ENGINEERING SCHEDULE



Best Sheds

151 Smeaton Grange Road, Smeaton Grange, NSW, 2567

Ph: (02) 4648 7777 Fax: (02) 4648 7700

CERTIFIED STEEL PORTAL FRAME SHED DESIGN FOR "REGION A" TERRAIN CATEGORY 2.0, 2.5 & 3.0 – IMPORTANCE LEVEL 2.

Design Snow Load: 0 KPa, Roof Snow Load: 0 KPa, Ground Snow Load: 0 KPa

Customer: SBD Plumbing (Stuart)

Site Address: 2 Spicer Road, Oxford Falls, NSW, 2100

Main Building: Span: 7.5, Length: 12, Height: 3.6, Roof Pitch: 11 degrees

The length being comprised of 3 bays, the largest bay is 4m bays.

Left LeanTo: NA Right LeanTo: NA

INTERNAL PORTALS

Column: C15024

Rafter: C15024

Knee Brace: C10010 Knee Brace Length: 1800

Apex Brace: C10010

Apex Brace Length: 2400

LEFT LEAN TO PORTALS

Internal Column: NA

Internal Rafter: NA

End Column: NA

End Rafter: NA

Knee Brace: NA

Knee Brace Length: NA

END PORTALS

Column: C15024

Rafter: C15024

Knee Brace: NA

Knee Brace Length: NA

Apex Brace: NA Apex Brace Length: NA

End Wall Mullion: C15024

RIGHT LEANTO PORTALS

Internal Column: NA

Internal Rafter: NA

End Column: NA

End Rafter: NA

Knee Brace: NA

Knee Brace Length: NA

NOTE: All unclad intermediate columns are back to back always back to back (refer to drawing: Floor Plan).

PURLINS AND GIRTS										
Eave Purlin:	C10010									
Side Wall Girts:	TH64100	Spacing:	1133		Overlap:	100mm				
Front End Wall Girts:	TH64100	Spacing:	952		Overlap:	100mm				
Back End Wall Girts:	TH64100	Spacing:	952		Overlap:	100mm				
Roof Purlins:	TH64100	Spacing:	922		Overlap:	100mm				

NOTE: Girt spacing will vary to a maximum 1m where window/s are located.

Fasteners

Sleeve Anchor Bolts: M12x80 Sleeve Anchor Yellow Zinc

Frame Bolts: M12x30 Purlin Assembly Zinc (Mild)

Frame Screws: Frame Screw 14x14x22

Cross Bracing Strap: Strap Brace 32mmx1.2mmx30m

Open Bay Header Height:

Mr Camilo Pineda Moreno

Beng MIEAust RPEng

RPEQ 15562 TBP EC41817 (VIC)

... Date 02-07-18

CIVIL & STRUCTURAL ENGINEERS

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DOMESTIC & LIGHT INDUSTRIAL STEEL PORTAL FRAME SHED STRUCTURES

This structure is designed in compliance with AS4600, AS3600 and AS1170 1 to 4 as Importance Level 2 with a Live Load of 0.25kPa as "Air Leaky Structures" providing stability when openings are prevalent.

The structures are clad with corrugated pre-painted finish, 0.42mm walls and 0.42mm roof (compliant with AS1562.1 Metal) over cold formed 450 to 550mPa galvanized steel C sections primary frames.

Primary framing is fastened together with 4.6 Class galvanized bolts adequately tensioned on ground prior to erection.

Secondary framing steel bracing, with purlins and girts lapped, are all tek fastened to primary steel with a minimum of two (2) teks per connection as specified in details.

All rainwater products are compliant with AS2179.1 (Metal).

ENGINEERING

The undersigning engineer has checked that the design of the structure complies with relevant current Australian Standards as stated above and the following i.e AS4671- 2001 Steel Reinforcing materials,

AS3600 - Concrete structures. However, he will not be present during construction, neither will he conduct inspections nor construction supervision.

The class 10a buildings are designed for erection on pad footings or slab based on soil of classification "A"-"P" with minimum bearing capacity 100kPa (i.e. organic soil is to be removed to a suitable material below natural surface).

Where (suitable) fill is required to level the site, it should be placed and compacted in layers of 150mm maximum.

Concrete pad footings and slab supply and placement is to be in compliance with AS2870-2011 Residential Slabs & Footings, AS3600-2009 Concrete Structures for A2 and B2 exposure (i.e. 25mPa strength @ 28 days strength) with recommended slump 75 to 80mm for light pneumatic tyred traffic all trafficable floors.

For sites where these conditions are considered to be inadequate, a customized foundation design for the structure can be supplied to suit a specific purpose.

CONSTRUCTION

Erection of the structure is to be in compliance with local and state ordinances,

Occupational Health and Safety Regulations and with plans provided.

GENERAL

The designs as portrayed on the drawings remain the intellectual property of Best Sheds Pty Ltd and are provided for building approval and construction purposes only and are only valid when blue ink signed and dated by the engineer.

SNOW LOAD

Following conditions only apply to buildings with snow loading:

- No maintenance or roof traffic permitted on the roof while there is snow present.
- No other structure to be erected within 500mm of the gutters of this building.

Mr Camilo Pineda Moreno

Beng MIEAust RPEng

RPEQ 15562 TBP EC41817 (VIC)

Signature......Date 02-07-18

EMERALD

DESIGN & CONSTRUCTION

CIVIL & STRUCTURAL ENGINEERS

COMMERCIAL - INDUSTRIAL - FESDENTIAL - FORENSIC - STEEL DETAILIN

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GENERAL SLAB DESIGN FOR DOMESTIC & LIGHT INDUSTRIAL USES

Thickness: 100mm with minimum 30mm cover. Refer to Slab Foundation table for reinforcing specification.

Strength: 25mPa

Thickened section under columns. Refer to Slab Foundation table for footing / pier specification.

SLAB FOUNDATIONS DOMESTIC / LIGHT INDUSTRIAL

(100mm minimum concrete slab included)

()									
SOIL CLASSIFICATION (COMPACTED)	REINFORCING IN SLAB	EDGE BEAM	PIER	EDGE BEAM (slab thickness not included)					
ey i i	MESH REINFORCING	TRENCH MESH	Ø x DEPTH	DEPTH	WIDTH				
A, S, & M	SL72	-	450 x 400	-	-				
M - D	SL82	L11TM3	-	300	300				
H TO H - D	SL82	L11TM3	-	400	300				
E TO E - D	SL82	L11TM4	-	400	400				
P (DROP EDGE BEAM OR STANDARD EDGE BEAM WITH PIERS UNDER COLUMNS 300 INTO FIRM GROUND)	SL82	L11TM4	450 Ø	400	400				

Mr Camilo Pineda Moreno Beng MIEAust RPEng

RPEQ 15562 TBP EC41817 (VIC)

Signature......Date 02-07-18

EMERALD

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