

ROBUST HOUSING SOLUTIONS

Image courtesy of Berkeley Vale Private Hospital



August 2021

Water Solutions for a Healthier Environment

Galvin Engineering is a 4th generation family owned and operated Australian manufacturing company, and master distributor. Being represented nationally we have assisted in the design and delivery of hundreds of Mental Health and Robust Housing projects of all types over our 90 years, and we have extensive experience in providing specialised tapware and bathroom solutions.

Providing A Safe Environment

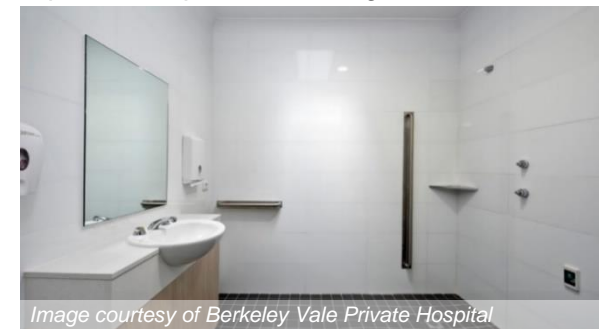
Mental health designers are unanimous in believe providing patients with a more home-like 'normalised' space, the treatment is a quicker and better outcome. This core design philosophy results in shorter lengths of stay, lower levels of aggression and critical incidents, better client outcomes as well as improved staff conditions and satisfaction.

Galvin Specialised is committed to designing innovative products by collaborating with industry specialists, that provide optimal environments for patients by delivering products that are:

- Anti-ligature to help minimise the risk of self-harm
- Easy to use particularly for patients that may have issues with comprehension
- Vandal resistant to minimise damage and the use of products as a weapon
- Enhancing safety for patients and caregivers

Creating a normalised, homely environment is challenging but very possible with our range of GalvinCare[®] tapware coupled with Wallgate solid surface sanitary fixtures. To provide the highest level of safety for patients and staff, design has traditionally taken the back seat. This includes important aspects such as:

- Provision of a substantial level of privacy and dignity, which is essential for a faster recovery
- Reduced possibility of suicide by avoiding elements that might support hanging or self-injury
- Layout optimisation through less crowding, movable furniture, better acoustics, nature window views, nature art, higher daylight exposure, and proximity and visibility of common spaces to the staff station



What is Solid Surface?

The super tough Solid Surface material is made from a hybrid NORSODYNE resin giving it a high level of strength and durability delivered with a domestic touch and feel. This unique material was developed in the UK by our design partners Wallgate. Our Cast Solid Surface Sanitary-Ware products are manufactured from a composite of fine grade aluminium tri-hydrate filler (ATH) and the highest quality Polyester resins.

This close-knit molecular structure is very tough and highly resistant to chemical attack, and has the highest rating on the ISO EN 19712-3-2007 standard for durability, stain resistance, cigarette burns etc.

Features and Benefits:

- Anti-ligature
- Damage resistant, encourages normal behaviour:
 - Flame resistant, low smoke (BS 476)
 - Chemical and urine resistant
- Long lasting (typically 25 years) and keeps appearance
- Complies with multiple BS and ISO 19712
- Domestic appearance, non-institutional feel
- Renewable surface – burns, stains and other damages are removable
- Improves cleanliness
- Dementia assisting colour contrasts
- Bariatric compatible



Maitland Hospital

With all robust high risk anti-ligature fixtures, it is imperative to ensure the correct installation procedures and special requirements are adhered to. All items listed require some level of access for installation and maintenance. In some instances, rear duct access is required to ensure the performance integrity of the fixture or fitting.

N.B. Please ensure reference to the TDS during the design phase.

When installed with cisterns, cistern heights are critical for the proper flush requirements. The cistern height as shown below must be installed between 353mm and 373mm from centre of the flush pipe entry into the pan to the underside of the cistern

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WC Options

| Application | Sanitaryware | Flushing | Installation |
|----------------------------------|--|--|---|
| High / Medium Risk Ensuite | Wallgate Anti-Ligature, Anti-Vandal Solid Surface Back To Wall Pan S&P 425 x 691 with Seat Fixings – White Code: CWC-155W-SF-AUS Wallgate Hinged Toilet Seat Heavy Duty No Lid & Secure Fixings – Black Code: TS0005 |   |   |
| | Wallgate Anti-Ligature, Anti-Vandal Solid Surface Integrated Seat Back To Wall WC Pan S&P-Trap Only - White 446X702 Code: CWC-155W-AST-AUS |  | |
| Low Risk Ensuite | GalvinAssist® wall faced close coupled WC, Cleanflush rimless Contemporary style, wall faced, Soft close/quick release seat, WELS 4 star Code: 105.11.00.00 |  | |

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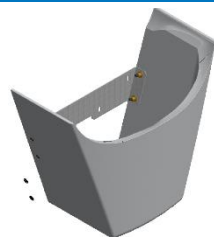
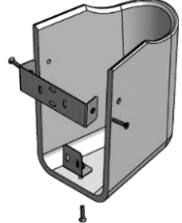



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|--|--|--|---|---|
| High / Medium Risk Ensuite – Accessible | Wallgate Anti-Ligature, Anti-Vandal Solid Surface Integrated Seat Back To Wall WC Pan S&P-Trap Only - White 446X702 Code: CWC-155W-AST-BCA |  | Galvin Vandal Resistant Dual Flush Push Button Assembly with Polished Stainless Steel Plate - Pneumatic Code: 656510 Wallgate Pneumatic Activated Concealed Dual Flush Cistern 3/4.5Ltr Cistern Only Code: CIST19-PNEU-2 |  |
| Low Risk Ensuite – Accessible | GalvinAssist® increased height WF WC, 460 x 800mm S/P pan, with double flap blue seat for assisted living Code: 105.11.10.01 |  | GalvinAssist® Back rest Code: 105.76.02.01 |  |

Basin Options

| Application | Sanitaryware | | Tapware | |
|----------------------|---|--|--|---|
| High Risk Ensuite | Wallgate Anti-Ligature, Anti-Vandal Solid Surface Basin with Single Out, 2x Piezo Activation - White N.B. DUCT ACCESS REQUIRED Code: WHB-201W-2-AUS |  | | |
| | Wallgate anti-ligature, anti-vandal solid surface basin with integrated single outlet no tap holes – white N.B. DUCT ACCESS REQUIRED Code: WHB-201W-NB-AUS |  | Galvin Chrome Plated Brass Heavy duty Ezy-Grip wall mounted recess adaptors Code: 50117C (Cold) Code: 50133C (Hot) |  |

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|---------------------|--|--|---|---|
| | | | GalvinCare® Chrome Plated Brass Mental Health Paddle Handle Wall Top Assembly Complete 1/4 Turn C/D Code: 50162C (Cold) Code: 50169C (Hot) |  |
| Medium Risk Ensuite | Wallgate Solid Surface risk minimisation, heavy duty hand wash basin. 470 x 380mm (Tap holes available on request) Code: SHB-05W-NT |  | Galvin Chrome Plated Brass Heavy duty Ezy-Grip wall mounted basin Set Complete with Vandal Resistant outlet Code: 50117C (Cold) Code: 50133C (Hot) Code: 40684 |  |
| Shrouds | Wallgate Large Full Shroud Only for SHB Wall Mount Basin - Trap & Fixture Cover Code: SHBS02W |  | Wallgate Small Shroud Only for SHB-05 Wall Mount Basin - Trap Cover Only Code: SHBS01W |  |
| Low Risk Ensuite | GalvinAssist® Type C Basin D shape 500 x 410mm, with overflow & optional Shroud. Code: 105.32.10.01 (1 tap hole) Code: 105.35.20.00 (Shroud) |  | Galvin Chrome Plated Brass Heavy Duty Ezy-Grip Wall Mounted Basin Set Complete with Vandal Resistant Outlet Code: 50117C (Cold) Code: 50133C (Hot) Code: 85156 |  |
| | | | Galvin CliniLever® heavy duty Stainless Steel Lead Safe™ Basin Mixer with oversize directional indicators. Code: TM-BASX |  |

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| Accessible Basin | Wallgate DDA Compliant Solid Surface Hand Basin 470 x 440mm- Front Fixed RH Tap Hole (shroud not included) Code: SHB-04-RT |  | Galvin CliniLever® heavy duty Stainless Steel Lead Safe™ Accessible Basin Mixer with oversize directional indicators. Code: TM-BASDX |  |
| | | | GalvinCare® Chrome Plated Brass Mental Health Paddle Handle Wall Top Assembly Complete 1/4 Turn C/D Code: 50162C (Cold) Code: 50169C (Hot) |  |

Shower Options

| Application | | Products | | |
|-------------------|---|--|--|---|
| High Risk Ensuite | GalvinCare® CP-BS Inwall Progressive Mental Health Anti-Ligature Shower Mixer (Non TMV) W&C Code: 50202 N.B. TMV REQUIRED FOR SCALD PROTECTION |  | Galvin CliniMix® Lead Safe™ Inwall Thermostatic Progressive Shower Mixer with GalvinCare® Handle (Warm & Cold) Code: 100.50.75.01 |  |
| Sub components | Wallgate Single Piezo and Cable Only for Shower Assembly with 4 Metre (To Suit Plate) Code: ES6803-4M-SHWR |  | Wallgate Water Valve Pack Shower Complete with 1x 8lpm Solenoid 4m Cables. Code: WVPS400-AUS |  |

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| Medium Risk Ensuite | Galvin Chrome Plated Brass Heavy duty Ezy-Grip wall mounted recess adaptors Code: 50117C (Cold) Code: 50133C (Hot) |  | Wallgate Anti-Ligature brushed SS Ceiling Mounted Shower with Removable Plate & Anti-Ligature Screw Code: SNC-02-AUS |  |
| | GalvinCare® CP-BS Mental Health Anti-Ligature Wall Mounted Shower Rose 65 – Std Code: 40691 | | GalvinCare® CP-BS Mental Health Anti-Ligature Wall Mounted Shower Rose 65 – Std Code: 40691 |  |
| High Risk Ensuite – Accessible | GalvinCare® Chrome Plated Brass Mental Health Paddle Handle Wall Top Assembly Complete 1/4 Turn C/D Code: 50162C (Cold) Code: 50169C (Hot) |  | GalvinCare® CP-BS Mental Health Anti-Ligature Safe-Connect Shower Head with Hand Shower Code: 42020 |  |
| | Galvin CliniMix® Lead Safe™ Inwall Thermostatic Progressive Shower Mixer with GalvinCare® Handle – Electronic Code: 100.50.76.02 | | | |

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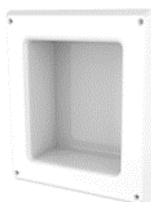





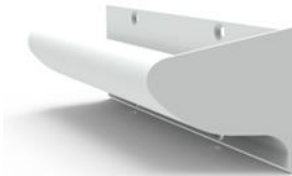
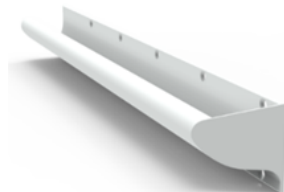
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|-------------------------------------|---|--|--|--|
| Low Risk Ensuite – Accessible | Galvin CliniMix® Lead Safe™ Accessible Inwall Thermostatic Progressive Shower Mixer – Lever Code: 100.50.72.00 |   | | |
| | Galvin CliniLever® heavy duty Stainless Steel Lead Safe™ Shower or Bath Mixer Code: TM-SHWX |   | | |
| | GalvinAssist® Healthcare Handheld Shower Kit with 900 x 32 Hygienic Stainless Steel Grab Rail Code: 41999 |   | Galvin Clinilever® Single Lever Shower Mixer with 165mm Disabled Lever Code: TM-SHWCPD |  |

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Ensuite Anti-Ligature Accessories

| Application | | Products | | |
|---------------------------------|---|--|---|---|
| Exposed Shelf | Wallgate Anti-Ligature, Anti-Vandal Solid Surface Shelf Rear Fixed Code: ALF-02W (235X100mm) Code: ALF-01W (470X125mm) |  | Wallgate Anti-Ligature, Anti-Vandal Solid Surface Shelf Rear Fixed Code: ALF-03W-BCA (470 x 140mm) |  |
| Recessed Shelf | GalvinCare® MH Anti-Ligature Solid Surface Recessed Washroom Shelf Code: ALF-04 (200x240x90mm) |  | GalvinCare® MH Anti-Ligature Solid Surface Recessed Washroom Shelf 500 x 200 x 125 Code: 42100 |  |
| Mirrors (front and rear fixing) | Wallgate Anti-Ligature Polycarbonate Mirror with Solid Surface Surround Code: ALM-02W (250X350mm) Code: ALM-03W (500X650mm) Code: ALM-06W (450X1010mm) |  | Wallgate Anti-Ligature Polycarbonate Mirror with Solid Surface Surround Front Fixed Code: ALM-03FF-W (500X650mm) |  |
| Toilet Roll Holders | Wallgate Anti-Ligature, highly robust surface mounted toilet roll holder with front fixings. Code: TRH-02W |  | GalvinCare® MH Anti-Ligature Solid Surface Recessed Toilet Roll Holder Code: TRH-04 |  |
| Grab Rails | GalvinCare® Mental Health Anti-Ligature Grab Rail Powder Coated (Vert or Horiz) Code: 42200 (300mm LH) Code: 42207 (300mm RH) |  | GalvinCare® Mental Health Anti-Ligature Grab Rail Powder Coated (Vert or Horiz) Code: 42235 – 700mm LH Code: 42242 – 700mm RH Code: 42249 – 900mm LH Code: 42256 – 900mm RH |  |

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| | GalvinCare® Mental Health A/Ligature 30 deg Grab Rail 700x900mm Powder Coated (Vert or Horiz) Code: 42284 (LH) Code: 42287 (RH) |  | GalvinCare® Mental Health A/Ligature 90 deg Grab Rail 700x900mm Powder Coated (Vert or Horiz) Code: 42290 (LH) Code: 42294 (RH) |  |
| Ambulant | GalvinCare® Mental Health A/Ligature 90 deg Grab Rail 450x450mm Powder Coated - (Vert or Horiz) Code: 42271 (LH) Code: 42277 (RH) |  | GalvinCare® Anti Ligature Single Robe/Towel Hook <i>Available in double hook</i> Code: THK-01 |  |
| Drainage | Galvin Safe-Cell® Anti-Ligature Floor Drain Assembly 80BSP, w/- adaptor to push into 100pvc/hdpe Code: 303070X Code: 302168 |  | Galvin Safe-Cell® Anti-Ligature Floor Drain Assembly 80mmBSP, to suit vinyl floor w/- adaptor to push into 100pvc/hdpe Code: 303077X Code: 302168 |  |

Applications – What level of risk

High Risk

Relates to acute mental health patients requiring immediate treatment who are at risk of personal harm. They may be self-admitted or committed to either a specialist healthcare facility or present at the Emergency Department of any hospital. High risk in psychiatry most often refers to potential suicide risk and can be associated with a wide demographic range due to physical health, psychiatric diagnosis, behaviours such as substance abuse, and so forth, which is becoming increasingly prevalent. Unfortunately, a diagnosis of borderline personality disorder is associated with an 8-10% lifetime suicide rate. High risk tends to be associated with Government facilities whereas private specialist centres tend to cater more for medium to low risk client requirements.

Medium Risk



Most facilities with high risk services will also cater for medium risk subacute care for people who are not severely ill but need support to regain their ability to carry out activities of daily life requirements as patients' transition. The fixtures tend to have the same anti-ligature features, with some higher risk patients having a level of control of water service usage (run time, time out periods etc)

Low Risk or Non Acute Care

This is where the primary clinical purpose or treatment goal is support for a patient with impairment, activity limitation or participation restriction due to a health condition. This is also known as 'maintenance care' associated with a more stable mental state with patients having minor conditions that can be more easily managed. As clients transition back into society, there is a lower focus on ligature risk and increased need for fixture and fitting normalisation. To this end the product still needs to be robust with the inclusion of rimless toilets which offer a level of protection, but also deliver a physically thicker material to accommodate the rimless flush.


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| Non Client room areas | | | | |
|----------------------------|--|--|---|---|
| Application | Sanitaryware | | Tapware | |
| Kitchen Sink / Common Area | GalvinAssist® Heavy duty 304 grade stainless steel sink 800 x 480 x 180mm 0.8mm, basket waste Code: 105.80.00.01 (RH) Code: 105.80.10.01 (LH)  |  | Galvin CliniLever® Stainless Steel Lead Safe™ Sink Mixer Code: TM-SNKX |  |
| | GalvinAssist® Heavy duty 304 grade stainless steel sink 980 x 480 x 180mm 0.8mm, basket waste, Code: 105.81.00.01 (RH) Code: 105.81.10.01 (LH)  |  | Galvin CliniLever® Accessible Single Lever Sink Mixer, WELS 5 Star Code: TM-SNKCPD |  |
| Cleaners Sink | Britex S/S Cleaners sink with wall bkt, 50mm waste, 600 x 500mm. Code: CSB |  | Galvin Vandal Resistant Wall Mixer Set, Jumper Valve with Deluxe Upswept Outlet 225mm Code 49952 |  |
| Laundry | GalvinAssist® 45 ltr S/S Laundry tub 610 X 510 X 240mm Code: 105.83.00.01  |  | | |
| Laundry | Galvin Vandal Resistant Chrome Plated Brass J/V Washing Machine Tap Code: 49920 Code: 49924 |  | Galvin hose tap with Institutional non removable handle, 15mm, MI Code: 49965 |  |

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| <p>Temperature Control and Scald Protection</p> | <p>Galvin CliniMix® TMV Stainless Steel Cabinet Ass w/ Universal Door 20 Cold Bypass, Bottom In & Out, Lead safe.</p> <p>Code: 101.11.70.10</p> <p>Galvin CliniMix® Lead Safe™ TMV SS Cabinet Assembly with Universal Door 20 Bottom In/Out</p> <p>Code: 101.10.70.10</p> |  | | |
|---|---|--|--|--|

Reference Standards

- AS/NZS 3500 – Plumbing and Drainage Standard
- AS 4032.1 – TMV Performance and Maintenance Standard
- AS 1428.1 – Disabled Standard (Public Accessible Toilets)
- AS 6400 WELS – Water Efficient Labelling Standard

For further information please call us on 1300 514 074 or visit galvinengineering.com.au