

**15.5.10 BRIGADE SHED – DESIGN CONSTRUCT BUILDING**

**OBLIGATIONS and MATERIALS TO BE USED**

The Builder is to include in his 'Tender Price' for the design, certification, supply and installation of the 4 bay Brigade Shed.

*Refer to Site Plan, 21901 / A1.02 for location together with notional Shed Elevations on 21901 / A1-06 for spatial parameters*

**NOTE 1 – DESIGN REVIEW**

Submit the shed design to the Superintendent' Representative for review.

**NOTE 2- CERTIFICATION:**

*It shall be the responsibility of the builder to arrange for the following:*

- “Engage the services of Gippsland Building Approvals, building surveyor. Contact Mr Wes Maxwell T: 5672 4655, E: [wesmaxwell@gbas.com.au](mailto:wesmaxwell@gbas.com.au).”
- *Obtain the building permit for these separable portion works, pay all assoc fees and obtain the certificate of occupancy upon completion;*
- *Ensure that the permit application is for a Class 7A, Importance Level 4 Building;*
- *Supply the design, computations and engineers certification for submission*
- *Terrain Category is 2.5.*

*The supplier of the shed and the shed construction shall be prior approved by 'Shedsafe' an accreditation organisation managed by the Australian Steel Institute.*

**NOTE 3- FLOOR:** *Brigade Shed slab- Arrange to supply & install concrete floor slab, noting the following parameters:*

- *Concrete slab design live load shall be 5KpA*
- *Slab shall be installed independent of the shed footings, installed after structure erected*
- *Slab to have wood float finish*

**Minimum specification for the Shed concrete slab shall be not less than as follows:**

- *150mm thick concrete, Grade N32, SL82 mesh top, 30 cover*
- *0.2mm thick vapour barrier on 50mm thick sand bed over a prepared subgrade*
- *Allow for 50mm deep sawcut joints at 5.0m centres*

**NOTE 4- STEEL PROFILES:** *Shed Roof Purlins are to be “C” sections.*

*Girts are to be box section.*

*Top hat sections and “Z” section Girts shall not be approved by the Principal.*

**NOTE 5- FINISHES:** *Colorbond colours shall be selected generally to match the Main CFA Station Building on site. Refer to the Colour & Finishes Schedule for details*

**GUIDE TO MATERIALS TO BE USED- SHED**

Item	Material Supplier	Trade Name	Finish	Total Coated Thickness/ Details
Metal Roof (RP.SM2)	BHP	'Trimdek' or similar Profile	Colorbond	0.42mm
Translucent Roofing	'Suntuff Industrial'	Corrugated Profile Match 'Trimdek'	Clear / Grey	1.25mm thick
Sarking		Sisalation		
Safety Mesh				3mm wire
Downpipes	Painted UPVC		Painted to match wall colour	100mm diameter

Item	Material Supplier	Trade Name	Finish	Total Coated Thickness/ Details
Metal wall cladding (P.SM2)	BHP	'Monopanel' or similar profile	Colorbond	0.42mm
Eaves Gutter	BHP	'Sheer Line' with overflow slots	Colorbond	Profile: 124 x 141
Leaf guard	'Fielders'	'Watergate leaf guard'		
Roof Ventilator	Western	'Western Rotary' Type-WR400	Colorbond	

### FLASHINGS

Provide all flashings, cappings, gutters, outlets and down pipes as necessary to complete the roof system. Flash all roof junctions. Match selected 'colorbond' colour.

### ROOF EAVES- No overhang required

#### GUTTER

Form stop ends, bends and returns. Turn down into outlets. Provide overflows to prevent back flooding. Supply and install Fielders Watergate leaf guards to all gutters.

#### DOWNPIPES

Prefabricated UPVC downpipes to the required diameter section. Connect head of downpipes to gutter outlets and each base to stormwater system as per Civil Drawings. Provide support and fixings for down pipes.

#### ROOF VENTILATORS

Supply and install 4No Western Rotary WR600 Roof Ventilators to be located over each bay. Provide for all flashings as required. Roof Ventilators to match colorbond roof colour.

#### EXTERNAL PEDESTRIAN DOOR

Provide and install solid core metal clad door unit comprising a metal clad door with colorbond steel facings. Door to be fitted with furniture as indicated below.

External doors to be solid core doors clad internally, externally and edged with colorbond. The bottom edge to be weather sealed using Raven RP26 and RP29.

Pressed metal door frame to be purpose made to suit. Frame to be reinforced with backing plates to suite 4No hinges and backing plates to allow solid fixing of door closer.

Supply and install schlegal wool pile seal to all edges of external door. Allow the following hardware with reference to the Door Legend for the Main Station:

- 4# type H2 hinges
- L9/L10 lock/latch, key external side to CFA region master key
- Furniture: F5 external, F16/F17 Internal
- Door closer Type C2

#### ROLLER DOORS TO SHED

Supply and install 4 No auto roller doors to shed.

The doors to shed are to be of heavy-duty roller door type, complete with heavy duty bottom rail and balloon seal. The doors are to be motorised, capable of being manually operated in the event of power failure. Each door to be fitted with door controllers, remote controllers.

*The doors shall be suitable to fit clear opening sizes as follows:*

- 4 no- 2700mmW x 2700mmH clear opening to External Shed

### **Roller Door Construction**

The roller doors shall be designed to withstand wind loads in accordance with AS1170 Part 2. In the closed position shall have a maximum horizontal deflection (under design wind load) of 1 in 300 and a maximum vertical deflection on 10mm (under self weight load).

Weather seals, shall be fitted to the bottom, sides of door. The bottom weather seal shall be fitted and appropriately sized to take into account undulations in the finished floor level. Where to floor of the opening is significantly out of square the bottom of the door shall be made to conform to it.

Supply and install brush seal to top and side-guides of door and rubber seal to bottom of door to prevent bird and vermin entry into the shed

### **Approved Supplier Doors**

Door system to be supplied and installed by B & D Australia or similar matching the following:

#### Model: B & D Series 2 Industrial Roller Door

Manufactured from 0.55mm gauge flexible steel curtain pressed to a horizontal ribbed profile. Aluminium bottom rail complete with heavy duty balloon weather strip  
100mm wind lock side guides fitted to every flat. Nylofelt cushion operation

#### Automatic Technology GD010 Toro Fully Auto Heavy Duty Industrial Roller Door Opener

240v single phase with battery and chain backup operation and 3 metre manual release cord including Control box, Control Panel, PE Beams, and 2 remote transmitters per door

Builder to supply all technical information, operating and maintenance manuals, spare parts list, etc., on all equipment, as published by the manufacturers.

### **ELECTRICAL SERVICES**

Supply and install interior and exterior lighting and power as shown on the Electrical Services Drawings

## **15.6 EQUIPMENT**

### **15.6.01 HOSE REEL AND HYDRANT CABINETS and / or BRACKETS**

Provide standard CFA hydrants and hose reels located in positions as indicated. Provide steel pole and adjustable horizontal fixing to wall mounted hose reel.

### **15.6.02 FIRE EXTINGUISHERS**

Builder is to supply and install portable Fire Extinguishers as a minimum, to statutory requirement and as per the Hydraulic Engineering Services drawings showing locations and type of extinguishers.

### **15.6.03 FLAGPOLES (3no required)- Typical Drawing supplied in the Appendices**

Supply and install **2no.- 6.0 m high** machined tapered flagpoles with powdercoat finish, 'Centenary' model no. 665060 manufactured by La Mer Australia Pty Ltd, telephone 9645 1620. Pole is nom. 80mm diameter x 6.0 metres long.

Supply and install **1no.-7.0 m high** La Mer 'Centenary' aluminium flagpole. Internal Halyard, Model No. 661070. Pole Size: 7m long, 80mm Dia.

Each flagpole to have solid aluminium rotating finial and lockable anti tamper halyard.

Mount on ground over galvanised steel spigot where indicated on the drawings and install in accordance with the manufacturers recommendations, complete with concrete footings. Refer to CFA Standard installation drawing in the appendices to these Specifications. Refer standard installation details. (Appendix D)