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.

Customer: Emaad Dawood

Site Address: 136A Mount Vernon Road,, Mount Vernon, NSW, 2178

Main Building: Span: 7.5, Length: 16, Height: 3.6, Roof Pitch: 11 degrees The length being comprised of 4 bays, the largest bay is 4m bays. Left LeanTo: NA Right LeanTo: NA

INTERNAL PORT	LS END PORTALS
Column: C15024	Column: C15024
Rafter: C15024	Rafter: C15024
Knee Brace: C10010	Knee Brace: NA
Knee Brace Length: 1800	Knee Brace Length: NA
Apex Brace: C10010	Apex Brace: NA
Apex Brace Length: 2400	Apex Brace Length: NA
	End Wall Mullion: C15024

LEFT LEAN TO PORTALS	RIGHT LEANTO PORTALS		
Internal Column: NA	Internal Column: NA		
Internal Rafter: NA	Internal Rafter: NA		
End Column: NA	End Column: NA		
End Rafter: NA	End Rafter: 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

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 Roy Header Height	NIA		

Open Bay Header Height: INA

Registered Professional Engineer 349317 Mr John Raymond Hart MIEAust, CPEng-Civil (General)

Signature.

... Date 25/08/16

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ACAME

ABN 28 002 465 072

243 Princess Highway Milton NSW 2538

Consulting Civil, Structural

& Mechanical Engineers

rector: John R Hart Dip Tech (Civil Eng) MIE (Aust) CP Eng (NPER Civil) RPEQ
 Registered Chartered Professional Engineer Registered Cartifying Engineer (Civil) - QLD
 Regn. No. 349317

 Registered Cortifying Engineer (Structural) - N.T. Registered Civil Engineer - VIC
 Regn. No. 13951ES

 Registered Civil & Structural Engineer - TAS
 Regn. No. CC2789F

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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 over cold formed 450 to 550mPa galvanized steel C sections primary frames.

Primary framing is fastened together with 8.8 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.

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.

Registered Professional Engineer 349317 Mr John Raymond Hart MIEAust, CPEng-Civil (General)

Signature. ... Date 25/08/16

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& Mechanical Engineers

Director: John R Hart Dip Tech (Civil Eng) MIE (Aust) CP Eng (NPER Civil) RPEQ Registered Chartered Professional Engineer Registered Professional Engineer (Civil) - QLD Registered Certifying Engineer (Structural) - N.T. Registered Civil Engineer - VIC Registered Civil & Structural Engineer - TAS Regn. No. CC2789F

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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)			
	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		

Registered Professional Engineer 349317 Mr John Raymond Hart MIEAust, CPEng-Civil (General)

Signature. J. Mart Date 25/08/16

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