



## 0572 Miscellaneous Furniture

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## 00 Design principles

### 0.01 Main considerations

It is a requirement to undertake the [00 PLANNING AND DESIGN/0001R - DESIGN REFERENCE](#) and [GLOSSARY OF TERMS](#) information into all aspects of design, detailing and delivery when developing the content here within. Clear demonstration of adherence to these requirements is part of the services and will be called upon at key points in the project and during at the discretion of the Department of Education (DoE).

### 0.02 General

The selection of fixtures must be based on a knowledge of the proposed use. Use impact resistant materials in all pupil accessible areas. Visible surfaces should be capable of being easily cleaned and repaired if damaged.

Furniture selections should be reviewed by DoE Project Reference Group and EFSG Technical Stakeholders.

### 0.03 Furniture Schedules

- Indicative furniture is to be shown in the EFSG Room Data sheets
- The project specific Furniture Schedule should be prepared by the design team and be submitted for review by the Project Reference Group and EFSG Technical Stakeholders.
- Once the furniture schedule is complete, supply to the Department of Education nominated furniture supplier/aggregator.

### 0.04 Documentation

- The Furniture Schedule must be included in the contract package
- Include the suppliers name, model number, colours and quantity. Nominate specific lead times for ordering
- Quantities may vary from the EFSG Room Data drawings, if approved by the projects Stakeholders
- Items are to be ordered, located and fixed by the Contractor

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# Specification

## 01 General

As per NATSPEC except as follows:

### 1.5 Fixtures and Fittings

GUIDE NOTE: Add new clause

#### Supply and installation

The SELECTIONS describe furniture fixtures including loose furniture (FFE). All items are identified with a group number which indicates who is responsible for the item according to a construction industry accepted description as follows.

**Table 01: Supply and Installation methods**

| Group | Description   |
|-------|---|
| 1     | Provided and installed by the Contractor                  |
| 2     | Provided by the Principal and installed by the Contractor |
| 3     | Provided and installed by the Principal                   |

#### Installation

Allow to supply and install all Group 1 items

Allow to install all Group 2 items supplied by the Principal.

#### Group 2 Items

Receive delivery of the items of Furniture, Fixtures and Equipment (FFE) at the normal site delivery point for convenient off-loading. The delivery point must be agreed to by the contractor and nominated FF&E supplier.

Promptly remove and place off- loaded FF&E in safe storage until required for final placing in the works.

Examine the items of FF&E upon delivery to ascertain whether they are in conformity with the order and whether they have been damaged in transit. Examine the FF&E immediately

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on delivery and any defect as to quantity or description or damage shall be brought to the notice of the carrier and noted on the document upon which receipt of the FF&E reported is acknowledged. Report defects/damages immediately to the responsible carrier and also to the Person with Full Authority/Superintendent's representative.

Once the contractor has acknowledged the receipt of FF&E as being in good order and condition, the contractor shall be responsible for any such defect or damage that may be discovered by examination of the FF&E and shall be responsible for replacement of the FF&E at his own cost.

The contractor must sign all delivery dockets at time of receipt of FF&E items

Position the FF&E at the locations shown on the plans or in the schedule's hereafter. To facilitate flexibility, most items are to be loosely placed to allow rearrangement by the Principal. Only items specifically listed as fixed are to be fixed in position. Remove packaging/wrapping from all the furniture.

When delivered, except as specified below, the items will be in a finished state and should not require any further finishing on the site, except for stopping of nail holes and touching up to match the general finish, where blemishes occur on site.

## 02 Products

As per current NATSPEC

## 03 Execution

As per current NATSPEC

GUIDE NOTE: Delete all items after workmanship generally under execution in NATSPEC Building Miscellaneous Furniture - Templates / Worksection unless referenced in this subsection

## 04 Selections

As per current NATSPEC except as follows:

### Curtains and Tracks

GUIDE NOTE: Refer to [05 INTERIOR/0574 - WINDOW COVERINGS](#) for window blinds, curtains and tracks.

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## 4.2 Stage, Curtains and Tracks

GUIDE NOTE: Insert project specific locations. This specification information is only applicable to stages less than 150m<sup>2</sup>.

Group: Group 1

Location:

### Requirements

- The Early Fire Indices for curtains and stage masking assemblies must comply with the Building Code of Australia (BCA).

### Labels

- Provide each curtain with tear resistant labels in accordance with the BCA

### Stage Maskings

- Legs: Provide four pairs of legs in treated black fabric. The fabric is to be headed to 50% fullness onto 50 mm wide 100% cotton "herringbone" pattern webbing tape, with a 4 mm electro-plated link chain sewn into a canvas covered "sausage" attached to the top of 150 mm base hem to provide suitable weighting. Legs are to swivel to suit the angle of "sight line" from side of hall, swivels should be tight to prevent accidental movement. Provide brass eyelets and polished cotton ties at 300mm centres for attachment to leg swivels.
- Borders: Head three borders in treated black fabric headed to 50% fullness onto 50 mm wide 100% cotton "herringbone" pattern webbing tape, with 50 mm base hem. Provide brass eyelets and polished cotton ties at 300 mm centres for attachment to galvanised pipe battens.

### Back Drop

- Made in two halves of treated black fabric headed to 50% fullness onto 50 mm wide 100% cotton "herringbone" pattern webbing tape with a 4 mm electro-plated link chain sewn into a canvas covered "sausage" attached to the top of a 150 mm base hem to provide suitable weighting. Off-stage side hems to be 50 mm. Provide brass eyelets and polished cotton ties at 300 mm centres for attachment to the track runners.

### Fabric Type

- PFZ treated black wool drape

OR

- Treated black 90% wool 10% nylon drape
- Weight: 370 g/m2 minimum (Method to AS 2001.2.13)

GUIDE NOTE: Nominate appropriate project specific information in the table below

**Table 02: Schedule of Stage Curtains and Tracks**

| Item     | No | Fabric | Heading | Drop | Fullness |
|----------|----|--------|---------|------|----------|
| Legs     |    |        |         |      |          |
| Borders  |    |        |         |      |          |
| Backdrop |    |        |         |      |          |

#### **Back Drop Track**

- Heavy duty extruded aluminium stage track or an open truss steel track with low friction ball bearings type wheeled master carriers and runners. Provide single runners for every 300 mm of track, capable of carrying a minimum weight of seven kilograms.
- Install track to allow the Backing Curtain to be a minimum of 750 mm off the back wall.

#### **Masking Fixings**

- Fix all legs and borders to a 40NB galvanised pipe, attached to existing roof steels or purlins with special purpose clamps. All eyebolts are to be closed after installation. Extend leg batten pipe for the full width of the stage.

### **4.3 Stage Type Curtains**

GUIDE NOTE: Insert project specific locations. This specification information is only applicable to stages less than 150m2.

Group: Group 1

Location:

#### **Requirements**

- In the manufacture of curtain use only materials which comply with the requirements of the Building Code of Australia (BCA).

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## Labels

- Provide each curtain with tear resistant labels as required by the BCA.

## Curtains

- Each curtain to be a permanently fire-retarded theatre curtain. Head to 100% fullness on to 50 mm 100% cotton "herringbone" pattern webbing tape with a 4 mm electro-plated link chain sewn into a canvas covered "sausage" attached to the top of a 200 mm base hem to provide suitable weighting. Side hems to be 50 mm. Provide brass eyelets and polished cotton ties at 300 mm centres for attachment to the track runners. Provide 200 mm turnbacks to the leading edge of each curtain.
- Content: 100% wool
- Weight: 500 gsm (minimum)

## Track for Stage Front Curtains (Main Curtain Track)

- Heavy duty extruded aluminium stage track or an open truss steel track with low friction ball bearings type wheeled master carriers and runners. Provide single runners for every 300 mm of track, capable of carrying a minimum weight of seven kilograms.

## Operation

- Curtain track to be a cord drawn assembly (minimum diameter of cord 6 mm). The track assembly is to comprise of a continuous line over a single or double pulley system with a hauling line operated by hand. Provide a fully adjustable floor mounted pulley system to take up a minimum of 200 mm of slack cord.
- The overall length of the track to match the headings of the two halves of the main curtain with a centre overlap of 600 mm, and a travel offstage of the proscenium by 1.2m. Secure the main curtain track to the proscenium by means of steel brackets compatible with the track profile. Provide adequate fixing provisions for track or track supports.

## 4.4 Track for Stage Front Curtains (Main Curtain Track)

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:



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### **Curtain Tracks**

- Open truss steel track with low friction ball bearings type wheeled master carriers and runners.
- Provide single runners for every 300 mm of track, capable of carrying a minimum weight of seven kilograms.
- Length and Track Layout: As shown on drawings.
- Curtain Track Switch: Positioned as shown on drawings

### **Operation:**

- The leading edge of each curtain is to have an overlapping master carrier to provide a 100mm overlap.
- The track is to be hand drawn operation.
- Track is to be secured to the roof ceiling space by means of steel brackets compatible with the track profile.

## **4.5 Curtain and Track for Shower Area / Access**

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### **Type:**

- Fabric: 150 denier polyester @ 60gm/m<sup>2</sup> - washable
- Width: Shower opening width (or track length) x 1 ¼
- Height: From head support to 50 mm clear of floor.
- Hemming: Double hemmed all round with reinforced head, buttonholes sewn with heavy grade polyester thread OR sides and bottom cut with hot wire to completely seal edge.

### **Accessories:**

- All out of brass.
- Eyelets: 75 mm maximum centres equally spaced.
- Strap on rings: Finish - Heavy chrome plating.

### **Track:**

- Height from finished floor level: 2000 mm

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**Track type:**

- Suspended extruded aluminium box section bedscreen track.
- Finish: Anodised
- Self-Supporting: 2400 mm (max)
- Glider/Hooks: Nylon

**Track support brackets/assembly:**

- Track Support: suspension hanger to match track

## 4.6 Welding Curtain - Sides

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

**Type:**

- Proprietary translucent heavy duty flexible welding curtain/s and track system that provides protection against hazardous radiation generated during welding processes, complete with eyelets and double hem on all four sides, bottom hem chain weighted. Curtain to be able to concertina fully left and right.

**Curtain:**

- Welding Curtain: To AS 3957
- Thickness: 1mm
- Clearance from floor: 300mm
- Colour: Yellow / orange

**Track:**

- Heavy duty 2.5 mm thick extruded aluminium wheel track with key way for hanging  
Mounting height: 2100mm above floor.
- Finish: clear anodised.
- Carriers: stainless steel and nylon dual wheel carriers.

**Installation:**

- Support track securely with standard hangers to manufacturer's recommendations.

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## 4.7 Welding Curtain – Front

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### Type:

- Proprietary translucent heavy duty flexible strip welding curtain/s that provides protection against hazardous radiation generated during welding processes.

### Curtain:

- Welding Curtain: To AS 3957
- Thickness: 2mm
- Clearance from floor: 300mm
- Strip overlap: 50mm
- Colour: Yellow / orange

### Track:

- Heavy duty 3.5 mm thick extruded aluminium angle to allow for both face and head mounting positions.
- Mounting height: 2100mm above floor.
- Finish: clear anodised.
- Requirement: fix curtain strips to track with stainless steel bolts, nyloc nuts and dished washers.

### Installation:

- Support track securely by floor mounted posts with track brackets and off partition bay wall. Align posts with side curtain tracks.

## 4.8 Curtain for Light Trap, Dark Room

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

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**Material:**

- 100% pure cotton fabric lined with cotton sateen lining
- Dimension: 1½ times the full width of opening, with pencil pleated curtain top on 75mm rufflette tape. Provide a 150 mm high hem at bottom and finish at finished floor level to prevent the transmission of light.

**Manufacture:**

- Curtains to be measured from site dimensions.

**Track:**

- Track: Industrial track complete with pulling cords, weights, nylon gliders/hooks and fixing brackets
- Finish: clear anodised
- Fixing: To ceiling members with brackets provided by the manufacturer

## 4.9 Curtain, Fitting Area

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

**Type:**

- 100% pure cotton fabric lined with cotton sateen lining
- Width: Double fullness
- Height: From head support to 50mm clear of floor.
- Hemming:
  - 100mm base hem.
  - Side hemmed
  - 50mm heading hem

**Track type:**

- Track: Suspended extruded aluminium box section bedscreen type track
- Finish: clear anodised
- Self-supporting: 2400mm (max)
- Glider Hooks: Nylon

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### **Track support brackets / assembly**

- Track Support: suspension hanger to match track

## **4.10 Curtain, Over Mirror**

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### **Type:**

- Fire retarding overlapping curtain for the full height of the mirror:
  - Composition: 100% wool, or 90% wool
- Width: 1400 mm (nominal)
- Curtain fabric must comply with the BCA Fire Hazard Test Properties C1.10 requirements.

### **Labels**

- Provide each curtain with a tear resistant label in accordance with the BCA.

### **Track type**

- Heavy commercial light stage curtain track
- Material: Aluminium
- Extrusion: "U" section
- 20 x 30 mm wide (minimum)
- Continuous length (without join): 6m. Extended to enable the curtain to cover the exercise bar (barre)
- Finish: anodised or laminated pvc
- Operation: hand pull (drawn) track operation

### **Carriers**

- Heavy duty wheeled runners with ball bearings, minimum 12 per metre.
- Overlapping master carrier with ball bearings
- Centre of carrier to be minimum 45 mm from face of mirror
- Metal curtain hooks.

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### Track support fixing

- Wall: provisions made to allow track to extend beyond exercise bar (barre)
- Brackets: Proprietary all metal brackets (ceiling clips) fixed at a maximum of 800mm centres. Brackets (ceiling clips) to be compatible to track and to be supplied by the manufacturer/supplier of the track
- Ceiling: Proprietary all metal brackets (ceiling clips) fixed at a maximum of 800mm centres. Brackets (ceiling clips) to be compatible to track and to be supplied by the manufacturer/supplier of the track
- Finish: Match track

## 4.11 Curtains, Finishing Area

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### Type:

- Fire retardant industrial PVC heavy-duty flexible curtains to effectively screen the whole Finishing Area of the Materials Workshop. Curtains to be UV stabilised, alkali and acid resistant.
- Clearance from floor: 100mm
- Colour: clear
- Hem: Electronically welded, 50 mm all four sides
- Eyelets: Electronically welded eyelets at 200mm centres at top and 600mm centres sides and bottom.
- Fire retardant: To AS1441.13

### Track:

- Two straight 30mm galvanised steel tracks at 900 to each other. Curtain hung on each track.
- Trolleys: Twin wheel nylon rollers on roller bearings, attached to a metal shaft and suspension with metal rings for holding curtain.

### Installation:

- Support track securely with standard hangers to manufacturer's recommendations.

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## Containers Bins and Cabinets

### 4.12 Flammable Liquids Cabinet (250 litre)

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

**Type:**

- An approved proprietary cabinet with all sides, roof and liquid tight floor sump fabricated in double walled zinc coated steel sheet construction including self-closing, sequentially closing, key lockable doors.

**Requirement**

- Must be suitable for the storage of all Class 3 flammable liquids.
- Australian Standard: AS 4452-1997 "The Storage & Handling Of Flammable And Combustible Liquids"
- Regulations of Work Cover Authority, Chemical Safety Unit
- Storage capacity: 250 litres
- Cabinet size: Nominal 1800 high x 1100 wide (maximum) x 500mm deep (maximum).
- Graphics: Provide text and graphics as per relevant regulations.

### 4.13 Flammable Liquids Cabinet (100 litre)

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

**Type**

- An approved under bench type proprietary cabinet with all sides, roof and liquid tight floor sump fabricated in double walled zinc coated steel sheet construction including self closing, sequentially closing, key lockable doors.

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## Requirement

- Must be suitable for the storage of all Class 3 flammable liquids.
- Australian Standard: AS 4552 “The Storage and Handling of Flammable and Combustible Liquids, Regulations of Work Cover Authority, Chemical Safety Unit.
- Storage capacity: 100 litres
- Cabinet size: Nominal 800 high x 920 wide (maximum) x 620mm deep (maximum)
- Graphics: Provide text and graphics as per relevant regulations.

### 4.14 Medicine Cabinet

GUIDE NOTE: Insert project specific locations.

Group: Group 1

Location:

#### Type

- Kit ‘A’ compliant for NSW

#### Installation

- Fix to wall to manufacturers recommendations in locations shown on drawings.
- Mounting height: Base of unit to be 1350mm above floor level

#### Nominal size

- 455(w) x 480(h) x 185 (d)mm

#### Finish

- White powder coated steel cabinet

#### Signage

- Label ‘Medical Cabinet’ and with first aid symbol consisting of white cross on green background

### 4.15 Security Key Cabinet

GUIDE NOTE: Insert project specific locations



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Group: Group 1

Location:

### **Type**

- Heavy duty mild steel security key cabinet.
- Capacity: 140 keys; non-standard size.
- Lock: Security lock.
- Hinge: 16mm diam. fixed pin mild steel
- Surround: Anti-jemmy.
- Fixing height (nominal): 1110 mm

### **Dimensions (nominal)**

- 430H x 430W x 120D

### **Installation**

- To manufacturer's recommendation.

GUIDE NOTE: A 140 Key Capacity cabinet is not a standard stock size. The contractor will need to allow a lead time for manufacture.

## **4.16 Plan Cabinet**

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### **Type**

- Proprietary fully welded steel horizontal filing cabinet complete with floor stand.
- Drawers: 5
  - Metal flaps in each drawer to keep sheets flat
  - Provision for front indexing
- Size: "A0" paper size
- Stacking: Capable of withstanding the stacking of an additional cabinet.

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## Finish

- Powdercoated

GUIDE NOTE: Refer to manufacturer for range of colours. Include colour here or refer to the EFSG Design Guide for suggested colours and finishes.

Colour:

## 4.17 Steel Safe

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### Type:

- Fire resistant (fire resistant rating 1 hour) steel security safe complete with removable shelf and a lockable drawer/s. The safe is to be secured by pick resistant key lock
- Lock: 6 lever pick resistant lock
- Drawers: 1 or 2 lockable drawers
  - Drawers are to lock under a fixed steel
- Shelf: removable.

### Item 1

- Dimensions (nominal): 610H x 560W x 515D
- Weight: 300kg (nominal)

### Item 2

- Dimensions (nominal): 915H x 560W x 515D
- Weight: 485kg (nominal)

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## Shelving Systems

### 4.18 Office Shelving System

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

**Description:**

Provide steel shelving with solid steel backs to the areas scheduled and where shown on the Furniture Layout drawings.

Colour:

GUIDE NOTE: Nominate colour. Generally a light grey colour required to blend with school furniture. Check with Manufacturer/Supplier for standard colour range

**Types:**

Adjustable Shelving (SA) of the following types:

- **Light Duty:**
  - SA 400 – 400mm deep, 900mm Bays
  - SA 400S – 400mm deep, 900mm Single Bays
  - SA 600 – 600mm deep, 900mm Bays
  - SA 600S – 600mm deep, 900mm Single Bays
- Rolled upright type for loads up to 110kg per shelf, five (5) intermediate shelves to be fully adjustable, complete with proprietary shelf supports, 2.175m high.
- **Heavy Duty:**
  - SA 750 – 750mm (nom) deep, 900mm Bays
  - SA 900 – 900mm (nom) deep, 900mm Bays
- U-Post type for loads up to 350kg per shelf, five (5) intermediate shelves to be fully adjustable, complete with proprietary shelf supports, 2.175m high:

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## 4.19 Mobile Shelving System

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### Type:

- General: A proprietary system consisting of closed-type steel shelving units mounted on floor tracks. Static unit location: at one end.
- Bases: Mount each unit on a base of structural steel sections supporting the unit between bearings, incorporating necessary bearing and guide wheels.
- Bearing wheels: Cast iron, ball bearing, with crowned running surface.
- Tracks: Provide bearing and guide tracks which are bright mild steel sections fixed to the structural concrete floor. Where tracks are to be flush with the finished floor surface, provide linings or edge trim for recesses required for floor guides, operating gear, or the like.
- Bays:
- Height:
- Width:
- Storing system: shelving
- Locking: Provide a pin-tumbler lock to lock together all continuous units in a single key operation. Dust protection: Provide replaceable resilient rubber strips to the contact edges of the units.
- Shelving: Steel units, single sided in the case of end units, otherwise double sided, fitted with adjustable steel shelving, together with manufacturer's standard accessories.

### Finish

- Pre-coated factory finish

### Methods of Operation

GUIDE NOTE: Include/delete operation not applicable

- By fixed pull handle

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OR

- Manually operated crank handle and geared chain drive, incorporating a safety device for the protection of person/s working in the aisles

### **Positioning**

- Shelving configuration: Position to avoid trip hazard (eg base/track extending into circulation area without a fixed unit and creating a trip hazard).

## **4.20 C-S Cupboard with Shelving**

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### **Type:**

- System: A proprietary steel system consisting of shelves, three-way locking device, lever lock and handle.
- Number of shelves: 4

### **Dimensions (nominal)**

- 1842 high x 890 wide x 458mm deep

### **Colour**

- Beige

## **Seating**

## **4.21 Gallery Seating**

GUIDE NOTE: Insert project specific locations. Galleries are not normal provision

Group: Group 1

Location:

### **Type**

- Polypropylene chair shells set on cantilever brackets

- 
- Fixing: Shells 410 mm wide on epoxy powder coated cantilever brackets, drilled for bolting to concrete step risers. Bolt to anchors drilled into concrete.
  - Add chair shell colour and bracket colour - Delete if not required

## Other Fixtures

### 4.22 Rack for Draining, Wall Mounted

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

#### Type:

- A proprietary wall mounted plastic coated metal rack consisting of five rows of single and double pins of varying lengths.
- PVC coating colour: White.
- Pins, Single: Top three rows, protective end cap attached to each pin.
- Pins, Double ("U" Shaped): Bottom two rows.
- Fixing height: 1100 mm from lowest fixing point to floor.
- Fixing: Chrome plated brass screws.

#### Dimension (nominal)

- 585 wide x 610 mm high.

### 4.23 Tray for Glass Tubing

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

#### Type A

- Wall mounted plastic coated metal wire rack capable of holding glass tubing up to 1800mm long.

- 
- Size: 1800 long x 110 wide platform x 40mm upturn around platform (including ends).
  - Wall fixing brackets: Plastic coated, permanently fastened to rack at 900 mm centres
  - Fixing height from floor: 1200 mm measured from underside of rack.
  - Finish: PVC coated, white
  - Spacings between wires: 40 x 40mm (nominal).

OR

#### **Type B**

- Wall mounted: wide PVC perforated quad gutter complete with stop ends and gutter brackets capable of holding glass tubing up to 1800mm long.
- Wall fixing: PVC gutter brackets at 600mm centres to support perforated quad gutter.
- Fixing height from floor: 1200 mm measured from underside of rack (gutter).

#### **Perforations**

- Two evenly spaced staggered rows of perforations in base of gutter
- 10mm diameter
- 100mm centres (each row of perforations).

### **4.24 Projection Screen**

GUIDE NOTE: Refer to NATSPEC Building Template / Worksection - "Retractable projection screens - hanging retractable projection screen."

GUIDE NOTE: Insert project specific locations.

Group: Group 1

Location:

#### **Type**

- Size: 1520 x 1520mm (nominal)
- Fixing Height: 2400 mm

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## 4.25 Art Easels

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:

### Type

- Double sided folding art easel, consisting of two frames hinged at the top.
- Width: 570 mm
- Length: 1800 mm
- Material: Fully galvanised mild steel tube
- Diameter: 19 mm
- Chain: Fixed to back of each shelf to prevent assembly from opening past a pre-determined opening position
- Foot Inserts: Knock in type
  - Polypropylene
- Hinge: Top hinge assembly to allow easel to open in an "A" formation
  - Galvanised mild steel
- Shelves: Adjustable support shelves
  - Galvanised mild steel
  - Number: 2 off
- Fitting: Fit one shelf to each frame
- Adjusting Knobs: Two protruding adjusting knobs to each shelf

## 4.26 Floor Lectern

GUIDE NOTE: Insert project specific locations

Group: Group 1

Location:



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GUIDE NOTE: The floor lectern described below is based on Lectern Australia al200 diplomat model designed for use in schools. Other proprietary floor lecterns that are of a similar construction and comply with the specification requirements described Below may also be acceptable.

### **Type**

- Proprietary floor lectern constructed from square hollow section steel with a black powder coat finish and black MDF flat panels.

## **Standard DOE Furniture Items**

### **Furniture Supply**

Selections and supply of furniture is co-ordinated through the panel of furniture suppliers for office and education environments via “buy.nsw” and the [Office Furniture Scheme](#).

It is the responsibility of the team engaged in the procurement of the furniture supply to comply with the requirements and self-manage in the update of the relevant Office and Education Furniture Contract scheme.

### **Notification**

Within 4 weeks of the date of the letter of acceptance submit to Department of Education the nominated furniture supplier/s furniture order for fixed and/or unfixed items of furniture. The furniture order is to be set out as in a DoE supplied template.

12 weeks before requiring the delivery of the fixed and/or unfixed items of furniture, notify the Department of Education nominated furniture supplier/s in writing of the required delivery date and obtain a written confirmation from the furniture suppliers/s of the delivery date. A copy of the written confirmation is to be given to the Person with Full Authority/Superintendent.

The written notification and confirmation are to include two orders for each block (eg. Block A,B,C as applicable), one order for fixed and one order for loose items of furniture.

### **Delivery and Storage**

Examine the items of furniture upon delivery to ascertain whether they are in conformity with the order and whether they have been damaged in transit. Examine the furniture immediately on delivery and any defect as to quantity or description or damage shall be brought to the notice of the carrier and noted on the document upon which receipt of the furniture reported is acknowledged. Report defects/damages immediately to the

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responsible carrier and also to the Principal's Authorised Person / Principal's Representative.

## **Location**

Position the furniture at the locations shown on the plans or in the schedules hereafter. To facilitate educational flexibility, most items are to be loosely placed to allow rearrangement by the school. Only items specifically listed as fixed are to be fixed in position. Remove packaging/wrapping from all the furniture.

## **Jointing and Finishing**

### **Requirement**

When delivered, except as specified below, the items will be in a finished state and should not require any further finishing on the site, except for stopping of nail holes and touching up to match the general finish, where blemishes occur on site.

### **Finishing**

Where fixed items abut one another, supply, fit and fix fillets or filling pieces at the junctions, finished to match the supplied items.

### **Setting Up**

Set-up all loose shelves, drawers, apparatus, boxes, etc.

### **Services**

Connection to services, where applicable, is specified under the various trade sections.

## **General Fixing Methods**

See specific methods for various items listed in the following subclauses:

### **Masonry Walls**

- Use metal expanding bolts except where otherwise stated for individual items. Do NOT use wooden plugs.
- Do NOT fix into mortar joints.

### **Frames and Sandwich Walls**

Fix into studs wherever possible or fix battens to studs to fasten into.

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## 4.27 Bench Cupboards General

Bench cupboard that do not contain service pipes may be moved by the school. Therefore, all wall and floor finishes behind them must be continuous.

**GUIDE NOTE:** The following installation requirements applies to all bench cupboards unless nominated elsewhere within this section of the Specification Guide

### Installation

- Position bench cupboards (loose and fixed) according to the plans and level up using its adjustable feet provided in bases. After adjusting feet insert cover plugs into holes in the base of the bench cupboard.
- Check and adjust doors where necessary, so that gaps are even all round

### Fixed bench cupboards

- Securely fix to floors and walls so that the fixing method is concealed.
- For bench cupboards requiring service connection/s cut holes appropriate for the service connection/s.
- For units butting together, fit joining sleeves (supplied) to four corners of cupboard ends and tighten so that cupboards butt together neatly. Securely fix bench cupboards to cleats.
- Infill Panels: Cut and fix face panels according to drawings.
- When fixed benches meet in corners matching infill tops are available from the nominated furniture supplier and shall be ordered by the DoE with other furniture items. Fix corner tops through cleats to walls and cupboard ends so that the top surface is level with adjoining tops. (Refer nominated furniture supplier - Furniture Catalogue for the range of infill or loose tops.)
- Base Trim: Close off gaps under bases with thin continuous PVC skirting glued with a water-based glue to bases. The strips must not obstruct the vertical space between bases, which is required for ventilation.
- Fully seal all joints in the vicinity of sink units to prevent percolation of fluids behind, between or into bench cupboards.

**Service Connection:** For bench cupboards requiring service connection/s link up to gas, water and electrical fittings as required. Sinks (except P.A. Trough) are supplied fitted to bench cupboards ready for connection to services.

## Ventilation

- Cupboards enclosing gas services must have adequate cross ventilation to prevent the build-up of gas.

GUIDE NOTE: The following is a specification for standard school furniture items. Some specification information may not be relevant to each school

## 4.28 Library Service Desk - Primary

### Type

- Bench Cupboard, Technology 500 (B-24)
- Bench Cupboard, Technology 500 (B-25)
- Bench Cupboard, Technology 500 (B-20R)

### Installation

- Position bench cupboards according to the plans and level up using its adjustable feet provided in bases.
- Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases.

GUIDE NOTE: Refer to EFSG and insert project specific drawing number

Drawing Reference:

## 4.29 Reception Counter – Primary and Secondary

### Type

- Bench Cupboard, Technology 600 (primary) (B-36R x 2)
- Bench Cupboard, Technology 600 (primary) (B-36L)
- Bench Cupboard, Technology 400 (primary) (B-33)
- Bench Cupboard, Technology 600 (secondary) (B-34)
- Bench Cupboard, Technology 600 (secondary) (B-36R)

### Installation

- Position bench cupboards according to the plans and level up using its adjustable feet provided in bases.

- Drawer lock: Provide drawer lock to all top drawers
- Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases.

GUIDE NOTE: Refer to EFSG and Insert project specific drawing number

Drawing Reference:

## 4.30 Fixing Details for Bench Cupboards – Technology Range

### Type

- Bench Cupboard, Computer 400 LH/RH Door (B-19L/R)
- Bench Cupboard, Tech. 500 (B-20L/R)
- Bench Cupboard, Tech. 1000 (B-21)
- Bench Cupboard, Tech. 1000 Shallow Depth (B-22)
- Bench Cupboard, Tech. LH/RH Panel, Corner Unit 1000 (B-23L/R)
- Bench Cupboard, Tech. 500, 4 Drawers (B-24)
- Bench Cupboard, Tech. 500 (B-25)
- Bench Cupboard, Tech. 500, 2 Drawer and pot Drawer (B-26)
- Bench Cupboard, Tech. 300, LH/RH Door (B-27L/R)
- Bench Cupboard, Tech. 300 Shallow depth LH/RH (B-28L/R)
- Bench Cupboard, Tech. 400, LH/RH Door (B-29L/R)
- Bench Cupboard, Tech. 400. Shallow Depth LH/RH Door (B-30L/R)
- Bench Cupboard, Tech. 500, Shallow Depth LH/RH Door (B-43L/R)
- Bench Cupboard, Tech. 850, RH Panel, Corner Unit, Shallow (B-44L/R)
- Bench Cupboard, Tech. 1000, RH Panel, Corner Unit, Shallow (B-46L/R)
- Bench Cupboard, Tech. 500 (PA), LH/RH Door (B-112L/R)
- Bench Cupboard, Tech. 500 Open Shelf (PA) (B-113)
- Bench Cupboard, Tech. 1000 Corner Unit (PA) (B-114L/R)
- Bench Cupboard, Tech. 1000 (PA), 2 Door (B-117)

### Installation

- Position bench cupboards according to the plans and level up using its adjustable feet provided in bases.

- 
- Fit cleats to the floor as required and level up units using adjustable feet provided in bases.
  - For bench cupboards requiring service connection/s cut holes appropriate for the service connection/s.
  - For units butting together, fit joining sleeves (supplied) to four corners of cupboard ends and tighten so that cupboards butt together neatly. Securely fix bench cupboards to cleats.
  - Backcover Panel, Technology (BP-01 to BP-04 incl.): Where bench cupboards do not have a wall or other surfaces to act as a backing, install the appropriate backcover panel to the back of the bench cupboard.
  - Install spacer blocks provided to corner units (B-23L/R)
  - Infill Panels: Cut and fix face panels according to drawings
  - Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases. The strips must not obstruct the vertical space between bases, which is required for ventilation.

### **Service Connection**

- For bench cupboards requiring service connection/s link up to gas, water and electrical fittings as required.

## **4.31 Bench Tops**

### **Type**

- Top, Bench Technology (M-73)
- Top, Bench Technology (M-75)
- Top, Bench Technology (M-76)
- Top, Bench Technology (M-77)
- Top, Bench Technology (M-78)
- Top, Bench Technology (M-79)
- Top, Bench Technology (M-80)
- Top, Bench Technology (M-81)
- Top, Bench Technology (M-82)
- Top, Bench Technology (M-83)
- Top, Bench Technology (M-84)
- Top, Bench Technology (M-85)

- Top, Bench Technology (M-86)
- Top, Bench Technology (M-87)
- Top, Bench Technology (M-89)
- Top, Bench Technology (M-91)
- Top, Bench Technology (M-93)
- Top, Bench Technology (M-95)
- Top, Bench Technology (M-99)
- Top, Bench Technology (M-100)
- Top, Bench Technology (M-204)

### **Installation**

- Position bench tops according to the plans.
- If required, cut and fit bench tops to length, ensuring where possible there are no joins in bench tops over trough/sink units.
- If applicable cut hole in bench top units for trough/sink and install trough/sink. Trough/sinks to be located centrally over trough/sink unit carcass and connect to waste.
- Install tapware fittings and gas turrets as required.
- Cut and fix corner and end infill tops.
- Secure to carcasses by screwing up through front and back blades of each bench unit and through span support brackets.
- Support bracket: All bench top spans to be supported by a 50 x 50 x 5 mm (min.) galvanised MS angle securely fixed to wall and bench top. All overhangs to be similarly supported or by an appropriate method to prevent deflection.

**GUIDE NOTE:** Maximum span not to exceed 1500mm

- Fully seal joint between abutting tops and where tops meet the wall with a matching suitable sealant. Beads between tops must be smooth and finish flush with surface.

## **4.32 Benches**

### **Type A**

- Bench, Science Practical Low (Sp-47)

### **Installation**

- Position bench tops according to the plans.

- 
- Assemble the cupboard carcass to frame
  - Fix the adjustable leg fixing plates to floor
  - Position bench over services at the correct height. Cut holes appropriate for service connection, level and securely fix adjustable bench legs with locking bolts

### **Service Connection**

- To be linked up to gas, water, waste and electrical fittings as required

### **Type B**

- Bench, Height Adjustable (front wind), Kitchen (Sp-49)

### **Installation**

- Position bench tops according to the plans.
- Fix the adjustable leg fixing plates to floor and install bench
- Position bench at correct height, level and securely fix adjustable bench legs with locking bolts

### **Type C**

- Bench, Height Adjustable (front wind), Wood/Metal (Sp-50)

### **Installation**

- Position bench tops according to the plans.
- Fix the adjustable leg fixing plates to floor and install bench
- Position bench at correct height, level and securely fix adjustable bench legs with locking bolts

### **Type D**

- Bench, Science, Preparation (B-500)

### **Description**

- B-500 consists of a combination of the following units
  - B-20 x 4
  - B-24 x 4
  - BP-03 x 2
  - M-99 x 2

### **Installation**

- Position bench tops according to the plans.



- 
- Fit cleats to the floor as required and level up units using adjustable feet provided in bases
  - Fit joining sleeves (supplied) to four corners of cupboard ends and tighten so that cupboards butt together neatly. Securely fix bench cupboards to cleats.
  - Install backcover panels to the back of the bench cupboard units (each set of units).
  - Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases. The strips must not obstruct the vertical space between bases, which is required for ventilation.
  - Position bench tops (M-99 x 2) on top of bench cupboards according to the plans
    - If required, fit bench tops
  - Secure to carcasses by screwing up through front and back blades of each bench unit.

### **Type E**

- Bench, Demonstration, Food technology (B-45)

### **Description**

- B-45 consists of a combination of the following units
  - B-20 x 1
  - B-21 x 1
  - B-25 x 1
  - B-26 x 1
  - BP-04 x 1
  - M-97 x 1

### **Installation**

- Position bench tops according to the plans.
- Fit cleats to the floor as required and level up units using adjustable feet provided in bases
- Fit joining sleeves (supplied) to four corners of cupboard ends and tighten so that cupboards butt together neatly. Securely fix bench cupboards to cleats.
- Install backcover panel to the back of the bench cupboard units (set of units).
- Cut holes appropriate for the power connection/s.
- Link up to electrical fittings as required.
- Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases. The strips must not obstruct the vertical space between bases, which is required for ventilation.
- Position bench top (M-97) on top of bench cupboards according to the plans.

- 
- Secure to carcasses by screwing up through front and back blades of each bench unit.
  - Cut hole in bench top for cook top.
  - Link up to gas fittings as required and install cook top.

### **Type F**

- Bench, Island, Food technology (B-90)

### **Description**

- B-90 consists of a combination of the following units
  - B-20 x 2
  - B-21 x 2
  - B-25 x 2
  - B-26 x 2
  - M-98 x 1

### **Installation**

- Position bench tops according to the plans.
- Fit adjustable feet to the floor as required and level up units using adjustable feet provided in bases
- Fit joining sleeves (supplied) to four corners of cupboard ends and tighten so that cupboards butt together neatly. Securely fix bench cupboards to cleats.
- Cut holes appropriate for the power connection/s.
- Link up to electrical fittings as required.
- Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases. The strips must not obstruct the vertical space between bases, which is required for ventilation.
- Position bench top (M-98) on top of bench cupboards according to the plans.
- Secure to carcasses by screwing up through front and back blades of each bench unit.

### **Type G**

- Top, Bench Utility, Wall Mounted (T-250)
- Top, Bench Utility, Wall Mounted (T-254)
- Top, Bench Utility, Wall Mounted (T-256)
- Top, Bench Utility, Wall Mounted (T-260)

- 
- Top, Bench Utility, Wall Mounted (T-267)
  - Top, Bench Utility, Wall Mounted (T-269)
  - Top, Bench Utility, Wall Mounted (T-270)
  - Top, Bench Utility, Wall Mounted (T-271)
  - Top, Bench Utility, Wall Mounted (T-272)

## **Installation**

- Position bench tops according to the plans.
- Support Frame:
  - Timber batten (if required): Install timber batten (50 x 25mm nominal) to wall at the appropriate height and length to support frame and bench top
  - Fix adjustable leg fixing plates to floor, install frame and level up using adjustable leg fixing plates.
- Bench tops
  - If required, cut and fit bench tops to length
  - Join bench top sections over support frame
  - Secure to frame by screwing up through front and back of each support frame.
  - If applicable, Install cable management trays. Cable access caps to be drilled and fitted at approx. 1200 mm centres
  - Sealing: Fully seal joint between abutting tops and where tops meet the wall with a matching suitable sealant. Beads between tops must be smooth and finish flush with surface.

## **4.33 Darkroom Trough**

### **Type**

- Darkroom Trough with Bench Support (B-70)

### **Installation**

- Position bench tops according to the plans.
- Cut holes if required for service connections
- Install special tapware provided
- Link up to water including mixing valves and waste fittings
- Install trough on top of cupboard. Fix trough through hobs at each end in accordance with manufactures instructions
- Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases. The strips must not obstruct the vertical space between bases, which is required for ventilation.

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## 4.34 Student Lockers

### Type

- 2 door, low (L-02)
- 4 door (HB-1)

### Installation

- Position bench cupboards according to the plans and level up units.
- Install lockers as indicated on drawings and securely fix to wall.

## 4.35 Fixing Details for Science Bench Cupboards and Science Demonstration Bench

### Type

- Bench Cupboard, 1200, Science, R.H. Sink (B-04)
- Bench Cupboard, Science, Practical, w/Sink (B-06)
- Bench Cupboard, Science, Practical, RH/LH Sink (B-06 L/R)
- Bench, Demonstration, Science (B-48)

### Installation

- Position bench cupboards/demonstration over services, according to the plan. Cut holes appropriate for service connection (if required), fit cleats to the floor and level up units using adjustable feet provided in bases. For units which butt together, fit joining sleeves (supplied) to four corners of cupboard ends and tighten so that cupboards butt together neatly. Securely fix bench cupboards to cleats mounted on the floor.
- Service Connection: Power may be drawn through base for GPO's to be fitted to end of B-06. Bench cupboards/Demonstration are to be linked up to gas, water and electrical fittings as required.
- Infill Panels: Cut and fix corner and end infill tops and face panels according to drawings.
- Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases. The strips must not obstruct the vertical space between bases, which is required for ventilation.
- Sealing: Fully seal joint between abutting tops and where tops meet the wall with a matching suitable sealant. Beads between tops must be smooth and finish flush with surface.

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## 4.36 Fixing Details for Bench Cupboards

### Type

- Bench Cupboard (B-00)
- Bench Cupboard, 1200, Science, R.H. Sink (B-05)
- Bench Cupboard, RH Sink (B-05)
- Bench Cupboard, RH Sink (White top) (B-08)
- Bench Cupboard, RH Sink (B-080S)

### Installation

- If service connections are required position bench cupboards over services, according to the plan. Cut holes appropriate for service connection.
- Fit cleats to the floor and level up units using adjustable feet provided in bases. For units which butt together, fit joining sleeves (supplied) to four corners of cupboard ends and tighten so that cupboards butt together neatly. Securely fix bench cupboards to cleats mounted on the floor.
- Service Connection: Bench cupboards are to be linked to water fittings as required.
- Infill Panels: Cut and fix corner and end infill tops and face panels according to drawings.
- Base Trim: Close off gaps under bases with thin continuous PVC skirting glued to bases. The strips must not obstruct the vertical space between bases, which is required for ventilation.
- Sealing: Fully seal joint between abutting tops and where tops meet the wall with a matching suitable sealant. Beads between tops must be smooth and finish flush with surface.

## 4.37 Work Benches

### Type (Woodwork)

- Bench Woodwork, 2 station (B-78)
- Bench Woodwork, 4 station (B-xx)

### Installation

- The Woodwork Bench is dispatched fully assembled, including vices.
- Position benches in room according to the plans.

### Type (Metalwork)

- Bench Metalwork, 2 station (B-79)

- 
- Bench Metalwork, 4 station (B-78)

### **Installation**

- The Metalwork Bench is dispatched fully assembled, except for two (2) metalwork vices.
- The metalwork vices, including fixing bolts, nuts, screws and washers are packed in separate cartons for dispatch.
- Metalwork vices must be mounted on benchtop directly above fixed panel on each side of bench. Use vice base as template to mark mounting hole positions, drill holes and fit vices using bolts and washers (supplied with vices).
- Position benches in room according to the plans.

### **Type (Technical Drawing)**

- Bench Technical Drawing / Multi Purpose (B-85)

### **Installation**

- The Technical Drawing Bench is dispatched fully assembled, including top and fixed shelf.
- Position benches in room according to the plans.

### **Type (Demonstration)**

- Bench Workshop Demonstration (B-86)

### **Installation**

- The Workshop Demonstration Bench is dispatched as three separate items, these are:
  - Bench Frame with pedestals fitted
  - Bench Top with woodwork vice fitted
  - Metalwork vice complete with fixing bolts and screws
- The final fitting of bench top and metal work vice is to be carried out on site
- Fix metalwork vice approximately centrally over open bench area, position so that handle of vice does not foul top drawer. Use vice base as template to mark mounting hole positions, drill holes and fit vice using bolts and washers (supplied with vice).
- Position benches in room according to the plans

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## 4.38 Positioning and Fixing Cupboards

### Type

- Cupboard, 900, Chalkboard, Storage Wall (C-05)
- Cupboard, 900, Pin Board, Storage Wall (C-06)
- Cupboard, 900, White Board, Storage Wall (C-07)

### Installation

- Position cupboard units according to the plans and level up using adjustable feet provided. Abutting units to be aligned and fixed together in six (6) places through pre-drilled holes in cupboard ends using sleeve screws supplied.
- Where required to be fixed, anchor units to wall through the back, close to top corners, or by an angle bracket fixed to the wall and the cupboard tops.
- For anchoring unit to brick walls, use M5 expanding type bolts of suitable length. Do NOT fix in mortar joints. For timber walls use suitable length No. 12 (12g) screws and washers.
- Adjust catches and hinges where necessary.

## 4.39 Fixing Cabinets

### Type

- Floor mounted

### Installation

- Cabinets may be moved by the school. Therefore, all wall and floor finishes behind them shall be continuous.
- Place cabinets (loose and fixed) in position and level up using adjustable feet provided in the bases, fixed cabinets are to be securely fixed to floor and/or walls.
- Where floors are uneven, close off gaps under bases of fixed cabinets with PVC skirting or thin cover strips finished to match bases. Cover vertical spaces between bases unless otherwise specified.
- When fixed cabinets meet in corners, matching infill tops are available from the Furniture Supplier and must be ordered with other furniture items. Fix corner tops through cleats to walls and cabinet ends so that the top surface is level with adjoining tops. (Refer to the Furniture Supplier's Furniture Catalogue for the range of infill or loose tops.)

### Type

- Cabinet, Pigeon Hole (C-26)

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## **Installation**

- Can be bench or wall mounted, vertically or horizontally, with wall fixing one or two high.
- Arrange as indicated on the plans.
- Wall mounting height for single items is generally 1350 mm to underside from floor.
- Fix through back of cabinet in four corners.
- For brick walls use M5 expanding type bolts of a suitable length.
- For timber walls use appropriate length No.10 (10g) screws with washers.

## **Type**

- Cabinet, Wall Glass Doors (C-27)

## **Installation**

- Position and fix units plumb on wall with underside of cabinet 1350 mm above floor, unless otherwise stated.
- Fix aluminium angle (provided) to the appropriate height, rest case on angle and fix cabinet at top in two (2) places through back. Screw case to bottom angle through pre-drilled holes using No. 8 (8g) x 15 mm round head screws.
- For brick walls use M4 expanding type bolts of suitable lengths.
- For timber walls use appropriate length No.10 (10g) screws (with washers for fixing through back).

## **Type**

- Cabinet, Tool (C-31)

## **Installation**

- Tool cabinets may be wall mounted individually or two high.
- Arrange as indicated on the plans, and fix plumb on walls, with mounting height for single items generally 1950 mm from top of item to finished floor level.
- Unscrew aluminium angle (fitted to underside of cabinet for transportation) and fix to wall at appropriate height. Rest cabinet on aluminium angle and fix cabinet to wall at top in two (2) places through metal brackets at top corners of back. Screw case to bottom angle through pre-drilled holes using No.10 (10 gauge) x 15 mm round head screws.
- For brick walls use M6 expanding type bolts, of appropriate length. Do NOT fix in mortar joints. For timber walls use suitable length No. 12 (12g) round head screws



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## Type

- Cabinet, Bag Storage (C-35)

## Installation

- Position cabinet/s according to the plans and level up using adjustable feet provided. Abutting units to be aligned and fixed together through pre-drilled holes in cupboard ends using sleeve screws supplied.
- Where required, units may be anchored to wall either through back, close to top corners, or by means of an angle bracket fixed to the wall and the cupboard tops.
- For anchoring unit to brick walls, use M5 expanding type bolts of suitable length. Do NOT fix in mortar joints. For timber walls use suitable length No. 12 (12g) screws and washers.

## Type

- Cabinet, Storage Cupboard (for B-80)

## Installation

- Can be bench or wall mounted, vertically or horizontally, with wall fixing one or two high. Arrange as indicated on the plans.
- Wall mounting height for single items is generally 1350 mm to underside from floor.
- Fix through back of cabinet in four corners.
- For brick walls use M5 expanding type bolts of a suitable length. For timber walls use appropriate length No.10 (10g) screws with washers.

## Type

- Overhead Cupboard, Technology - Double Door Overhead Unit (CW-08)
- Overhead Cupboard, Technology – Shelf Open (CW-03)
- Overhead Cupboard, Technology – Shelf Open
- Overhead Cupboard, Technology - Single Door Overhead Units

## Installation

- Position and fix units level and plumb on wall 1350mm above floor, unless otherwise stated.
- Securely fix to wall through back of units with a minimum of six fasteners (one in each corner and in the centre top and bottom).
- Fixing to building structure: Provide non-corrosive/compatible screws and washers for fixing into timber or steel framing, or masonry anchors.

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## 4.40 Display Items

### Type

- Display Case, with Shelves (D-00)
- Display Case, 1750, Pin-Up (D-01)

### Installation

- Fix units plumb on wall with the top level with standard door height (approx 2030 mm).
- Fix bottom aluminium angle to wall in four (4) places, rest case on angle and fix top of case through aluminium "T" section in four (4) places. Screw case to bottom angle through pre-drilled holes with No.10 (10g) x 15 mm CSK head screws.
- For brick walls use M5 expanding type bolts, of appropriate length. Do NOT fix in mortar joints. For timber walls use suitable length No. 12 (12g) round head screws.

### Type

- Display Panel, 1200 x 900 (D-10 and D-05)
- Display Panel, 1800 x 900 (D-11 and D-06)
- Display Panel, with Frame 1800 x 900 (D-06)

### Installation

- Position and fix panels plumb on the wall, either horizontally or vertically as specified on the plans. Display Panels may be used individually or butted together to form continuous runs. The top panels should generally be level with standard door height (approx 2030 mm) or aligned with chalkboards unless otherwise specified.
- Screw fix through panel not more than 50 mm in from edge. For fixing into brick walls use nylon plugs and suitable length No. 8 (8g) CSK head wood screws (without cup washers). Use similar screws for timber walls, alternatively a nail-in type plug of suitable length may be used for brick walls.
- Display Panel, 1800 x 900 (D-10 and D-05); screw fix in 6 places
- Display Panel, 1200 x 900 (D-11 and D-06); screw fix in 4 places.

## 4.41 Chalkboards and Markerboards

### Type

- Chalkboard, 2400 x 1200 (Bo-00)
- Chalkboard, 1200 x 1200 (Bo-04)

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## Installation

- Position and fix units plumb on the walls specified in the plans, with top of board at standard door height (approx 2030 mm).
- Fit chalkrail to board (if packaged separately for transportation) through pre-drilled holes with No. 8 (8g) x 20 mm long round head wood screws.
- Fix board through aluminium "J" rail at top and through down turn of aluminium chalkrail at bottom. For brick walls use M5 expanding type bolts of suitable lengths. Fix into timber walls using No. 12 (12g) round head wood screws of suitable lengths.
- Chalkboard, 2400 x 1200 (Bo-01); fix in 4 places top and bottom.
- Chalkboard, 1200 x 1200 (Bo-04); fix in 3 places top and bottom.

## Type

- Whiteboard, 1200 x 1200 (Bo-19)
- Whiteboard, 1800 x 900 (Bo-20)
- Whiteboard, 2400 x 1200 (Bo-25)

## Installation

- Fix item plumb on wall with top of board at 1950 mm above finished floor level. White Marker Board, 1200 x 1200 (Bo-19) to be fixed to wall besides chalkboards at same height (approx 2030 mm).
- When required, fix penrail using hardware provided. Fix to wall through eyelet lugs (if provided), or through aluminium frame in three places top and bottom.
- For brick walls use M5 expanding type bolts of suitable lengths. For timber walls use No.10 (10g) round head screws of suitable length.

## Type

- Whiteboard, Term Planner, 1200 x 1500 (Bo-27)

## Installation

- Fix item plumb on wall with top of board at same height as adjacent White Marker Board, Bo-19 or Display Panel unless otherwise specified.
- When required, fix penrail using hardware provided. Fix to wall through eyelet lugs (if provided), or through aluminium frame in three places top and bottom.
- For brick walls use M5 expanding type bolts of suitable lengths.

## Type

- Whiteboard, Music, 1800 x 1200 (L x H) (Bo-24)

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## **Installation**

- Fix item plumb on wall with top of board at same height as adjacent White Marker Board (1950mm above finished floor level) unless otherwise specified.
- Fix penrail using hardware provided. Fix to wall through eyelet lugs (if provided), or through aluminium frame in three places top and bottom.
- For masonry walls use M5 expanding type bolts of suitable lengths

## **4.42 Privacy Panels**

### **Type**

- Post (Privacy Panel) Floor to Ceiling (CP-00)

### **Installation**

- Install privacy panel post/s (CP-00) in position indicated on drawings.
- Floor Fixing: Heavy duty floor fixing bracket securely screwed fixed to floor. Screw fix screen to outside of posts.
- Refer to drawing:
- Ceiling Fixing: Heavy duty fixing bracket securely screwed fixed to ceiling supports. Steel tube to hold posts to be welded to flange fixing plate. Refer to drawing >.

Note: Floor and ceiling fixing brackets for the privacy panel posts to be supplied and installed by the building contractor.

### **Type**

- Privacy Panel, Fabric 2 sides, 1500L x 1500H (WP-08)
- Privacy Panel, Fabric 2 sides, 1800L x 1500H (WP-09)
- Privacy Panel, Fabric 2 sides, 2400L x 1500H (WP-10)

### **Installation**

- Install privacy panels in position indicated on drawings.

## **4.43 Fixing Shelving**

### **Type**

- LS- type shelving

### **Installation**

- Metal shelves are to be clipped together with their respective brackets and fitted to slots in wall strips in locations shown on the plans

- Wall Stripping (LS-032, LS-033, LS-042, LS-072, LS-082, LS-112 LS-122 and LS-172)
- Installation: Position and fix wall stripping plumb on walls according to the plans. Wall strips are to be fixed 150 mm above finished floor level unless otherwise shown. Fix securely to wall through countersunk holes provided in strips.

#### Fixing, General

- When fixing to brick wall use an expanding type proprietary masonry anchor of an appropriate length and diameter to achieve secure fixing.
- For continuous runs of shelving on timber stud walls, fixing battens should be provided at correct heights behind the lining material. Where battens are not provided and studs do not coincide with spacing, timber mounting strips may be fixed to wall surface finished to match wall. For sandwich walls a timber mounting strip may be fitted vertically, fixed to studs at top and bottom of wall and in the centre with a cavity fixing device.

### 4.44 Fixing, Lecture Seating

#### Type

- Seat, Lecture
- S-95 – Left hand tablet
- S-96 – Right hand tablet

#### Installation

- Position seats as shown on plan/s
- Plumb each seat support and bolt securely to floor with fixings through pre-drilled holes in seat pedestal base. Use expanding masonry metal anchors for fixing into concrete, coach screws or bolts into timber and bolts into metal, all fasteners to be corrosion resistant and metal compatible.

### 4.45 Workstations

#### Type

GUIDE NOTE: Refer to NATSPEC Building Template / Worksection - workstations. Delete applicable workstations clauses / subclauses nominated in NATSPEC Building Template / Worksection and include the following:

- Workstations scheduled within the tender documents are to be installed by the contractor.

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## Installation

- Assemble and install each applicable workstation system in its required location, by means such that fixings concealed; and the components of the system may be demounted and reassembled using standard hand tools, Installation instructions and special tools supplied as part of the system.

## Serviced Equipment

- Where equipment requiring connection to power, data, telephone or the like services is shown on the Drawings or specified to be installed as part of the workstation system make the necessary connections to the appropriate building service systems.
- Keyboard Supports: Where keyboard supports are required fit the keyboard support section of the computer equipment with a mechanism capable of being operated by a seated person to raise and lower the keyboard above or below the level of the work surface

## 4.46 Miscellaneous Items

### Type

- Pegboard Panel (M-02)

GUIDE NOTE: Insert project specific locations

Location:

### Installation

- Fix plumb on wall with top of panel at standard door height (approx. 2030 mm).
- Position long side horizontally unless specified otherwise on the plans
- Fix through corners of panel 20 mm in from edges
- For brick walls use M5 expanding type bolts of an appropriate length. For timber walls use suitable length No.10 (10g) screws and washers

### Type

- Rack, Coat Hooks (M-14) (10/92)

GUIDE NOTE: Insert project specific locations

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Location:

### Installation

- Position and fix unit plumb on the walls to a height of 1200mm from the top of the top horizontal bar to circulation walkway surface.
- Fix securely through units mounting plates to a masonry wall with expanding compatible metal masonry anchors. In framed wall construction, provide extra fixing noggings at correct height to allow secure fixing of rack

### Type

- Rack, Bag Hooks (M-15)

GUIDE NOTE: Insert project specific locations

Location:

### Installation

- Position hook rows on walls as shown on drawings.
- Level/plumb each rack and securely fix through each mounting plate to a masonry wall with expanding compatible metal masonry anchors. In framed wall construction, provide extra fixing noggings at correct height to allow secure fixing of rack.

## Items Installed Near Completion

### 4.47 Workstations (SW and TW Types)

GUIDE NOTE: Delete contract types not applicable

#### D.D & C and D & C Contracts (GC21)

- General: After completion the Department of Education will supply and install all workstations with the “SW” and “TW” prefixes scheduled under “Furniture” in the Schools Facilities Standards.
- For this work the Principal may use Clause COMPLETION – EARLY USE.
- For other types of workstations refer to section **4.45 WORKSTATIONS** above.

GUIDE NOTE: Construct only contracts: Do not schedule workstations with the “SW” and “TW” prefixes (scheduled under “furniture” in the Educational Facilities Standards and Guidelines) within the tender documents. Refer to section **4.45 WORKSTATIONS** above.

### Construct Only Contracts (GC21)

- General: After completion the Department of Education will supply and install all workstations with the “SW” and “TW” prefixes. For this work the Principal may use Clause COMPLETION – EARLY USE.
- For other types of workstations refer to section **4.45 WORKSTATIONS** above.

### Minor Works contracts

- General: After completion the Department of Education will supply and install workstations with the “SW” and “TW” prefixes.
- For other types of workstations refer to section **4.45 WORKSTATIONS** above.

### Notification

- Requirement: 12 weeks (minimum) prior to completion a written notification must be given to the Department of Education’ nominated furniture supplier/s notifying them of the intended completion date. A copy of the written confirmation must also be given to the Principal’s Authorised Person / Principal’s Representative.

## Furniture Schedule

GUIDE NOTE: Create a job specific furniture and equipment schedule indicating which furniture or equipment items are Group 1, Group 2 or Group 3. Liaise with DoE project manager to determine group status of items.

**Table 03: Furniture Schedule**

| Item                          | Group | Comment  |
|-------------------------------|-------|--|
| Stage Curtains and Tracks     | 1     | GUIDE NOTE: e.g. Location or “refer to drawings” |
| Stage Type Curtains           | 1     |  |
| Track for Stage Type Curtains | 1     |  |



| Item                               | Group | Comment |
|------------------------------------|-------|---------|
| Curtain and track for shower areas | 1     |         |
| Welding Curtain                    | 1     |         |
| Curtain for light trap             | 1     |         |
| Curtain for Fitting Area           | 1     |         |
| Curtains over Mirror               | 1     |         |
| Curtains to Finishing Area         | 1     |         |
| Containers, Bins and Cabinets      | 1     |         |
| Letter Box                         | 1     |         |
| Shelf Units                        | 1     |         |
| Office shelving systems            | 1     |         |
| Mobile shelving                    | 1     |         |
| Workstations                       | 1     |         |
| Seating                            | 1     |         |