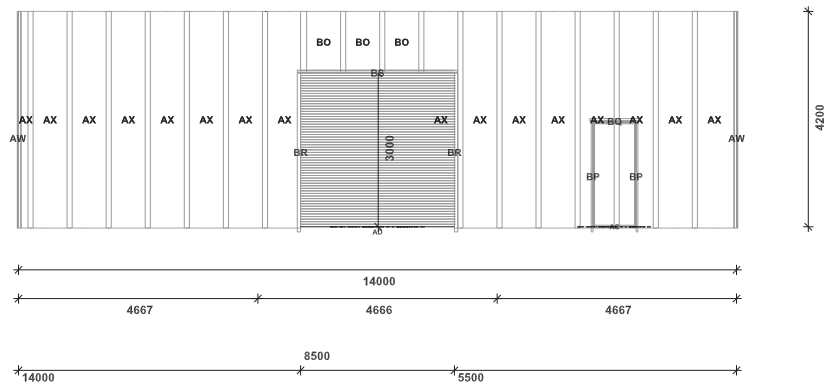
Framing plans

Cladding Elevation Wall 2

14 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

PA Door		Qty/Length
AC	2055mm H x 840mm W	1 / 0
Roller Door		
AD	3000mm H x 3000mm W	1 / 0
Corner Flashing		
AW	Type 05 07 Flashing	2 / 4225
Side Wall Cladding		
AX	Corro	16 / 4225
BO	Corro	3 / 1200
PA Opening Flashing		
BP	Type 05 13 Flashing	2 / 2155
BQ	Type 01 11 Flashing	1 / 965
RAD Side Flashing		
BR	Type 01 08 Flashing	2 / 3100
RAD Header Flashing		
BS	Type 01 11 Flashing	1 / 3125



Note: PA Door location is adjustable.

Scale 1 : 67

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For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

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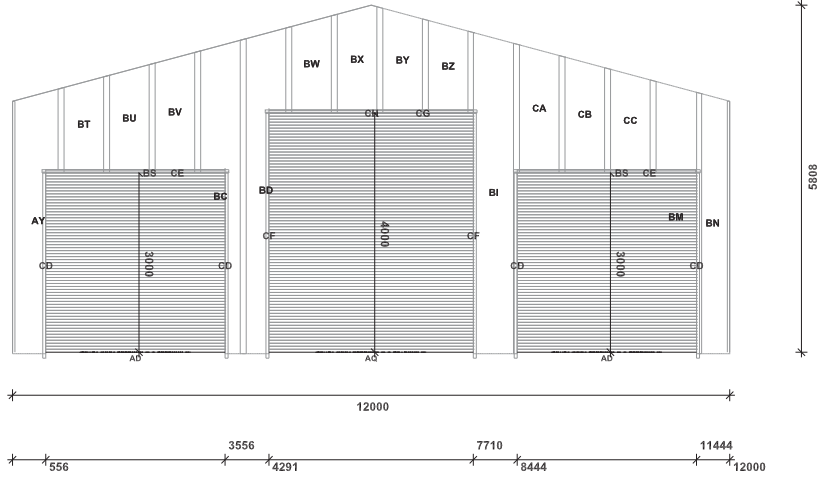
Framing plans

Cladding Elevation Wall 3

15 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

Roller Door	Qty/Length
AD 3000mm H x 3000mm W	2 / 0
AQ 4000mm H x 3419mm W	1 / 0
End Wall Cladding	
AY Corro	1 / 4456
BC Corro	1 / 5273
BD Corro	1 / 5477
BI Corro	1 / 5399
BM Corro	1 / 4582
BN Corro	1 / 4378
BT Corro	1 / 1635
BU Corro	1 / 1839
BV Corro	1 / 2043
BW Corro	1 / 1656
BX Corro	1 / 1808
BY Corro	1 / 1782
BZ Corro	1 / 1578
CA Corro	1 / 2169
CB Corro	1 / 1965
CC Corro	1 / 1761
RAD Header Flashing	
BS Type 01 11 Flashing	2 / 3125
CH Type 01 11 Flashing	1 / 3544
RAD	
CD Type 01 01 Flashing	4 / 3100
CE Type 01 01 Flashing	2 / 3000
CF Type 01 01 Flashing	2 / 4100
CG Type 01 01 Flashing	1 / 3419



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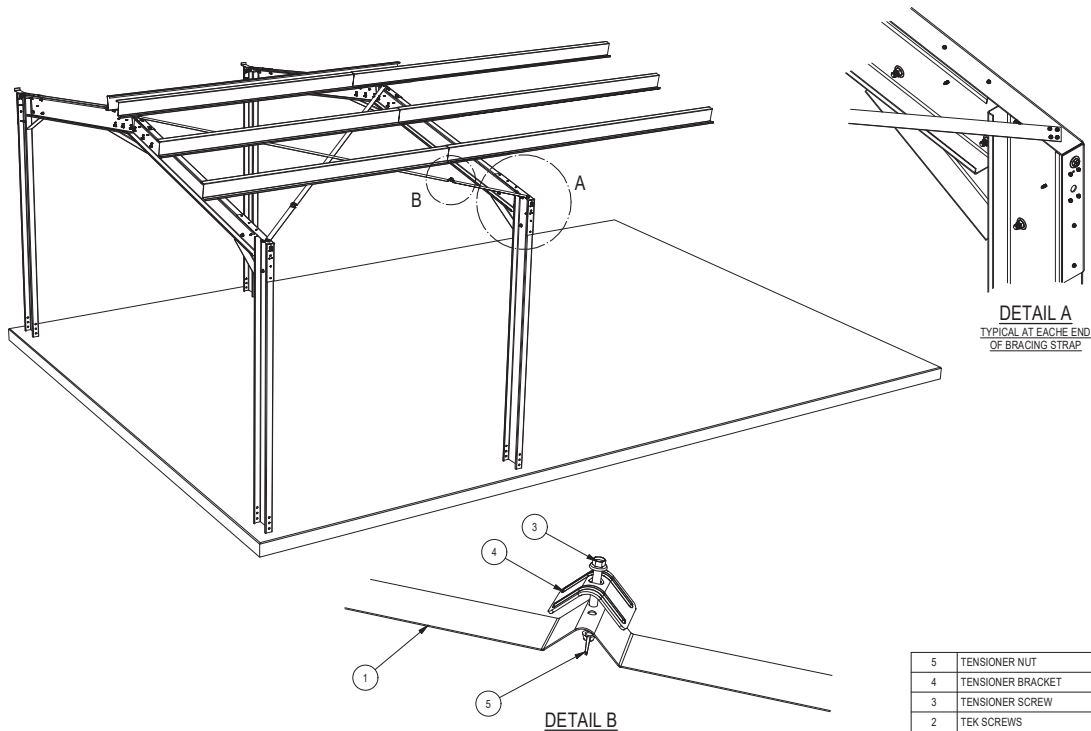
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Framing plans

Cladding Elevation Wall 4

16 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS



DETAIL A
TYPICAL AT EACH END
OF BRACING STRAP

DETAIL B

5	TENSIONER NUT
4	TENSIONER BRACKET
3	TENSIONER SCREW
2	TEK SCREWS
1	BRACING STRIP
ITEM No:	DESCRIPTION
A23	ROOF BRACING

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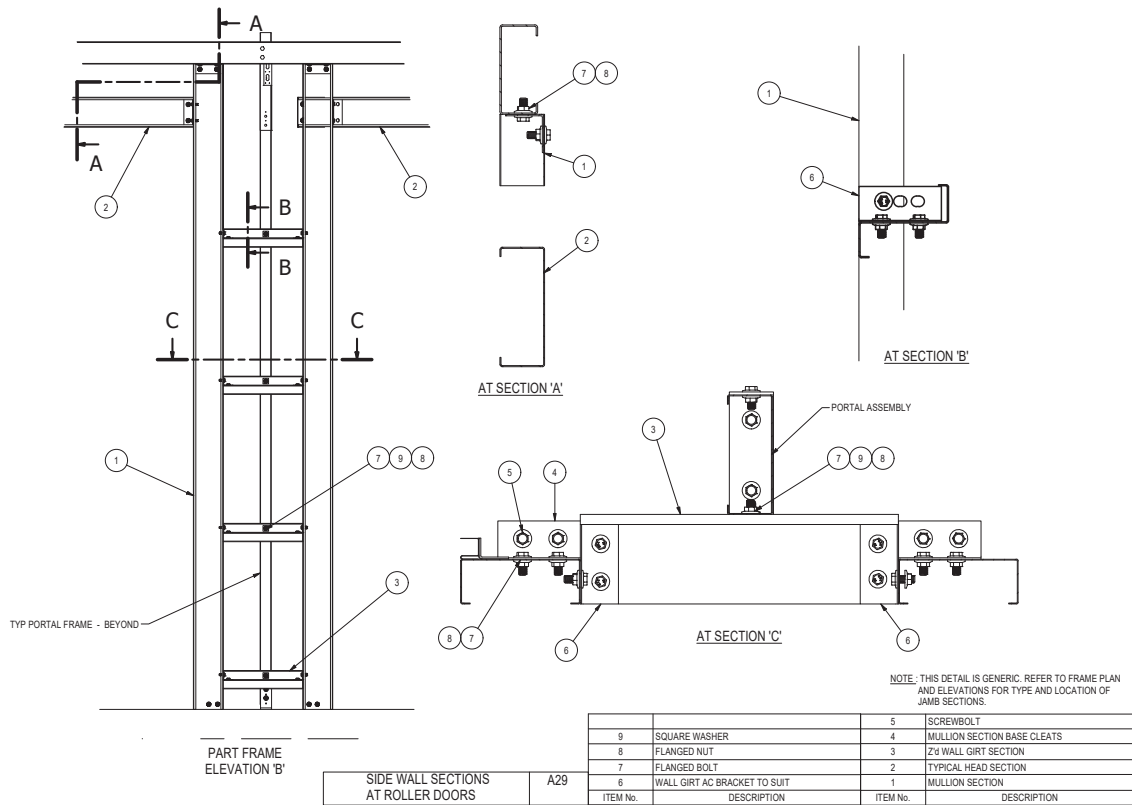
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Framing plans

Connection Details

17 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS



SIDE WALL SECTIONS AT ROLLER DOORS A29

9	SQUARE WASHER	5	SCREWBOLT
8	FLANGED NUT	4	MULLION SECTION BASE CLEATS
7	FLANGED BOLT	3	Z4 WALL GIRT SECTION
6	WALL GIRT AC BRACKET TO SLIT	2	TYPICAL HEAD SECTION
		1	MULLION SECTION
ITEM No.	DESCRIPTION	ITEM No.	DESCRIPTION

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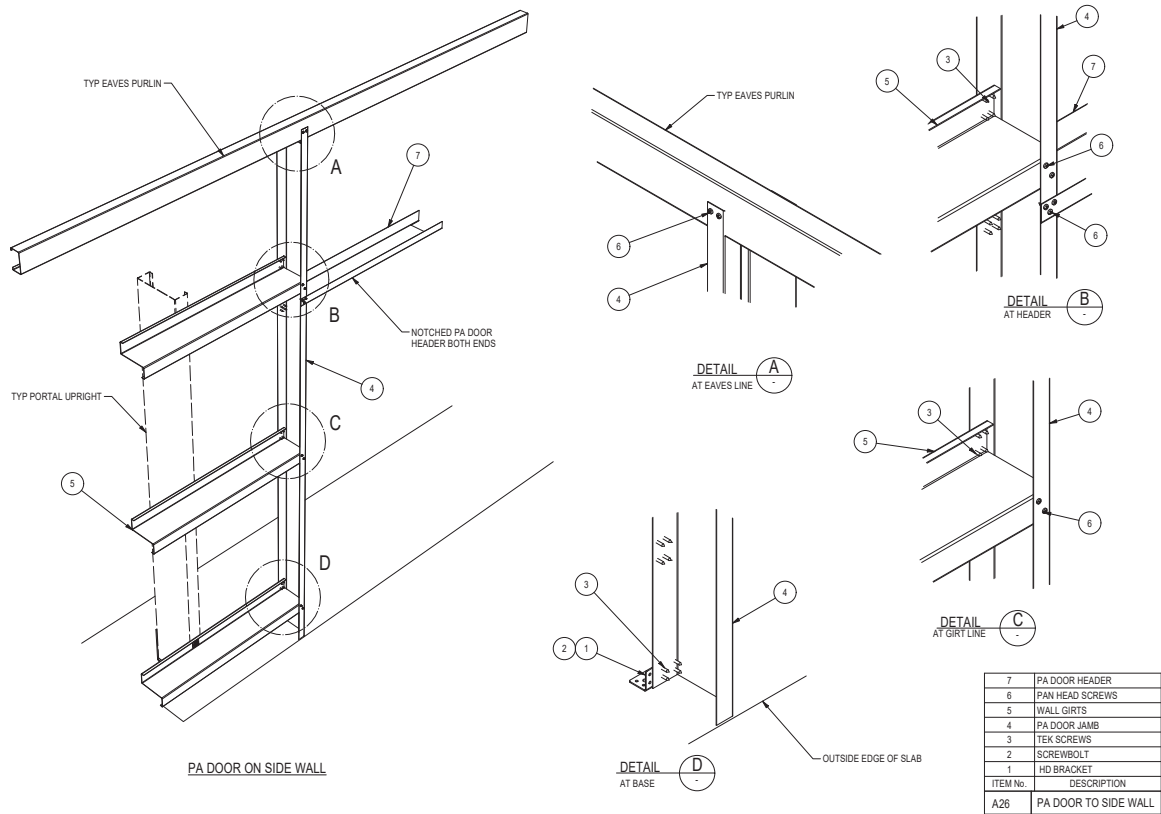
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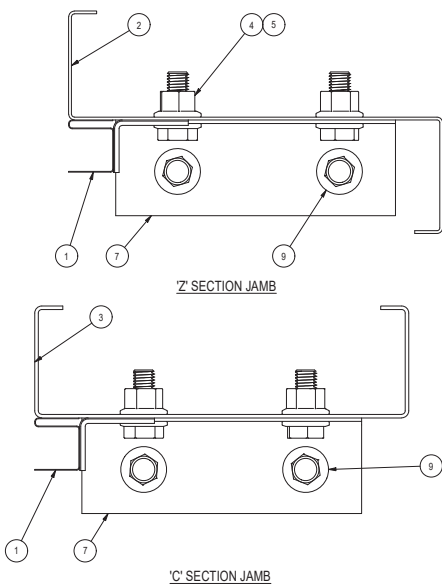
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Framing plans

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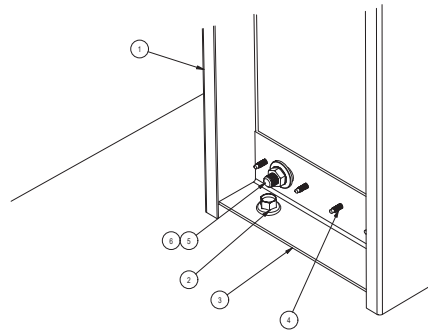
19 of 32

REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS



NOTE- TYPICAL SECTION TAKEN AT BASE OF JAMBS

9	SCREWBOLTS
8	TYPICAL AC BRACKET TO SUIT SECTION
5	FLANGED NUT
4	FLANGED BOLT
3	'C' SECTION JAMB
2	'Z' SECTION JAMB
1	ROLLER DOOR GUIDE
ITEM No.	DESCRIPTION
A43	C SECTION JAMB



8	FLANGED NUT
5	FLANGED BOLT
4	TEX SCREW
3	BASE CLEAT - TO SUIT UPRIGHT SECTION
2	SCREWBOLT
1	PORTAL UPRIGHT
ITEM No.	DESCRIPTION
A17	LEG or UPRIGHT TO SLAB

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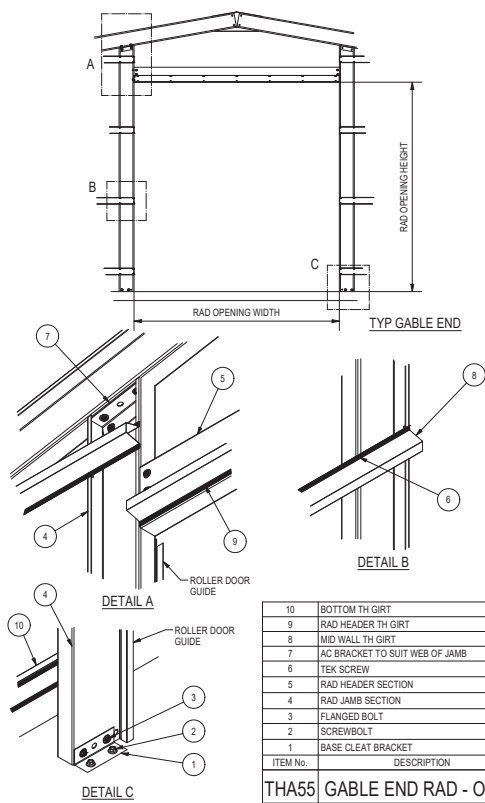
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Framing plans

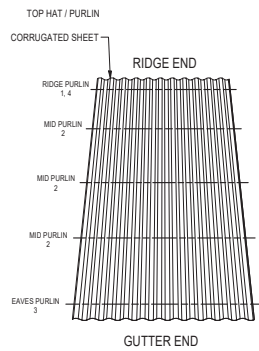
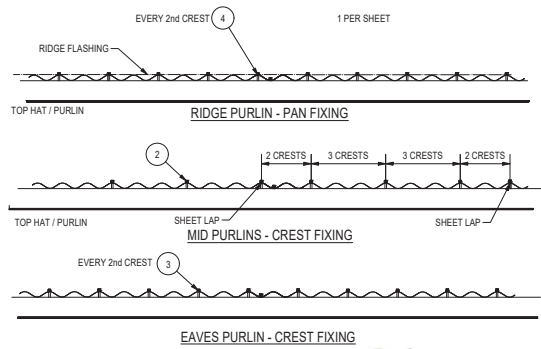
Connection Details

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REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS



10	BOTTOM TH GIRT
9	RAD HEADER TH GIRT
8	MID WALL TH GIRT
7	AC BRACKET TO SUIT WEB OF JAMB
6	TEK SCREW
5	RAD HEADER SECTION
4	RAD JAMB SECTION
3	FLANGED BOLT
2	SCREWBOLT
1	BASE CLEAT BRACKET
ITEM No.	DESCRIPTION
THA55	GABLE END RAD - OTT



1. SCREW PROFILE with NEOPRENE WASHER
2. SCREW PROFILE with NEOPRENE WASHER
3. SCREW PROFILE with NEOPRENE WASHER
4. SCREW PROFILE with NEOPRENE WASHER

4	12-14x48 TEK MULTISEAL WASHER	5 / RIDGE PURLIN
3	12-14x48 TEK NEOPRENE WASHER	5 / EAVES PURLIN
2	12-14x48 TEK NEOPRENE WASHER	4 / MID PURLIN
1	10-16x25 TEK NEOPRENE WASHER	1 / RIDGE PURLIN
ITEM No.	DESCRIPTION	QTY
B3	CORRUGATED SHEET - ROOF REGION A & B	

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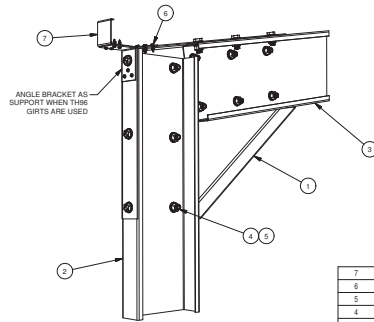
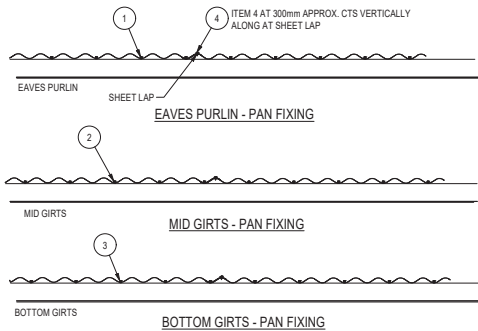
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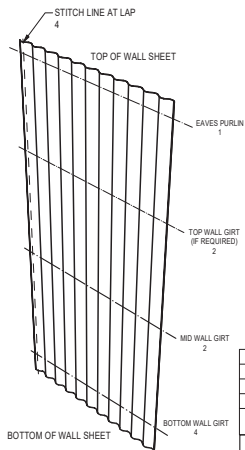
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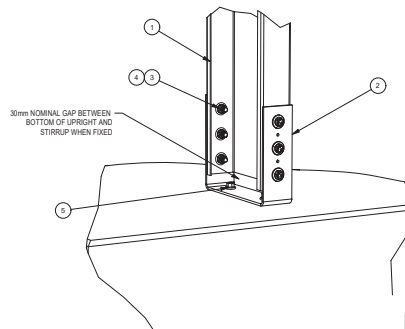


7	EAVES PURLIN BRACKET - TO SUIT TOP HAT GIRTS
6	TEK SCREW
5	FLANGED NUT
4	FLANGED BOLT
3	PORTAL RAFTER
2	PORTAL COLUMN
1	KNEE PLATE - MID
ITEM No. DESCRIPTION	
THA8	KNEE MID PLATE ASSEMBLY



- 1. SCREW PROFILE with NEOPRENE WASHER
- 2. SCREW PROFILE with NEOPRENE WASHER
- 3. SCREW PROFILE with NEOPRENE WASHER
- 4. PAN HEAD SCREW PROFILE

4	PHILLIPS HEAD TEK SCREW	300 CTS AT LAP
3	10-16 x 16 TEK SCREWS	5 / BOTTOM GIRTS
2	10-16 x 16 TEK SCREWS	5 / MID GIRTS
1	10-16 x 16 TEK SCREWS	5 / TOP GIRTS
ITEM No. DESCRIPTION QTY		
B6	CORRUGATED SHEET WALL FIXING REGION A & B	



5	SCREWBOLT
4	FLANGED NUT
3	FLANGED BOLT
2	STIRRUP TO SUIT UPRIGHT SECTION
1	TYPICAL UPRIGHT
ITEM No. DESCRIPTION	
A32	LEG TO SLAB STIRRUPS SINGLE

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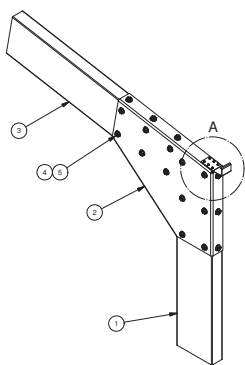
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Framing plans

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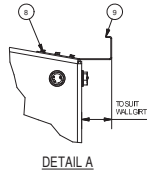
22 of 32

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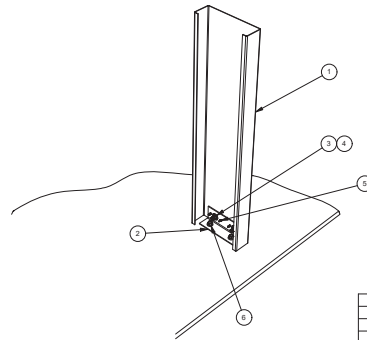


MID PORTAL KNEE SHOWN
END PORTAL ASSY SIMILAR

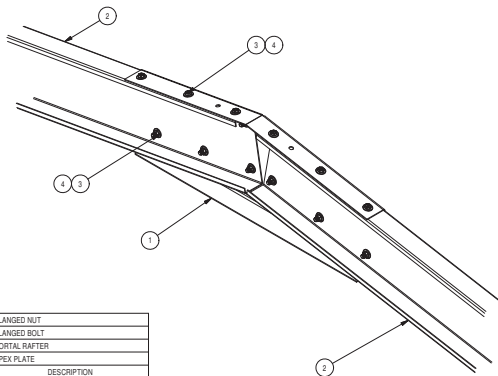
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8	TEK SCREW
5	FLANGED NUT
4	FLANGED BOLT
3	PORTAL RAFTER
2	KNEE BRACE
1	PORTAL COLUMN
ITEM No. DESCRIPTION	
THA5	TOP HAT KNEE PLATE ASSY



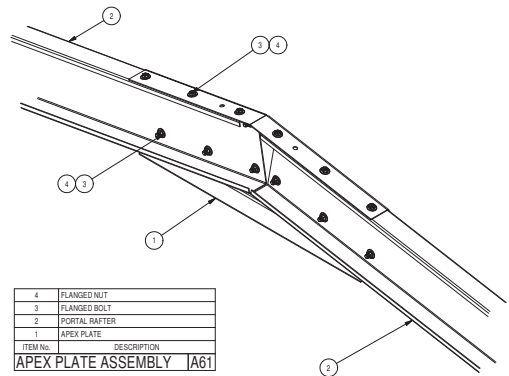
DETAIL A



6	SCREWBOLT
5	TEK SCREW
4	FLANGED NUT
3	FLANGED BOLT
2	CLEAT TO SUIT UPRIGHT SECTION
1	TYPICAL UPRIGHT
ITEM No. DESCRIPTION	
A33	LEG TO SLAB BASE CLEAT SINGLE



4	FLANGED NUT
3	FLANGED BOLT
2	PORTAL RAFTER
1	APEX PLATE
ITEM No. DESCRIPTION	
A1	APEX PLATE ASSEMBLY



4	FLANGED NUT
3	FLANGED BOLT
2	PORTAL RAFTER
1	APEX PLATE
ITEM No. DESCRIPTION	
A61	APEX PLATE ASSEMBLY

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For: MorCo Equipment Pty Ltd Tony Morcom

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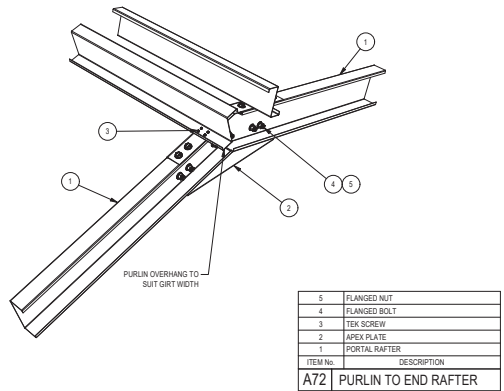
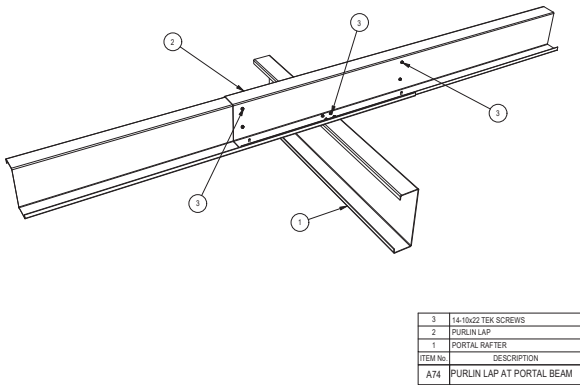
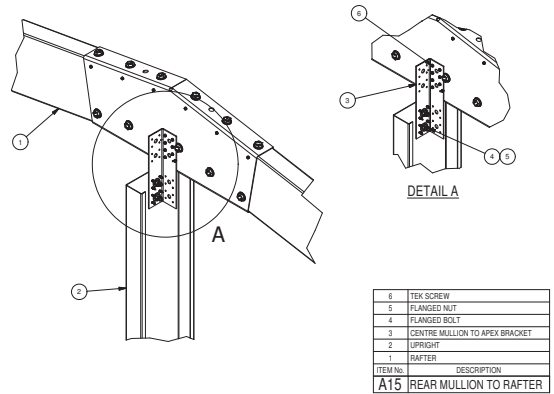
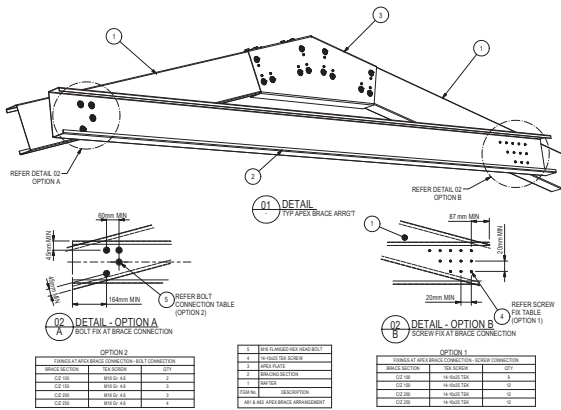
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Framing plans

Connection Details

23 of 32

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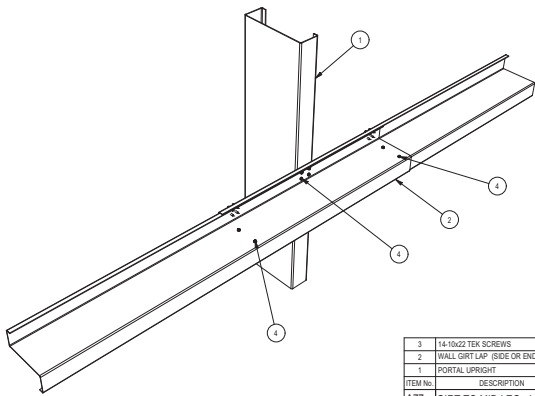
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Framing plans

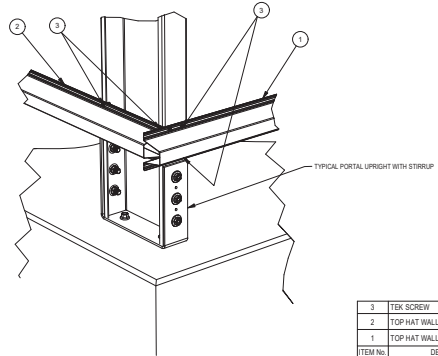
Connection Details

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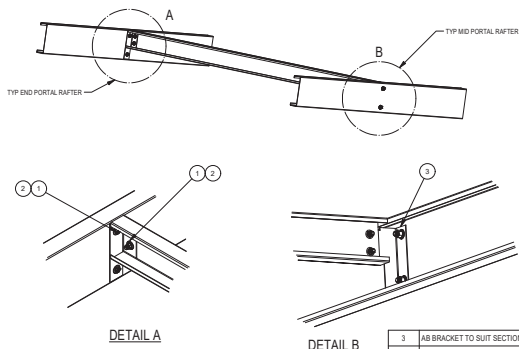
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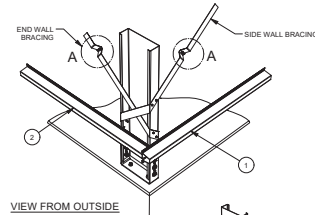
3	14-10x22 TEK SCREWS
2	WALL GIRTS LAP (SIDE OR END)
1	PORTAL UPRIGHT
ITEM No.	DESCRIPTION
A77	GIRT TO MID LEG - LAP



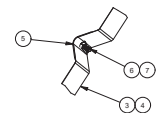
3	TEK SCREW
2	TOP HAT WALL GIRTS - END WALL
1	TOP HAT WALL GIRTS - SIDE WALL
ITEM No.	DESCRIPTION
THA18	GIRT TO END PORTAL



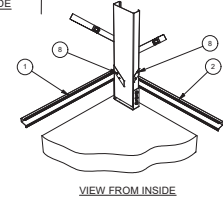
3	AS BRACKET TO SUIT SECTION
2	FLANGED NUT
1	FLANGED BOLT
ITEM No.	DESCRIPTION
A30	ROOF COMPRESSION BRACING



VIEW FROM OUTSIDE



DETAIL A



VIEW FROM INSIDE

8	TEK SCREW
7	TENSIONER NUT
6	TENSIONER BOLT
5	TENSIONER BRACKET
4	BRACE STRAPPING 30x45
3	BRACE STRAPPING 30x45
2	TOP HAT WALL GIRTS - END WALL
1	TOP HAT WALL GIRTS - SIDE WALL
ITEM No.	DESCRIPTION
TH22	WALL BRACING W/ TENSIONER

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AC (NSW) (8022146), CSP (NSW) (10201566)

Signed: _____

Date: _____

STEEL SHEDS AUSTRALIA

For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

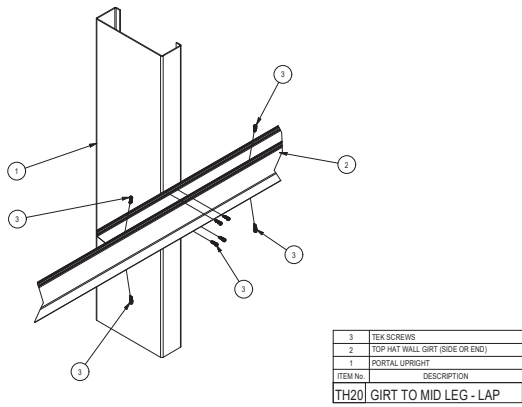
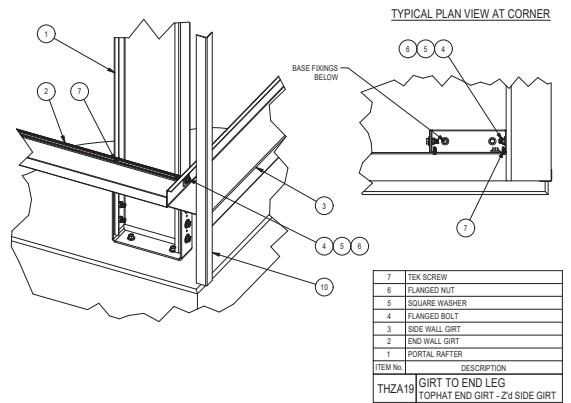
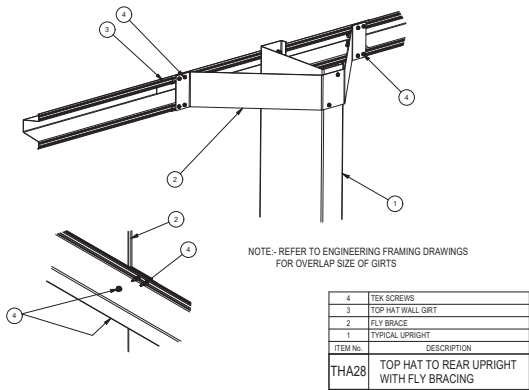
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For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

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MID KNEE PLATE - C250 SECTIONS

VARIABLES IN PITCHES: 5°, 7.5°, 10°, 15°, 25° LH, RH - 10° SHOWN

FIXING	DESCRIPTION	GRADE	QTY	QTY PER PORTAL
F2(BB)	M16x40 FLANGED BOLT & NUT	Gr 4.6	12	24
F2	M16x20 FLANGED BOLT & NUT	Gr 4.6	12	24
F1(BB)	M16x30 FLANGED BOLT & NUT	Gr 4.6	12	24
F1	M16xN FLANGED BOLT & NUT	Gr 4.6	6	12

THAS-250

HOLD DOWN BRACKET - SINGLE COLUMN C250 SECTION

PORTAL FIXING SHOWN - UPRIGHT FIXING SIMILAR

FIXING	DESCRIPTION	GRADE	QTY	QTY PER PORTAL
F3	M16x75 SCREWBOLT		2	4
F2	120x32mm SERIES 500 HEX		4	8
F1	M16x30 FLANGED BOLT & NUT	Gr 4.6	6	12

A33-250

END KNEE PLATE - C200 SECTIONS

VARIABLES IN PITCHES: 5°, 7.5°, 10°, 15°, 25° LH, RH - 10° SHOWN

FIXING	DESCRIPTION	GRADE	QTY	QTY PER PORTAL
F3(BB)	120x32mm SERIES 500 HEX		4	8
F3	14G, 20x22mm TEK SCREW	Class 2	4	8
F2(BB)	M16x40 FLANGED BOLT & NUT	Gr 4.6	6	12
F2	M16x30 FLANGED BOLT & NUT	Gr 4.6	6	12
F1(BB)	M16x30 FLANGED BOLT & NUT	Gr 4.6	12	24
F1	M16xN FLANGED BOLT & NUT	Gr 4.6	6	12

THAS-200

UPRIGHT / COLUMN HOLD DOWN BRACKET - C200

FIXING	DESCRIPTION	GRADE	QTY
F3	14G, 20x22mm TEK SCREW	Class 2	4
F2	M16x100 SCREWBOLT - BLUE TIP	Class 2	2
F1(BB)	M16x40 FLANGED BOLTS & NUTS	Gr 4.6	2
F1(S)	M16x30 FLANGED BOLTS & NUTS	Gr 4.6	2

A33-200

UPRIGHT / COLUMN HOLD DOWN BRACKET - C150

FIXING	DESCRIPTION	GRADE	QTY
F3	14G, 20x22mm TEK SCREW	Class 2	3
F2	M16x100 SCREWBOLT - BLUE TIP	Class 2	2
F1(BB)	M16x40 FLANGED BOLTS & NUTS	Gr 4.6	2
F1(S)	M16x30 FLANGED BOLTS & NUTS	Gr 4.6	2

A33-150

END KNEE PLATE - C150 SECTIONS

VARIABLES IN PITCHES: 5°, 7.5°, 10°, 15°, 25° LH, RH - 10° SHOWN

FIXING	DESCRIPTION	GRADE	QTY	QTY PER PORTAL
F3(BB)	120x32mm SERIES 500 HEX		8	16
F3	14G, 20x22mm TEK SCREW	Class 2	8	12
F2(BB)	M16x40 FLANGED BOLT & NUT	Gr 4.6	4	8
F2	M16x30 FLANGED BOLT & NUT	Gr 4.6	4	8
F1(BB)	M16x30 FLANGED BOLT & NUT	Gr 4.6	8	16
F1	M16xN FLANGED BOLT & NUT	Gr 4.6	4	8

THAS-150

APEX MID PLATE - C250 SECTIONS

VARIABLES IN PITCHES: 10°, 15°, 25° LH, RH - 15° SHOWN

FIXING	DESCRIPTION	GRADE	QTY
F2(BB)	M16x40 FLANGED BOLT & NUT	Gr 4.6	12
F2	M16x30 FLANGED BOLT & NUT	Gr 4.6	12
F1(BB)	M16x30 FLANGED BOLT & NUT	Gr 4.6	12
F1	M16x30 FLANGED BOLT & NUT	Gr 4.6	6

A1-250

APEX END PLATE - C150 SECTIONS

VARIABLES IN PITCHES: 10°, 15°, 25° - 15° SHOWN

FIXING	DESCRIPTION	GRADE	QTY
F3(BB)	120x32mm SERIES 500 HEX		4
F3	14G, 20x22mm TEK SCREW	Class 2	4
F2(BB)	M16x40 FLANGED BOLT & NUT	Gr 4.6	4
F2	M16x30 FLANGED BOLT & NUT	Gr 4.6	4
F1(BB)	M16x30 FLANGED BOLT & NUT	Gr 4.6	8
F1	M16x30 FLANGED BOLT & NUT	Gr 4.6	4

A61-150

APEX END PLATE - C200 SECTIONS

VARIABLES IN PITCHES: 10°, 15°, 25° LH, RH - 15° SHOWN

FIXING	DESCRIPTION	GRADE	QTY
F3(BB)	120x32mm SERIES 500 HEX		4
F3	14G, 20x22mm TEK SCREW	Class 2	4
F2(BB)	M16x40 FLANGED BOLT & NUT	Gr 4.6	6
F2	M16x30 FLANGED BOLT & NUT	Gr 4.6	6
F1(BB)	M16x30 FLANGED BOLT & NUT	Gr 4.6	12
F1	M16x30 FLANGED BOLT & NUT	Gr 4.6	6

A61-200

EAVES PURLIN BRACKET - TH96/Z/G100

FIXING	DESCRIPTION	GRADE	QTY
F1	14G, 20x22mm TEK SCREW	Class 2	16

TH961-96

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Wirtu L. Bayissa

Signed: _____
Date: _____

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AC (NSW) (8021146), GSP (Tas) (P0201566)



For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

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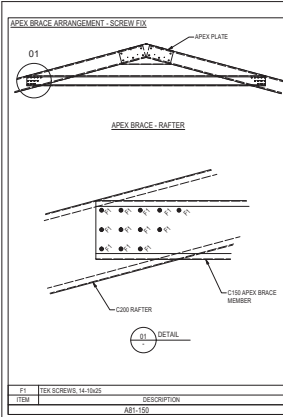
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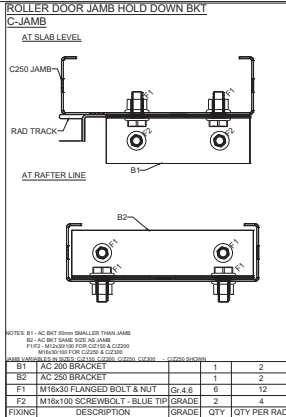
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F1	TEX SCREWS, 14-19x25	DESCRIPTION		
ITEM				
A30-150				

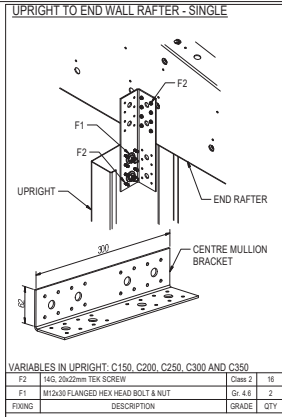


NOTES: B1 - AC BKT SAME DIMENSIONS THAN JAMB
B2 - AC BKT SAME SIZE AS JAMB
F1 - M16x30 FLANGED BOLT - BLUE TIP
F2 - M16x100 SCREW - BLUE TIP

B1	AC 300 BRACKET		1	2
B2	AC 350 BRACKET		1	2
F1	M16x30 FLANGED BOLT & NUT	Gr 4.6	8	12
F2	M16x100 SCREW-BOLT - BLUE TIP	GRADE	2	4

FIXING DESCRIPTION GRADE QTY QTY PER RAD

A43

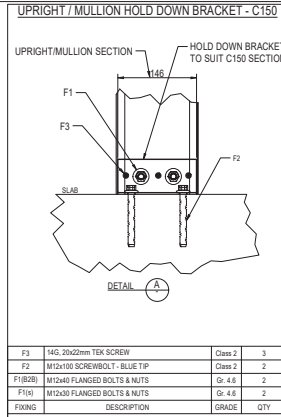


VARIABLES IN UPRIGHT: C150, C200, C250, C300 AND C350

F2	14G, 20x22mm TEX SCREW	Class 2	18
F1	M12x30 FLANGED HEX HEAD BOLT & NUT	Gr 4.6	2

FIXING DESCRIPTION GRADE QTY

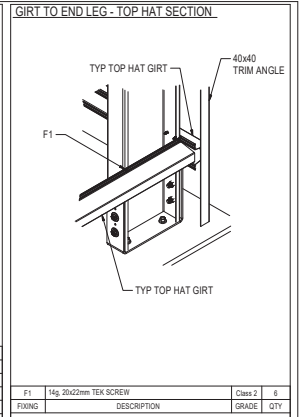
A15



F3	14G, 20x22mm TEX SCREW	Class 2	3
F2	M12x150 SCREW-BOLT - BLUE TIP	Class 2	2
F1(B)	M12x30 FLANGED BOLTS & NUTS	Gr 4.6	2
F1(A)	M12x30 FLANGED BOLTS & NUTS	Gr 4.6	2

FIXING DESCRIPTION GRADE QTY

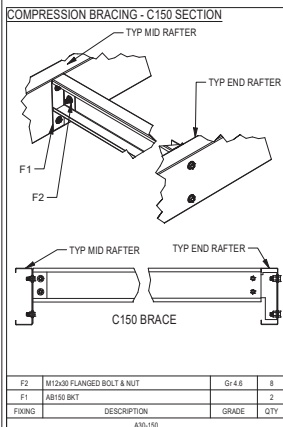
A11-150



F1	14g, 20x22mm TEX SCREW	Class 2	8
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FIXING DESCRIPTION GRADE QTY

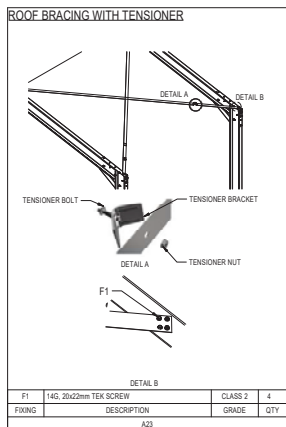
THA19



F2	M12x30 FLANGED BOLT & NUT	Gr 4.6	8
F1	AB150 BKT		2

FIXING DESCRIPTION GRADE QTY

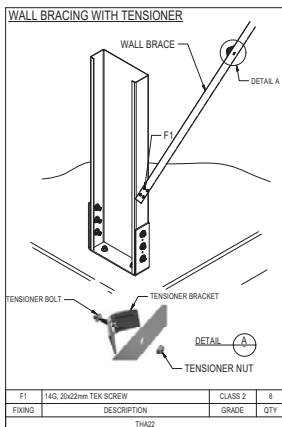
A30-150



F1	14G, 20x22mm TEX SCREW	CLASS 2	4
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FIXING DESCRIPTION GRADE QTY

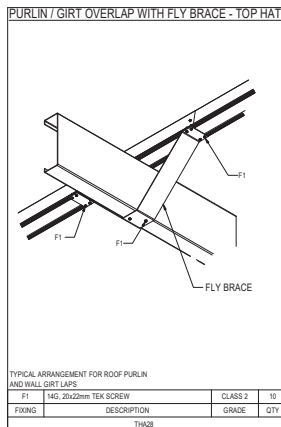
A23



F1	14G, 20x22mm TEX SCREW	CLASS 2	8
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FIXING DESCRIPTION GRADE QTY

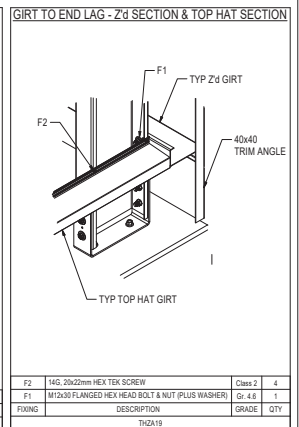
THA22



F1	14G, 20x22mm TEX SCREW	CLASS 2	18
----	------------------------	---------	----

FIXING DESCRIPTION GRADE QTY

THA28



F2	14G, 20x22mm HEX TEX SCREW	Class 2	4
F1	M12x30 FLANGED HEX HEAD BOLT & NUT (PLUS WASHER)	Gr 4.6	1

FIXING DESCRIPTION GRADE QTY

THA19

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AC (NSW) (SDC2146), GSP (NSW) (P2021566)

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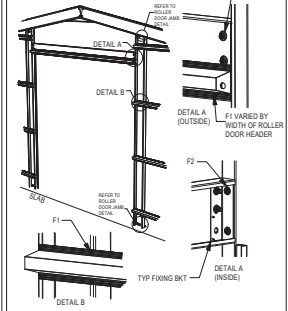
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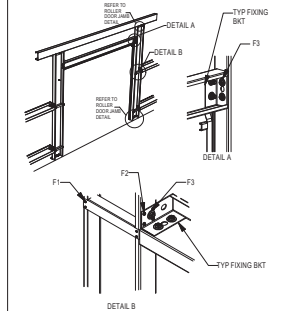
ROLLER DOOR GABLE END - TOP HAT



FIXING	DESCRIPTION	GRADE	QTY PER CONNECTION
F1	10p 16x16mm PAN TEK SCREW	CLASS 2	2
F2	M1216x30 FLANGED BOLT & NUT	G4.6	4

TH455

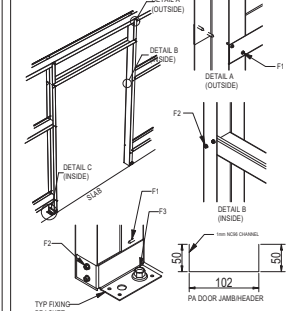
ROLLER DOOR GABLE END - Z'd GIRT



FIXING	DESCRIPTION	GRADE	QTY PER CONNECTION
F1	14g 20x22mm PAN TEK SCREW	CLASS 2	8
F2	14g 20x22mm HEX TEK SCREW	CLASS 2	4
F3	M1216x30 FLANGED BOLT & NUT	G4.6	4

A29

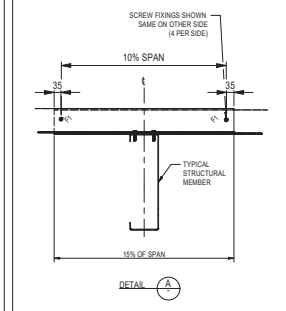
PA DOOR ASSEMBLY - Z100



FIXING	DESCRIPTION	GRADE	QTY PER CONNECTION
F1	10p 16x16mm PAN TEK SCREW	CLASS 2	2
F2	14g 20x22mm HEX TEK SCREW	CLASS 2	2
F3	M1216x100 SCREWBOLT		1

A25-100

PURLIN / GIRT OVERLAP - TH64



FIXING	DESCRIPTION	GRADE	QTY
F1	14G 20x22mm TEK SCREW	Class 2	8

TH425-64

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Project No: SSA4946

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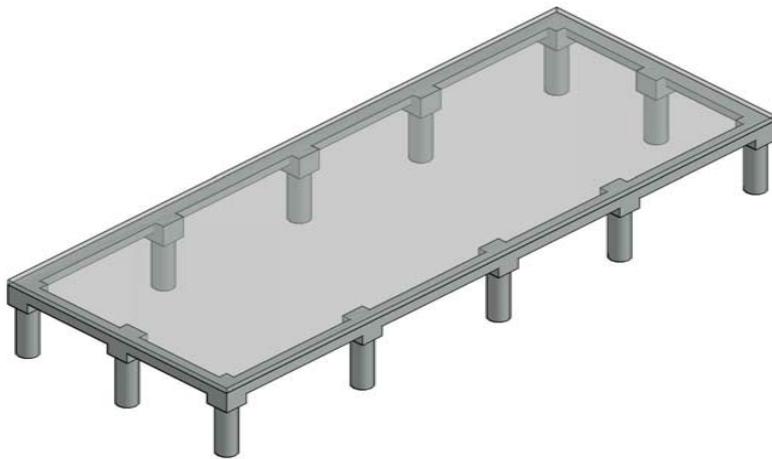
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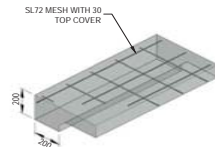
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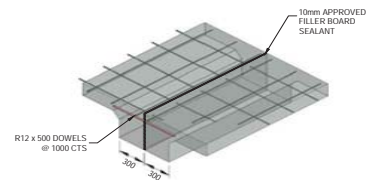
1. THIS SLAB & FOUNDATION PLAN ASSUMES A MINIMUM SITE CLASSIFICATION OF 1F.
2. ALL TOP SOIL SHALL BE STRIPPED FROM THE SURFACE TO REMOVE GRASS ROOTS OR OTHER ORGANIC MATERIAL.
3. SLAB & INTERNAL BEAMS SHALL BE FOUNDED ON NATURAL SOIL WITH A MINIMUM BEARING CAPACITY OF 100kPa.
4. EDGE BEAMS SHALL BE FOUNDED ON NATURAL SOIL OR CONTROLLED FILL IN ACCORDANCE WITH AS2870. ROLLED FILL IS NOT PERMITTED.
5. CONCRETE SHALL BE A MINIMUM OF 125 WITH A DESIGN SLUMP OF 80+ - 10mm.
6. CONCRETE SHALL BE MECHANICALLY COMPACTED.
7. SLAB & FOOTINGS SHALL HAVE A 0.2mm PVC MEMBRANE PLACED UNDER.
8. GROUNDWORKS AROUND THE SLAB SHALL BE SLOPED AWAY FROM THE BUILDING AT A MINIMUM FALL OF 1 IN 20 FOR A DISTANCE OF AT LEAST 10m.
9. THIS SLAB DETAIL IS SUITABLE FOR CLASS 10a SHEDS.
10. STANDARD RULES FOR A CLASS H SITE ACCORDING TO AS2870 REGARDING SURROUNDING FLORA PLACEMENT SHALL APPLY.



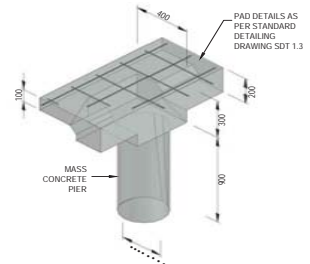
SLAB LAYOUT PLAN - STANDARD CLASS 'H' SOILS



TYPICAL EDGE THICKENING DETAIL



TYPICAL CONSTRUCTION JOINT



TYPICAL PIER DETAIL

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 AC (NSW) (8022146), CSP (NSW) (120201566)

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Date: _____



For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

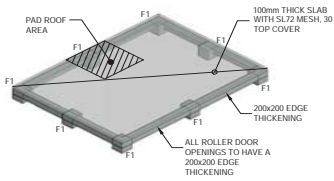
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Slab and Pier Details

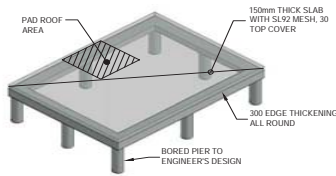
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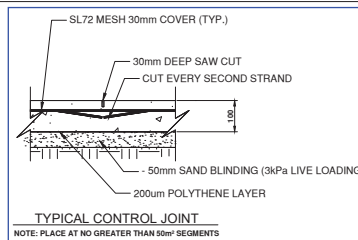
DOMESTIC SLAB

SUITABLE FOR CLASS 10a SHEDS IN FIRM STABLE GROUND
MAX SHRINKAGE - CLASS M & M-D. FOR SOIL CLASS H & H-D
CONCRETE PIERS UNDER EACH PAD FOOTING TO 1500mm BELOW SURFACE.



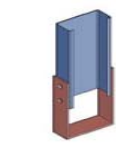
REINFORCED INDUSTRIAL SLAB

SUITABLE FOR CLASS INDUSTRIAL SHED IN FIRM STABLE GROUND, MAX SHRINKAGE - CLASS M & M-D. ENSURE PROPER GROUND PREPARATION UNDER SLAB.



TYPICAL CONTROL JOINT

NOTE: PLACE AT NO GREATER THAN 50m SEGMENTS



STIRRUP TO CAST IN SLAB

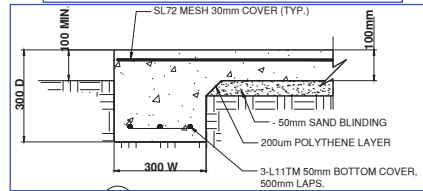
CAST IN STIRRUP - ALL C61	
SECTION	PLATE SIZE
C100	50mm
C150	50mm
C200	50mm
C250	50mm
C300	80mm
C350	80mm

PAD SIZES FOR COLUMNS			
PAD ROOF AREA	DOMESTIC 100mm SLABS	INDUSTRIAL 125mm SLABS	INDUSTRIAL 150mm SLABS
<10m ²	300x300	400x400	400x400
10-20m ²	300x300	400x400	400x400
20-40m ²	300x300	400x400	400x400
40-60m ²	300x300	400x400	500x500
60-80m ²	300x300	500x500	500x500
80-100m ²	400x400	500x500	600x600
>100m ²	400x400	500x500	600x600

NOTE:
1. PAD ROOF AREA IS THE ROOFED AREA THAT THE PAD IS HOLDING FOR TIE DOWN.
2. PAD ROOF AREA - 1/2 SPAN & BAY WIDTH. MAX LENGTH BETWEEN CONSTRUCTION JOINTS IS 24m.

EDGE BEAM AND SLAB SCHEDULE					
SITE CLASS	ST	SLAB MESH	TRENCH MESH	MAX INTERNAL BEAM SPACING	PIERS
A	300	SL72	3.8 TM	-	-
S	300	SL72	3.8 TM	-	-
M	300	SL72	3.11 TM	-	-
M-D	300	SL72	3.11 TM	8.0m	-
H	400	SL72	3.11 TM	7.0m	2.5m CTRS
H-D	400	SL82	3.11 TM	6.0m	2.5m CTRS
E	500	SL82	3xN12TM	5.0m	2.5m CTRS
P	500	SL82	3xN12TM	5.0m	2.5m CTRS

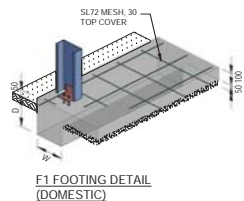
NOTE:
1. REFER TO ENGINEER FOR CLASS E & P SITES



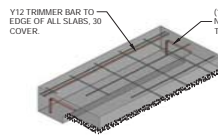
BORED PIERS UNDER EDGE BEAM:

MID LEGS: 450mm DIA x 400mm DEEP
END LEGS: 300mm DIA x 300mm DEEP

VARIES - REFER TO TABLES. OPTIONS - 100mm, 110mm, 125mm & 150mm

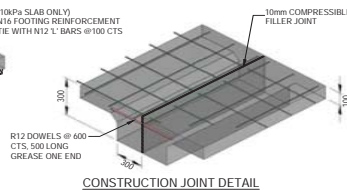


F1 FOOTING DETAIL (DOMESTIC)

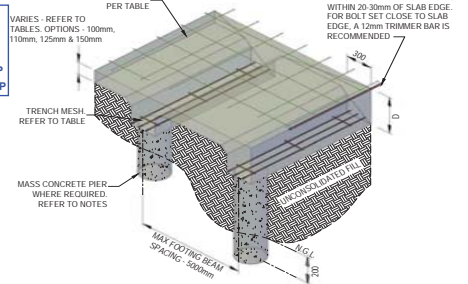


REINFORCED EDGE INDUSTRIAL SLAB ONLY

9kPa LIVE LOAD - 125mm SLAB SL82 MESH
10kPa LIVE LOAD - 150mm SLAB SL92 MESH



CONSTRUCTION JOINT DETAIL



REINFORCED EDGE BEAM SLAB - CUT/FILL SITE

SUITABLE FOR ALL SHED IN FIRM STABLE GROUND & CUT TO FILL SITES. FOR INDUSTRIAL SLABS INCREASE SLAB DEPTH TO 150mm AND MESH SIZE TO F82. THIS DESIGN ALSO MAY BE SUITABLE FOR CLASS P. REFER TO ENGINEER.

I certify that buildings erected in accordance with these drawings will comply with the Building Code of Australia.

Wirtu L. Bayissa

B.Sc (Civ), M.Tech (Building Services), PID (Structures),
MIE Aust (2853082), RPEng (891707), RPEQ (16592), RPE Vic (PE000208),
AC (NSW) (8022146), CSP (NSW) (02021566)

Signed: _____
Date: _____



For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

Date: 16/12/2022 7:22:23 AM

Framing plans

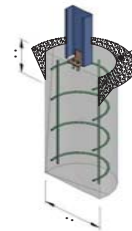
Slab and Pier Details

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REFER TO THIS DOCUMENTS COVER PAGE FOR CONSTRUCTION NOTES, DIMENSION NOTES AND KEYS

PIER DETAILS FOR PORTAL FRAMES SHEDS

LOAD CASE	4m SPAN		6m SPAN		9m SPAN		12m SPAN		15m SPAN		18m SPAN		21m SPAN		24m SPAN		
	DEPTH	PIER DIA	DEPTH	PIER DIA	DEPTH	PIER DIA	DEPTH	PIER DIA	DEPTH	PIER DIA	DEPTH	PIER DIA	DEPTH	PIER DIA	DEPTH	PIER DIA	
3m BAYS	33N	300	700	300	700	300	900	450	900	450	1000	450	1000	450	1000	450	1000
	41N	300	700	300	700	300	900	450	900	450	1200	450	1200	450	1200	450	1200
	45N	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N50/C50	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N61/C61	300	900	300	900	300	1200	450	1200	450	1800	450	1800	450	1800	450	1800
	33N	300	700	300	700	300	900	450	900	450	1000	450	1000	450	1000	450	1000
3.5m BAYS	41N	300	700	300	700	300	900	450	900	450	1200	450	1200	450	1200	450	1200
	45N	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N50/C50	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N61/C61	300	900	300	900	300	1200	450	1200	450	1800	450	1800	450	1800	450	1800
	33N	300	700	300	700	300	900	450	900	450	1000	450	1000	450	1000	450	1000
	41N	300	700	300	700	300	900	450	900	450	1200	450	1200	450	1200	450	1200
4m BAYS	45N	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N50/C50	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N61/C61	300	900	300	900	300	1200	450	1200	450	1800	450	1800	450	1800	450	1800
	33N	300	700	300	700	300	900	450	900	450	1000	450	1000	450	1000	450	1000
	41N	300	700	300	700	300	900	450	900	450	1200	450	1200	450	1200	450	1200
	45N	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
4.5m BAYS	N50/C50	300	900	300	900	450	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N61/C61	300	900	300	900	450	1000	450	1000	450	1800	450	1800	450	1800	450	1800
	33N	300	700	300	700	300	900	450	900	450	1000	450	1000	450	1000	450	1000
	41N	300	700	300	700	300	900	450	900	450	1200	450	1200	450	1200	450	1200
	45N	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N50/C50	300	900	300	900	450	1000	450	1000	450	1500	450	1500	450	1500	450	1500
5m BAYS	N61/C61	300	900	300	900	450	1000	450	1000	450	1800	450	1800	450	1800	450	1800
	33N	300	700	300	700	300	900	450	900	450	1000	450	1000	450	1000	450	1000
	41N	300	700	300	700	300	900	450	900	450	1200	450	1200	450	1200	450	1200
	45N	300	800	300	800	300	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N50/C50	300	900	300	900	450	1000	450	1000	450	1500	450	1500	450	1500	450	1500
	N61/C61	300	1000	450	1000	450	1500	450	1500	450	2000	450	2000	450	2000	450	2000



DESIGN ALLOWANCES FOR SKIN FRICTION

CALCULATION OF PIER SKIN RESISTANCE ALLOWS FOR IGNORING THE TOP SECTION. THIS ALLOWS FOR SEASONAL CHANGE OF THE SOIL AND IS DEPENDANT ON THE SOILS SHRINKAGE CAPABILITY. CLASS M SOILS - 1xPIER DIA SHOULD BE IGNORED CLASS H AND E SOILS - IGNORE 1.5x PIER DIA.

THESE TABLED PIERS WILL NOT BE SUITABLE FOR NON-COHESIVE OR LOOSE FILL SITES. REFER DESIGN TO ENGINEER.

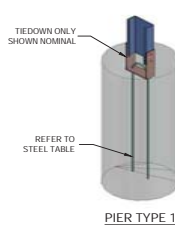
CONSTRUCTION OF A CONCRETE PATHWAY AROUND THE SHED PIERS AND/OR PIERS AS PART OF THE SLAB WILL INCREASE THE NET STRENGTH OF A PIER IN GROUND.

PIER REINFORCEMENT

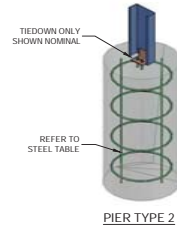
MAX DEPTH	LIGS	STEEL
300	900	1xY12
300	1200	2xY12
450	1200	2xY16
450	900	6mm @ 450 CTS
450	1200	6mm @ 300 CTS
450	2000	6mm @ 250 CTS
600	1200	6mm @ 250 CTS
600	1800	10mm @ 300 CTS
600	2600	10mm @ 250 CTS

NOTES:

- THESE PIER DETAILS ASSUME A MINIMUM SITE CLASSIFICATION OF 'M'.
- FOR CLASS H AND D SITES, INCREASE DEPTH OF PIER BY ONE PIER DIAMETER. CLASS H PIERS SHALL BE MINIMUM DEPTH OF 1500mm.
- MINIMUM BEARING CAPACITY OF PIER BASE SHALL BE 400kPa.
- FOUNDING PIERS IN FILL IS NOT PERMITTED.
- CONCRETE TO BE A MINIMUM OF 10 AND A DESIGN SLUMP OF 80mm +/- 20mm.
- CONCRETE TO BE MECHANICALLY COMPACTED OR BY HAND RODDING.
- PIERS TO BE LEFT PROUD OF THE GROUND SURFACE 30-150mm PERMITTED. TOP SHALL BE SLOPPED TO ALLOW WATER TO DRAIN AWAY.
- STANDARD RULES FOR A CLASS 'F' SITE ACCORDING TO AS2870 REGARDING SURROUNDING FLORA PLACEMENT SHALL APPLY.
- NON COHESIVE SOILS SUCH AS SANDS AND LOOSE SILTS SHALL BE TREATED AS 'PROBLEM SITES' AND SHALL NOT BE COVERED BY THESE DRAWINGS.
- CLASS 'E' AND 'F' SITES SHALL ALSO BE ALLOWED USING THESE TABLES WITH THE FOLLOWING PROVISIONS:
 - PIER DEPTH SHALL BE MINIMUM OF 1800mm
 - TYPE 1 PIERS SHALL NOT BE PERMITTED.
- THE PORTAL SHED DESIGNS FOR THESE PIERS ASSUME THE FOLLOWING INTERNAL PRESSURE COEFFICIENTS:
 - NON-CYCLONIC - 0.2
 - CYCLONIC - 0.7
- MACHINERY SHEDS AND OTHER OPEN SIDED TYPE SHEDS SHALL USE THE PIER DETAILS FOR CYCLONIC CONDITIONS.
- ROOF ONLY BUILDINGS IN C1 CATEGORY SHALL USE NO CASE FOR PIER SELECTION. IN C2 WIND CATEGORY, 'N' CASE SHALL BE USED.
- AWNINGS AND END WALL COLUMNS SHALL USE THE FOOTINGS OF PORTALS CARRYING SIMILAR ROOF AREAS.
- THESE PIER DESIGNS ARE BASED ON A MINIMUM ALLOWABLE SOIL SHEAR STRESS OF 50kPa.



PIER TYPE 1



PIER TYPE 2

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B.Sc (Civil), M.Tech (Building Services), PID (Structures),
 NRE Aust (2853262), RPEng (891707), RPEQ (16592), RPE Vic (PE0002088),
 AC (NSW) (802146), CSP (NSW) (02001566)

Signed: _____

Date: _____



For: MorCo Equipment Pty Ltd Tony Morcom

Project No: SSA4946

Date: 16/12/2022 7:22:23 AM

Framing plans

Slab and Pier Details

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