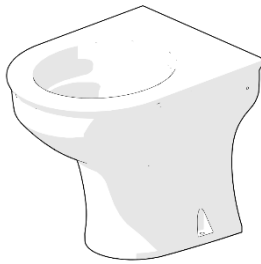
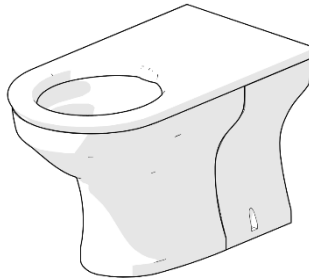


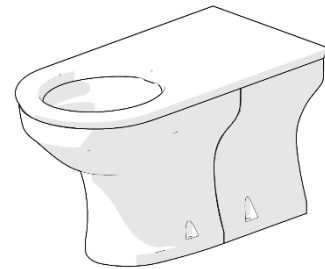
# Wallgate Ligature Resistant Solid Surface Pan



123.40.XX.40



123.43.XX.40



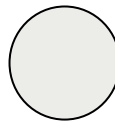
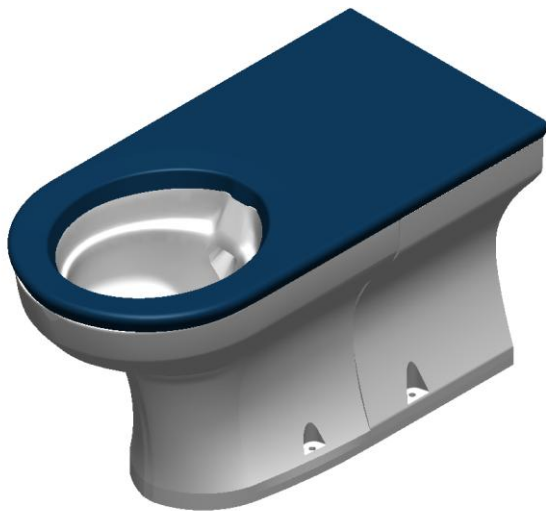
123.41.XX.40

123.42.XX.40

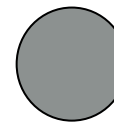
123.44.XX.40

\*XX is a place holder for the specific **size** and **seat** colour. Refer to Table 3 for details.

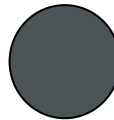
## Seat Colors



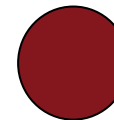
**White**  
LRV: 84,  
RAL: 9003



**Aluminium**  
RAL: 7042



**Grey**  
LRV: 3,  
RAL: 7011



**Ruby Red**  
RAL: 3003\*

\*Colour variance may occur



**Blue**  
LRV: 4,  
RAL: 5003

## SPECIFICATIONS

- Ligature resistant design
- Rimless flush
- Made of damage resistant, high grade solid surface material
- Available in a variety of seat colours
- Compatible with a wide range of flushing methods

**WARNINGS:** Special attentions to be paid on notes, photos, images, or drawings of assembly steps marked with the warning symbol.



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**1 TECHNICAL DATA**

|                                   |                                                                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight (kg)                       | See Table 3                                                                                                                                                        |
| Dimensions                        | See Section 3 – Dimensions and Layouts                                                                                                                             |
| Water Supply                      | Refer to the applicable product manual for the WC flush device                                                                                                     |
| Soil Pipe Connection (mm)         | 105/108mm External Diameter - Male Spigot                                                                                                                          |
| Flush Pipe Inlet                  | 55mm Internal Diameter - Female for 1.5" size pipe and pipe seal (as supplied with flushing device)                                                                |
| Flushing Device Flow Requirements | Cistern Flush: 1.85 – 2 Litres per second<br>Direct Flush: 1.5 Litres per second (nominally)<br><br>Refer to flushing device product information for full details. |

**NOTE:** Galvin Engineering continually strive to improve their products. Specifications may change without notice.

## 2 PAN CONFIGURATIONS AND ACCESSORIES

### 2.1 FIXING LOCATIONS AND KITS

There are 3 ways a pan can be firmly secured:

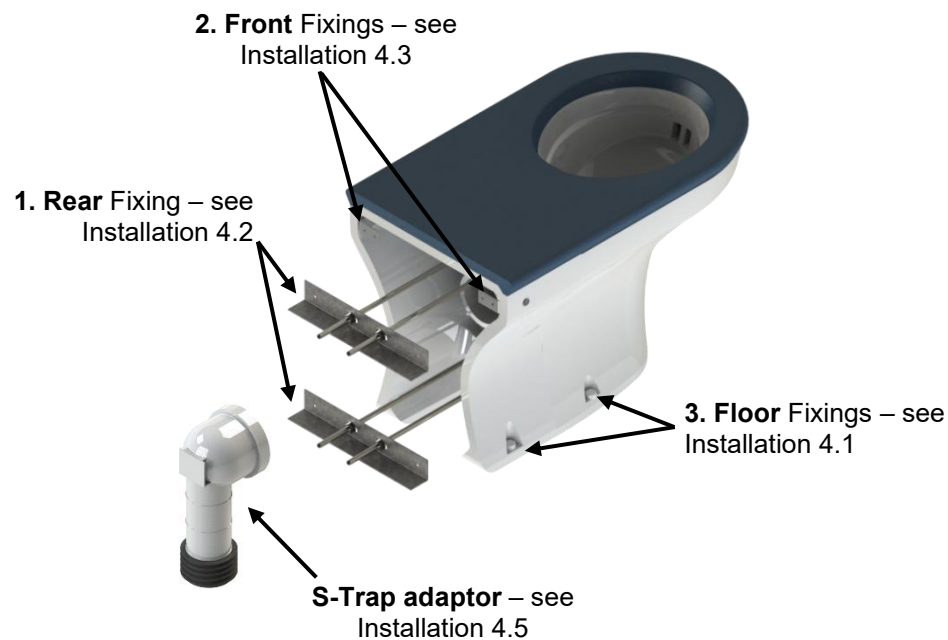
1. **Rear** fixing is recommended when there is a void behind the pan for plumbing connections. Bracket must sit firmly on a stud, concrete, or any other structurally firm wall preventing the pan from moving away from the wall (see chapter 4.2).
2. **Front** fixing is recommended when there is no void behind the pan, therefore installation must be done in front of the wall. Two brackets are mounted on the wall, the pan then slides over and is fixed to the brackets using self-drilling screws (see chapter 4.3). Front fixing can be used in conjunction with rear fixing if needed.
3. **Floor** fixing should be used with all pans (see chapter 4.1) and in conjunction with Rear or Front fixing. Floor fixings are supplied with all fixing kits.



Pan fixing kits are not supplied with the pan and need to be ordered separately. The type of fixing kits used will be dependent on the installation requirements. For fixing kit codes see Table 1 and Table 3.



Some fixing kits come packed with appropriate S-trap adapter (see Table 1 and Table 3).



| Table 1      |                                                      | Fixings and S-trap kits |       |       |        |
|--------------|------------------------------------------------------|-------------------------|-------|-------|--------|
| Code         | Description                                          | Rear                    | Front | Floor | S-trap |
| 123.94.00.90 | Rear & Floor Fixings                                 | ✓                       | ✗     | ✓     | ✗      |
| 123.94.02.90 | Front ( <b>445x523mm Pans only</b> ) & Floor Fixings | ✗                       | ✓     | ✓     | ✗      |
| 123.94.03.90 | Front & Floor Fixings                                | ✗                       | ✓     | ✓     | ✗      |
| 123.94.04.90 | Front & Floor Fixings & S-Trap Pan Adaptor kit       | ✗                       | ✓     | ✓     | ✓      |
| 123.94.05.90 | Rear & Floor Fixings & S-Trap Pan Adaptor kit        | ✓                       | ✗     | ✓     | ✓      |

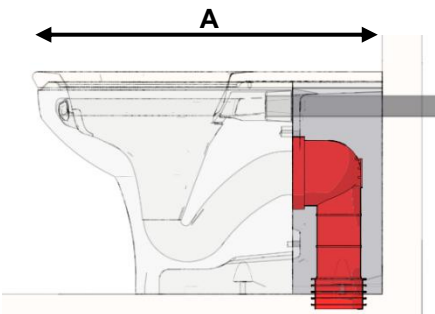
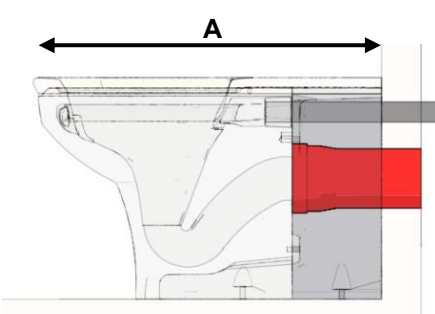
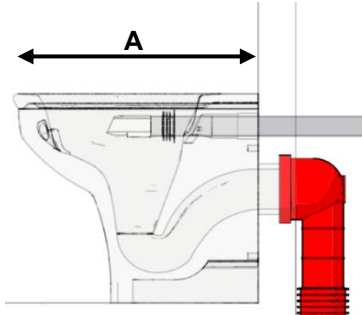
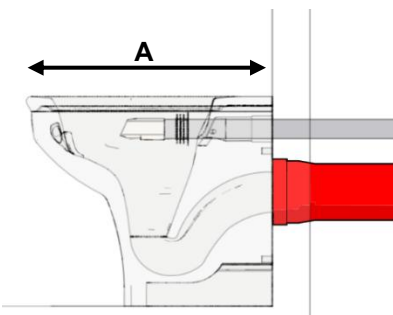
2.2 S/P TRAP POSITIONING

Pans with a length (A) of 700mm or greater have a hollow section that allows an S-trap adaptor to be fitted in front of the wall, as shown in Table 2.

Pans with a length (A) less than 700mm can still be used with an S-trap if required, but this will not fit within the pan footprint so consideration must be given to the plumbing connections and how the S-trap will sit within the wall.



All pans can accommodate P or S trap, but for short pans, special attention must be given to plumbing connections (drain location).

| Table 2                                                                  | S-Trap                                                                              | P-Trap                                                                                |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <div>A &gt;700mm</div> <div>S-trap fits in front of wall</div>           |   |    |
| <div>A &lt;700mm</div> <div>S-trap would sit behind or within wall</div> |  |  |

## 2.3 ITEM CODES AND CONFIGURATION OPTIONS

| Table 3      |                        |                                                                | Fixings and S-trap kits<br>(Not included – see Table 1) |                   |                   |                            |                           |           |             |
|--------------|------------------------|----------------------------------------------------------------|---------------------------------------------------------|-------------------|-------------------|----------------------------|---------------------------|-----------|-------------|
| Item No.     | Integrated Seat colour | Pan                                                            | 123.94.00.90                                            | 123.94.02.90      | 123.94.03.90      | 123.94.04.90               | 123.94.05.90              | Coved R35 | Weight (kg) |
| 123.40.11.40 | White                  | <b>Standard Pan<br/>445x523mm</b><br>(see Figure 2)            | Floor & Rear (*)                                        | Floor & Front (*) | -                 | -                          | -                         | *         | 55          |
| 123.40.12.40 | Grey                   |                                                                | Floor & Rear (*)                                        | Floor & Front (*) | -                 | -                          | -                         | *         | 55          |
| 123.41.31.40 | White                  | <b>Standard Pan<br/>446x702mm</b><br>(see Figure 3)            | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 70          |
| 123.41.32.40 | Grey                   |                                                                | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 70          |
| 123.41.33.40 | Blue                   |                                                                | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 70          |
| 123.41.34.40 | Aluminium              |                                                                | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 70          |
| 123.41.35.40 | Ruby Red               |                                                                | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 70          |
| 123.42.31.40 | White                  | <b>Ambulant Pan<br/>476x652mm</b><br>(see Figure 4)            | Floor & Rear                                            | -                 | Floor & Front     | -                          | -                         | ✓         | 70          |
| 123.42.32.40 | Grey                   |                                                                | Floor & Rear                                            | -                 | Floor & Front     | -                          | -                         | ✓         | 70          |
| 123.42.33.40 | Blue                   |                                                                | Floor & Rear                                            | -                 | Floor & Front     | -                          | -                         | ✓         | 70          |
| 123.42.34.40 | Aluminium              |                                                                | Floor & Rear                                            | -                 | Floor & Front     | -                          | -                         | ✓         | 70          |
| 123.42.35.40 | Ruby Red               |                                                                | Floor & Rear                                            | -                 | Floor & Front     | -                          | -                         | ✓         | 70          |
| 123.43.32.40 | Grey                   | <b>Accessible Pan<br/>460x750mm<br/>(NZ)</b><br>(see Figure 5) | Floor & Rear (*)                                        | -                 | Floor & Front (*) | Floor & Front & S-trap (*) | Floor & Rear & S-trap (*) | *         | 70          |
| 123.44.31.40 | White                  | <b>Accessible Pan<br/>460x810mm</b><br>(see Figure 6)          | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 80          |
| 123.44.32.40 | Grey                   |                                                                | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 80          |
| 123.44.33.40 | Blue                   |                                                                | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 80          |
| 123.44.34.40 | Aluminium              |                                                                | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 80          |
| 123.44.35.40 | Ruby Red               |                                                                | Floor & Rear                                            | -                 | Floor & Front     | Floor & Front & S-trap     | Floor & Rear & S-trap     | ✓         | 80          |



**All pans are intended for use with an in-wall cistern. Note: in-wall cistern is not included.**

\* Pack includes 4x floor fixing screws but only 2x can be used with this pan.

### 3 DIMENSIONS AND LAYOUT

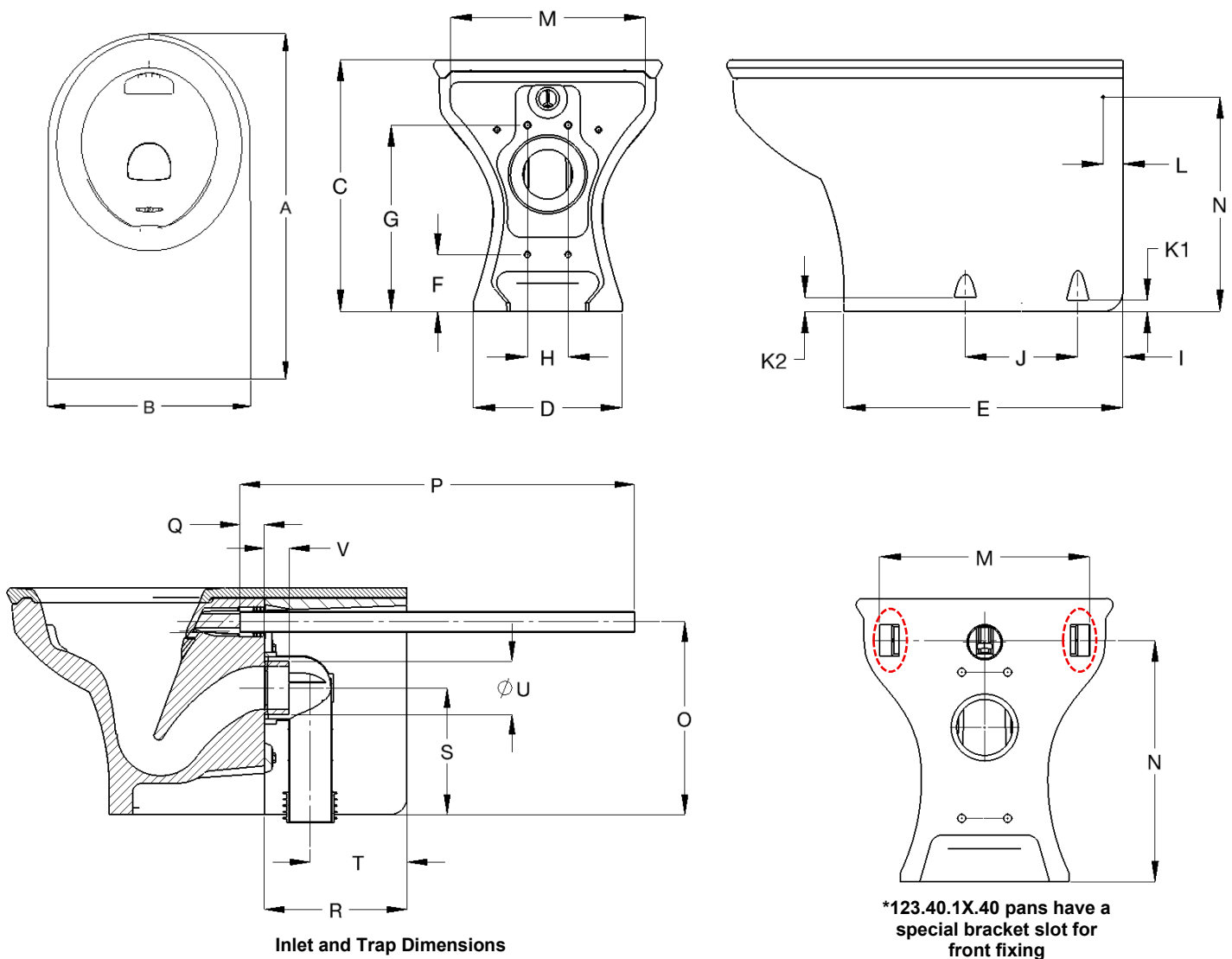


Figure 1. Pan Configurations and Dimension references



**Note:** This page shows a general layout of relevant dimension references for all pans. For specific pan dimension tables, refer to the following pages and figures.



Note that manufacturing variations may occur (+/- 5mm). **Always measure before installing.**

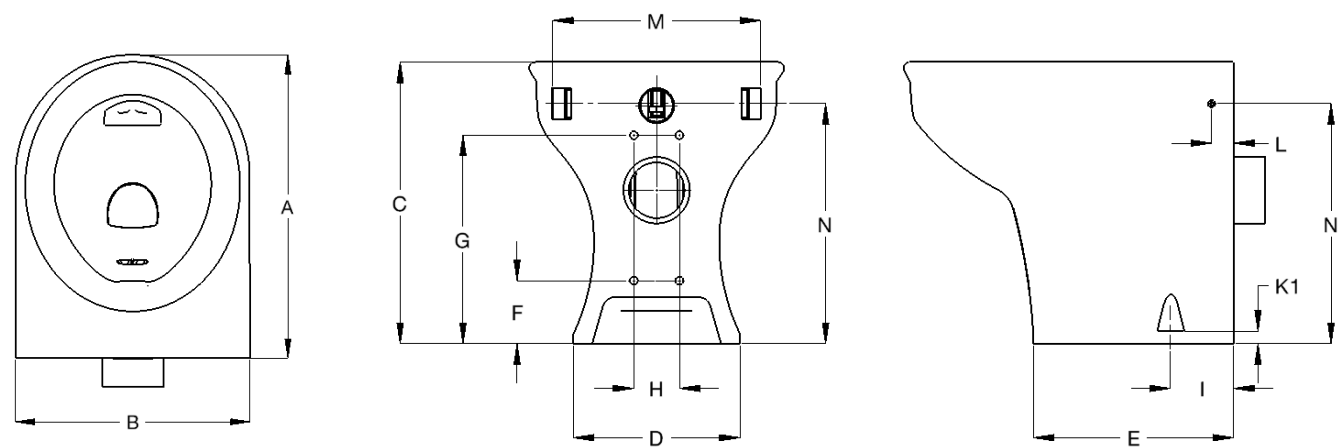
Wallgate Ligature Resistant S/Surface Pan with Integral Seat 445x523mm

123.40.11.40 - White  
123.40.12.40 - Grey

| PAN |     |     |     |     | FIXING LOCATIONS |     |    |     |   |    |    |    |     |     | INLET |   |    |   |     | TRAP |     |    |
|-----|-----|-----|-----|-----|------------------|-----|----|-----|---|----|----|----|-----|-----|-------|---|----|---|-----|------|-----|----|
| A   | B   | C   | D   | E   | F                | G   | H  | I   | J | K1 | K2 | L  | M   | N   | O     | P | Q  | R | S   | T    | U   | V  |
| 523 | 404 | 445 | 264 | 317 | 100              | 330 | 72 | 100 | - | 20 | -  | 35 | 330 | 380 | 377   | - | 45 | - | 243 | -    | 105 | 50 |

Note that manufacturing variations may occur (+/- 5mm). Measure before installing.

Pan and Fixing Locations



Inlet and Trap

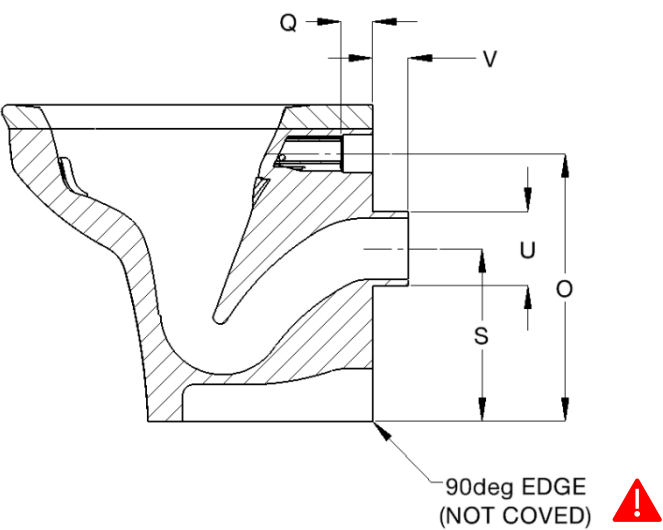


Figure 2. Standard Pan 445x523mm Dimensions

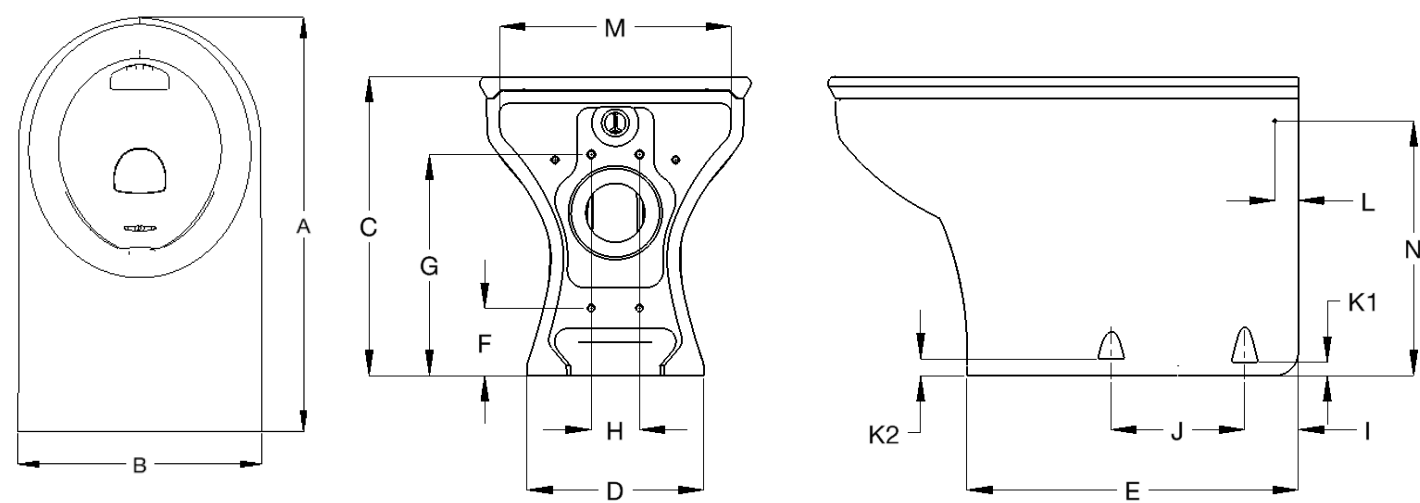
Wallgate Ligature Resistant S/Surface Pan with Integral Seat 446x702mm

- 123.41.31.40 - White
- 123.41.32.40 - Grey
- 123.41.33.40 - Blue
- 123.41.34.40 - Aluminium
- 123.41.35.40 - Ruby Red

| PAN |     |     |     |     | FIXING LOCATIONS |     |    |    |     |    |    |    |     |     | INLET |   |    |     |     | TRAP |     |    |
|-----|-----|-----|-----|-----|------------------|-----|----|----|-----|----|----|----|-----|-----|-------|---|----|-----|-----|------|-----|----|
| A   | B   | C   | D   | E   | F                | G   | H  | I  | J   | K1 | K2 | L  | M   | N   | O     | P | Q  | R   | S   | T    | U   | V  |
| 702 | 405 | 446 | 264 | 495 | 100              | 330 | 72 | 80 | 200 | 20 | 25 | 40 | 350 | 380 | 377   | - | 50 | 180 | 243 | 87   | 108 | 50 |

Note that manufacturing variations may occur (+/- 5mm). Measure before installing.

Pan and Fixing Locations



Inlet and Trap

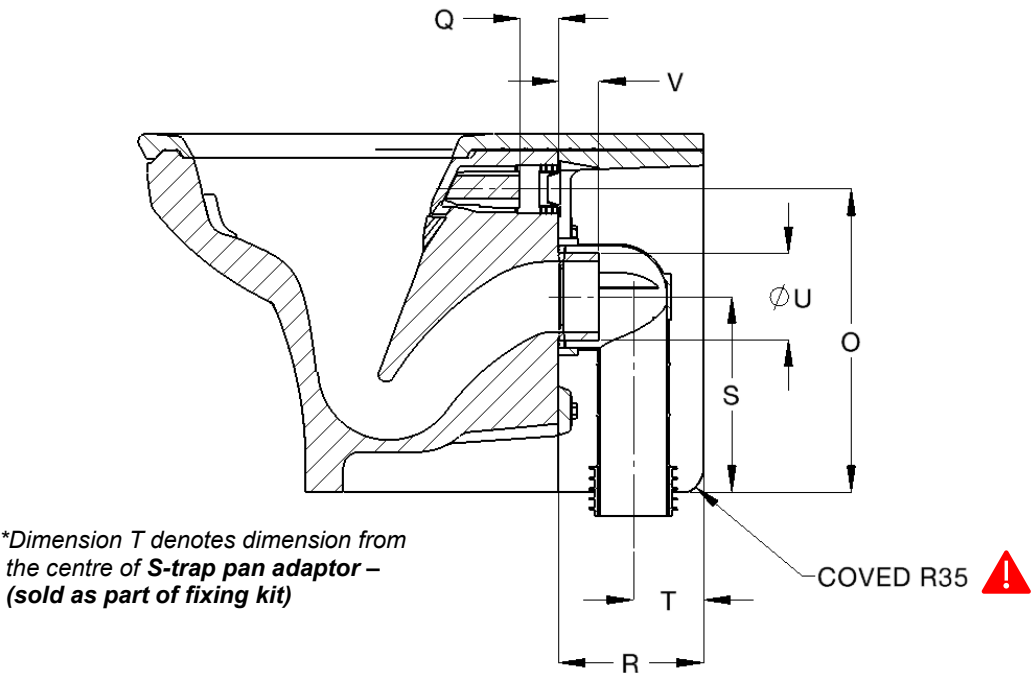


Figure 3. Standard Pan 446x702mm Dimensions

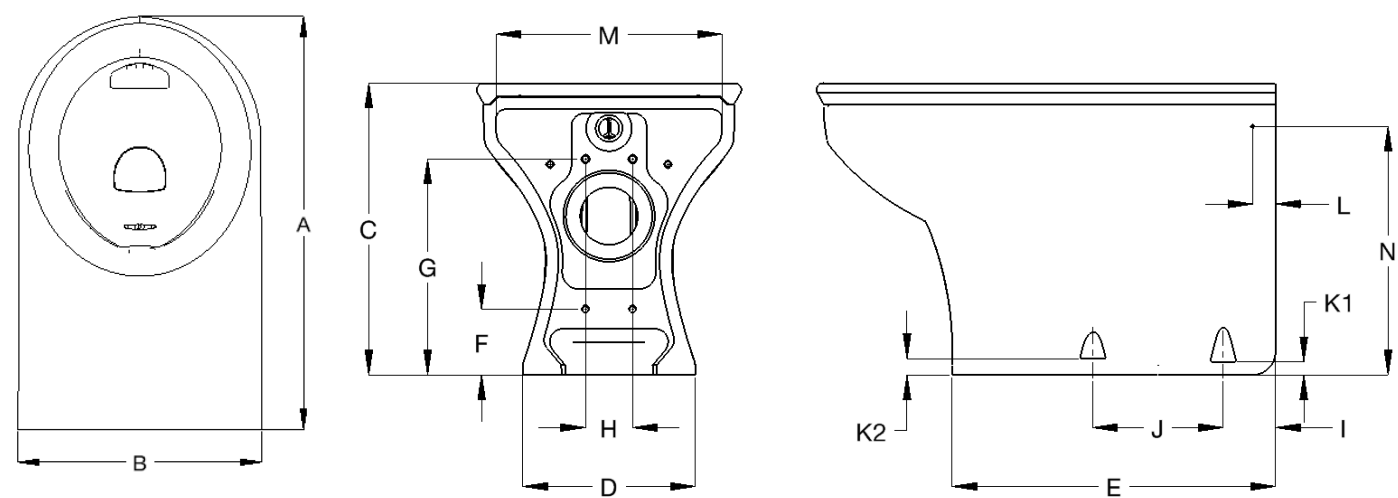
Wallgate Ligature Resistant S/Surface Ambulant Pan with Integral Seat 476x652mm

- 123.42.31.40 - White
- 123.42.32.40 - Grey
- 123.42.33.40 - Blue
- 123.42.34.40 - Aluminium
- 123.42.35.40 - Ruby Red

| PAN |     |     |     |     | FIXING LOCATIONS |     |    |    |     |    |    |    |     |     | INLET |   |    |     |     | TRAP |     |    |
|-----|-----|-----|-----|-----|------------------|-----|----|----|-----|----|----|----|-----|-----|-------|---|----|-----|-----|------|-----|----|
| A   | B   | C   | D   | E   | F                | G   | H  | I  | J   | K1 | K2 | L  | M   | N   | O     | P | Q  | R   | S   | T    | U   | V  |
| 652 | 405 | 476 | 268 | 445 | 130              | 360 | 72 | 80 | 150 | 30 | 30 | 40 | 345 | 410 | 407   | - | 50 | 130 | 273 | -    | 108 | 50 |

Note that manufacturing variations may occur (+/- 5mm). Measure before installing.

Pan and Fixing Locations



Inlet and Trap

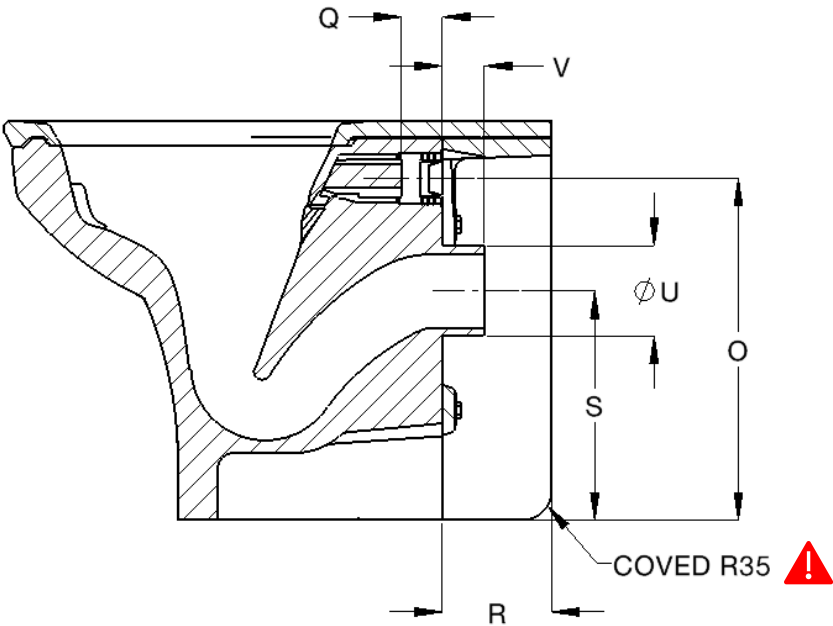


Figure 4. Ambulant Pan 476x652mm Dimensions

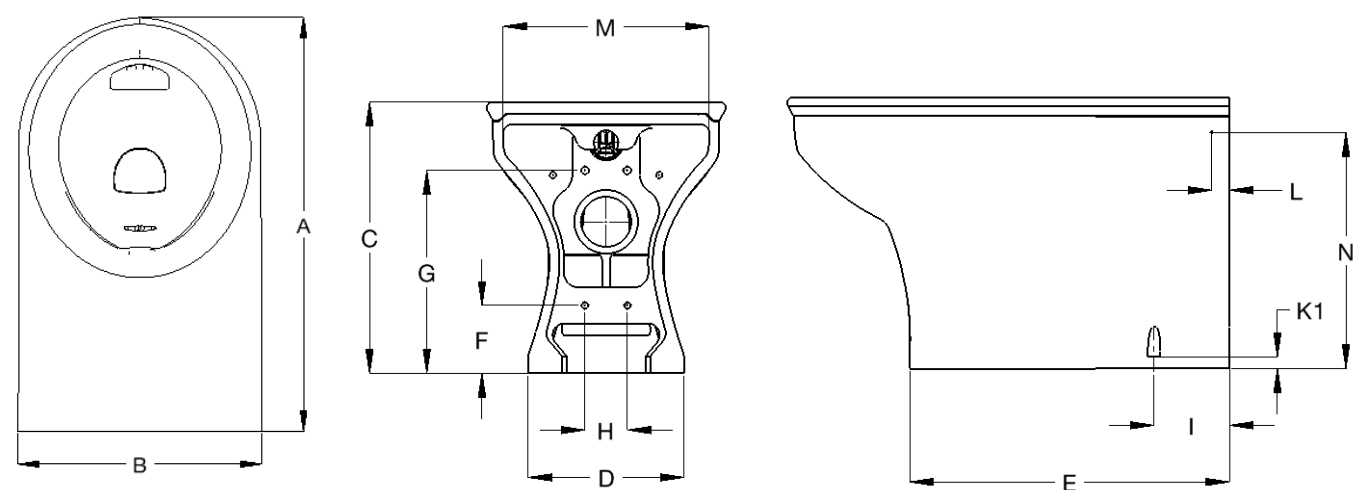
Wallgate Ligature Resistant S/Surface Pan Accessible Pan with Integral Seat 460x750mm (NZ)

123.43.32.40 – Grey

| PAN |     |     |     |     | FIXING LOCATIONS |     |    |     |   |    |    |    |     |     | INLET |   |    |     |     | TRAP |     |    |
|-----|-----|-----|-----|-----|------------------|-----|----|-----|---|----|----|----|-----|-----|-------|---|----|-----|-----|------|-----|----|
| A   | B   | C   | D   | E   | F                | G   | H  | I   | J | K1 | K2 | L  | M   | N   | O     | P | Q  | R   | S   | T    | U   | V  |
| 750 | 405 | 460 | 264 | 542 | 115              | 344 | 72 | 128 | - | 20 | -  | 40 | 350 | 395 | 391   | - | 45 | 227 | 257 | 134  | 108 | 50 |

Note that manufacturing variations may occur (+/- 5mm). Measure before installing.

Pan and Fixing Locations



Inlet and Trap

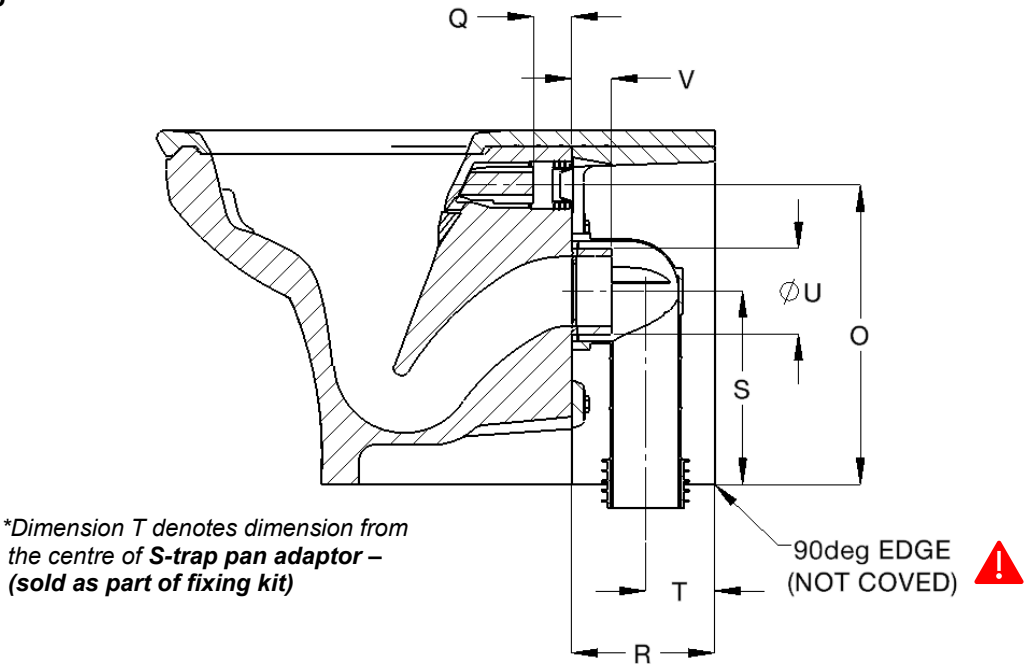


Figure 5. Accessible Pan 460 x750mm (NZ) Dimensions

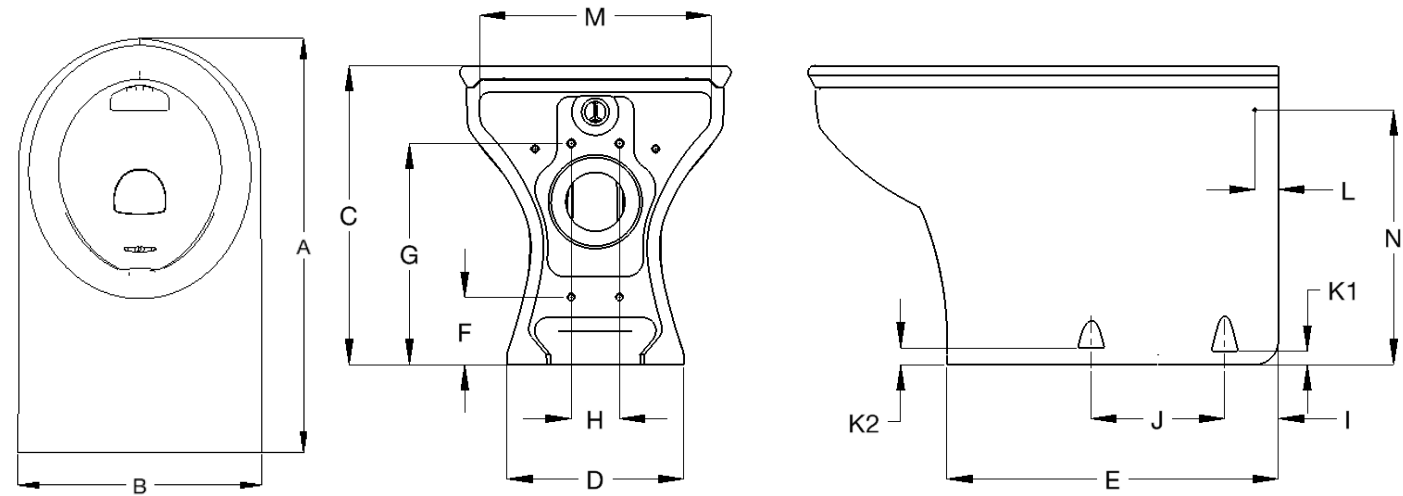
Wallgate Ligature Resistant S/Surface Accessible Pan with Integral Seat 460x810mm

- 123.44.31.40 - White
- 123.44.32.40 - Grey
- 123.44.33.40 - Blue
- 123.44.34.40 - Aluminium
- 123.44.35.40 - Ruby Red

| PAN |     |     |     |     | FIXING LOCATIONS |     |    |     |     |    |    |    |     |     | INLET |     |    |     |     | TRAP |     |    |
|-----|-----|-----|-----|-----|------------------|-----|----|-----|-----|----|----|----|-----|-----|-------|-----|----|-----|-----|------|-----|----|
| A   | B   | C   | D   | E   | F                | G   | H  | I   | J   | K1 | K2 | L  | M   | N   | O     | P   | Q  | R   | S   | T    | U   | V  |
| 810 | 405 | 460 | 264 | 604 | 115              | 344 | 72 | 190 | 199 | 35 | 39 | 40 | 355 | 395 | 391   | 800 | 50 | 289 | 257 | 196  | 108 | 50 |

Note that manufacturing variations may occur (+/- 5mm). Measure before installing.

Pan and Fixing Locations



Inlet and Trap

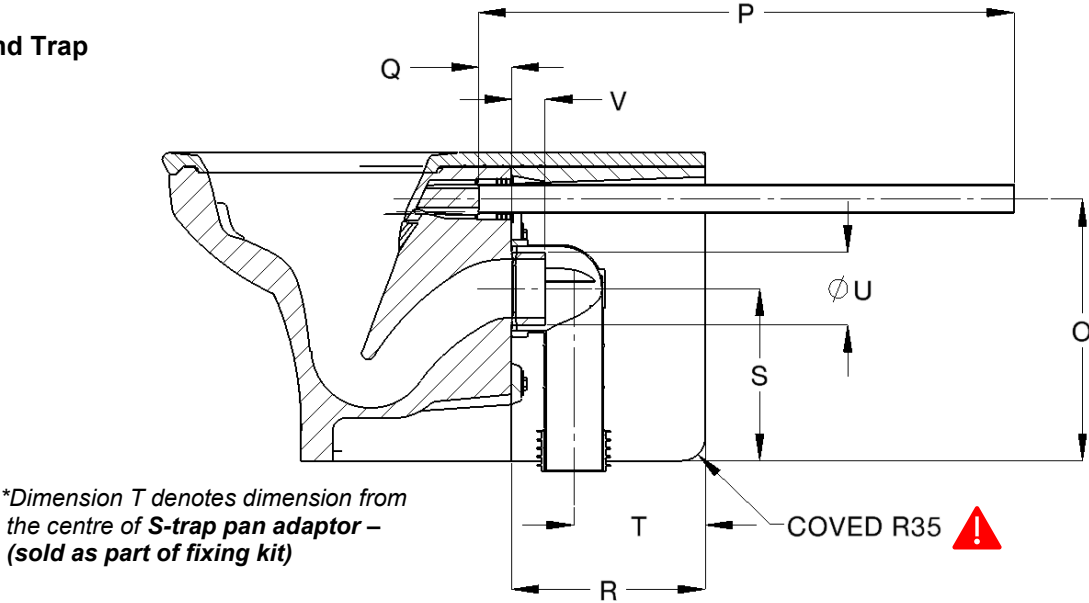


Figure 6. Accessible Pan 460x810mm Dimensions

## 4 INSTALLATION

**INSTALLATION COMPLIANCE:** Galvin Engineering products must be installed in accordance with these installation instructions and in accordance with AS/NZS 3500, the PCA and your local regulatory requirements. Water and/or electrical supply conditions must also comply to the applicable national and/or state standards. Failing to comply with these provisions shall void the product warranty and may affect the performance of the product.

**IMPORTANT:** Whilst our product designs take into account a broad range of installation types and surfaces, it is important that surfaces which fixtures are mounted to are flat and free from defect. Additionally, ensure any protruding fastener sits flat against the floor, wall or pan surface when installed, ensuring that there are no gaps between them. This is especially important when installing product ranges that have been designed for correctional and health facilities, where special attention is required to minimise ligature points and areas for concealment of contraband. In addition to ensuring the products are fitted securely and in accordance with the following instructions, consideration shall be given to the use of non-pick mastics to ensure a high quality and safe installation.

### 1. Prepare the Pan and components

- Remove the pan from its packaging and place carefully onto a protective sheet on the floor such as cardboard to avoid damage to the base edges.



**Note:** Do not knock or drop when placing on the floor as damage to the bottom rim edges may result.



**Note:** Pan dimensions can vary. Check Section 3 – Dimensions and Layouts for details and measure before installing.

### 2. Follow install instructions for chosen fixing methods.

- Install instructions for rear, front, and floor fixings are shown below **along with instructions on coving and pipe connections**.
- Installation steps from different kits may need to be done concurrently.
- All installations must follow section 4.6: sealing.



**Note:** Review the instructions for all relevant sections before starting work to ensure steps are done in the correct sequence.

## GENERAL TOOLS REQUIRED – NOT SUPPLIED

- |                                                                                                                                                                                               |                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Hammer Drill</li> <li>- Impact Driver / Ratchet</li> <li>- Torque wrench (recommended)</li> <li>- Measuring tape</li> <li>- Pen or pencil</li> </ul> | <ul style="list-style-type: none"> <li>- Drill bit for Ø8mm diameter hole (to depth of minimum 55mm)</li> <li>- Drill bit for Ø5mm diameter hole</li> <li>- 14G countersink drill (Front fixing only)</li> <li>- Torx T27 Driver Head</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

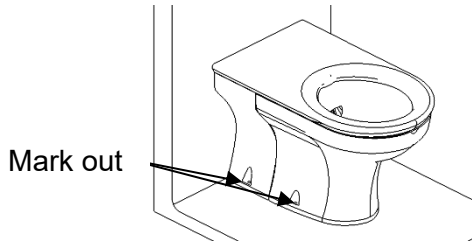
## 4.1 PAN INSTALLATION INSTRUCTIONS – FLOOR



**Important:** Floor fixings are only provided with rear and front fixing kits.

### 1. Mark & drill

- Position the pan against the wall, use a pencil to mark out hole positions for drilling.
- Move the WC pan completely out of the way before drilling.
- Using a hammer drill, drill holes to at least 55mm depth to accommodate the floor fixing screws. Insert rawl plugs.

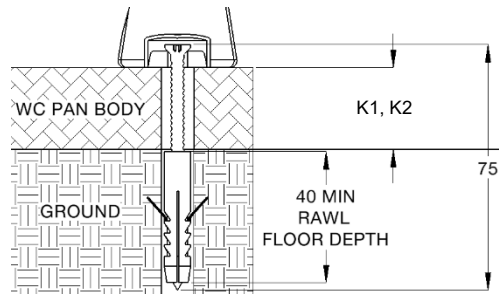
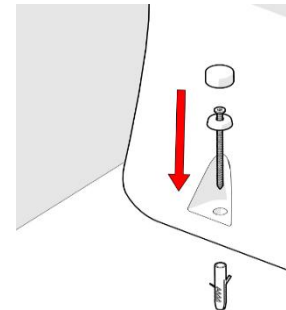


#### Notes:

- Do not drill into the floor through the holes in the WC pan or shroud as this may damage the pan.
- The floor fixings are designed for installing the pan directly onto a solid base such as concrete or brick. If installing onto any other substate, suitable fixings must be sourced by the installer.
- The screw must be the correct length for the rawl plug to expand and grip into a solid floor base. If the installation has additional filler layers between the pan and the ground, a suitable length screw must be sourced by the installer.

### 2. Installation

- All fixings and pipework must be in place before securing the pan in its final position. Ensure install steps from all sections are reviewed before completing this stage.
- Place the pan back into position and confirm the holes line up.
- Insert the cap base onto the screw and screw into the plug.
- Using a ratchet with Torx Driver Head, tighten each screw to 6 Nm.
- Fix the white cap outer to the cap base.



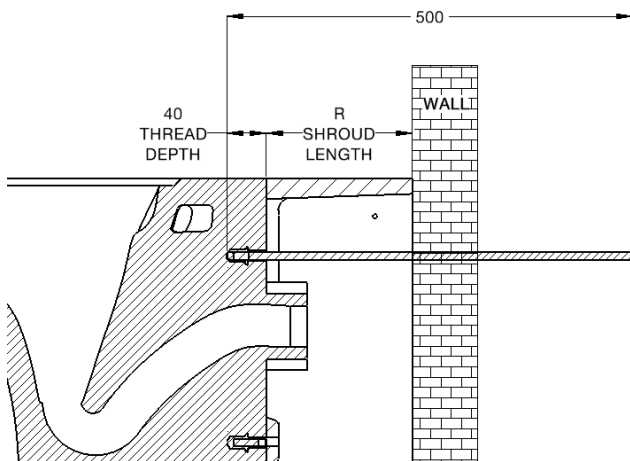
## 4.2 PAN INSTALLATION INSTRUCTIONS – REAR



**Important:** Rear fixing kit is not supplied with the pan and must be ordered separately.

### 1. Unpack rear fixing kit pack

- Confirm threaded rods are of a suitable length to install into the pan and pass through the wall (refer to Section 3 – Dimensions and Layouts for dimensions).
- Brackets are secured behind the wall, ensure there is suitable access before installing.

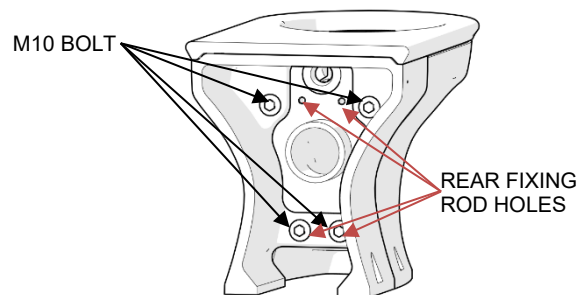


### 2. Remove the lower bolts

- The pan models with a fixed rear shroud are fitted with 4 x M10 shroud connecting bolts (inside the rear shroud section) fastened into the rear of the WC pan.
- There are two upper and two lower bolts, the two lower bolts need to be removed to fit the lower wall fixing studs.

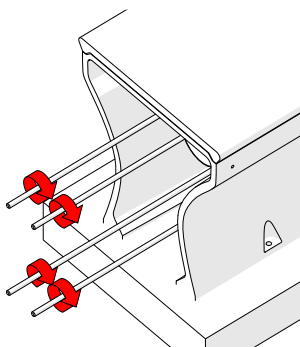


**Note:** If using an S-trap connector pipe, only the top fixing rods can be used.



### 3. Install threaded rods

- Install the threaded rods into the threaded holes in the rear of the pan.
- Measure the rod positions and mark on the wall where the pan is to be installed (see Section 3 – Dimensions and Layouts).
- Ensure the rods are straight and perpendicular to the wall.

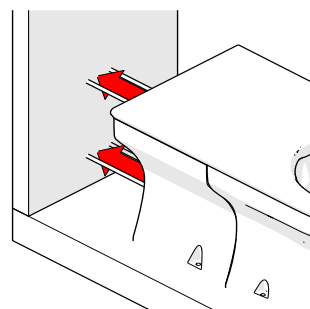


### 4. Install against wall

- Drill through the wall in the marked positions.
- Fit the rods through the holes so the pan sits against the wall. The pan must be resting firmly on the floor.



**Note:** If using an S-trap connector pipe, only the top fixing rods can be used.

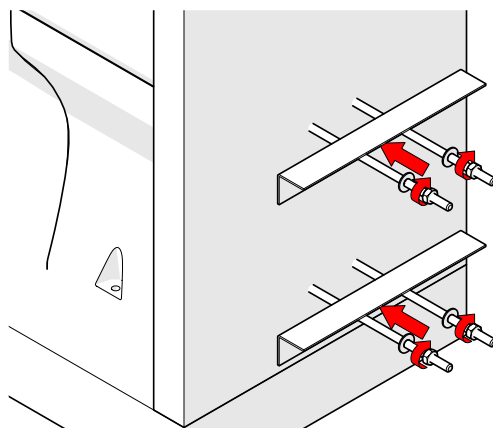


### 5. Secure the bracket

- At the rear of the wall, fit the provided brackets over the protruding threaded rods.
- Secure in place against the wall with provided nuts and washers. Recommended torque 17Nm for tightening rear fixings.
- Cut off excess rod.



**Note:** All fixings and pipework must be in place before securing the pan in its final position. Ensure install steps from all sections are reviewed before completing this stage.



### 4.3 PAN INSTALLATION INSTRUCTIONS - FRONT



**Important:** Front fixing kit is not supplied with the pan and must be ordered separately.

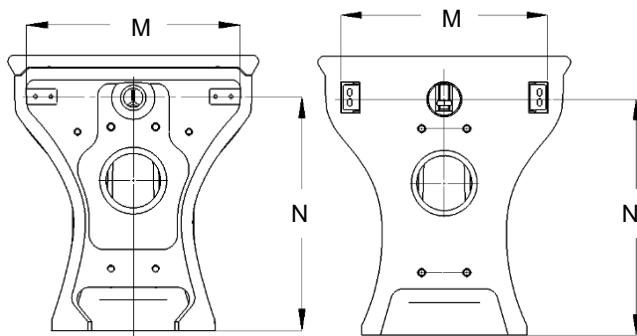
#### 1. Measure bracket position

- Measure the horizontal distance between the internal surfaces of the pan (Dimension M) and between the height off the floor & the centre of inner vertical surface (Dimension N) see dimensions in *Section 3 for bracket position details*.
- Mark bracket position on wall where pan is to be installed.



**Note:**

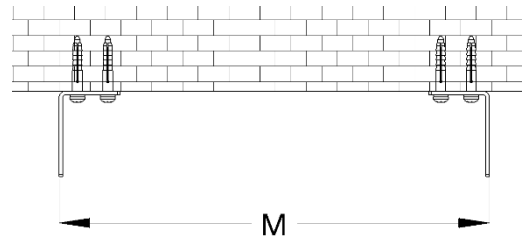
Pan dimensions can vary. Check *Section 3 for bracket position details*. Note that manufacturing variations may occur. **Measure before installing.**



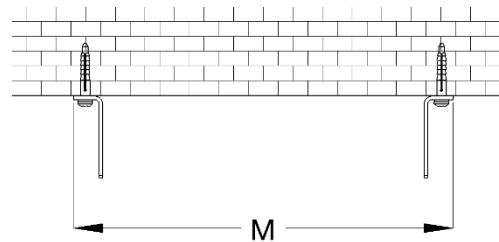
**\*123.40.1X.40 series  
with special bracket  
slot**

#### 2. Bracket install

- Position brackets according to measurements.
- Fix to wall through bracket pre-drilled holes using suitable fasteners for the wall construction (not supplied), spaced according to measured dimensions.



*Standard Bracket – used in all pans except 123.40.1X.40*

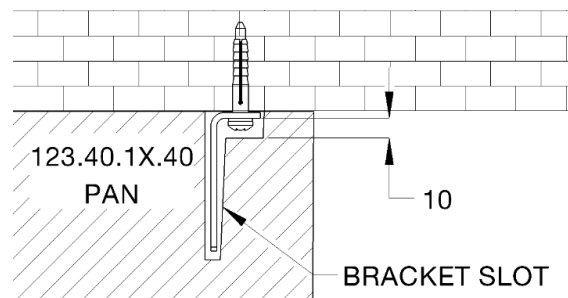


*Special Bracket – used only in 123.40.1X.40*

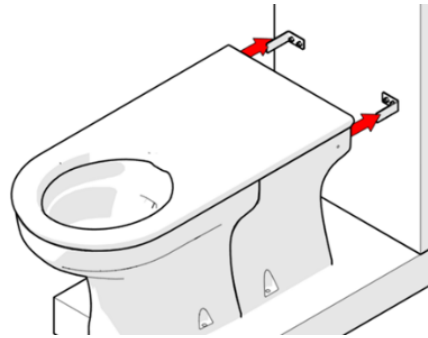


**Note:**

123.40.1X.40 Pan has a slot to fit the special bracket. The combined height of the wall fastener screw and any washers (not supplied) should be less than 8mm to fit in this slot.



- Confirm bracket position by placing the pan against the wall. Check that the pan rests firmly on the floor and sits flush to the wall.
- Move the pan away from the wall



### 3. Drill screw holes in pan

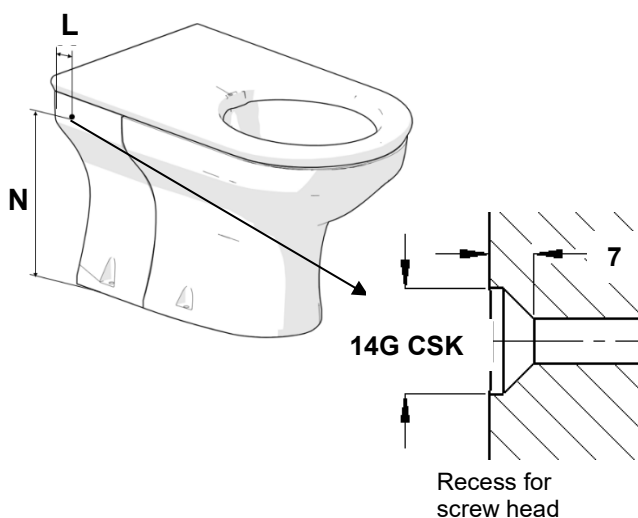
- With the pan away from the wall, mark position of the hole. If a pan comes with drill location marked (dimple), use this. For pans that do not come with drill location indicated, measure and mark the position (see Section 3, dimensions L and N.)
- **For standard pans:** Pre-drill a hole using a 5mm diameter drill bit to a 20mm depth, or until it drills through the shroud wall.
- **For 123.40.1X.40 pans:** Pre-drill a hole using 5mm diameter drill bit to an 85mm depth to accommodate the screw.
- For all pans, then use a 14G countersink drill to a 7mm depth at that location.



**Note:** Do not drill through metal brackets.



**Note:** The fixing kit includes 14g self-drilling countersunk screws. To prevent the screw head protruding and reduce ligature risk, a countersunk recess must be drilled to fit the screw head.

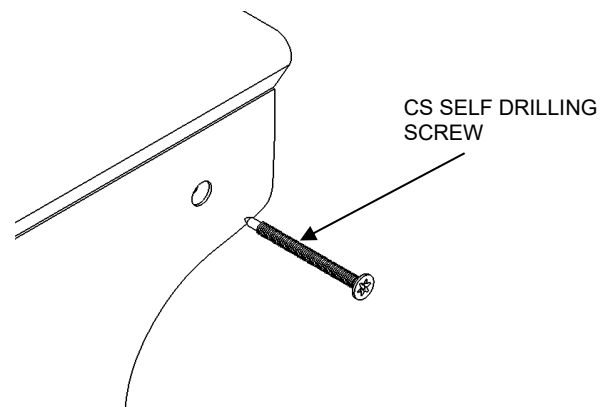


### 4. Place and fix the Pan

- Place the pan onto the wall, ensuring the inside edges of the pan are straddling the brackets.
- Clear the swarf/powder out of the hole before installing the screw.
- Using the provided self-drilling screws, screw through the pan and into the bracket.
- Repeat on both sides.



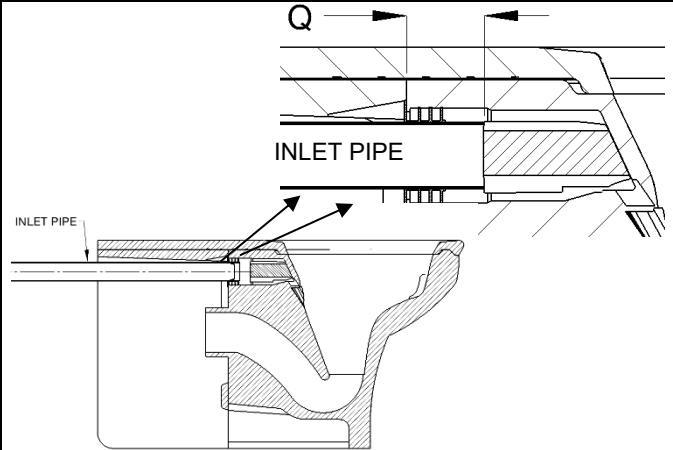
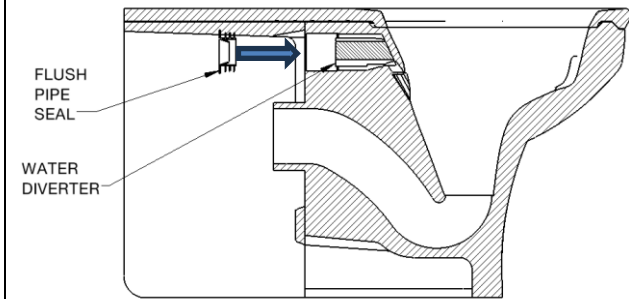
**Note:** All fixings and pipework must be in place before securing the pan in its final position. Ensure install steps from all sections are reviewed before completing this stage.



## 4.4 PAN INSTALLATION INSTRUCTIONS - INLET

1. Fit the flush pipe seal provided with the flushing device into the top hole on the back of the WC pan.

2. Insert the flush pipe until it connects to the water diverter. When fully situated correctly, it will not move forwards anymore.
3. Locate the pan outlet spigot into the soil pipe connector and position the WC in place (with the extension if applicable).

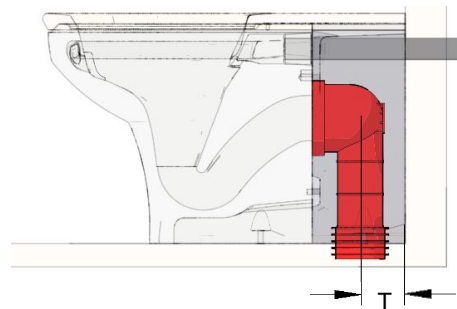


## 4.5 P-TRAP OR S-TRAP INSTALLATION INSTRUCTIONS

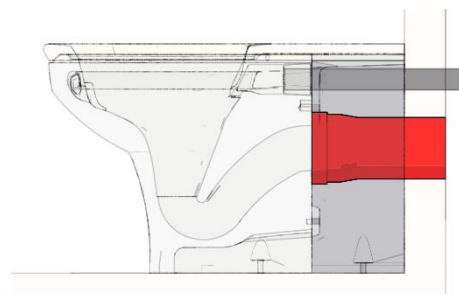
1. Traps must be purchased separately or as part of fixing kits.
2. Refer to *Section 3* for relevant dimensions when installing S-trap or P-trap



**Note:** Ensure the outlet of the pan aligns directly with the inlet of the S-trap or P-Trap. Avoid dragging the pan to prevent scratching.



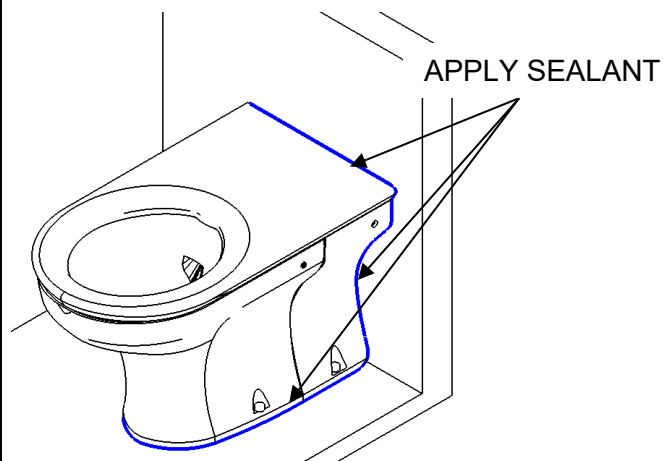
With S-trap



With P-trap

#### 4.6 SEALING

1. Complete all relevant pan installation steps.
2. Apply an anti-pick, hard set sealant, around the back and bottom edges of the pan (and extension if appropriate) to seal it to the wall and floor.
3. Allow to fully cure before use.

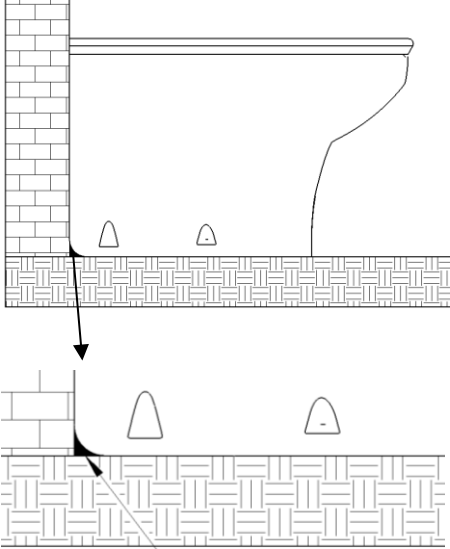
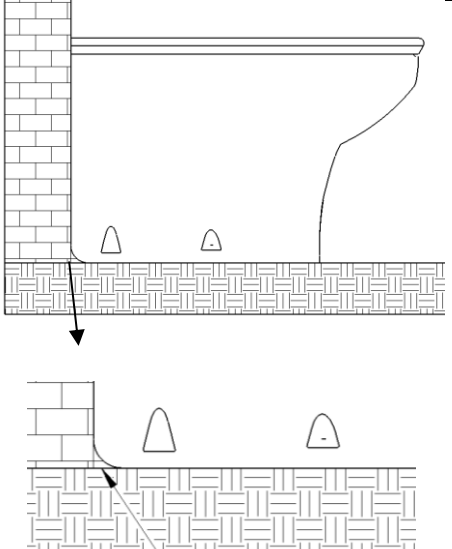


#### 4.7 HINGES

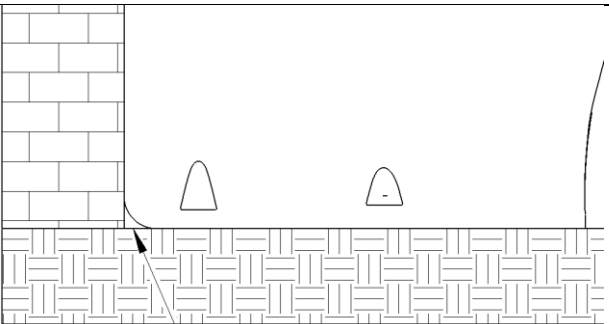
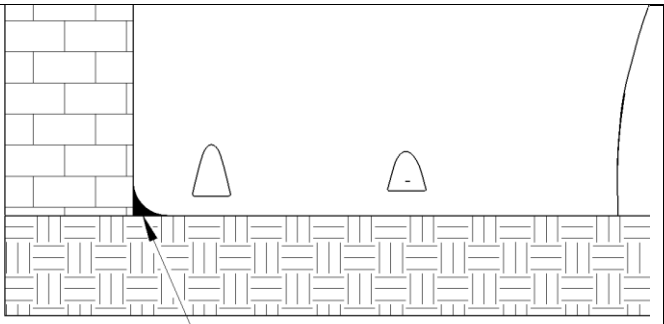
Hinged type WC seats can be fitted to the appropriate model WC pan that provides seat fixing points. Fitting the seat must be done in accordance with the instructions provided with the WC seat.

## 4.8 COVING

Only coved pans are suitable for coved (radiused) wall-floor transitions. Coved pans have a 35mm radius to suit all installs, any gaps can be filled with a suitable sealant. If a pan is not coved, it cannot be directly mounted against a wall with a coved transition (radius). In this situation the pan will need to be coved by the installer following the instructions below. If required, contact Galvin Engineering for Safety Data Sheet (SDS) for this material.

|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p style="text-align: center;">INTERFERENCE<br/>IN COVED CORNER</p> <ol style="list-style-type: none"> <li>1. Determine coving size</li> <li>2. Mark coving shape on a pan (use template – include necessary gap for sealant)</li> <li>3. Cove safely (take extra care not to damage or scratch the surface)</li> </ol> |  <p style="text-align: center;">COVED CORNER</p> <ol style="list-style-type: none"> <li>4. Clean the surface</li> <li>5. Confirm pan fits to coved corner. If not, repeat step 2.</li> <li>6. Install following all relevant installation stages.</li> </ol> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Coved pans can be installed to any coving of 35mm radius or below, down to a 90degree (non-coved) wall-floor transition. Any gap between the pan and the coving will need to be filled with sealant or other filler to reduce dirt accumulation and ligature risk.

|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p style="text-align: center;">GAP</p> <ol style="list-style-type: none"> <li>1. Place pan against the wall to determine gap size and filler required.</li> </ol> |  <p style="text-align: center;">SEALED GAP</p> <ol style="list-style-type: none"> <li>2. After installing pan, apply appropriate amount of sealant/filler to cover the gap as shown.</li> </ol> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 4.9 CISTERN

To achieve correct flushing performance of a pan, special attention must be given to the height of installation of the cistern (see below). If the cistern is not installed as indicated the flushing performance may be impaired, especially with longer pans.

When position of the flushing control is designed using AS 1428 guidelines, the flushing control must be installed away from the cistern, within specified zone for positioning the flushing control (see Figure 7). In this case a blank maintenance cover is installed where indicated. For non AS1428 applications, a correct flushing control can be installed instead of maintenance cover.



**Important:** installation instructions that come with the cistern allow for a range of height installations. Those installations are generic and should not be used when paired with these pans.

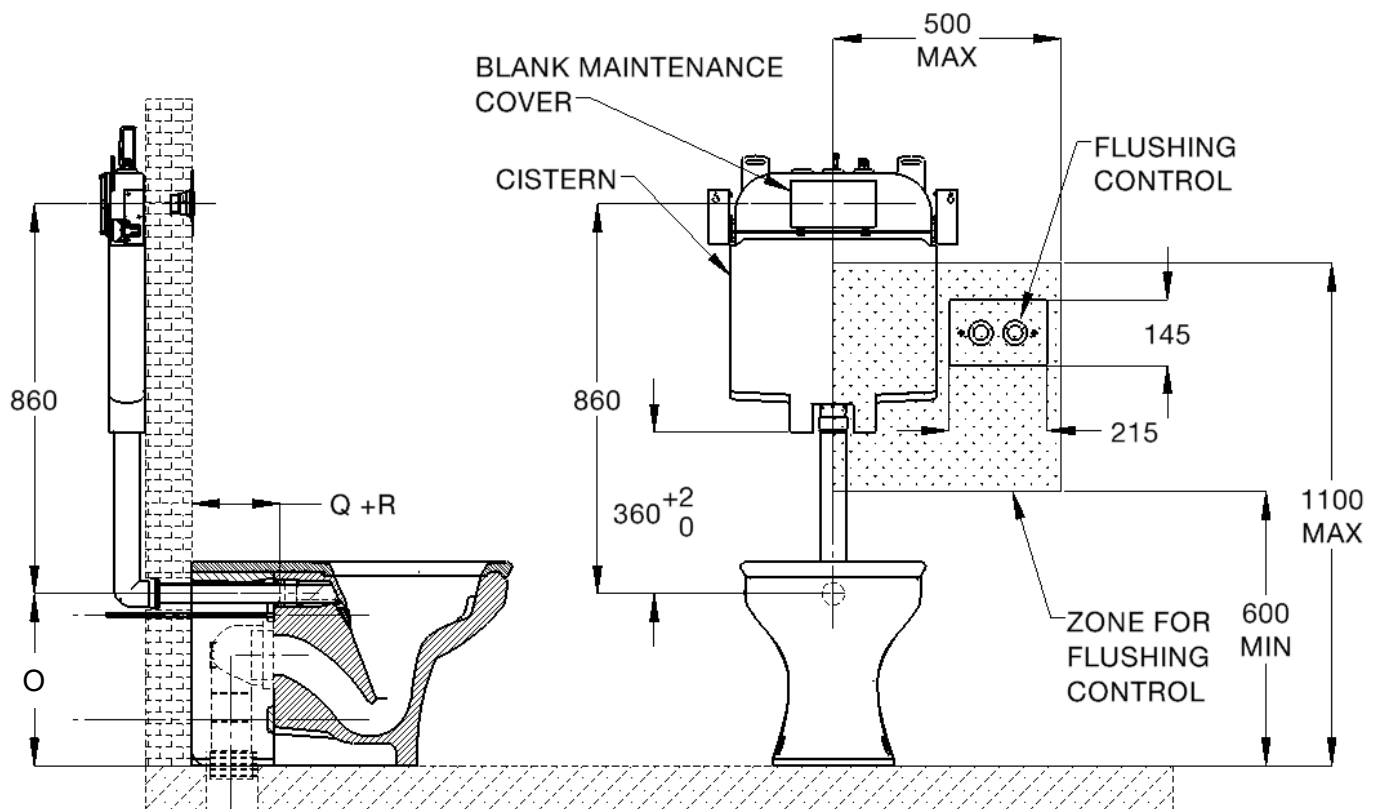


Figure 7. Typical Cistern Installation

Example of flushing control unit and blank cover:

- 656550 - SS vandal resistant inwall cistern service access plate
- 656510 - SS vandal resistant dual flush plate assembly for pneumatic inwall cisterns

## 5 REPAIR

*Any service or repair work must be done by a qualified engineer. During the warranty period, the service or repair must only be done by an appointed service agent. Refer to the Galvin Engineering terms and conditions for warranty information.*

## 6 TROUBLESHOOTING

| PROBLEM                                        | CAUSE                 | RECTIFICATION                                                                                              |
|------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|
| Leakage between the cistern and the toilet pan | Worn or damaged seals | Remove and replace the flush pipe seal                                                                     |
| Wobbling pan                                   | Loose Fixing Screws   | Tighten the screws to secure the pan                                                                       |
|                                                |                       | Ensure rawl plugs are installed at correct depth and the screw is the correct length for the installation. |

## 7 CARE INSTRUCTIONS

### 7.1 GENERAL CARE INSTRUCTIONS

- For detailed cleaning instructions, refer to individual product documentation.
- Toilet bowl must be cleaned regularly using mild cleaning agents and water.
- Never use sharp or pointed objects or abrasive equipment (e.g. steel wool) when cleaning as these can scratch the glazed surfaces.
- Remove any substances containing solvents immediately after application.
- Do not use chemical cleaning agents on the flush button or seats as these can damage plastic components. Use hot water and soap and wipe dry using a soft, lint-free cloth.
- Unless there are heavy deposits/dirt, never use cleaning agents that are:
  - Abrasive or may scratch the surface
  - Contain chlorine or acids that are corrosive

## 8 WARRANTY

Galvin Engineering products are covered under our Manufacturer's Warranty. Galvin Engineering products must be installed in accordance with the installation instructions and in accordance with AS/NZS 3500 and NCC Volume Three, relevant Australian Standards and local authorities applicable to product being installed. Water and electrical supply conditions must also comply to the applicable national and/or state standards, failing to comply with these provisions may void the product warranty and affect performance of the product.

Please visit [www.galvinengineering.com.au](http://www.galvinengineering.com.au) to view the full warranty, our Installation Compliance and Maintenance & Cleaning information as well as any other additional information.

## 9 DEFINITIONS AND DISCLAIMER

Galvin Engineering manufactures a range of products marked as Ligature Resistant or Vandal Resistant. Please visit [www.galvinengineering.com.au](http://www.galvinengineering.com.au) to read the definition of these terms and the disclaimer that applies to these products.