

# ENGINEERING SCHEDULE

CERTIFIED STEEL PORTAL FRAME SHED DESIGN IN ACCORDANCE WITH NCC 2022 FOR SITE WIND SPEED "41.73m/s", WIND REGION "A0", TERRAIN CATEGORY "2.9", IMPORTANCE LEVEL "2"

Internal Pressure: 0.5

Design Snow Load: 0.00 KPa, Roof Snow Load: 0.00 KPa

Customer: natasha sant

Site Address: 1194 cope road, cope NSW 2852

Main Building: Span: 10, Length: 20, Height: 5.5, Roof Pitch: 11 degrees

The length being comprised of 4 bays, the largest bay is 5m bays.

Left LeanTo: NA

Right LeanTo: Span: 6, Length: 15, Eave Height: 4.075, Roof Pitch: 5 degrees, Open

Total Kit Weight: 8480.07kg

INTERNAL PORTALS
Column: C30030
Rafter: C30030
Knee Brace: C15024
Knee Brace Length: 2000
Apex Brace: C15024
Apex Brace Length: 4600

END PORTALS
Column: C30030
Rafter: C30030
Knee Brace: NA
Knee Brace Length: NA
Apex Brace: NA
Apex Brace Length: NA
Endwall Mullion: C30030

LEFT LEAN TO PORTALS
Internal Column: NA
Internal Rafter: NA
End Column: NA
End Rafter: NA
Knee Brace: NA
Knee Brace Length: NA

RIGHT LEAN TO PORTALS
Internal Column: C30030
Internal Rafter: C30030
End Column: C30030
End Rafter: C30030
Knee Brace: NA
Knee Brace Length: NA

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

PURLINS AND GIRTS
Eave Purlin: TH120100
Side Wall Girts: TH120100
Front End Wall Girts: TH120100
Back End Wall Girts: TH120100
Roof Purlins: TH120100
Max Spacing: 1250
Overlap: 10%
Max Spacing: 1250
Overlap: 10%
Max Spacing: 1250
Overlap: 10%
Max Spacing: 1000
Overlap: 10%

NOTE: Girt spacing will vary to a maximum 1.25m where window/s are located.

FASTENERS
Sleeve Anchor Bolts: M16x105 Sleeve Anchor
Frame Bolts: M16x45 Purlin Assembly Zinc (Mild)
Frame Screws: Frame Screw 14x14x22
Cross Bracing Strap: 32mm x 1.2 strap
Open Bay Header Height: NA

COLOUR SCHEDULE
Roof Sheets: Colour
External Wall Sheets: Colour
Roller Doors: Colour
Flashings: Colour
PA Doors: Colour
Windows: NA

## 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.

25mm deep concrete saw cut, to be made into the surface of the concrete slab every 6m in width or length as crack control joints.

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.

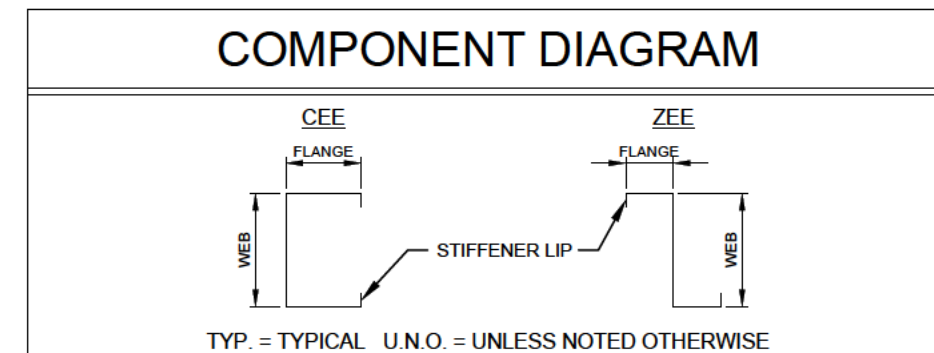
## GENERAL

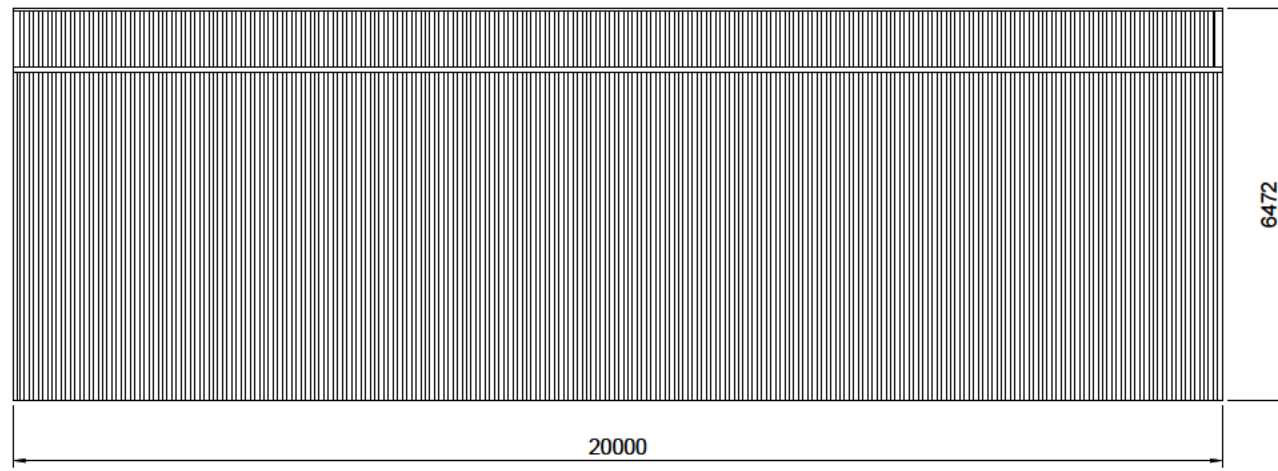
The designs as portrayed on the drawings remain the intellectual property of Best Sheds Pty Ltd and are provided for building approval and construction purposes only.

## SNOW LOAD

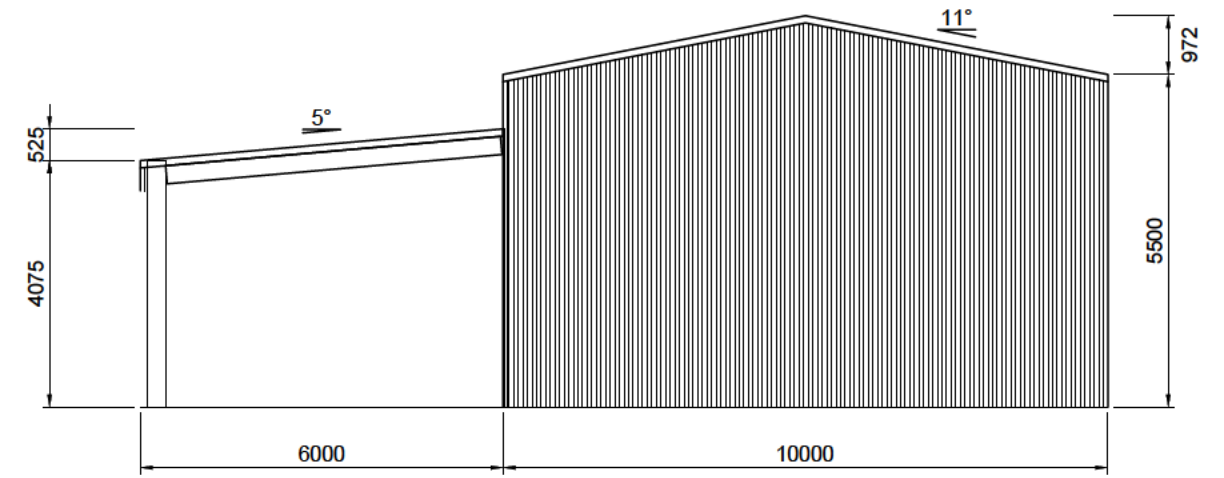
Following conditions only apply to buildings with snow loading:

- 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.

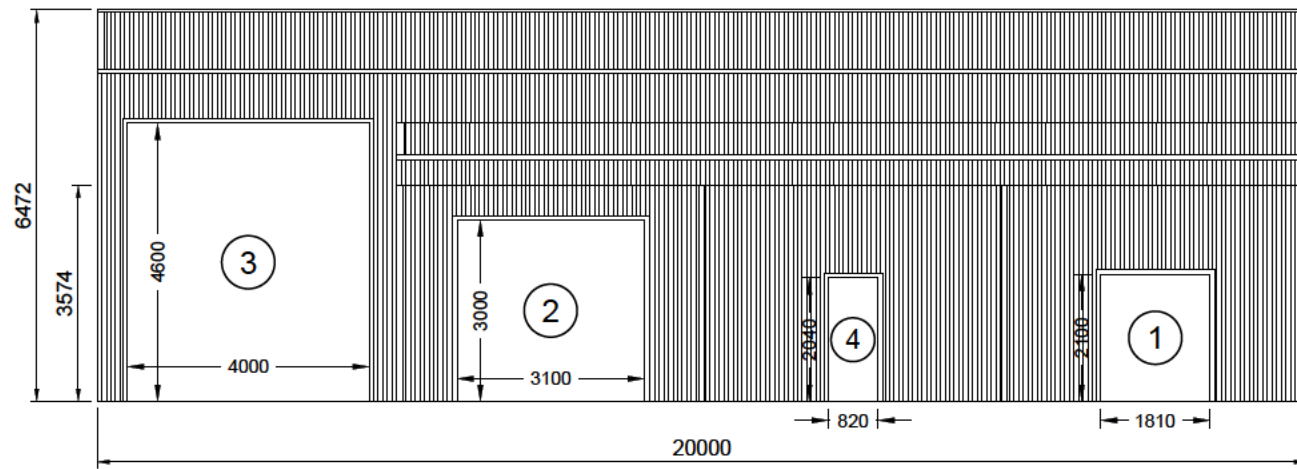




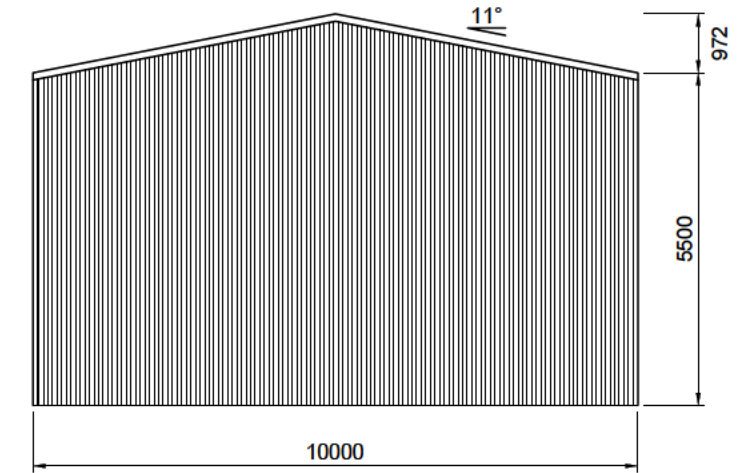
2 LEFT ELEVATION  
2 SCALE: 1:125



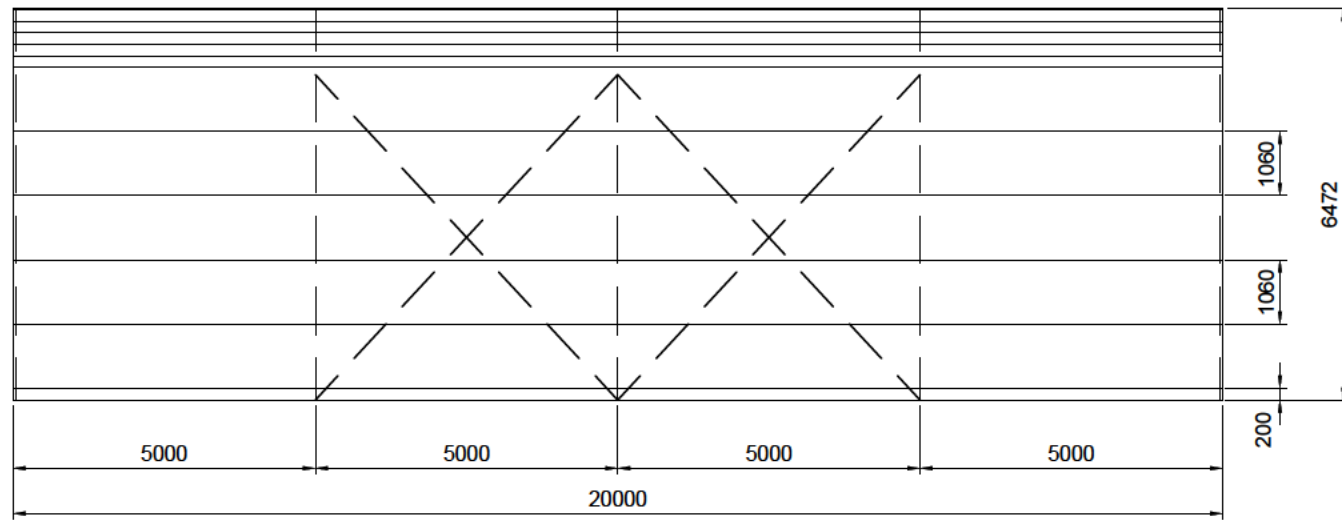
3 REAR ELEVATION  
2 SCALE: 1:125 FRAME #5



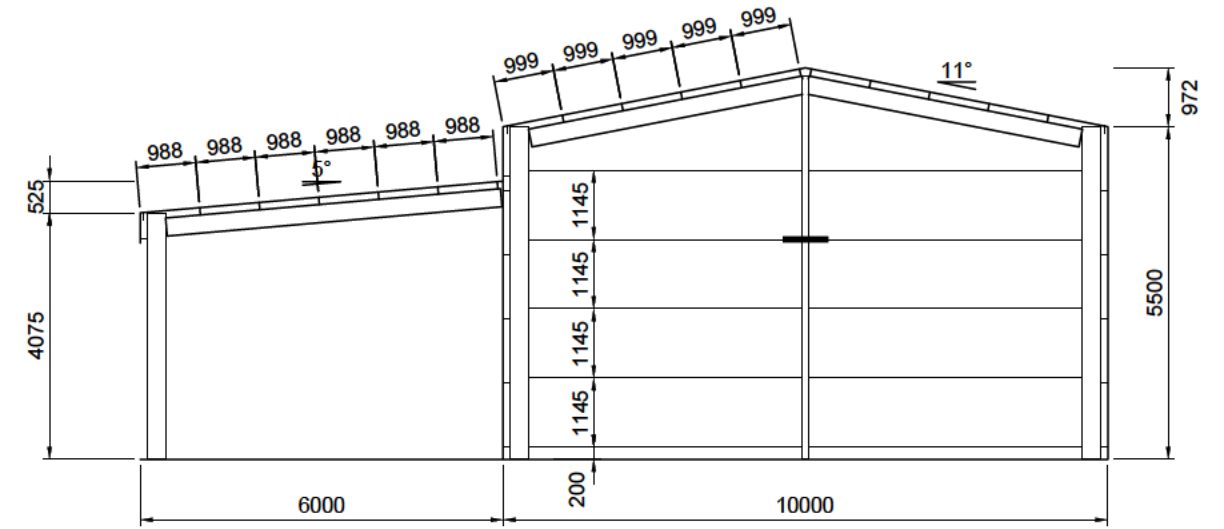
1 RIGHT ELEVATION  
2 SCALE: 1:125



4 FRONT ELEVATION  
2 SCALE: 1:125 FRAME #1

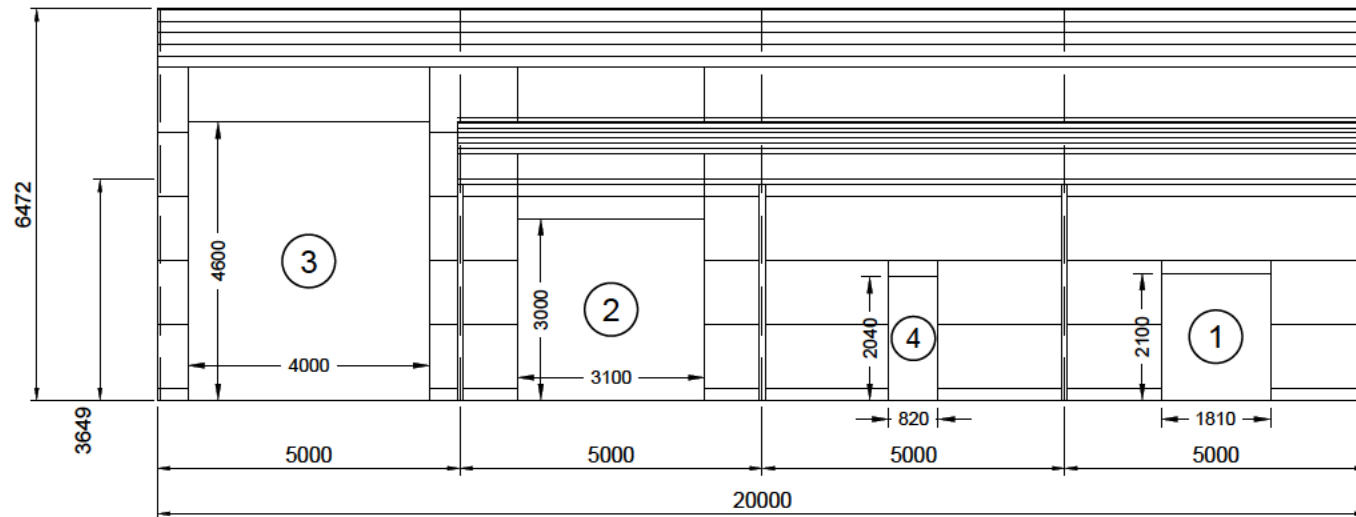


**2 LEFT ELEVATION**  
SCALE: 1:125

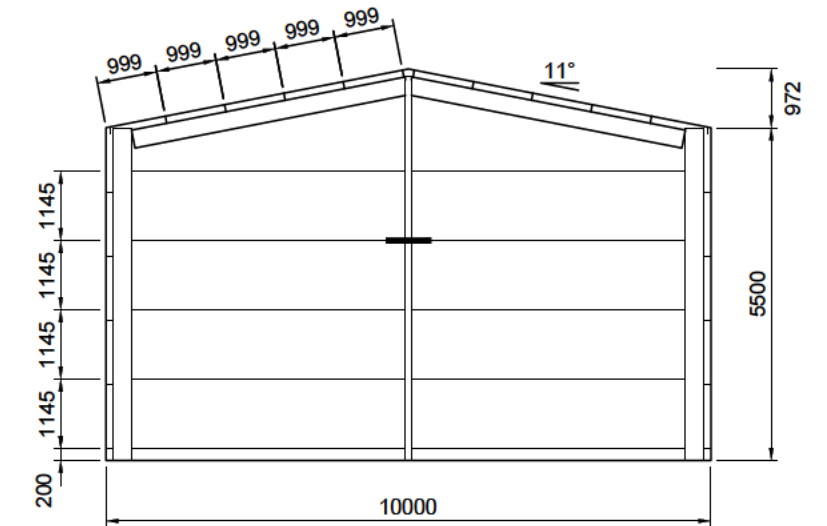


**3 REAR ELEVATION**  
SCALE: 1:125

FRAME #5



**1 RIGHT ELEVATION**  
SCALE: 1:125



**4 FRONT ELEVATION**  
SCALE: 1:125

FRAME #1









