

WESTERN SYDNEY
UNIVERSITY



Office of Estate and Commercial
FITTINGS STANDARDS

V19.0



Version History

Version	Date	Created By	Reason
V11.1	20.09.2011	Yuen Yuen YIP	Updated Standards
V11.2	06.12.2011	Yuen Yuen YIP	Update Standards, additional items
V12.0	28.03.2012	Mary Isidoro	Updated Standards
V12.1	24.05.2012	Mary Isidoro	Updated Standards, additional item
V12.2	30.10.2012	Ingrid Pearson	Deleted F4 + updated supplier details from QUAD to GJK Facility Services; added F1J hand dryer; amended details for items Kitchen K11, Bathroom B10 + B12; updated image for Accessible Bathroom BA14
V13.0	06.05.2013	Anthony Roy	Deleted duplicate items, expanded Billi systems, added fume cupboards, lab sinks, safety shower/eyewash, accessible grab rails, tapware selections. Added freestanding laundry tubs, in wall cistern and amended basin selections. Removed Gas Oven, added Electric cook top. Removed bins and clothes lines for transfer to the outdoor furniture standards.
V13.1	20.12.2013	Anthony Roy	Updated Billi units, hand dryers, sinks and shower tapware.
V15.0	25.05.2015	Gloria Pan	Reformatted layout, re-coded all items, added hand dryer Type A and toilet roll dispense Type A.
V16.0	11.12.2015	Gloria Pan	Reformatted to university rebrand.
V18.0	14.05.2018	Gloria Pan	Toilet roll dispenser type B revised. Bar fridge revised.
V19.0	12.12.2019	Gloria Pan	Hand dryer type E added. Robe hook revised.

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1 Introduction

1.1 Purpose of this Document

The purpose of this document is to create a unified fitting standard that can be applied across all Western Sydney University Campuses.

1.2 Background

Over many years various fitting items have been purchased to meet user requirements. This has resulted in a wide range of types and colours of fitting being selected by a cross section of people such as Architects, Schools and Office of Estate and commercial. The development of these Fittings Standards will simplify the selection and purchase of fittings across any of the Western Sydney University sites.

1.3 Warranty

Products shall be guaranteed against all defects arising for faulty workmanship and materials after delivery, and/or installation/acceptance. **This does not cover general wear and tear.** The warranty/guarantee period offered for each product range shall be inclusive of labour, components and travel, but can exclude fabric where applicable.

A written manufacturer's warranty shall be provided upon delivery of items.

1.4 Care and Maintenance

The Contractor shall provide a "Product Care and Maintenance Manual" to inform and provide guidance for the Western Sydney University Cleaning Contractor of the manufacturer's maintenance requirements.

1.5 Coding System

Location	Abbreviation
Bathroom	G
Kitchen	K
Laundry	V
Laboratory	Q
External	Z

Example: Bathroom Basin Selection

Location	Item	Type	Size Selection	Code
Bathroom (G)	Basin (B)	A	1	GBA1
Kitchen (K)	Cook top (C)	B	1	KCB1

2 Bathroom Appliances & Fittings

Item	Descriptor	Abbreviation
Bathroom Appliances	Hand Dryer	GD
	Soap Dispenser	GS
	Paper Towel Dispenser	GP
	Toilet Roll Dispenser	GO
Bathroom Fittings	Basin	GB
	Basin Waste	GW
	Tap	GT
	Shower Set	GA
	Toilet	GC
	Rail	GR
	Cleaners Sink	GJ
	Soap Holder	GF
	Shower Seat	GE
	Robe Hook	GH
	Shelf	GK
	Lifting Hoist	GL

2.1 Hand dryer - GD

2.1.1 Hand dryer Type A



CODE	SIZE	COMMENTS
GDA1	295W x 140D x 280H	For low usage and areas requiring minimal noise.

Item	Specifications
Equipment	<u>Bobrick</u> B-715E 230V Hand dryer Automatic hand sensor
Materials	Grade 304 stainless steel cover
Finish	Satin finish
Mounting Options	Surface mounted

2.1.2 Hand dryer Type B



CODE	SIZE	COMMENTS
GDB1	248W x 190D x 518H	For medium usage and areas requiring minimal noise.

Item	Specifications
Equipment	<u>LUXE</u> Hi-speed hand dryer Automatic hand sensor
Materials	ABS plastic
Finish	White or Silver
Mounting Options	Surface mounted

2.1.3 Hand dryer Type C



CODE	SIZE	COMMENTS
GDC1	307W x 247D x 663H	For student use - heavy duty. Use where noise to adjacent spaces is not a factor. Not to be used adjacent to teaching spaces. Not to be used in accessible amenities.

Item	Specifications
Equipment	<u>Dyson</u> Airblade dB (AB14) 10 second dry time
Materials	ABS plastic
Finish	White or Silver
Mounting Options	Surface mounted

2.1.4 Hand dryer Type D



CODE	SIZE	COMMENTS
GDD1	394H x 234W x 100D	Used for accessible amenities and where space limitations require a slim unit.

Item	Specifications
Equipment	<u>Dyson</u> Airblade V Slim profile
Materials	Sprayed nickel moulded plastic
Finish	White or Silver
Mounting Options	Surface mounted

2.1.5 Hand dryer Type E (Wash + Dry)



CODE	SIZE	COMMENTS
GDE1	303W x 286D x 159H - Short	To be used with basin GBD or GBE
GDE2	303W x 286D x 309H - Tall	
GDE3	303W x 312D x 95H - Wall	

Item	Specifications
Equipment	<u>Dyson</u> Airblade Wash+Dry 14 second dry time Motor bucket dimension: 266H x 142W x 189D Touch-free infra-red activation Water flow rate: 4 L/min Automatic duty flush – every 24 hours for 60 seconds after last use
Materials	Tap: stainless steel Under counter motor assembly: moulded ABS
Finish	Stainless steel (brushed)
Minimum internal Basin dimensions	Minimum basin width: 350mm Minimum basin front to back: 300mm Minimum basin depth: 100mm

2.2 Soap Dispenser – GS

2.2.1 Soap Dispenser Type A



CODE	SIZE	COMMENTS
GSA1	130W x 230H	General use

Item	Specifications
Equipment	<u>Deb Proline</u> Foam soap dispenser, 1 litre cartridge Lockable
Materials	ABS plastic
Finish	White or Silver with chrome border
Mounting Options	Surface mounted

2.3 Paper Towel Dispenser - GP

2.3.1 Paper Towel Dispenser Type A



CODE	SIZE	COMMENTS
GPA1	270W x 420H	Staff use Only - where requested by client

Item	Specifications
Equipment	<i>Regal</i> slimline paper towel dispenser Lockable
Materials	ABS plastic
Finish	White or Smokey grey
Mounting Options	Surface mounted

2.4 Toilet Roll Dispenser - GO

2.4.1 Toilet Roll Dispenser Type A



CODE	SIZE	COMMENTS
GOA1	322W x 161H x 83D	High profile staff area use Only

Item	Specifications
Equipment	<u>Metlam</u> ML263 Twin toilet holder
Materials	Stainless steel
Finish	Satin finish
Mounting Options	Recess mounted

2.4.2 Toilet Roll Dispenser Type B



CODE	SIZE	COMMENTS
GOB1	286W x 158H x 153D	Staff use Accessible amenities Ambulant amenities

Item	Specifications
Equipment	<u>Tork T4</u> Twin toilet holder Lockable
Materials	ABS plastic
Finish	White / Clear
Mounting Options	Surface mounted

2.4.3 Toilet Roll Dispenser Type C



CODE	SIZE	COMMENTS
GOC1	125W x 445H	For staff use - heavily utilized spaces

Item	Specifications
Equipment	<i>Regal</i> Triple toilet holder Lockable
Materials	ABS plastic
Finish	Smokey grey
Mounting Options	Surface mounted

2.4.4 Toilet Roll Dispenser Type D



CODE	SIZE	COMMENTS
GOD1	295W x 510H	General use – student amenities

Item	Specifications
Equipment	<u>Regal</u> Double jumbo toilet dispenser Lockable
Materials	ABS plastic
Finish	Smokey grey
Mounting Options	Surface mounted

2.5 Bathroom Basin - GB

2.5.1 Basin Type A



CODE	SIZE	COMMENTS
GBA1	415W x 415L x 150D	Staff amenities Student amenities Student accommodation

Item	Specifications
Equipment	<u>Caroma Carboni II</u> Wall basin 1 tap hole
Bowl capacity	3L capacity to overflow
Materials	Ceramic
Finish	White only
Mounting Options	Wall mounted

2.5.2 Basin Type B



CODE	SIZE	COMMENTS
GBB1	415W x 415L x 150D	Staff amenities Student amenities

Item	Specifications
Equipment	<u>Caroma Carboni II</u> Semi recessed basin 1 tap hole
Bowl capacity	3L capacity to overflow
Materials	Ceramic
Finish	White only
Mounting Options	Semi recessed to counter

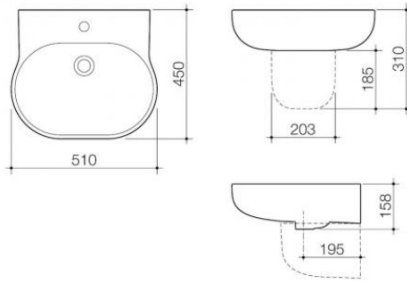
2.5.3 Basin Type C



CODE	SIZE	COMMENTS
GBC1	570W x 395L x 155D	To be used in accessible areas when separate shelf not provided. To be uses with <u>Caroma Nordic</u> basin mixer GTA2

Item	Specifications
Equipment	<u>Caroma Cube Extension</u> Wall basin Left hand shelf or Right hand shelf 1 tap hole
Bowl capacity	4.8L capacity to overflow
Materials	Ceramic
Finish	White only
Mounting Options	Wall mounted

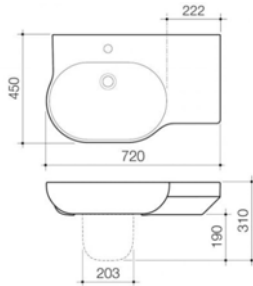
2.5.4 Basin Type D



CODE	SIZE	COMMENTS
GBD1	510W x 450L x 150D	Staff amenities Student amenities To be used with Dyson Wash+Dry GDE

Item	Specifications
Equipment	<u>Caroma Opal 510</u> Wall basin 1 tap hole No shroud
Bowl capacity	9.5L
	Overflow not available
Materials	Ceramic
Finish	White only
Mounting Options	Wall mounted

2.5.5 Basin Type E



CODE	SIZE	COMMENTS
GBE1	720W x 450L x 150D	To be used in accessible areas when separate shelf not provided. To be used with Dyson Wash+Dry GDE

Item	Specifications
Equipment	<u>Caroma Opal 720 Wall</u> basin Left hand shelf or Right hand shelf 1 tap hole No shroud
Bowl capacity	9.5L
	Overflow not available
Materials	Ceramic
Finish	White only
Mounting Options	Wall mounted

2.6 Bathroom Basin Waste - GW

2.6.1 Basin Waste Type A



CODE	SIZE	COMMENTS
GWA1	40mm connection	To be used for all basins

Item	Specifications
Equipment	<u>Caroma Eco</u> Bottle trap
Finish	Chrome plated

2.7 Bathroom Tap - GT

2.7.1 Bathroom Tap Type A



CODE	SIZE	COMMENTS
GTA1	150L x 130H	Staff amenities Student accommodation
GTA2	With extended handle	Accessible amenities

Item	Specifications
Equipment	<u>Caroma Nordic</u> Basin mixer Long life ceramic disc mixer cartridge Temperature limiting device Econoflow system reduces water consumption WELS 5 star rated, 6 L/min Handle extension option available for accessible amenities
Finish	Chrome finish Yellow warm water indicator when warm water is present

2.7.2 Bathroom Tap Type B



CODE	SIZE	COMMENTS
GTB1	129L x 128H	Student amenities

Item	Specifications
Equipment	<i>Presto 2000</i> or <i>Galvin Engineering Ezy-Push</i> #368696 Self-closing basin mixer Adjustable timed flow Push-button activated flow and automatic shut-off WELS 6 stars rated, 5 L/min
Finish	Chrome finish Yellow warm water indicator when warm water is present

2.7.3 Bathroom Tap Type C – also to be used for laboratory hand washing



CODE	SIZE	COMMENTS
GTC1		For isolated accessible amenities where a thermostatic valve is uneconomical. For laboratory hand washing to be used with laboratory basin <u>QBA1</u>

Item	Specifications
Equipment	<u>Enware Aquablend SOX</u> or <u>Galvin Engineering CliniMix</u> WELS 5 stars rated, 5.7 L/min
Finish	Chrome finish

2.7.4 Bathroom Tap Type D



CODE	SIZE	COMMENTS
GTD1		All amenities

Item	Specifications
Equipment	<u>Enware CS</u> or <u>Galvin Engineering</u> #49953 Cistern tap right angle 15mm Concealed spindle Vandal-resistant internal locking ring, can only be released by key
Finish	Chrome finish

2.7.5 Bathroom Tap Type E



CODE	SIZE	COMMENTS
GTE1		All amenities

Item	Specifications
Equipment	<u>Enware CS</u> or <u>Galvin Engineering</u> Hose tap Concealed spindle Vandal-resistant internal locking ring, can only be released by key
Finish	Chrome finish

2.8 Bathroom Shower Set - GA

2.8.1 Shower Set Type A



CODE	SIZE	COMMENTS
GAA1		Staff amenities Student amenities Student accommodation

Item	Specifications
Equipment	<u>Caroma Retro</u> Shower set CS concealed spindle WELS 3 stars rated, 9 L/min
Finish	Chrome finish Red H and Blue C indicator Yellow warm water indicator when warm water is present
Installation	Shower rose outlet to be installed at a minimum height of 1900mm

2.8.2 Shower Set Type B



CODE	SIZE	COMMENTS
GAB1		Accessible amenities

Item	Specifications
Equipment	<u>Enware</u> SGR023C or <u>Galvin Engineering</u> #41935 Chrome hand held shower set 900mm stainless steel grab rail 1500mm hose WELS 3 stars rated, 8.2 L/min To be used with <u>Caroma Nordic</u> shower mixer with yellow warm water indicator
Finish	Polished stainless steel grab rail Chrome plated wall connection
Installation	Wall outlet with backflow prevention device (chrome plated double check) must be installed 700mm from finished floor level

2.9 Bathroom Toilet - GC

2.9.1 Toilet Type A



CODE	SIZE	COMMENTS
GCA1	395W x 660L x 810H	Staff amenities Student amenities Student accommodation

Item	Specifications
Equipment	<u>Caroma Profile 4</u> Close coupled toilet suite Dual flush button S or P trap WELS 4 stars rated, 4.5/3L flush
Materials	Vitreous china
Finish	White only Chrome plated flush button

2.9.2 Toilet Type B



CODE	SIZE	COMMENTS
GCB1		Accessible amenities

Item	Specifications
Equipment	<u>Caroma Sovereign Care</u> toilet suite With backrest Dual flush WELS 4 stars rated, 4.5/3L flush Raised height buttons
Materials	Vitreous china
Finish	White only Metal chrome plated flush button Backrest and seat colour in Anthracite Grey

2.9.3 Toilet Type C



CODE	SIZE	COMMENTS
GCC1		Staff amenities Student amenities Note: Cistern in wall cavity

Item	Specifications
Equipment	<u>Caroma Leda</u> Wall Faced Invisi™ Series II Suite Dual flush WELS 4 stars rated, 4.5/3L flush Concealed cistern
Materials	Vitreous china
Finish	White only

2.9.4 Toilet Type D



CODE	SIZE	COMMENTS
GCD1	260W x 665H	Staff amenities Student amenities

Item	Specifications
Equipment	<u>Caroma Cube</u> 0.8L urinal Electronic activation urinal Automatic hygiene flush every 24 hours WELS 6 stars rated, 0.8L flush
Materials	Vitreous china
Finish	White only

2.9.5 Toilet Type E



CODE	SIZE	COMMENTS
GCE1	260W x 665H	Staff amenities Student amenities

Item	Specifications
Equipment	<u>Caroma Cube Invisi</u> ™ Series II urinal Manual push button WELS 3 stars rated, 6/3L flush, 1.8L cistern
Materials	Vitreous china
Finish	White only

2.10 Bathroom Rail - GR

2.10.1 Towel Rail Type A



CODE	SIZE	COMMENTS
GRA1	600mm	Student accommodation (units/villas)
GRA2	750mm	
GRA3	900mm	

Item	Specifications
Equipment	<u>Bradley Regent</u> Towel rail - Single
Materials	Stainless steel
Finish	Polished stainless steel finish
Mounting Options	Surface mounted

2.10.2 Towel Rail Type B



CODE	SIZE	COMMENTS
GRB1	450mm	Student accommodation (units/villas)
GRB2	600mm	
GRB3	750mm	

Item	Specifications
Equipment	<u>Bradley Regent</u> Towel rail - Double
Materials	Stainless steel
Finish	Polished stainless steel finish
Mounting Options	Surface mounted

2.10.3 Towel Ring Type C



CODE	SIZE	COMMENTS
GRC1		Student accommodation (units/villas)

Item	Specifications
Equipment	<u>JD McDonald</u> Towel ring – 6909-60
Materials	Brass
Finish	Chrome plated brass
Mounting Options	Surface mounted

2.10.4 Grab Rail Type D



CODE	SIZE	COMMENTS
GRD1	Various, to suit space to AS1428.1 requirements	Accessible amenities

Item	Specifications
Equipment	<u>Enware, Bradley, JD McDonald</u> or <u>Galvin Engineering</u> Grab rail Ø32mm with concealed fixings
Materials	Stainless steel
Finish	Polished stainless steel finish OR Brushed stainless steel finish
Mounting Options	Surface mounted

2.10.5 Grab Rail Type E



CODE	SIZE	COMMENTS
GRE1	950 x 700 at 45°	Accessible amenities

Item	Specifications
Equipment	<u>Bradley</u> or <u>JD McDonald</u> Grab rail Ø32mm with concealed fixings
Materials	Stainless steel
Finish	Polished stainless steel finish OR Brushed stainless steel finish
Mounting Options	Surface mounted

2.10.6 Grab Rail Type F



CODE	SIZE	COMMENTS
GRF1	965W x 600H at 90°	Accessible amenities

Item	Specifications
Equipment	<u>Bradley</u> or <u>JD McDonald</u> Grab rail Ø32mm with concealed fixings
Materials	Stainless steel
Finish	Polished stainless steel finish OR Brushed stainless steel finish
Mounting Options	Surface mounted

2.11 Cleaners Sink – GJ

2.11.1 Cleaners sink Type A



CODE	SIZE	COMMENTS
GJA1	575W x 435L x 155D	To be used in cleaners closet To be used with laundry tap <u>VT A1</u>

Item	Specifications
Equipment	<i>Caroma</i> cleaners sink with brackets and grate Waste outlet suitable for 50mm diameter standard waste assemblies Capacity: 27L
Materials	Vitreous china
Finish	White only Chrome flush fitting Chrome plated trap
Mounting Options	Wall mounted

2.12 Bathroom Soap Holder - GF

2.12.1 Soap Holder Type A



CODE	SIZE	COMMENTS
GFA1	160W x 100D Two posts 22mm dia	All showers

Item	Specifications
Equipment	<u>Bradley Regent R021</u> Soap holder
Materials	Stainless steel
Finish	Polished stainless steel finish
Mounting Options	Surface mounted

2.13 Bathroom Shower Seat - GE

2.13.1 Shower Seat Type A



CODE	SIZE	COMMENTS
GEA1	960W x 406D	Accessible showers

Item	Specifications
Equipment	<u>Bradley 9558-40</u> Fold-away shower seat
Materials	Stainless steel tubing Solid laminate seat bonded to a phenolic core
Finish	White seat
Mounting Options	Surface mounted

2.14 Bathroom Robe Hook - GH

2.14.1 Robe Hook Type A

(Deleted in May 2019)

2.14.2 Robe Hook Type B

(Deleted in May 2019)

2.14.3 Robe Hook Type C



CODE	SIZE	COMMENTS
GHC1	93mm projection	

Item	Specifications
Equipment	<i>Metlam 202C</i> Xcel hook with bumper 93 x 73 x 18 mm
Materials	Diecast Zinc, Alloy ZP3, Rubber Bumper ABS Snap On Cover
Finish	Satin chrome plated, or Bright chrome plated
Mounting Options	Concealed screw fix

2.15 Bathroom Shelf - GK

2.15.1 Shelf Type A



CODE	SIZE	COMMENTS
GKA1	460L x 305D	Accessible amenities

Item	Specifications
Equipment	<i>JD McDonald 0692</i> Flat top shelf
Materials	Stainless steel
Finish	Satin finish
Mounting Options	Surface mounted

2.16 Bathroom Lifting Hoist - GL

2.16.1 Lifting Hoist Type A



CODE	SIZE	COMMENTS
GLA1		Accessible amenities (when requested by Western Sydney University)

Item	Specifications
Equipment	<u>Active Mobility Transactive Xtra</u> Max safe working load: 270kgs
Materials	
Mounting Options	Ceiling mounted

3 Kitchen Appliances & Fittings

Item	Descriptor	Abbreviation
Kitchen Appliances	Refrigerator	KF
	Cook Top	KC
	Range hood	KR
	Electric Oven	KO
	Microwave Oven	KM
	Dishwasher	KD
Kitchen Fittings	Kitchen Sink	KS
	Kitchen Tap	KT
	Water Unit	KW

3.1 Refrigerator / Freezer - KF

3.1.1 Refrigerator / Freezer Type A



CODE	SIZE	COMMENTS
KFA1		Large staff kitchens 3 or more bedroom residential accommodation

Item	Specifications
Equipment	<i>Fisher & Paykel, Samsung or Smeg</i> Minimum 600L side by side freezer/refrigerator, nominal depth 680mm Automatic defrost and frost free system Bacteria suppression system and fungal-free gaskets Climate sensor and automatic fan adjustment 360 degree castors Flat-back construction Safety glass shelving with storage bins and chilled meat keeper, vegetable/fruit crispers Zero rating on ozone depleting refrigerants Minimum 3.5 star energy rated performance
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.1.2 Refrigerator / Freezer Type B



CODE	SIZE	COMMENTS
KFB1		Small staff kitchens 1-2 bedroom residential accommodation

Item	Specifications
Equipment	<u>Fisher & Paykel</u>, <u>Samsung</u> or <u>Whirlpool</u> Nominal 400L freezer/refrigerator, freezer on top Automatic defrost and frost free system Bacteria suppression system and fungal-free gaskets Climate sensor and automatic fan adjustment 360 degree castors Flat-back construction Safety glass shelving with storage bins and chilled meat keeper, vegetable/fruit crispers Zero rating on ozone depleting refrigerants Minimum 3.5 star energy rated performance
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.1.3 Refrigerator / Freezer Type C

(*Fisher & Paykel* Bar Fridge 113L DISCONTINUED)

3.1.4 Refrigerator / Freezer Type D



CODE	SIZE	COMMENTS
KFD1	560W x 845H x 575D	Student Kitchenettes No ice box

Item	Specifications
Equipment	<i>Westinghouse</i> Bar Fridge 138L Refrigerator volume: 137 litres Energy usage (kWh/yr): 208 Door opening available right and left interchangeable with kit
Finish	White finish
Warranty	2 year warranty

3.1.5 Refrigerator / Freezer Type E



CODE	SIZE	COMMENTS
KFE1	560W x 845H x 575D	Staff Kitchenettes

Item	Specifications
Equipment	<u>Westinghouse</u> Bar Fridge 124L Refrigerator volume: 119 litres Energy usage (kWh/yr): 259 With a full-width ice box Door opening available right and left interchangeable with kit
Finish	Stainless steel or white finish
Warranty	2 year warranty

3.1.6 Refrigerator / Freezer Type F



CODE	SIZE	COMMENTS
KFF1	515W x 820H x 543D	Staff Kitchenettes

Item	Specifications
Equipment	<u>Hisense</u> Bar Fridge 120L Refrigerator volume: 119 litres With a full-width ice box Door opening available right and left interchangeable with kit
Finish	Stainless steel or white finish
Warranty	2 year warranty

3.2 Cook Top - KC

3.2.1 Cook Top Type A - Gas



CODE	SIZE	COMMENTS
KCA1	580W x 500D x 50H	Student accommodation (units/villas)

Item	Specifications
Equipment	<u>Omega, Chef or St. George</u> 4 burner gas cook top Front or side controls Nominal 27Mj/hr over 4 gas burners Electronic ignition
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.2.2 Cook Top Type B - Gas



CODE	SIZE	COMMENTS
KCB1	300W x 500D x 50H	1 Bedroom units

Item	Specifications
Equipment	<i>DeLonghi</i> 2 burner gas cooktop 2 differential burner sizes Flame failure safety cut-out Electronic ignition Sturdy cast iron trivets Front mounted controls Natural or LPG gas connection
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.2.3 Cook Top Type C - Electric



CODE	SIZE	COMMENTS
KCC1	590W x 530D x 52H	Student accommodation (units/villas)

Item	Specifications
Equipment	<i>Smeg</i> 4 zone induction cooktop Power on indicator Residual heat indicator Child safety lock LED electronic display, touch sensor controls Bevelled ceramic edging
Finish	Frameless black glass
Warranty	Minimum (2) year warranty

3.2.4 Cook Top Type D - Electric



CODE	SIZE	COMMENTS
KCD1	290W x 510D x 52H	1 bedroom units Studios

Item	Specifications
Equipment	<i>Smeg</i> 2 zone induction cooktop Power on indicator Residual heat indicator All black ceramic Bevelled edging
Finish	Frameless black glass
Warranty	Minimum (2) year warranty

3.3 Rangehood - KR

3.3.1 Rangehood Type A



CODE	SIZE	COMMENTS
KRA1	900W x 500D	Use with all cook tops

Item	Specifications
Equipment	<u>Omega, Chef or St. George</u> Rangehood with 3 speed settings plus OFF button Illumination on separate ON/OFF button Max 40dB/65Db noise level on low/high fan setting Minimum 250m3/hour air movement Ducted to exhaust external to building
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.4 Electric Oven - KO

3.4.1 Oven Type A - Electric



CODE	SIZE	COMMENTS
KOA1	600W x 580D x 600H	Student accommodation (units/villas)

Item	Specifications
Equipment	<u>Omega</u>, <u>Chef</u> or <u>St. George</u> 80L gross capacity electric oven With built-in/separate grill 60 minute timer
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.5 Microwave Oven - KM

3.5.1 Microwave Oven Type A



CODE	SIZE	COMMENTS
KMA1	520W x 430D x 330H 1200watts	Student accommodation (except studios) Staff kitchens Student common areas
KMA2	520W x 430D x 330H 900watts	Studios

Item	Specifications
Equipment	<u>Omega</u> 30L microwave oven 10 power levels Auto defrost Kitchen timer
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.6 Dishwasher - KD

3.6.1 Dishwasher Type A



CODE	SIZE	COMMENTS
KDA1	600W x 582D 820-880H	Staff kitchens

Item	Specifications
Equipment	<u>Fisher & Paykel DishDrawer</u> Nominal capacity for 6 place settings to hold 315mm / 330mm plates Minimum 3 star energy rating and minimum 4 star WELS rating per drawer Automatic wash programs including economy/eco cycle Flow through detergent dispenser, folding tines Fully adjustable racking system Flood protection
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.6.2 Dishwasher Type B



CODE	SIZE	COMMENTS
KDB1	600W x 600D 850-870H	Student accommodation

Item	Specifications
Equipment	<u>Fisher & Paykel</u>, <u>Omega</u>, <u>Whirlpool</u> or <u>Samsung</u> Nominal capacity for 14 place settings Minimum 3 star energy rating and minimum 4 star WELS rating per drawer Automatic wash programs including economy/eco cycle Folding tines Counter balanced door Cutlery basket, cup racks Multiple spray levels Variable wash pressure technology Flood protection Maximum 45Db noise level during operation
Finish	Stainless steel or white finish
Warranty	Minimum (2) year warranty

3.7 Kitchen Sink - KS

3.7.1 Kitchen Sink Type A



CODE	SIZE	COMMENTS
KSA1	930W x 500D x 197H (Monaco)	Studio accommodation
KSA2	930W x 471D x 155H (Benchmark)	Small staff kitchenettes

Item	Specifications
Equipment	<u>Clark Monaco</u> for Studio accommodation <u>Clark Benchmark</u> for Small staff kitchenettes Single end bowl Left of Right handed
Finish	Stainless steel
Mounting Options	Over mounted

3.7.2 Kitchen Sink Type B



CODE	SIZE	COMMENTS
KSB1	1000W x 500D x 197H	Student accommodation (units/villas)

Item	Specifications
Equipment	<u>Clark Monaco</u> 1.5 end bowl Left of Right handed
Finish	Stainless steel
Mounting Options	Over mounted

3.7.3 Kitchen Sink Type C



CODE	SIZE	COMMENTS
KSC1	1538W x 471D x 155H	Student accommodation Student common areas Large staff kitchens

Item	Specifications
Equipment	<u>Clark Benchmark</u> Double centre bowl
Finish	Stainless steel
Mounting Options	Over mounted

3.7.4 Kitchen Basin Type D - Commercial Kitchen/Servery



CODE	SIZE	COMMENTS
KSD1	500W x 430D x 275H	Commercial kitchens / serveries – hand washing To be used with tapware <u>KTBI</u>

Item	Specifications
Equipment	<u>Caroma Integra</u> 648210W Wall basin Capacity: 10Litre 1 tap hole
Finish	Ceramic, white only
Mounting Options	Wall mounted

3.8 Kitchen Tap - KT

3.8.1 Kitchen Tap Type A



CODE	SIZE	COMMENTS
KT A1	60W x 240D x 155H	Student accommodation (units/villas) Staff kitchens / kitchenettes (except where Billi boiling/chilled water unit) Student common areas
KT A2	With extended handle	Accessible kitchen tap on request

Item	Specifications
Equipment	<u>Caroma Nordic</u> or <u>Galvin Engineering Clinilever</u> TM-SNKCP Sink mixer (240mm) Econoflow system reduces water consumption WELS 4 star rated, 7.5L/min
Finish	Chrome finish

3.8.2 Kitchen Tap Type B - Commercial Kitchen/Servery



CODE	SIZE	COMMENTS
KTb1		Commercial kitchens / serveries – hand washing To be used with basin KSD1

Item	Specifications
Equipment	<u>Enware TFC734</u> Knee operated valve With automatic shut off To be used with <u>Enware</u> SP020 Hob mounted swivel spout
Finish	Bright chrome

3.9 Kitchen Chilled / Boiling Water Unit - KW

3.9.1 Chilled / Boiling Water Unit Type A



CODE	SIZE	COMMENTS
KWA1		Staff kitchens / kitchenettes Note: Capacity to be sized by hydraulic consultant

Item	Specifications
Equipment	<u>Zip HydroTap</u> Filtered chilled water / Boiling water 0.2 micron filtration Ventilation required for all models in cabinetry – standard details available from Western Sydney University
Finish	Bright chrome
Warranty	5 year warranty

3.9.2 Chilled / Boiling Water Unit Type B



CODE	SIZE	COMMENTS
KWB1		Staff kitchens / kitchenettes Note: Capacity to be sized by hydraulic consultant

Item	Specifications
Equipment	<u>Billi Quadra</u> Filtered water / Boiling water / Chilled water With 5 micron filter Use water-cooled version, not air-cooled. (No cabinet ventilation required) Use <u>Billi</u> XL lever sink dispenser
Finish	Bright chrome
Warranty	5 year warranty

3.9.3 Chilled / Boiling Water Unit Type C



CODE	SIZE	COMMENTS
KWC1		Staff kitchens / kitchenettes For remote locations with no hot water supply Note: Capacity to be sized by hydraulic consultant

Item	Specifications
Equipment	<u>Billi Quadra Plus</u> Filtered water / Boiling water / Hot water / Chilled water With 5 micron filter Use water-cooled version, not air-cooled. (No cabinet ventilation required) In addition supply the hot water to the separate sink mixer. To be used with <u>Billi</u> XL levered sink mounted dispenser and pin levered sink mixer. (Extended mixer handle for accessible area on request)
Finish	Bright chrome
Warranty	5 year warranty

4 Laundry Appliances & Fittings

Item	Descriptor	Abbreviation
Laundry Appliances	Washing Machine	VW
	Clothes Dryer	VD
Laundry Fittings	Laundry Sink	VS
	Laundry Tap	VT

4.1 Washing Machine – VW

4.1.1 Washing Machine Type A – Top Load



CODE	SIZE	COMMENTS
VWA1		Laundry

Item	Specifications
Equipment	<u>Maytag</u> Capacity 5.5Kg Minimum 2 star energy rating and minimum 3 star WELS rating Automatic wash cycle selection and 3 spin speeds (top speed minimum 1000rpm) ID card-swipe operable
Finish	White finish
Warranty	Minimum (2) year warranty

4.1.2 Washing Machine Type B – Front Load



CODE	SIZE	COMMENTS
VWB1		Laundry

Item	Specifications
Equipment	<u>Maytag</u> Capacity 5.5Kg Minimum 3 star energy rating and minimum 4.5 star WELS rating Automatic wash cycle selection with quick wash cycle 1200rpm spin speed ID card-swipe operable Stackable unit option
Finish	White finish
Warranty	Minimum (2) year warranty

4.2 Clothes Dryer – VD

4.2.1 Clothes Dryer Type A



CODE	SIZE	COMMENTS
VDA1		Laundry

Item	Specifications
Equipment	<u>Maytag</u> Capacity 4.5Kg Minimum 2 star energy rating Stainless steel interior Vented externally to building Timer ID card-swipe operable Stackable unit option
Finish	White finish
Warranty	Minimum (2) year warranty

4.3 Laundry Sink – VS

4.3.1 Laundry Sink Type A



CODE	SIZE	COMMENTS
VSA1	640L x 480W x 275H	Laundry

Item	Specifications
Equipment	<u>Clark</u> Flushline single tub Bowl volume: 45Litre With or without a by-pass
Material	Stainless steel
Mounting Options	Flush mounted

4.3.2 Laundry Sink Type B



CODE	SIZE	COMMENTS
VSB1	610L x 395W x 910H	Laundry

Item	Specifications
Equipment	<u>Clark Eureka</u> Compact tub and cabinet Bowl volume: 35Litre
Finish	Tub: 304 stainless steel Cabinet: Permacoat Z180
Mounting Options	Freestanding

4.3.3 Laundry Sink Type C



CODE	SIZE	COMMENTS
VSC1	655L x 505W x 905H	Laundry

Item	Specifications
Equipment	<u>Clark Eureka</u> Standard tub and cabinet Bowl volume: 45Litre
Finish	Tub: 304 stainless steel Cabinet: Permacoat Z180
Mounting Options	Freestanding

4.4 Laundry Tap - VT

4.4.1 Laundry Tap Type A – also to be used with cleaners sink



CODE	SIZE	COMMENTS
VTa1	Spout: 200L x 260H	To be used for laundry tubs and cleaners sink <u>GJA1</u>

Item	Specifications
Equipment	<i>Galvin Engineering DPW #49949</i> Basin mixer recess set with swivel spout Concealed spindle WELS 5 stars rated, 6 L/min
Finish	Chrome Red H and Blue C buttons

5 Laboratory Appliances & Fittings

Item	Descriptor	Abbreviation
Laboratory Fittings	Laboratory Tap	QT
	Safety Shower/Eyewash	QE
	Laboratory Sink	QS
	Laboratory Basin	QB
	Fume Cupboard	QF

5.1 Laboratory Tap – QT

5.1.1 Laboratory Tap Type A



CODE	SIZE	COMMENTS
QTA1		Laboratory hand washing To be used with basin <u>QBA1</u>

Item	Specifications
Equipment	<i>Enware HPS series</i> 200mm Lever handle series with <i>Enware</i> SP021 spout (PC2 lab compliant)
Finish	Bright chrome

5.1.2 Laboratory Tap Type B



CODE	SIZE	COMMENTS
QTB1		Laboratory

Item	Specifications
Equipment	<i>Enware LCN series or Galvin Engineering ProLab</i> Specific tapware to suit application 5 star WELS
Finish	Epoxy white powdercoating Tap colour indicator, colour coded handles for media identifications

5.1.3 Laboratory Tap Type C



CODE	SIZE	COMMENTS
QTC1		Laboratory

Item	Specifications
Equipment	<i>Enware LCN series or Galvin Engineering ProLab</i> Dry media Specific tapware to suit application
Finish	Epoxy white powdercoating Tap colour indicator, colour coded handles for media identifications

5.2 Safety Shower / Eyewash – QE

5.2.1 Safety Shower Type A



CODE	SIZE	COMMENTS
QEA1		Laboratory

Item	Specifications
Equipment	<u>Enware ECE030</u> Stainless steel construction Hand operated
Finish	Standard brushed stainless steel Stainless steel pull rod handle with high visibility yellow epoxy coating
Mounting Options	Freestanding

5.2.2 Safety Shower Type B



CODE	SIZE	COMMENTS
QEB1		Laboratory

Item	Specifications
Equipment	<u>Enware EW1080</u> Stainless steel construction Hand operated
Finish	Standard brushed stainless steel Stainless steel pull rod handle with high visibility yellow epoxy coating
Mounting Options	Ceiling mounted

5.2.3 Safety Shower / Eyewash Type C



CODE	SIZE	COMMENTS
QEC1		Laboratory

Item	Specifications
Equipment	<u>Enware ECE240</u> Stainless steel construction Combination safety shower and eyewash Hand operated
Finish	Standard brushed stainless steel Stainless steel pull rod handle with high visibility yellow epoxy coating High visibility yellow epoxy coated eyewash push handle
Mounting Options	Freestanding

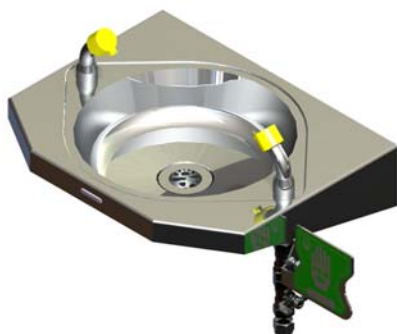
5.2.4 Eyewash Type D



CODE	SIZE	COMMENTS
QED1		Laboratory

Item	Specifications
Equipment	<u>Enware</u> <i>EEE180</i> Stainless steel construction Safety eyewash Hand operated
Finish	Standard brushed stainless steel High visibility yellow epoxy coated push handle
Mounting Options	Freestanding

5.2.5 Eyewash Type E



CODE	SIZE	COMMENTS
QEE1		Laboratory

Item	Specifications
Equipment	<i>Enware EE120</i> Stainless steel construction Safety eyewash Hand operated
Finish	Standard brushed stainless steel
Mounting Options	Wall mounted

5.3 Laboratory Sink – QS

5.3.1 Laboratory Sink Type A



CODE	SIZE	COMMENTS
QSA1	300W x 300L x 250D	Laboratory
QSA2	400W x 300L x 250D	

Item	Specifications
Equipment	<u>Stainless Metal Craft LS1</u> Laboratory sink
Materials	316 Stainless steel
Finish	Polished stainless steel
Mounting Options	Mounted in bench top

5.3.2 Laboratory Sink Type B



CODE	SIZE	COMMENTS
QSB1	180W x 115L x 180H	Laboratory

Item	Specifications
Equipment	<u>Lotus Technologies Model PPS5202B</u> Chemical resistant cup sink High grade PP
Finish	Matt finish
Mounting Options	Flush mounted to bench top (Recessed edge in bench top)

5.4 Laboratory Basin – QB

5.4.1 Laboratory Basin Type A



CODE	SIZE	COMMENTS
QBA1	500W x 430D x 275H	Laboratory – hand washing

Item	Specifications
Equipment	<u>Caroma Integra 648210W</u> Wall basin Capacity: 10Litre 3 tap holes – to be used with tap <u>QTA1</u> 1 tap hole – to be used with tap <u>GTC1</u>
Finish	Ceramic, white only
Mounting Options	Wall mounted

5.5 Laboratory Fume Cupboard

5.5.1 Fume Cupboard



For all fume cupboard details, refer to **OEC Engineering Services Design Standards (ESDE)**

Mechanical Services – Fume Cupboards Design section

6 External Fittings

Item	Descriptor	Abbreviation
External Fittings	External Tap	ZT

6.1 External Tap – ZT

6.1.1 External Hose Tap Type A



CODE	SIZE	COMMENTS
ZTA1		All external areas

Item	Specifications
Equipment	<u>Enware</u> (VPK351) or <u>Galvin Engineering</u> (12542 hose cock & 12575 key) Brass hose tap with tamper proof key
Finish	Plain brass