#### **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: Silvia Horace

Site Address: 2497 The Northern Road, Mulgoa, NSW, 2745

Main Building: Span: 3.6, Length: 7, Height: 2.7, Roof Pitch: 11 degrees The length being comprised of 2 bays, the largest bay is 3.5m bays.

Left LeanTo: NA Right LeanTo: NA

INTERNAL PORTALS

Column: C15012 Rafter: C15012

Knee Brace: NA Knee Brace Length:

Apex Brace: NA

Apex Brace Length: NA **END PORTALS** 

Column: C15012 Rafter: C15012

Knee Brace: NA Knee Brace Length: NA

Apex Brace: NA Apex Brace Length: NA

End Wall Mullion: C15012

**LEFT LEAN TO PORTALS** 

Internal Column: NA Internal Rafter: NA End Column: NA End Rafter: NA

RIGHT LEANTO PORTALS

Internal Column: NA Internal Rafter: NA End Column: 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	The state of the s						
Side Wall Girts:	TH64075	Spacing:	1250	Overlap:	100mm			
Front End Wall Girts:	TH64075	Spacing:		Overlap:	100mm			
Back End Wall Girts:	TH64075	Spacing:		Overlap:	100mm			
Roof Purlins:	TH64075	Spacing:		Overlap:				

**Fasteners** 

Sleeve Anchor Bolts: M12x80 Sleeve Anchor Yellow Zinc Frame Bolts: M12x30 Purlin Assembly Zinc (Mild)

Frame Screws: Frame Screw 14x14x22

Cross Bracing Strap: NA Open Bay Header Height: NA

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

Signature. Date 10/10/16

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ACAME ABN 28 002 465 072

243 Princess Highway Milton NSW 2538

Consulting Civil, Structura

Mechanical Engineers

Mechanical Engineers

ME (Aust) CP Eng (NPER Civil) RPEQ

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#### **ENGINEERING SCHEDULE**



#### **Best Sheds**

151 Smeaton Grange Road, Smeaton Grange, NSW, 2567

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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)

. Date 10/10/16 Signature.

Page 2 of 3

ACAME ABN 28 002 465 072

243 Princess Highway Milton NSW 2538

Consulting Civil, Structural

& Mechanical Engineers Director: John R Hart Dip Tech (Civil Eng) MIE (Aust) CP Eng (NPER Civil) RPEO

#### **ENGINEERING SCHEDULE**



#### **Best Sheds**

151 Smeaton Grange Road. Smeaton Grange, NSW, 2567

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

#### 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
HTOH-D	SL82	L11TM3	-	400	300
ETO 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)

..... Date 10/10/16

Page 3 of 3

ACAME ABN 28 002 465 072

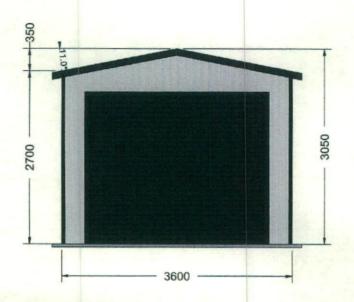
243 Princess Highway Milton NSW 2538

Consulting Civil, Structura

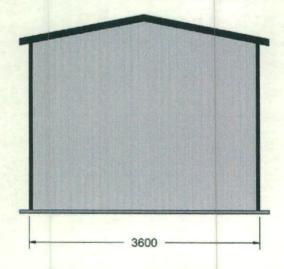
Mechanical Engineers

Director: John R Hart Dip Tesh (Civil Eng) MIE (Aust) CP Eng (NPER Civil) RPEQ
Registered Chartered Professional Engineer Regn. No. 249317

Document Set ID: 7475612 Version: 1, Version Date: 03/01/2017



### FRONT ELEVATION



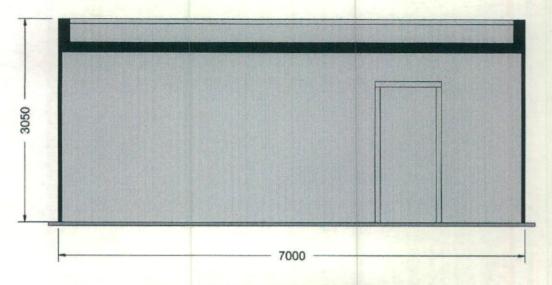
### REAR ELEVATION



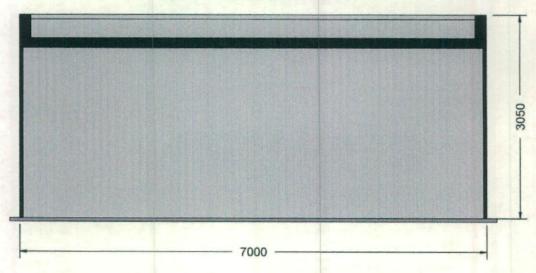
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Customer Name: Silvia Horace Site Address: 2497 The Northern Road Mulgoa , NSW, 2745

Drawing Title: End Elevations Scale: 1:36.993 Date :05-10-2016 Job Number: 600800 Page: 1 of 8



## LEFT ELEVATION

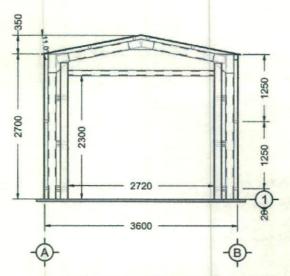


## RIGHT ELEVATION

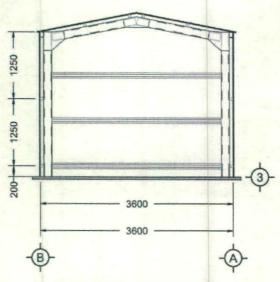


Customer Name: Silvia Horace Site Address: 2497 The Northern Road Mulgoa , NSW, 2745

Drawing Title: Side Elevations Scale: 1:35.584 Date:05-10-2016 Job Number: 600800 Page: 2 of 8



### FRONT ELEVATION

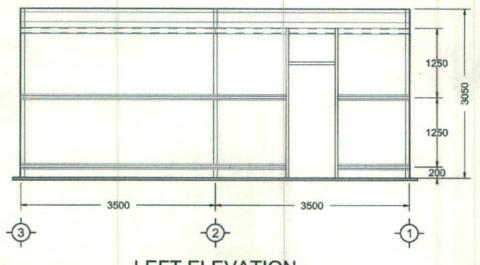


REAR ELEVATION

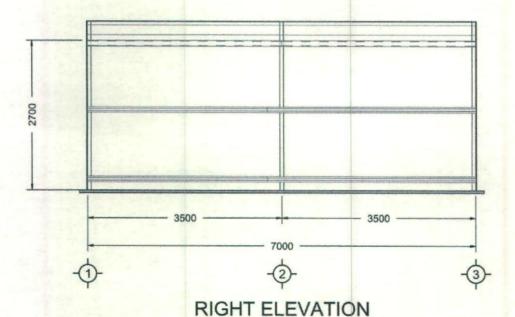


Customer Name: Silvia Horace Site Address: 2497 The Northern Road Mulgoa , NSW, 2745

Drawing Title: End Frame Elevations Scale: 1:44.215 Date:06-10-2016 Job Number: 600800 Page: 3 of 8



### LEFT ELEVATION

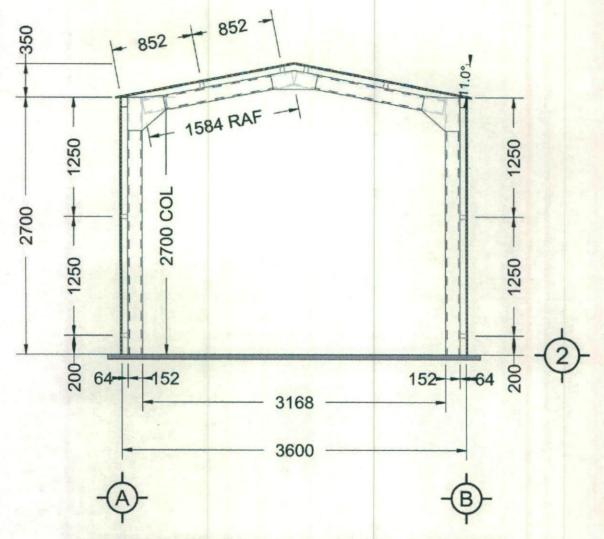




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ASN 28 902 465 972
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& Mochanical Engineer

Customer Name: Silvia Horace Site Address: 2497 The Northern Road Mulgoa , NSW, 2745

Drawing Title: Side Frame Elevations Scale: 1:42.806 Date: 05-10-2016 Job Number: 600800 Page: 4 of 8



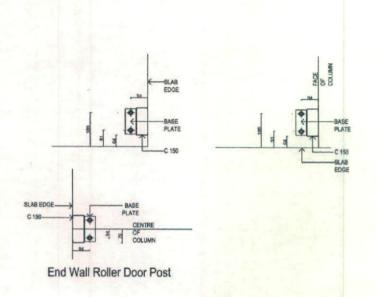
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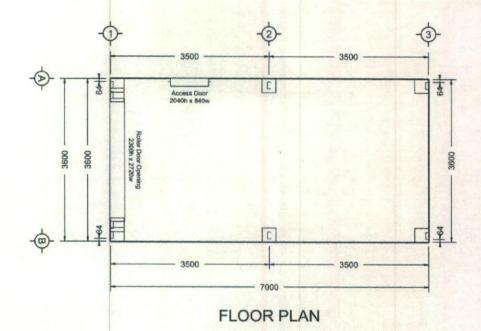


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Customer Name: Silvia Horace Site Address: 2497 The Northern Road Mulgoa , NSW, 2745

Drawing Title: Cross Section Scale: 1:24.798 Date:05-10-2016 Job Number: 600800 Page: 5 of 8



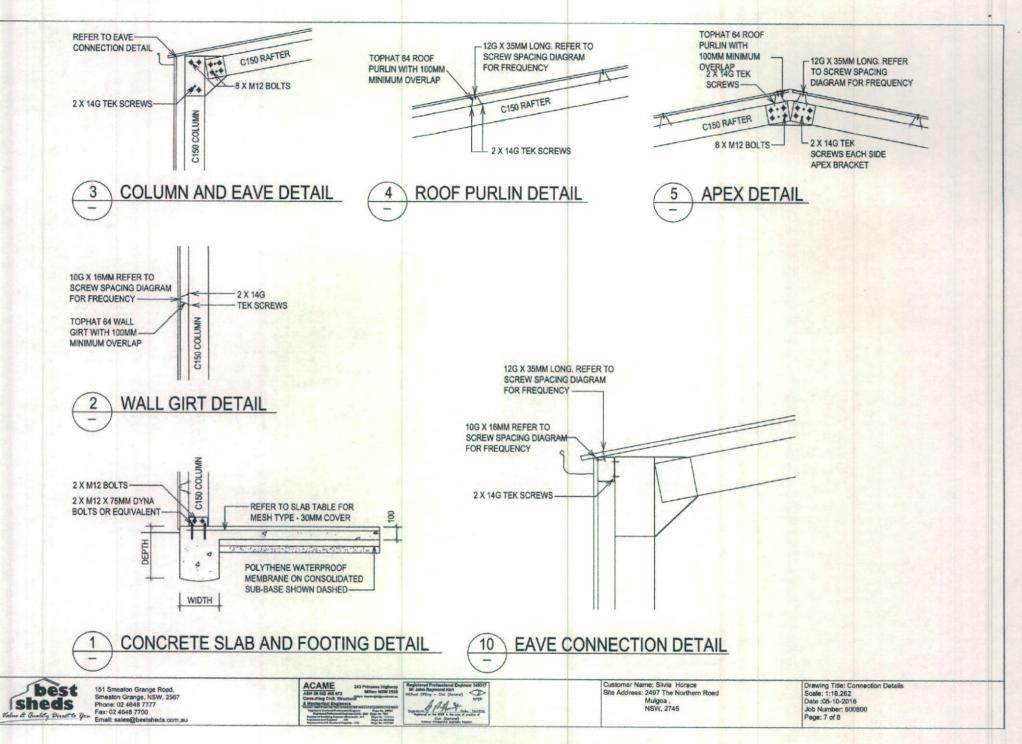




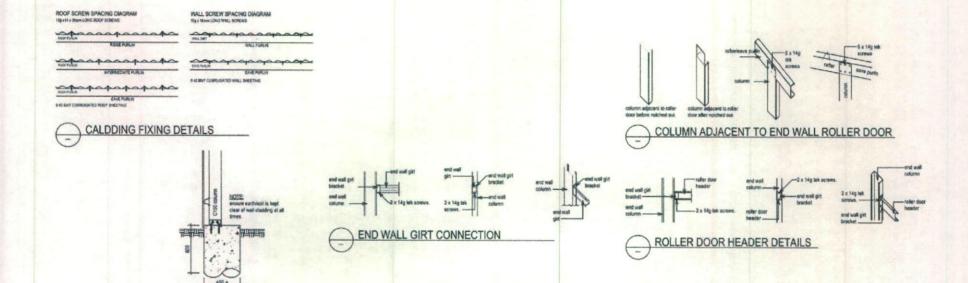
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Regioner & Dan

Customer Name: Silvia Horace Site Address: 2497 The Northern Road Mulgoa , NSW, 2745

Drawing Title: Floor Plan Scale: 1:52.208 Date: 05-10-2016 Job Number: 600800 Page: 6 of 8



Document Set ID: 7475612 Version: 1, Version Date: 03/01/2017





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4 Wachanical Engine

Customer Name: Silvis Horsce Site Address; 2497 The Northern Road Mulgoa , NSW, 2745

Drawing Title: Connection Details 2 Scale: 1:29.818 Date :05-10-2016 Job Number: 600800 Page: 8 of 8