

Design Standards & Product Specification for DoE Facilities

Part 2: Secondary Schools Western Australia





WA Secondary School Facilities Design Standards 2023

Guidelines relevant to Galvin Engineering product selection

*This Galvin Engineering document gives a snap shot of key points within the Primary School Subconsultants Brief and a snapshot of suitable products. For further details please refer to the relative subsection within the official brief document.

General Guidelines

This brief has been prepared to the define scope of hydraulic consultant services, project details and design requirements for secondary schools in Western Australia delivered by the Department of Finance (DoF) responsible with the leading, delivery and management of buildings for Government, including State owned education facilities.

The project shall:

- Meet relevant building codes, Australian Standards, DFES requirements, local authority approvals, Water Corporation, Alinta, and Finance requirements for spatial design, organisation, service and amenity provision;
- Integrate appropriate environmentally sustainable principles;
- Integrate fully coordinated hydraulic services systems and built form;
- Integrate robust, durable and easily replaceable / maintainable materials and systems;
- Respond to the history, heritage and character of the site and context;
- Resolve site constraints and capitalise on site assets;
- Create a safe environment that draws on evidence based design principles to encourage the best learning environment and education facility possible; and
- Contribute to the project achieving a minimum 4 star Green Star rating uring the Green Building Council of Australia's Rating Tool. (The project shall not be submitted for GBCA assessment unless required by DoE).

Soil, Waste and Vents (6.9.12.1)

- Cleanouts shall be used between manholes and on branch drains at locations required by AS3500 and the Regulating Plumbing Authority.
- Cleanouts shall be avoided within buildings wherever possible. Where this cannot be avoided, consideration to their location with respect to the disruption of school operation and acceSSof drain cleaning equipment must be given.
- Cleanout points within a building shall be screwed down type of nickel bronze or similar and set flush with the finished floor level.
- Cleanout points external to a building and within paved or concrete areas shall be constructed of the drain or waste material and finished with a screwed acceSScap housed in a hinged cast iron box set flush with the finished surface lever. Box shall be cast into a concrete base and embossed with the word "SEWER".



• All floor waste gullies shall consist of a 100mm P-trap, 100mm gully riser and a nickel bronze or similar grate set flush with finished surface level.

Location	Product Description	Image	Notes
FLOOR DRAIN OPTION 1; tile/concrete floor	302182X HeelGrate [®] Stainless Steel Floor Drain Grate Round 100x80 PVC Slip-In		 Square also available Other sizes also available Kits with cast iron bodies and puddle flanges also available
FLOOR DRAIN OPTION 2; tile/concrete floor	302185X HeelGrate [®] Stainless Steel Floor Drain Grate Round 150x100 PVC/HDPE/CU Slip-In		 Square also available Other sizes also available Kits with cast iron bodies and puddle flanges also available
FLOOR DRAIN OPTION 3; vinyl floor	303176X Stainless Steel Floor Drain Grate Assembly Vinyl 100x80 PVC Slip- In		 Other sizes also available Kits with cast iron bodies and puddle flanges also available
FLOOR DRAIN OPTION 4; vinyl floor	303185X HeelGrate® Stainless Steel Floor Drain Vinyl Round 150x100 with Stainless Steel Body PVC/HDPE/CU Slip-In		 Other sizes also available Kits with cast iron bodies and puddle flanges also available
CLEANOUT OPTION 1; tile/concrete floor	67790X Slip-Safe® SS316 Bolted Cleanout Round 150x100 PVC/HDPE/CU Slip-In		 Other sizes also available Kits with cast iron bodies and puddle flanges also available
CLEANOUT OPTION 2; tile/concrete floor, square	67778X HeelGrate [®] Slip-Safe [®] SS316 Bolted Cleanout Square 150x100 PVC / HDPE Slip-In	0	 Kits with cast iron bodies and puddle flanges also available
CLEANOUT OPTION 3; vinyl floor	69468X Slip-Safe [®] SS Vinyl Bolted Cleanout 150x100 PVC/HDPE/CU Slip-In		 Other sizes also available Kits with cast iron bodies and puddle flanges also available



Trade Waste (6.9.12.2)

• Cafeteria sink outlets and floor waste gullies shall incorporate removable primary and fixed secondary strainers in accordance with Water Corporation Western Australia.

Location	Product Description	Image	Notes
Industrial Floor Waste Combo; round, tile/concrete	DI4M06RX Industrial Floor Waste Combo Stainless Steel Round Grate 150x100 PVC/HDPE & Dual S/S Strainer		 AS 3996 Class C and EN1253 Class C load rating AS/NZS 4994:1998 Discharge of commercial and industrial waste water to sewer
Industrial Floor Waste Combo; square, tile/concrete	DI4M06SX Industrial Floor Waste Combo Stainless Steel Square Grate 150x100 PVC/HDPE & Dual S/S Strainer		 Single and double strainer options available Load rated to Class C
Industrial Floor Waste Combo; square, tile/concrete	DI4M08SX Industrial Floor Waste Combo Stainless Steel Square Grate 200x100 PVC/HDPE & Dual S/S Strainer		 Single and double strainer options available Load rated to Class C
Industrial Floor Waste Combo; round, vinyl	DI4M06VX Industrial Floor Waste Combo Stainless Steel Vinyl Round Grate 150x100 PVC/HDPE & Dual S/S Strainer		 AS 3996 Class C and EN 1253 M125 AS/NZS 4994:1998 Discharge of commercial and industrial waste water to sewer

Stormwater Drainage (6.9.12.3)

- The landscape architect shall advise the hydraulic consultant on the positions/low points of required grated channels and/or paving drains and the area size discharging to these. The hydraulic consultant shall design a suitable system based on these requirements.
- The channel grates or paving drain grates in trafficable or pedestrian areas shall be of a design that allows wheelchairs, trolleys or bicycles to be safely wheeled across them, anti slip and have the ability to be locked down. Grates located in areas subject to vehicle loads shall be rated accordingly.



Location	Product Description	Image	Notes
PAVING DRAIN; round	302205X HeelGrate [®] Stainless Steel Floor Drain Round 300x150 BSP		 5mm gap between bars Suitable for concourse paving and tiled applications
PAVING DRAIN; square	302605X HeelGrate [®] Stainless Steel Floor Drain Square 300x150 BSx		 5mm gap between bars Suitable for concourse paving and tiled applications Load tested to Class B of AS 3996
PAVING DRAIN ADAPTOR	302180 ABS Floor Drain Adaptor 150BSP FI X 100PVC Slip- In		
PAVING DRAIN ADAPTOR	302173 ABS Floor Drain Adaptor 150BSP FI x 150PVC Slip- In		

Heated Water Service (6.9.12.5)

- Provide a tempered water service connection to supply the nominated maximum required temperatures to the following fixtures to all staff and student handbasins, eye wash facilities and showers including learning/teaching, change rooms, administration, student support, library and cafeteria.
- A thermostatic mixing valve shall be located at the water heater in a visible and easily accessible position and to be set to deliver the nominated temperature water at the outlet.
 - UAT/AAT Hand Basin 45°
 - UAT/AAT Showers (where provided) 45°
 - General eye wash facilities/emergency shower units 15.6° 37.8° in compliance with AS4775
 - Change rooms/student toilets hand basins cold water only
 - Staff toilets hand basins 45°
 - Change rooms showers 45°
- Provide a hot water service connection at the maximum nominated temperature to the preparation sinks to the cafeteria, tea preparation/kitchenettes sinks, cleaner's trough, food learning areas and food preparation sinks to administration, library and learning/teaching areas.
 - Food technology studios student sinks 50°
 - Materials/technology workshops activity troughs 50°
 - Art studios activity troughs 50°
 - \circ Staff tea prep sinks/kitchens learning blocks/administration/library sinks 60°
 - Cleaners troughs cleaners sink/trough 60°



o Cafeteria sink 75°

Location	Product Description	Image	Notes
ΤΜν	101.70.00.00 CliniMix [®] Lead Safe Thermostatic Mixing Valve		 Lead Safe[™] DZR Brass with less than 0.25% lead content Scald or cold water shock protection
TMV IN CABINET	101.10.70.10 CliniMix [®] Lead Safe TMV with Universal Cabinet		 Lead Safe™ material Scald or cold water shock protection
TMV IN CABINET; with bypass	101.11.70.10 CliniMix [®] Lead Safe TMV with Universal Cabinet with Bypass		 Lead Safe™ material Scald or cold water shock protection

Water end Energy Saving (6.9.12.6)

Suitable flow limiting valves should be fitted to showers, basins, ablution troughs, practical troughs and sinks. All fixtures and tapware shall comply with the WELS standard AS6400, specifically:

- Student ablution troughs shall be fitted with suitable cold only time flow tapware.
- The shower outlet specified should be suitable for use with a reduced flow rate. It should be noted that some shower heads with inbuilt water conservation systems give an uncomfortable and unsatisfactory shower, these types must be avoided.

Fire Service (6.9.12.7)

- Hydrants shall be located in easily accessible locations and highly visible from intended DFES appliance hardstand areas though as not to obstruct the movement of staff and students.
- The hydrant valves shall generally point in the direction of the DFES hardstand.
- In situations where hydrants are susceptible to vehicular contact, protection bollards shall be installed.
- Hydrant vandal resistant covers shall be installed over the hydrant valves, chained secure and padlocked all keyed alike.



Location	Product Description	Image	Notes
HYDRANT RISER	381337 Hydrant Riser with Dual Head, Flanged Inlet 100TE x 1500mm Long (Galv & Painted)		 Hot dipped galvanised to AS/NZS 4680 Drilled Table E flange
HYDRANT RISER	381358 Hydrant Riser with Dual Head, Flanged Inlet 150TE x 1400mm Long (Galv & Painted)		 Hot dipped galvanised to AS/NZS 4680 Drilled Table E flange
HYDRANT VALVE; threaded	381301 Red Emperor® Fire Valve 65BIC with BSP Inlet and Nylon Plug	T	AS 2419.2 compliant
HYDRANT VALVE; roll groove	381301rg Red Emperor® Fire Valve 65bic with Roll Grooved Inlet and Nylon Plug		• AS 2419.2 compliant
TAMPER COVER	381331 Tamper Proof Resistant Dual Hydrant Valve Cover with 003 Padlock.	C FIRE HYDBANTS	 Tamper resistant protection for fire landing valves Only suitable for dual head riser
FIRE HOSE REEL; fixed	383026re Red Emperor® F Series Fixed Fire Hose Reel with Swing Guide Arm		Certified to AS/NZS 1221
FIRE HOSE REEL; swing	382523 Red Emperor® G Series Swing Fire Hose Reel with Swing Guide Arm		Can be paired with hose reel cabinets
HOSE REEL CABINET	381905 Type A Exposed Fire Reel Cabinet	⊕ FIRE HOSE REEL	 Designed to suit G Series reels



HYDRANT BOOSTER	380162 WA/NT Pipeset For 100TE Firemain Booster & Hydrant (Painted & Assembled)	V	 Kits also available with cabinet. Kits also available with suction riser
HYDRANT BOOSTER	380170 WA/NT Pipeset For 150TE Firemain Booster & Hydrant (Painted & Assembled)		 Kits also available with cabinet. Kits also available with suction riser

Gas Service (6.9.12.9)b

• Provide reticulated gas service to new science buildings for room heating and for gas turrets to science laboratories.

Location	Product Description	Image	Notes
GAS TURRET; single outlet	TG37C GalvinLab [®] CP 1-Way Straight Gas Turret Type 37		
GAS TURRET; single outlet	TG37RAC GalvinLab [®] CP 1-Way Right Angle Gas Turret Type 37	and the second s	
GAS TURRET; dual outlet	TG40C GalvinLab [®] CP 2-Way Straight Gas Turret Type 40 – 90°	A REAL PROPERTY AND A REAL	 Other dual outlet configurations also available
GAS TURRET; dual outlet	TG40RAC GalvinLab® CP 2-Way Right Angle Gas Turret Type 40 – 90°	Para Sama	 Other dual outlet configurations also available
GAS TURRET; triple outlet	TG41C GalvinLab [®] CP 3-Way Straight Gas Turret Type 41		



GAS TURRET; quad outlet	TG42C GalvinLab [®] CP 4-Way Straight Gas Turret Type 42		
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Water Closets (6.9.13.1)

- There is a general preference for toilet cisterns to be concealed to prevent unauthorised access and accidental damage and vandalism. Access to cisterns for maintenance purposes nay be either via built in ducts or vandal resistant front access panels.
- Typically, toilets on ducts shall consist of a wall mounted concealed P-trap pan with induct 3/4.5 litre cistern, fixing kit, pneumatic dual flush button and soft closing double flap seat.
- Where concealment of toilet cisterns is not possible toilets should consist of a concealed S trap pan, close coupled vitrous china ³/₄.5 litre cistern with vandal resistant lid, and soft closing double flap seat.
- Disabled toilets shall consist of disabled concealed P-trap pan, mid mounted vitreous china cistern with separate backrest, chrome plated disabled flush buttons; chrome plated flush pipe and disabled grey coloured single flap seat with 30% contrast in colour.

Location	Product Description	Image	Notes
TOILET SUITE	105.10.00.00 GalvinAssist [®] Wall Faced, Clean Flush Toilet Suite with Soft Close Seat		 Soft-closing, easy-clean quick release seat Suitable for S or P trap installations
TOILET SUITE; ambulant	105.10.20.00 GalvinAssist® Wall Faced, Clean Flush Ambulant Toilet Suite with Soft Close Seat		 Soft-closing, easy-clean quick release seat Suitable for S or P trap installations Compliant with AS1428.1 Ambulant guidelines
TOILET SUITE; disabled	105.10.10.01 GalvinAssist® Wall Faced, Clean Flush Disabled Toilet Suite with Blue Soft Close Seat		 Soft-closing, easy-clean quick release seat Suitable for S or P trap installations Compliant with AS1428.1 Ambulant guidelines

• Particular attention shall be given to the set-out of disabled fixtures to comply with AS1428.



TOILET PAN TOILET PAN; disabled IN WALL CISTERN	105.11.00.00GalvinAssist® Wall Faced, Clean Flush Toilet Pan with Soft Close Seat105.11.10.01GalvinAssist® Wall Faced, Clean Flush Disabled Toilet Pan with Blue Soft Close Seat105.94.00.00GalvinAssist® Slim Design Inwall Cistern	 To be paired with in wall cistern and push buttons Soft-closing, easy-clean quick release seat Suitable for S or P trap installations To be paired with in wall cistern and disabled push buttons Soft-closing, easy-clean quick release seat Suitable for S or P trap installations Soft-closing, easy-clean quick release seat Suitable for S or P trap installations Compliant with AS1428.1 Ambulant guidelines Suits floor mount toilet pan Front access to cistern through flush plate
PUSH BUTTONS PUSH BUTTONS; disabled	105.95.00.00GalvinAssist® Chrome,Dual Flush, PneumaticButtons and Plate105.96.00.00GalvinAssist® Chrome,Dual Flush, PneumaticDisabled Buttons andPlate	 Premium pneumatic system Provides complete access to in-wall cistern Premium pneumatic system Provides complete access to in-wall cistern

Basins (6.9.13.2)

Student (typical)

• Basins shall be vitreous china or to approval approximately 500mm wide x 430mm deep with one tap hole and secured with heavy duty tie brackets.

UAT (typical)

- Basins shall be vitreous china wall hung approximately 550mm wide x 435mm deep with one tap hole and secured with heavy duty wall brackets.
- Particular attention shall be given to the set-out of disabled fixtures to comply with AS1428.

Staff (typical)

• Basins shall be vitreous china or to approval approximately 500mm wide x 430mm deep with one tap hole and secured with heavy duty tie brackets. Basin to be inset to vanity bench nominally 600mm depth, length to suit number of staff utilising ablutions.



Cafeteria

• Basins shall be vitreous china wall hung approximately 550mm wide x 435mm deep with one tap hole and secured with heavy duty wall brackets.

Location	Product Description	Image	Notes
STUDENT	105.32.10.01 GalvinAssist [®] 500mm Wall Mounted Basin 1TH		
STUDENT / STAFF	105.32.12.01 GalvinAssist [®] Plati Square Above Counter Basin 1TH	K.	
UAT / CAFETERIA; left hand bowl	105.33.10.01 GalvinAssist [®] Accessible 600mm Wall Basin, LH Bowl, 1TH	the contract of the second sec	 Accessories not included Left hand bowl 1 taphole
UAT / CAFETERIA; right hand bowl	105.33.11.01 GalvinAssist® Accessible 600mm Wall Basin, RH Bowl, 1TH		 Accessories not included Left hand bowl 1 taphole
BOTTLE TRAP	105.93.00.00 GalvinAssist [®] Chrome Round Bottle Trap Suits 32/40mm Waste		 Suits 32 or 40 mm wastes Designed for use with wall basins and installations with exposed plumbing

Sinks and Troughs (6.9.13.3)

Medical Room

• Stock pattern single end bowl stainless steel inset sink with one tap hole centre to bowl.

Staff Room

• Stock pattern double centre bowl stainless steel inset sink with one tap hole centre to bowls.

Library

• Stock pattern single end bowl stainless steel inset sink with one tap hole centre to bowl.



Cleaners Sink

• Stock pattern stainless steel cleaners sink with rear tile upstand, hinged stainless steel grate and fixed on heavy duty galvanised steel wall brackets.

Cafeteria Sink

• Stock pattern double centre bowl stainless steel inset sink with one tap hole centre to bowls.

Gardeners Trough

• Stock pattern stainless steel inset laundry trough with one tap hole.

Ablution Troughs

• Stock pattern stainless steel ablution trough nominally 1200mm length with tile upstand and fixed on heavy duty galvanised steel wall brackets.

Practical Troughs

• Stock pattern stainless steel typically 1800mm x 600mm x 200mm deep with rear tile upstand and fixed on mild tubular steel to match bench support. Typically located to design and technology – visual arts studio.

Location	Product Description	Image	Notes
STAFF ROOM / CAFETERIA SINK	105.82.00.01 GalvinAssist [®] Stainless Steel 1500mm Double Bowl Sink 1TH		 Sound deadening, designer basket waste
MEDICAL ROOM / LIBRARY; left hand bowl	105.80.00.01 GalvinAssist® Stainless Steel 800mm Single LH Bowl Sink 1TH		
MEDICAL ROOM / LIBRARY; right hand bowl	105.80.10.01 GalvinAssist [®] Stainless Steel 800mm Single RH Bowl Sink 1TH		

Tapware and Outlets (6.9.14)

In general terms, tapware and outlets shall:

- Be WELS rater (refer Green Star Rating Tool);
- Carry Watermark standards;
- Incorporate vandal resistant features;
- Of chrome plated brass construction;
- Fitted with heavy duty jumper brass jumper valves;
- Colour coded buttons indicating either cold or hot; and
- Mixer tap hoses shall connect to mini stop isolation valves.



Basins (6.9.14.2)

Students

• Chrome plated solid brass basin mixer tap with soft close ceramic disc cartridge, lever handle and 150mm swivel outlet of similar length.

UAT

• Chrome plated solid brass basin mixer tap with soft close ceramic disc cartridge, extended lever handle and 150mm swivel outlet of similar length.

Staff

• Chrome plated solid brass basin mixer tap with soft close ceramic cartridge and 150mm swivel outlet.

Location	Product Description	Image	Notes
STUDENTS / STAFF	TM-BASCP CliniLever [®] CP Single Lever Basin Mixer		 Vandal-resistant Anti-scald adjustable stop ring Optional warm/cold indicator decal
STUDENTS / STAFF	TM-BASX CliniLever® Stainless Steel Lead™ Safe Basin Mixer		 Lead Safe[™] material
UAT	TM-BASCPD CliniLever® CP Single Lever Disabled Basin Mixer with Extended Lever		 Anti-scald adjustable stop ring Optional warm/cold indicator decal AS 1428.1 accessible compliant
UAT	TM-BASXD CliniLever® Stainless Steel Lead Safe™ Disabled Basin Mixer with Extended Lever		 Lead Safe™ material AS 1428.1 accessible compliant



Sinks and Troughs (6.9.14.3)

Medical Room

• Chrome plated solid brass sink mixer tap with soft close ceramic disc cartridge and 150mm swivel outlet.

Staff Room

• Chrome plated solid brass sink mixer tap with soft close ceramic disc cartridge and 240mm swivel outlet.

Library

• Chrome plated solid brass sink mixer tap with soft close ceramic disc cartridge and 150mm swivel outlet.

Cafeteria

- Chrome plated solid brass sink mixer tap with soft close ceramic disc cartridge and 240mm swivel outlet.
- Over pot sink chrome plated solid brass cold and hot wall set with heavy duty chrome plated braSS300mm swivel goose neck outlet.

Cleaners Sink

- 1 No. chrome plated solid brass vandal resistant cold and hot wall set with 200mm swivel gooseneck outlet.
- 1 No. non-potable cold water threaded bib tap over cleaners sink connected to a double check valve mounted on wall.

Gardeners Trough

• Chrome plated solid brass sink mixer tap with soft close ceramic disc cartridge and 240mm swivel outlet.

Ablution Troughs

• Push button time flow chrome plated solid brass or approved equal bib taps with 50mm bib extensions (cold only). Number of outlets to suit length of trough provided.

Practical Troughs

- Typically located to design and technology & visual arts studio.
- 1 No. cold and hot chrome plated solid brass wall set with 200mm swivel gooseneck outlet.
- 3 No. cold ONLY chrome plated solid brass wall sets with 200mm swivel gooseneck outlet.

Location	Product Description	Image	Notes
STAFF ROOM /	TM-SNKCP		Anti-scald adjustable
CAFETERIA /	CliniLever [®] CP Single	-	stop ring
GARDENERS	Lever Sink Mixer	in the	Extended 165mm lever
TROUGH		t	for easy access
			AS 1428.1 accessible
			compliant



STAFF ROOM / CAFETERIA / GARDENERS TROUGH	TM-SNKX CliniLever [®] Stainless Steel Lead Safe [™] Sink Mixer		• Lead Safe™ material
CAFETERIA	TF76WC-ESS Ezy-Wash [®] CP Wall Mounted Exposed Mixing Unit Type 76 with 300mm Reach		
CLEANERS SINK	174.51.22.03 Vandal Resistant CP Lead Safe [™] Wall Sink Set with Swivel Gooseneck	C. C. C.	Ceramic disc also available
CLEANERS SINK	49965 Vandal Resistant CP Hose Tap - Cold		 Ceramic disc also available Hot also available Vandal resistant handle
ABLUTION TROUGHS	173.46.21.00 Ezy-Push [®] CP Lead Safe [™] Timeflow Push Button Bib Tap 6 Second		• 15 second also available
PRACTICAL TROUGHS; hot and cold	174.51.22.03 Vandal Resistant CP Lead Safe [™] Wall Sink Set with Swivel Gooseneck	G.C. G.M.	 Ceramic disc also available
PRACTICAL TROUGHS; cold only	174.51.22.03C Vandal Resistant CP Lead Safe [™] COLD ONLY Wall Sink Set with Swivel Gooseneck		



Cold Water Drinking Units (6.9.14.4)

• Front mounted on/off push button taps for bubblers, end mounted on/off push button taps for bottle fillers and top mounted angled outlets fitted with rubber mouthguards. Number of outlets to suit length of trough provided.

Location	Product Description	Image	Notes
BUBBLER	170.81.13.01 Ezy-Drink [®] CP Lead Safe [™] Remote Push Button Drinking Bubbler		 Lead Safe[™] material Vandal resistant design AS 4020 approved mouthguard
BUBBLER	TD15XP Ezy-Drink® SS316 Lead Safe [™] Remote Push Button Drinking Bubbler		 Lead Safe[™] material Vandal resistant design AS 4020 approved mouthguard
BUBBLER	170.81.12.00 Ezy-Drink [®] CP Lead Safe [™] Remote Electronic Drinking Bubbler (Mains)		 Lead Safe™ material Vandal resistant design AS 4020 approved mouthguard Battery also available
JUG FILLER	170.81.73.01 Ezy-Drink [®] CP Lead Safe [™] Remote Push Button Valve Only		• Lead Safe [™] material

UAT & AAT Showers (5.10.13.11)

• Shower mixer tap with soft close ceramic disc cartridge and with extended handle, 1500mm long flexible hose fitted with chrome plated dual check valve and handheld outlet on nominally 32mm diameter 900mm long stainless steel rail in accordance with AS1428.

Location	Product Description	Image	Notes
SHOWER MIXER	TM-SHWCP CliniLever [®] Single Lever Shower Mixer CP		



SHOWER MIXER	TM-SHWCPD CliniLever® Single Lever Shower Mixer with Disabled lever CP		 Extended 165mm lever for easy access AS 1428.1 accessible compliant
SHOWER MIXER	TM-SHWX CliniLever® Stainless Steel Single Lever Shower Mixer	STOR	 Lead Safe™ material AS 1428.1 accessible compliant
RAIL SHOWER	41999 GalvinAssist [®] Hand Shower Kit with 900mm Stainless Steel Rail		 Chrome plated version also available Other rail configurations also available AS 1428.1 accessible compliant
RAIL SHOWER	CLEVA035 GalvinAssist [®] Hand Shower Kit with 900mm Stainless Steel Grab Rail & ClevaCare [®] Shower		 Other configurations also available Chrome plated version also available AS 1428.1 accessible compliant

Urinals (6.9.14.7)

- Urinal flushing via 240 volt automatic electronic flusher with a ceiling mounted microwave motion sensor and induct solenoid valve. A 20mm ball valve, line strainer and water hammer arrestor to be installed upstream of the solenoid valve. An air break device inline to a 40mm PVC flush pipe shall be installed downstream of the solenoid valve.
- The flusher shall be programmed to operate a pre-flush on detection of a user, a full flush on detection that the user is out of range and a janitor flush set to operate automatically every 6 hours.

Location	Product Description	Image	Notes
URINAL	TZ-FLOWFLUS Flowmatic Automatic Flusher for Urinal		