
15.00 Fitments

15.01 Generally

Joinery fixtures and other fittings shall generally be outlined for each space on the SDFs. This Section outlines the **mandatory** requirements for particular spaces. If these requirements do not appear in an SDF or on a Standard Drawing, then the requirement shall be checked with CLF prior to finalising the design documentation.

15.02 Whiteboards & Pinboards

All Whiteboards and Pinboards shall be 1000mm high unless noted otherwise.

Whiteboards shall be of sandwich panel construction comprising a white vitreous porcelain finished steel face sheet on a 13mm 'Caneite' core with a galvanised steel backing sheet, and shall have a full clear anodised aluminium perimeter trim with a pen rail full width along bottom edge.

Whiteboards to teaching walls shall be located to allow simultaneous projection onto the wall surface or a screen when used.

Pinboards shall be 6mm 'Krommenie' composition board bonded onto 8mm particle board backing, and shall have a full clear anodised aluminium perimeter trim. The colour of the 'Krommenie' board shall be agreed with CLF.

All boards shall have concealed, secure fixings, either 'Ramset Hollow Wall' or 'Hilti Cavity' anchors, or screw fixed direct to studs. 'Wall Mate' fixings to wall linings and plastic inserts to cover any screws shall **not** be used.

Where Pinboards other than Noteboards are nominated as required externally to room entry doors, consideration must be given to the location of Room signage so that no conflict occurs.

Faculty/Admin Offices/Meeting Rooms:	Pinboard 1200mm long. Whiteboard 1200mm long. Noteboard 600mm x 400mm high outside adjacent to room entry door frame and mounted at 1350mm from the floor to the bottom edge of the board
Lecture Theatres/Seminar Rooms/ Computer Teaching:	Matte Finish whiteboard with no joints to maximum width of front teaching wall subject to projection requirements. Pinboard 1200mm long outside adjacent to room entry door
Laboratories:	Whiteboards and pinboards to size and numbers as stated in the SDFs. Pinboard 1200mm long outside adjacent to room entry door
Common Rooms:	Pinboards to available walls internally and 1200mm long externally adjacent to room entry door
General Offices:	Whiteboards and pinboards internally as stated on the SDFs. Pinboard 1200mm long outside adjacent to room entry door
Lift Lobbies:	Pinboard 1200mm long (position to be agreed with OFM)

Group Study Room (Learning Centre):	Whiteboard 1200mm long Pinboard 1200mm long
Computer Work Area (Learning Centre):	Pinboard 2100mm long in vicinity of main entry Pinboard 1200mm long at or near the printers
Other Occupied Areas:	Noteboard 600mm x 400mm high outside room entry door adjacent to the door frame and mounted at 1350mm from the floor to the bottom edge of the board

15.03 Bookshelves

Particular requirements for bookshelves throughout the building shall be as set out in the SDFs. The minimum quantity of shelving to each faculty office shall be 24m unless noted otherwise and shall be fully adjustable.

Unless nominated otherwise in the SDFs, shelving shall be white melamine finished Craftwood with glued edge strips all round, 300mm wide and supported on a white prefinished 'U-rect-it' keyhole strip and bracket system.

Shelving to PVC or Head of School offices shall be Tasmanian Oak veneer finish.

No other colour of shelving or support components are to be specified unless approved by the Superintendent.

Keyhole stripping shall be fixed to walls and partitions at 600mm max centres to coincide with studs with countersunk screws, or 'Ramset' or 'Hilti' anchor fixings to masonry walls. 'Wall Mate' fixings are not to be used.

Shelving on walls adjacent to windows shall be terminated at least 200mm from the window.

Where freestanding 'bookcase' shelving units are nominated in the SDFs, the Consultant or Contractor must confirm with OFM whether these units are to be provided under the Contract or as a furniture item by GU.

15.04 Notice Boards

All notice boards are to be included in the Contract in accordance with GU Standard Detail Drawing No. GSD-404. Allow to provide a minimum of one lockable noticeboard not less than 3m in length to each reception/general office area or foyer.

'Charles Tims Series 16 Deluxe' is an acceptable propriety noticeboard.

15.05 Projection Screens

Where the length of the teaching wall in Seminar Rooms and other teaching spaces does not allow sufficient space for projection direct onto the wall surface, provide and install a retractable projection screen with torsion bar in a location which does not impede concurrent use with the Whiteboard. Ensure that the screen clears the Whiteboard pen tray when lowered.

The screen type shall be equal to 'DaLite Deluxe Model B' video format (4:3) with a matte white finish. Install the screen with the canister as close as possible to the ceiling strictly in accordance with the manufacturer's printed instructions.

The screen size and location shall be confirmed with CLF and LES.

15.06 Built-in Joinery Generally

Built-in joinery units such as cupboards and laboratory benches shall be provided as noted on the SDFs.

Details shall be determined in conjunction with CLF, and GU Standard Detail Drawings shall be used as a guide only.

All built-in furniture units shall have a recessed base finished in satin black laminate.

Where abutting walls, provide an integral splashback not less than 150mm high, sealed to the wall.

All cupboards and drawer units shall be lockable and master keyed (not keyed alike).

Where a timber finish is selected for built-in furniture, a graded Tasmanian Oak timber veneer or a Beech melamine finish shall be used. All other built-in cupboards, benches, etc. shall have a durable coloured laminated plastic finish of colours to be approved by the Users. The use of White laminate on bench tops is discouraged.

15.07 Lecture Theatres

Lecture theatres shall be fitted out with all benches, desks, lecterns and fixed seating as required by the SDFs.

Seating - Fixed seating with tablet arms shall be equal to 'Fagaleo Studia' series with 'Wrimatic' tablet arm with upholstered seat and back pads. The selection of seat type is to be approved by OFM.

People with disabilities - Provision shall be made to accommodate people with disabilities by provision of spaces for wheelchairs with writing benches which are designed in accordance with the Australian Standard. The location of these spaces should be distributed around the Theatre and not only located at either the front or the rear.

Teaching station – A fixed Lectern/control console unit shall be provided on one side at the teaching wall. The design and position of the lectern shall be approved by LES. This unit shall house the equipment racks for the AV system.

Data Projector Support – Provide the necessary structural support in the ceiling and necessary mounting below the ceiling to safely support and mount video/data projectors that may weigh up to 120kg each depending on the make and model. Refer to GU Standard Detail Drawing Nos. GSD-501 & GSD-507.

The location of the support will be determined by the required screen size and the make and model of video/data projector to be installed.

15.08 Seminar and Computer Teaching Rooms

Where the SDF nominates the space is fitted with Data Projection, a suitable fixed joinery unit to house the AMX console based on the Lecture Theatre teaching station shall be provided on one side at the front teaching wall.

When the SDF does not nominate Data Projection to a Seminar Room, a VCR/DVD & Monitor floor pedestal as supplied by 'Strongabuilt' shall be provided at a corner of the front teaching wall. The VCR/DVD & Monitor mounting pedestal will have inbuilt security and be as specified by the University.

A Data Projector mounting plate shall be provided if required in accordance with GU Standard Detail Drawing Nos. GSD-501 & GSD-507, including any additional support structure necessary.

15.09 Video Conferencing Rooms

The design of the fitments in video conferencing room shall depend on the technology and equipment to be used, the shape of the room and the number of persons to have active participation in the conference.

All the above shall be nominated by INS/LES, and the design of joinery units shall be to their approval. The SDFs shall nominate to joinery to be provided under the contract.

If Data Projectors are to be used in lieu of flat screen monitors, then one wall of the room will be required for projection.

15.10 Learning Centres

Refer to [Section 2.00 Planning & Design Controls](#) for more information regarding the layout of Learning Centres.

Benching Generally – Computer benches shall generally be 800mm min. deep x 730mm high above floor level and shall include cable ducts, cable tidies and enclosures for CPUs mounted on top of or below the bench top. CPU enclosures shall be complete with a removable stainless steel locking bar to secure the CPU.

Adjustable tables or benches shall be provided for use by people with wheelchairs. Table or bench tops shall be easily adjustable from 700mm to 900mm above floor level.

Allow 1 metre of bench per student position and 1.2 metres for each adjustable height work position.

CLF must be consulted on the design of the benches, the size and location of the CPU enclosures and the detail of the security bar.

Open Access Computer Area – Fixed computer benching for a minimum of 50 No. desk top computers shall be provided. The layout of the benching shall be non-formal and intended for casual use by students.

Fixed benching or tables should also be provided to provide stations for casual work without computers or for the use of lap-top computers.

Provide four (4) adjustable height wheelchair accessible work benches/tables.

Help Desk – Provide a secure lockable cupboard for equipment in the room.

Group Study Booths - The booths shall have fixed tables and bench seats, with solid walls between. The rear wall of each booth shall have provision for mounting a flat screen monitor and a lockable recess for a CPU. Appropriate acoustic treatment shall be provided to maintain voice privacy between booths.

Computer Teaching Rooms – Each room shall have fixed benching for a minimum of 24 students with CPU enclosures as previously described. Benching shall be a combination of wall benches and island benches to provide flexibility for group teaching.

Provide one (1) adjustable height wheelchair accessible work bench/table in each room.

Provide a control console joinery unit at the teaching wall to each room and a data projector mounting plate at ceiling level.

Seminar Rooms - Seminar room fittings shall be as previously described. There may be a requirement for one room to be equipped for video conferencing, and this should be confirmed with CLF/LES if not nominated on the SDFs.

Student Lounge – Provide fixed modular upholstered seating for up to eight (8) people to a design and layout approved by CLF. Ensure that seating is accessible to people with disabilities.

15.11 Kitchenettes and Tea Preparation Stations

Bench cupboard units to kitchenettes in Staff Common Rooms and to Tea Preparation stations shall be as previously described with laminate bench tops and splashbacks generally in accordance with GU Standard Detail Drawing GSD-302, with provision for a dishwasher, microwave oven or refrigerator if nominated in the SDFs. Microwaves shall be mounted on a wall mounted shelf unit fixed at 600mm above the bench top.

Tea preparation stations may be located in recesses off circulation corridors rather than be installed in an enclosed room. All stations shall have a 300mm deep wall cupboard for cup storage.

Each kitchenette or tea preparation station shall be provided with a 'Zip Hydro Tap BC Model' or approved equal underbench chilled/boiling water unit complete with bench mounted tap with oversize levers and safe tray to base. The unit size shall be determined by the number of building occupants to be served by the unit. Filters shall not be installed in the units and unit wiring shall be modified to accommodate this.

Where the SDF requires a dishwasher to be installed, it shall be a first quality energy efficient and WELS compliant brand equal to 'Asko D3530'. All dishwashers shall be built-in.

Provide a 'Kimsoft 4959' surface mounted Hand Towel Dispenser with integral waste receptacle if required by the SDF.

Each kitchenette shall be provided with a 300 - 400 litre fridge unit with an energy rating of not less than 5 equal to Fisher & Paykel Model C373, and each tea preparation station shall include an approved 100 - 200 litre under bench bar fridge with an energy rating of not less than 4.

Where a Microwave oven is required by the SDF, it shall be an approved model with automatic sensors and reheat function and utilising inverter technology. The minimum size of Microwave oven shall be 19 litres.

15.12 Laboratories

The construction of laboratory fitments shall comply with the following;

Bench tops - Bench surfaces within laboratories are to be designed to suit the use of the laboratories. GU has currently approved the following materials for use as bench tops.

- Selected laminate over moisture resistant 'Craftwood'.
Note: All faces and edges (including underside) shall be covered with selected laminate, and edges shall be post formed
- 'Trespa TopLab' or 'Durapal HPDL' compact laminate board with machined edges.

The colour of bench tops must be approved by CLF. All bench tops are to incorporate an integral drip mould.

Bench Framing – Generally bench framing shall be powdercoated steel section framing. All bench legs shall have adjustable feet capable of being fixed to the floor.

Splashbacks - Standoff splashbacks are required to all wall benches to accommodate services. Splashbacks to be of the same selected laminate material as the bench top with a minimum height of 350mm.

Service Spine & Reagent Shelves – Fascia panels for mounting of service outlets and reagent shelves shall be of the same material as for bench tops and splashbacks.

Under Bench Units – Mobile under-bench units shall be provided as noted on the SDFs, constructed from 18mm MDF board with plastic laminate finish to all surfaces. Laminate finish to units in wet laboratories shall be selected laminate. Details of specific requirements with respect to size, number of drawers etc. will be established in consultation with CLF and Users.

In the design of laboratory fitments, consideration must be given to providing access for people with disabilities.

In general, each laboratory shall have a minimum of one workstation per 40 users or part thereof which is adjustable to allow use by a person with a disability.

The most common problem for people with disabilities in laboratories is the height of working surfaces and the inadequacy of space below the surface. Laboratory spaces are usually designed for standing work which limits their use by those who use wheelchairs or have poor balance, co-ordination and endurance.

Flexibility of design, including adjustability, helps to fit the working environment to the range of users. One workstation per 40 users should be designed to be easily adjustable by the user to enable a full range of bench heights to be used giving access to all services. The design should also address accessibility for people with disabilities to items such as fume cupboards and sinks.

Some general principles for consideration in fitment design are as follows;

Bench Height - Although standard heights of wet laboratory benches are normally high enough, if unobstructed, to allow a wheelchair to fit below the bench, they may be too high for wheelchair users. Reference should be made to AS 1428.2 Section 24, Furniture and Fitments, for standards for tables, counters and worktops.

Access - It is important that access between benches is adequate and not less than set out in AS-1428.1.

Reach Distances - Reach distances for disabled workstations should comply with the provisions nominated in AS 1428.2 section 22.

Laboratory Services - The controls for power, water, gas etc. in wet laboratories are usually placed on a service spine above the bench top and away from potential hazard. In many cases, the location and separation of the services is determined by regulation. Consideration should be given in the design of the workstation for people with disabilities to the placement of services and controls in a position accessible to people with disabilities. Reference should be made to AS 1428.1 Section 12 for details.

The following equipment items may be required in laboratories;

- Three phase commercial Laboratory Glass dishwasher
- Ice maker
- Autoclave

The type and size of unit will be specified on the SDF or must be confirmed with CLF.

Refer to [Sections 17.00, 18.00](#) and [20.00](#) for all services connections to this equipment.

15.13 Monitor Brackets

Wall and ceiling mount monitor brackets where required by the SDFs must be to a design applicable to the make and model of the monitor to be used in each specialised situation. All brackets must be approved by LES.

15.14 Compactus Units

When required by the SDFs compactus units incorporating shelving or hanging rails shall be supplied and installed by the Contractor.

15.15 Toilets

Provide the following fittings in all toilets;

Air-locks or hand wash areas:

- Vanity bench unit with full width mirror as per GU Standard Detail Drawing No. GSD-405 (only where directed by CLF)
- Wall basin splashback panel/duct to match wall panelling with 250mm wide hinged shelf/lid at 1200mm above f.f.l. (detail to be provided by CLF)
- Mirror panel 800mm high of width to match splashback panel to each basin.
- 'Pallmall Clear Vu Encore' soap dispenser Part No. 9330 on the splashback over each basin.
- 'Xlerator Model XL-W' surface mounted automatic electric hand dryer with white epoxy painted cover.
- Coat Hooks (c.p.), 2 No.

Toilet Cubicles and Urinals:

- 'Bradley 756' stainless steel (304) shelf with satin finish 500 mm long, mounted on the wall with 20mm matching cylindrical spacers, between urinals and above WC cisterns for the placement of books, handbags etc by persons using the facilities.
- 'Bowscott Jumboline' Impact resistant ABS toilet roll dispenser.
- Door bumper and hook to cubicle door (c.p.).

Unisex toilet for people with disabilities:

- Grab rails as required by AS 1428.1
- 300mm long Grab rail to back of outward opening door as a pull handle
- Aluminium framed mirror 600 x 1000mm high with bottom edge abutting top of wash basin approx. 800mm above f.f.l.
- 'Pallmall Clear Vu Encore' soap dispenser Part No. 9330. Do not locate within 500mm of a side wall.
- 'Bradley 756' stainless steel (304) shelf with satin finish 500 mm long, mounted on the wall with 20mm matching cylindrical spacers
- 'Bradley 2291-11' surface mounted paper towel dispenser/waste receptacle.
- 'Bradley 5224' dual toilet roll holder
- Coat Hook (c.p.), 2 No.
- 'J & D MacDonald' wall mounted folding baby change table (at Ground Level of building only)

Shower recess:

- 'Bradley 900' soap holder in accordance with AS 1428.1
- Coat hooks (cp), 2 No.
- Grab rails in accordance with AS 1428.1
- 'L&M BTSS -960SL' wall mounted stainless steel folding slatted bench seat
- 'Monotrack D9180 Shower Bend' pre-bent curtain rail with mid hanger and white nylon curtain or sliding glazed shower screen door if nominated by the SDF's.
- 'Bradley 756' stainless steel (304) shelf 500 mm long as previously described.

15.16 Hand Wash Stations

Provide the following to hand wash wall basins in laboratories or clinical spaces;

- Compact Laminate splashback panel approx. 900 x 1650mm high with bottom edge to align with top of skirting
- 'Bradley 2291-11' surface mounted paper towel dispenser/waste receptacle mounted on splashback.
- 'Pallmall Clear Vu Encore' soap dispenser Part No. 9330 mounted on the splashback over each basin. Ensure that soaps drips over basin and not onto the floor.

15.17 Coat Hooks

In addition to those required in toilet areas, provide a coat hook on the back of all office doors in the building and coat hooks to all laboratories. A minimum of one coat hook should be provided

for each occupant in a laboratory. All coathooks shall be mounted at 1750mm above finished floor level.

15.18 Mail Boxes, Assignment Boxes, Enquiry Counters

For all Reception/General Offices provide lockable/secure enquiry counters designed so as not to adversely affect the operation of air-conditioning. Such counters shall be fitted with adjustable shelves below the counter and adjustable computer work tops and shall provide for disabled access.

Adjacent to General Office areas, provide lockable mailboxes and assignment return boxes in accordance with the requirements stated in the SDFs and GU Standard Detail Drawings GSD-402 and GSD-403. Mailbox locks shall be master keyed but not keyed alike. Final details to be checked with OFM for user requirements.

15.19 Bag Racks or Hooks

Bag racks or wall mounted bag hooks shall be provided where required by the SDFs.

Bag racks generally shall be of 'pigeon hole' type constructed in edge stripped melamine faced 'Craftwood', the design of which is to be approved by CLF.

Wall hooks where used shall be stainless steel and mounted on a melamine faced wall protection panel.

15.20 Waste & Recycle Bin Enclosures

External bin enclosures shall be the 'Street Furniture Australia WBE (MJ)' dual wheeled bin enclosure to suit 240 ltr wheeled bins. Details of the enclosure are as follows:

- Size 1650 x 810 x 1350 high overall;
- 3mm Thick aluminium sheet body panels with slot perforations;
- 4mm thick sloped roof panel;
- Extruded aluminium section frame;
- Lockable hinged doors with slot perforations;
- Red/Green powder coat finish to body panels and doors.

Provide 1 No. enclosure for each new building project to be located externally where directed by the Superintendent.

Internal bin enclosures shall be as shown on GU Standard Detail Drawing GSD-409 to suit 80 ltr wheeled bins. Enclosures shall be provided in Utility Rooms and Common Rooms. The number of bins in each enclosure, and their location, shall be determined in consultation with CLF.

15.21 Drinking Fountains

Provide a minimum of one 'Zip Chill Fountain CFB140FWA' wall mounted chilled water drinking fountain to serve both adults and wheelchair users at each building floor level and externally adjacent to the main building entry. Each unit shall be fitted with one fixed gooseneck spout suitable for bottle filling as described later in this Clause on the wheelchair fountain. This spout is to be controlled by either a switch or spring loaded tap.

In addition to the above, drinking fountains shall be provided at the entries to Learning Centres and Libraries.

Within student accessible areas in Libraries and Learning Centres, provide Water Bottle Filling points comprising a modified 'Zip Chill Fountain CFB140FW' single bowl fountain fitted with a fixed gooseneck spout in lieu of the bubbler outlet. The spout shall have a radius bend to allow discharge over the centre of the bowl and shall be fitted with a purpose made shroud to prevent contact between the water bottle neck and the spout outlet.

The spout outlet shall be of sufficient height above the bowl to allow a standard 220mm high water bottle to be held vertically under the shroud. A sign stating 'Bottle Filling Only' shall be applied to the stainless steel wall panel above the bowl. The number of bottle filling points shall be determined in conjunction with CLF.

Refer to [Sections 17.00](#) and [20.00](#) for connections to services.

15.22 Works of Art

Liaison with the Director, Griffith Artworks, should occur at an early date in the development of the plans to designate 'gallery' areas in public spaces such as corridors, foyers and meeting rooms. These walls to be kept clear of notice boards and other fittings such as clocks, power points, phones, drinking fountains, air conditioning equipment etc.

In all designated 'gallery' areas, install hanging tracks to the length of the wall. The track shall be 'CAPRAL EOO229A1605650' extruded aluminium section sail rope track with anodised clear finish. The track is available in 6.5 metre lengths.

Ensure that access to the track channel and butted pieces allow for the smooth passage of the slider lugs.

Where a purpose built Gallery for the display of artworks is intended, all specialist fittings required will be nominated in the SDF.