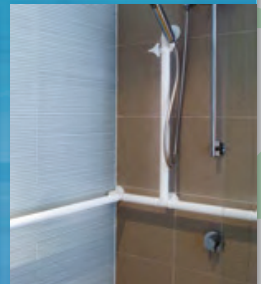
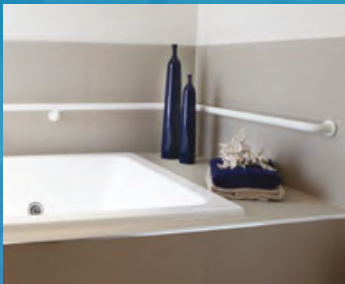




Canterbury Concepts.  
Stay Mobile. Stay Independent. Stay at Home.

# Grabrail Product Catalogue



## Contents

### About us

Humble beginnings to Market Leader.....	3
Ten good reasons to choose us .....	4
Single fixing gives greater strength.....	5
Competitor vs Canterbury Concepts fixing.....	6

### How Our Grabrails Work.....7

### Rails..... 8

GRO (Textured Finish).....	8
FUT (Ripple Finish).....	8

### Standard Grabrails: Endsets..... 9

GRO1 (Full Base Endset).....	9
GRO1SL (Slimline Endset).....	9
GROC (Corner Endset).....	9
GROC2 (Corner Endset).....	10
MP (Multipoint Endset).....	10

### Modular Grabrails:

#### 2-Way Connectors..... 11

GRO2 ('T' Piece).....	11
GRO2/30 (Two Way Fitting 30° Bend) .....	11
GRO2/45 (Two Way Fitting 45° Bend).....	11
GRO2/90 (2-Way Fitting 90° bend).....	11
GROCD (Internal Corner Connector).....	11
ATC (Adjustable Tube Connector).....	12
TC (Tube Connector).....	12
E30 and WBL (30° Bend).....	12
E45 and WBL (45° Bend).....	12
E90 (90° Bend).....	12

### Modular Grabrails:

#### 3-Way and 4-Way Connectors..... 13

GR03W (3-Way Connector).....	13
GR04W (4-Way Connector).....	13

#### Brackets..... 14

WBL (Large Wall Bracket).....	14
LER (Large End Ring).....	14
SER (Small End Ring).....	14
CR (Connector Ring).....	14
PB (Pipe Bend).....	14

#### Accessories..... 15

BR (Base Ring).....	15
TRH (Toilet Roll Holder).....	15
SS (Shower Slide).....	15
HH (Handset and Hose).....	15
HRHH (Hospital Range Handset and Hose).....	15

#### Gravity Toggles..... 17

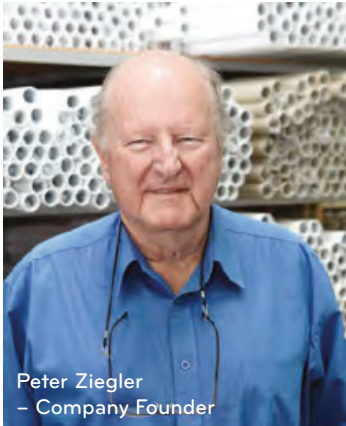
GTL (Large Gravity Toggle).....	17
GTS (Small Gravity Toggle).....	17

#### Installation Tips..... 18

#### Grabrail Configurations..... 20

#### How to maintain your Grabrail..... 22

## Humble beginnings to Market Leader



Peter Ziegler  
– Company Founder

The Canterbury Concepts studreach grabrail is a great Australian story and begins with inventor and founder, Peter Ziegler. Peter practised as an Architect in the 1970s and 80s working on many landmark projects including Sidney Myer Music Bowl, Austin Hospital and St Patrick's Church, East Melbourne.

**As Peter's career progressed, his interest turned to designing and building retirement villages where grabrails are a critical need.**

At the time grabrails were available in fixed lengths only. This made it difficult to install grabrails into studs to ensure the maximum safety of the user. In some cases, the rail was mounted on a timber board which was then installed to the studs. Not optimal safety, and not pleasing aesthetics. In other cases, one end of the rail was mounted to one stud. At the other end, a cavity toggle was used in plasterboard. Clearly an unsafe practice. Elderly and disabled people relied on these rails to support them when they were at their most vulnerable – getting in and out of showers or baths when the risk of slipping and falling was at its greatest.

Taking all of this into account Peter invented a way to fasten both ends of the rail to the studs by cutting the rail to the required length to join the two ends thereby optimising safety, stability aesthetics. This amazing concept became the Canterbury Concepts studreach grabrail.

Canterbury Concepts' first years of operation were in Peter's garage, with components and rails being assembled and packed by Peter and the family in the lounge room at his home in Canterbury. From these humble beginnings, Canterbury Concepts has become a market leader in innovation and design, with a reputation of trust and reliability.

Canterbury Concepts now supplies many customers, large and small, all over Australia and New Zealand, and continues to grow with well over 1 million grabrails installed since its inception in 1989. We take pride in providing a product that can be trusted when it is reached for, by those who need it the most.

## Ten good reasons to choose our grabrails



### 1 Secure fixing

Our unique single fixing system is designed to have the most secure fixing into the studs, not just into the plasterboard, maximising stability and strength.

### 2 Rigorously tested

We've conducted extensive tests which show our product performs up to four times better than the Australian Standards requirements.

### 3 Tried and trusted

Canterbury Concepts grabrails have been used for many years by various government programs throughout Australia including DVA, HACC, HAS and HMMS.

Our grabrails are preferred by Occupational Therapists Australia-wide.

### 4 Superior performance

Our grabrails have been tested to far beyond the requirements of AS1428, Design for Access and Mobility.

### 5 Grip

Our rails are powder coated with our own slip resistant finishes to maximise grip and optimise safety.

### 6 Versatility

The modular system allows the installation of any configuration required, from the simple to the complex, and everything in between.

### 7 Stylish

Contemporary design and modern colours, white and almond ivory. Grabrails don't have to look cold and clinical. Enjoy your lifestyle, secure at home.

### 8 Ease of installation

Can be installed by a home handy man in a matter of minutes.

### 9 Affordable

Just give us a call and find out how affordable our grabrails are.

### 10 Australian made and owned

All rails and components are sourced and manufactured in Australia.

## Single fixing gives greater strength

After rigorous trialling and testing it was found that the grabrail withstood a greater force if there was one large single fixing located through the centre of the wall flange and into the stud, rather than multiple smaller fixings, where many missed the secure fixing point of the timber stud.

Another advantage of our large central fixing is that it is concealed, enhancing the overall stylish appearance unique to Canterbury Concepts grabrails.

The strength tests on our screws show that they perform almost four times greater than required by the relevant Australian standard. Our large single fixings have been trusted throughout Australia and overseas for over 20 years.

### Single Fixing strength tests

#### Fixing to timber

Testing of screws was conducted in accordance with AS 3566.1 – Self drilling screws for the building and construction industries.

The framing timber used in the test was F5 (MGP10) in accordance with the standard.

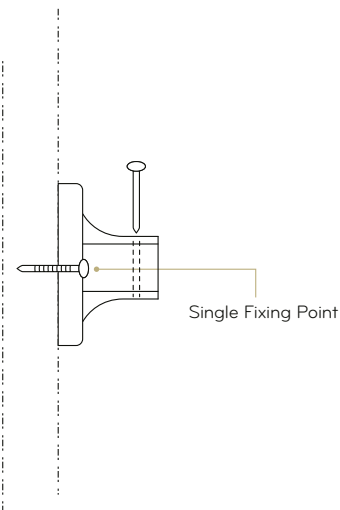
Grabrails are required to withstand a load of 1,100 Newtons (N) (approx 110 kg)

The average results of tests carried out showed that the screws withstood between 4,070N (approx 400 kg) and 4,300N (approx 430 kg).

#### Fixing to steel studs

Test results show the following pull out loads Using Hex Head Ti Tek's 12-14:

- 0.6mm steel 900N (90 kg)
- 0.8mm steel 1,300N (130 kg)
- 1.0mm steel 1,700N (170 kg)
- 1.2mm steel 2,000N (200 kg)



## Competitor Versus Canterbury Concepts Fixing

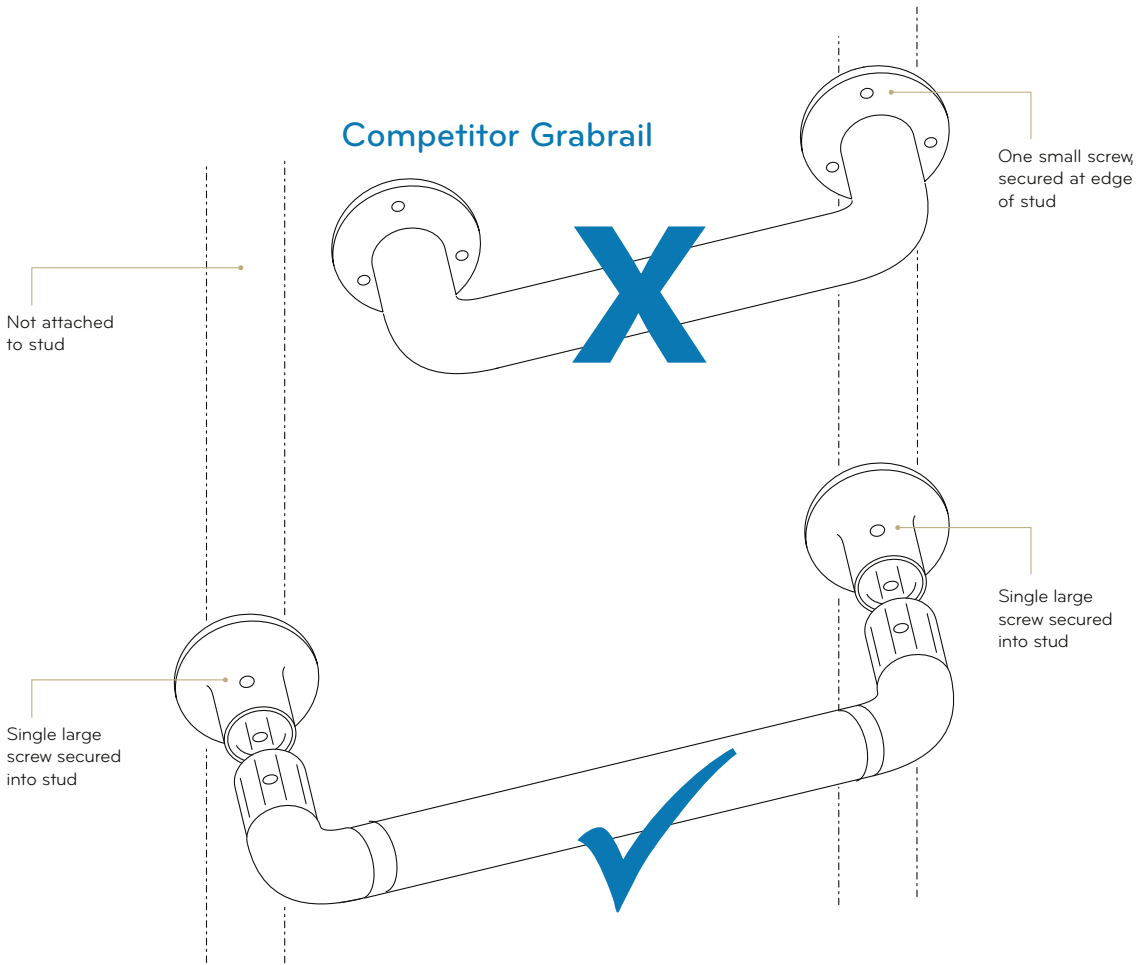
**The large single fixing optimises strength and stability because it grips firmly into the centre of the stud.**

Grab rails were designed to give aid to those who were at risk of slipping or falling, by giving them a safe and secure hand hold. To enable a strong and reliable handhold the grabrail needs to be securely fastened to the wall. To do this it is critical the fastening is located in the structural part of the wall, which is typically the timber stud located behind the plasterboard.

However, wall studs, which are positioned when the home is constructed, are rarely, if ever, where you need them to be.

The ingenuity of Canterbury Concepts grabrails is that they are modular and designed to be cut to the required length to suit the distance between the studs. This ensures the large fixing screws can be fastened into the centre of the stud to maximise strength and optimise safety, rather than just through the weaker plasterboard.

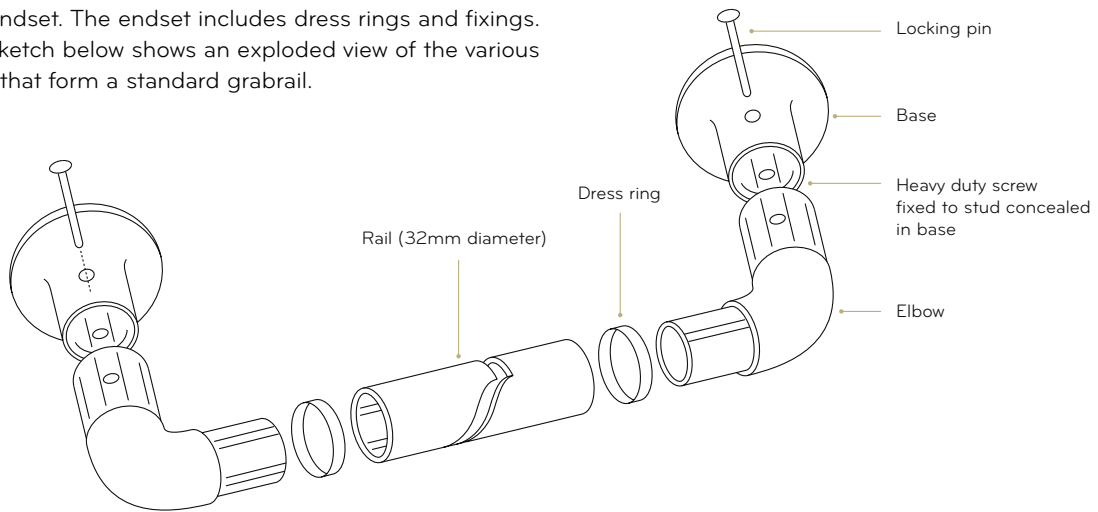
**Canterbury Concepts studreach grabrails. The original, safe and strong since 1989.**



# How Our Grabrails Work

**Canterbury Concepts grabrails are comprised of two main parts: the rails and the components.**

For demonstration here, a standard grabrail is comprised of one powder coated aluminium tube and one endset. The endset includes dress rings and fixings. The sketch below shows an exploded view of the various parts that form a standard grabrail.



## Rails

Canterbury concepts rails are manufactured from 32mm aluminium, and are extruded from our own design and specifications, and include a ribbed design to prevent twisting of the rail in the user's hand.

We chose to manufacture the rails from aluminium because of its strength and durability, as well as its ability to be easily cut. This allows for rails to be individually cut to the required length to ensure fixing is into the structural timber studs.

Our rails are powder coated with our own finishes to maximise grip and optimise safety.

## Components

Canterbury Concepts components are manufactured from fibreglass reinforced nylon, from our own design and specifications. After exhaustive research and testing it was found that the addition of glass fibre to nylon leads to very significant increases in strength, rigidity, heat distortion temperatures, abrasion resistance and dimensional stability.

There is a vast array of components in the Canterbury Concepts range, including a wide selection of bases, elbows, brackets and fixings to create any rail configuration required.

Our endsets are fastened to the wall with a single heavy duty screw fixed into the wall stud, which is smartly concealed in the base. Research and testing found that a single large fixing into the stud at both ends was the superior way to ensure a strong and secure grabrail.

# Rails

Canterbury concept's rails are manufactured from 32mm aluminium, and are extruded from our own design and specifications, and include a ribbed design to prevent twisting of the rail in the user's hand.

All of our rails are slip resistant to maximise grip and optimise safety and are available in our own textured or ripple finish.

**Note all rails are finished to ensure maximum grip, in wet or dry conditions.**



## CBlue (Textured Finish)

**CBlue** 1500mm, 600mm



The Canterbury Concepts CBlue grabrail has been developed in consultation with Occupational Therapists and Health Professionals to **assist people with dementia, elderly people, and vision impaired** to remain safe.

The contrasting colour and slip resistant finish assists people to identify and use the grabrail more easily.

## FUT (Ripple Finish)

FUT300	300mm
FUT450	450mm
FUT600	600mm
FUT900	900mm
FUT1200	1200mm
FUT1500	1500mm
FUT3000*	3000mm



## GRO (Textured Finish)

GRO300	300mm
GRO450	450mm
GRO600	600mm
GRO900	900mm
GRO1200	1200mm
GRO1500	1500mm
GRO3000*	3000mm



\*Due to length, 3000mm rails attract significantly higher freight charges.



## Standard Grabrails: Endsets

An endset is used to fix a grabrail to the wall. An endset is made up of a pair of wall flanges (bases) and elbows, and includes fixings. Different endsets are used depending on the application. This ensures the bases are able to be fixed into the centre of the stud for maximum strength.

### GR01 (Full Base Endset)

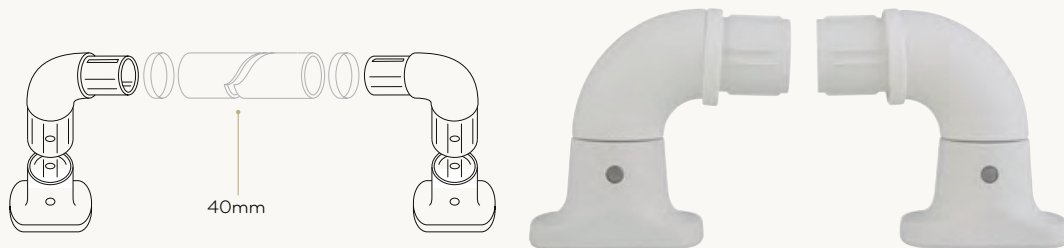
Full base endsets are used for a standard rail configuration on an open wall to allow fixing to studs.



Available in  Textured  Smooth  Textured  Smooth  Textured

### GR01SL (Slimline\* Endset)

Slimline endsets are used for architrave mounting.



Available in  Textured  Smooth  Textured  Smooth  Textured

#### \*Slimline base Fixing Holes

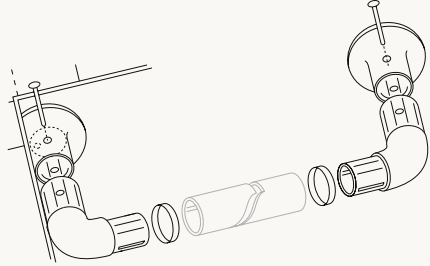
Fixing holes have been omitted from the slimline base so that correct fixing position - central or offset - can be selected on site and the appropriate hole made by the installer.

The decision to omit the holes was made after reviewing the width of architrave, thickness of frame and positioning of framing stud in a number of situations. The result was about 50% for centre fixing, therefore use a 6mm drill to make your own holes. Screws and washers for both applications are included.

## Standard Grabrails: Endsets

### GROC (Corner Endset)

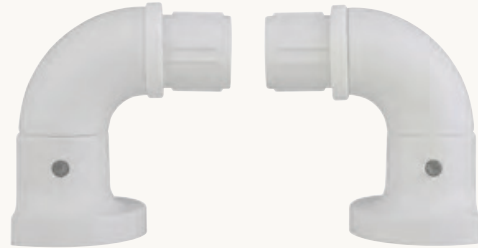
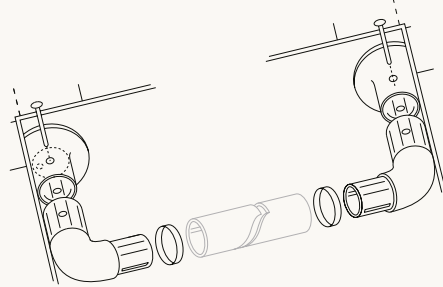
Corner endsets are used for mounting when the rail runs into a corner.



Available in  Textured  Smooth  Textured  Smooth  Textured

### GROC2 (Corner Endset)

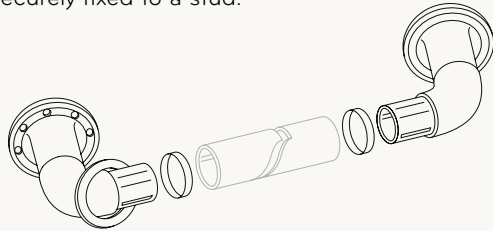
Corner endsets for mounting when both ends of the rail are in corners.



Available in  Textured  Smooth  Textured  Smooth  Textured

### MP (Multipoint Endset)

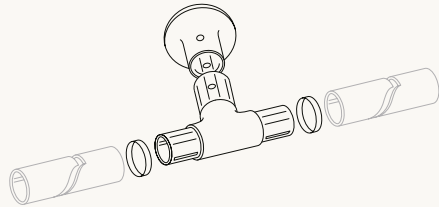
Multipoint endsets have 7 fixing holes, allowing the rail to be installed at almost any angle and still be securely fixed to a stud.



Available in  Textured  Textured

## Modular Grabrails: 2-way Connectors

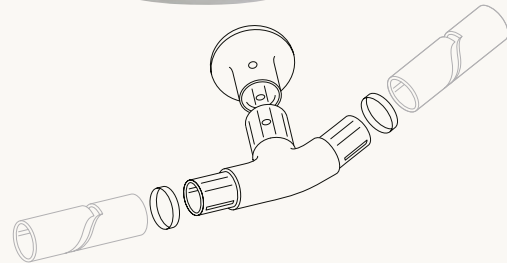
**GR02 ('T' Piece)**



Available in:

- Textured
- Smooth
- Textured
- Smooth
- Textured

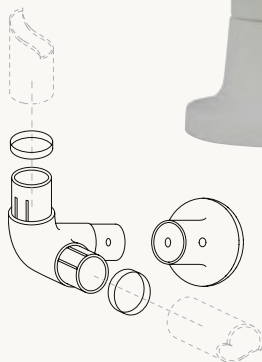
**GR02/30 (Two Way Fitting 30° Bend)**  
**GR02/45 (Two Way Fitting 45° Bend)**



Available in:

- Textured
- Smooth
- Textured
- Smooth

**GR02/90 (2-Way Fitting 90° bend)**

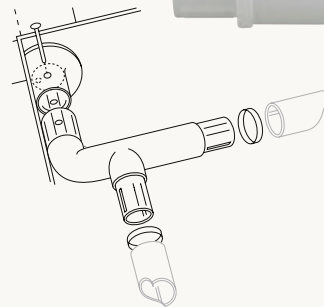


Available in:

- Textured
- Smooth
- Textured
- Smooth

**GROCD (Internal Corner Connector)**

Two way internal corner fitting that is used to install rails into an internal corner.



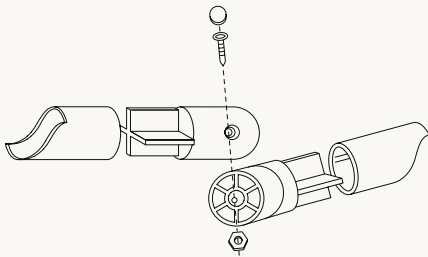
Available in:

- Textured
- Smooth
- Textured
- Smooth

## Modular Grabrails: 2-way Connectors

### ATC (Adjustable Tube Connector)

These connecting pieces work on the same principle as the beach umbrella and allow rails to be connected at angles up to 45°, up or down.

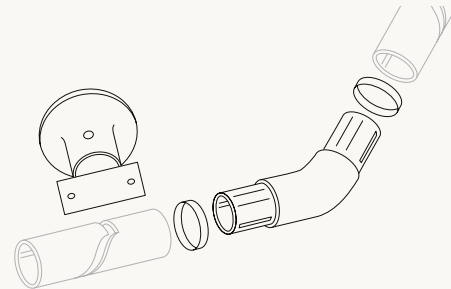


Available in  Textured  Textured

### E30 and WBL (30° Bend) E45 and WBL (45° Bend)

Allows for 270° hand travel required by Australian Standards:

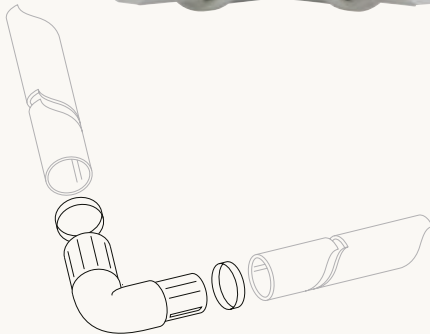
- Supplied with WBL.
- Supplied with modified dress rings to allow the cup of the bracket to be located anywhere beneath the bend of the rail. This means the bracket can be fixed at a secure support.



Available in  Textured  Textured

### E90 (90° Bend)

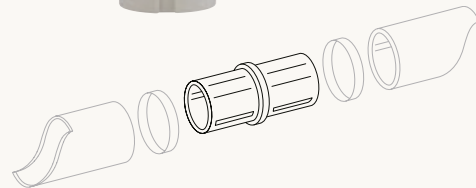
Use an E90 connector in conjunction with a large wall bracket (WBL) to go around corners.



Available in  Textured  Textured

### TC (Tube Connector)

Tube connector, connects two rails together in a straight line for a longer continuous run of rail.

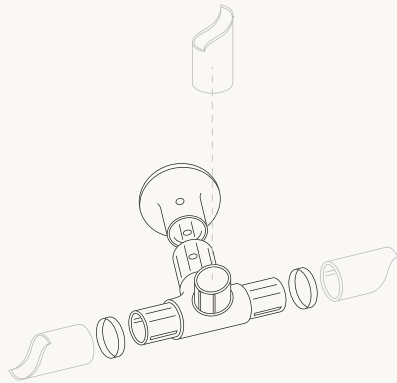


Available in  Textured  Textured

## Modular Grabrails: 3-Way and 4-Way connectors

### GRO3W (3-Way Connector)

Use a GRO3W to connect a vertical rail to a horizontal rail often used for the mounting of a shower slide (SS) and shower handset.

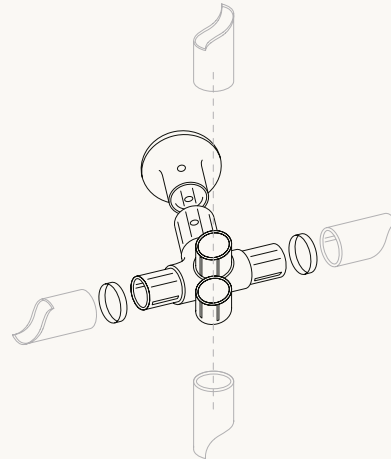


Available in:

Textured  Smooth  Textured  Smooth

### GRO4W (4-Way Connector)

Use a GRO4W to connect vertical rails to horizontal rails, creating a 4 way intersection of rails.



Available in  Textured  Textured

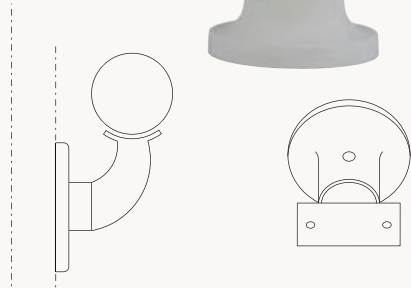
## Brackets

### WBL (Large Wall Bracket)

Allows for 270° hand travel per the Australian Standards.

Support for studreach grabrails longer than 1000mm (install at intermediate stud). This means that all spans shall be less than 1000mm. For more complex situations it is recommended you contact us for advice

Use a WBL to support a cantilevered rail – maximum length of cantilever 200mm. Use WBLs to support long lengths of grabrail in a corridor.

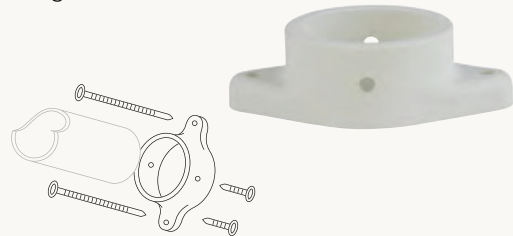


Available in:

- Textured  Smooth  Textured  Smooth
- Textured

### SER (Small End Ring)

Small end ring supports a rail that butts straight into the wall.



Available in  Textured  Textured

### CR (Connector Ring)

Connects pipe bend to rail for added lateral support. Also used to connect rails to each other at 90° for support.



Available in  Textured  Textured

### PB (Pipe Bend)

Pipe bend used to give extra lateral support to vertical rails.

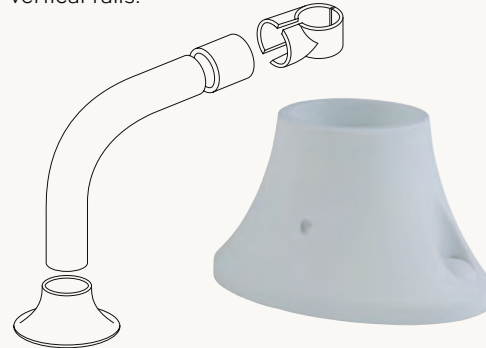


Available in  Ripple  Ripple

### LER (Large End Ring)

Finish a rail at 90° to wall or floor.

The LER can be used for rails extending from floor to ceiling, or with pipe bend (PB) and connecting (CR) for added lateral support to vertical rails.

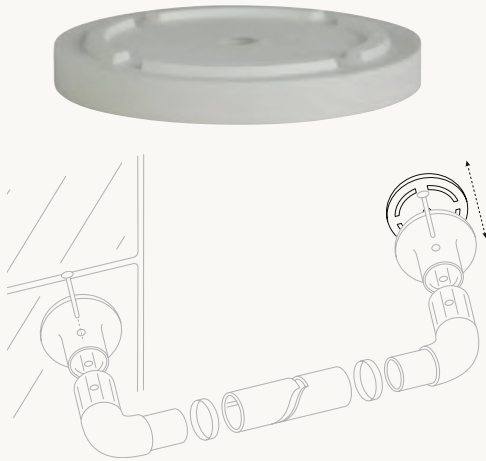


Available in  Textured  Textured

**Accessories**

**BR (Base Ring)**

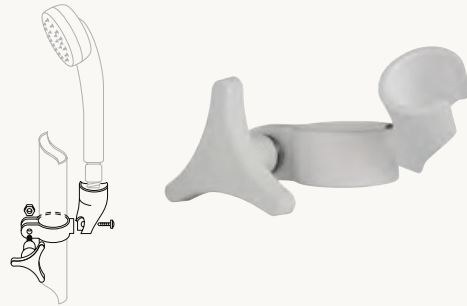
Use the base ring as a packer for tiled and unlevel surfaces (7mm).



Available in  Textured  Textured

**SS (Shower Slide)**

Cradles a handset and hose, attaches to a vertical grabrail, and is adjustable to allow travel up and down the rail.



Available in  Textured  Textured  Textured

**TRH (Toilet Roll Holder)**

Toilet roll holder fixes to a grabrail or to a wall (both fixings are supplied).



Available in  Textured  Textured

**HH (Handset and Hose)**

Chrome plated with 2 metre interlocking metal hose - suits all water pressures.



**HRHH (Hospital Range Handset and Hose)**

Cradled on pin at water outlet - no drilling required. Comes with additional bracket. Suits all water pressures



## Accessories

### PEB (Plug End Ball)

Plug end ball to finish a cantilevered rail.  
50mm diameter



Available in  Textured  Textured

### PE (Plug End)

Plug end cap to finish a cantilevered rail.



Available in  Textured  Textured



## Gravity Toggles

### GTL (Large Gravity Toggle)

Toggle dimensions 80mm x 18mm x 15mm.  
Requires 22mm hole.



### GTS (Small Gravity Toggle)

Toggle dimensions 80mm x 12mm x 10mm.  
Requires 14mm hole.



Gravity toggles (or cavity fasteners) clamp the toggle behind the wall material, allowing a larger disbursement of the load on the fixing, which in turn ensures a stronger fixing. Canterbury Concepts patented\* gravity toggles have been designed for safety and strength, with our unique centring sleeve restricting lateral movement and maximising stability.

To satisfy the load requirements of AS 1428 Design for Access and Mobility, all grabrails should be secured to structural building members and not to wall linings. The combined strength of a pair of fittings must withstand a load of 1,100N (110 kg) i.e. 550N (55 kg) each end.

The toggle has been tested through 10mm plasterboard to average a minimum of 550N (55 kg) and through 10mm villaboard to approximately 600N (60 kg).

The toggle itself was tested to average 2,300N (230 kg).

\*This product is the subject of Australian patent number 2004200862.

## Installation Tips



**Because our grabrails can be cut to fit on the spot, we can have you staying at home sooner – mobile, independent and safe.**

No need to wait for offsite manufacturing of your rails, or specialised tradespeople to install. With Canterbury Concepts the installer can visit once and install your grabrails the same day. Or you can install them yourself or ask family or a friend for help.

### Step by step guide to installing grabrails

- 1 Locate studs and mark fixing position on wall.
- 2 Drill screw holes to a depth of 45 to 50mm and lightly fix wall flange in position.
- 3 Trial fit elbow to wall flange, then measure and cut aluminium rail allowing 1mm for thickness of each dress ring. The rib in the dress ring is off centre – the larger side should be fitted over the rail.
- 4 Assemble elbows to rail, trial fit to wall flanges, align locking pin holes, then remove.
- 5 Finally, tighten wall flange and refit exposed ends of elbows into wall flanges. Insert the locking pins – ensure end of pin is engaged in the other side before tapping or pressing home with multigrips.



## Fixing bases

### Timber studs

Type 17 Timberfix Climaseal screws are provided.

### Solid masonry

Use the Type 17 screws provided into Hilti Hud-18 masonry anchors or use appropriate dynabolts.

### Steel studs

For studs up to 0.8mm thick wall thickness use Type 17 Timberfix Climaseal screws provided. For heavier steel studs use TW Buildex Metal Tekes or Ajax Steelfix 12-14 of appropriate length.

### Hollowed or cored masonry

Refer to your engineer for advice.

## Rail cut off allowances

When measuring and cutting rail, allow for the following:

- GR01 – 60mm (30mm each end)
- GR0C – 70mm (30mm + 40mm for cut off base)
- GR02/90 – 30mm from the rail on each side
- GR02/45 – 30mm from the rail on each side
- GR02/30 – 30mm from the rail on each side
- GR0CD – 90mm from the rail on each side

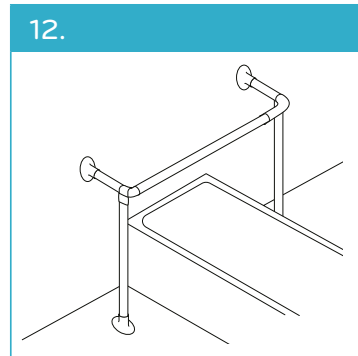
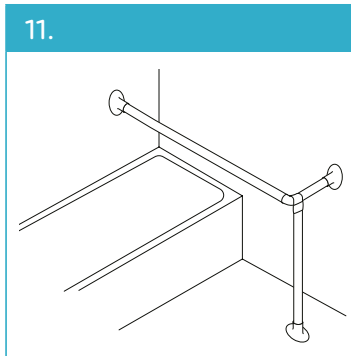
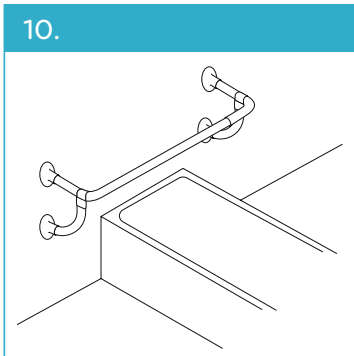
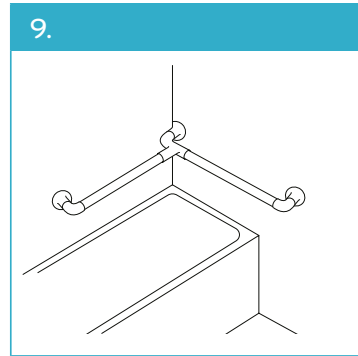
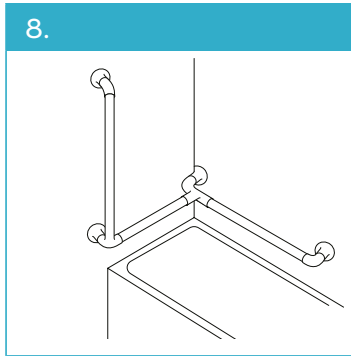
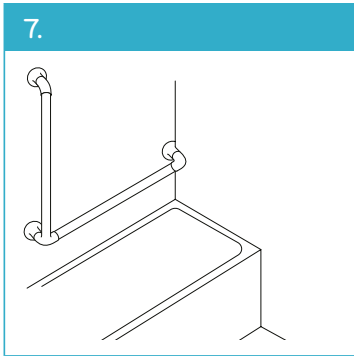
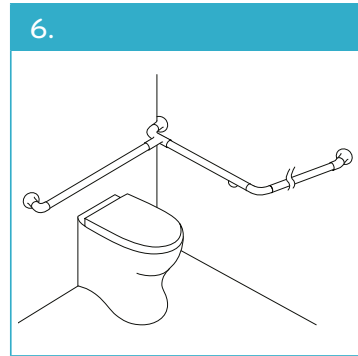
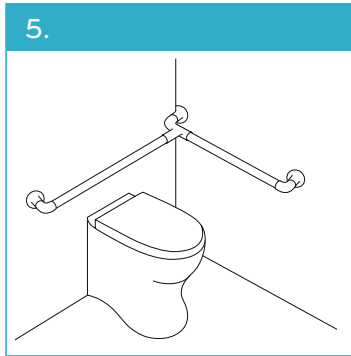
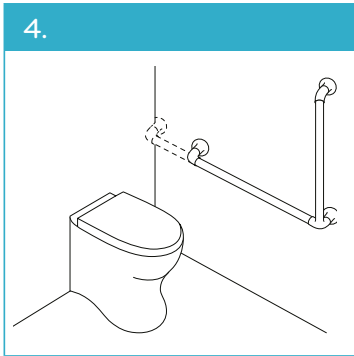
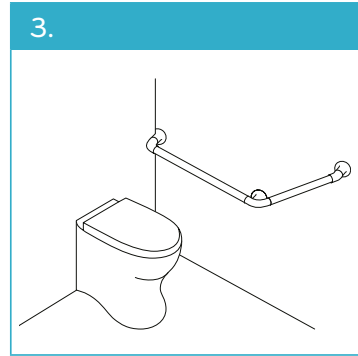
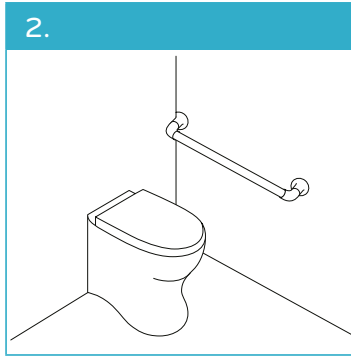
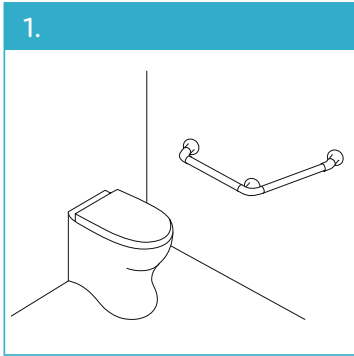
**Note:** these allowances are a guide only and all measurements should be checked on site.

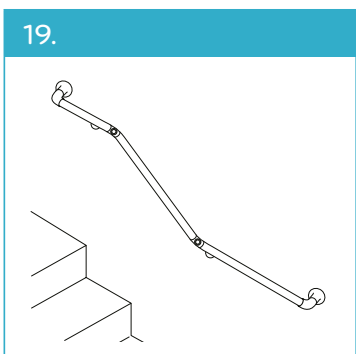
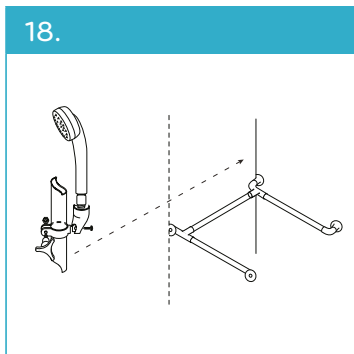
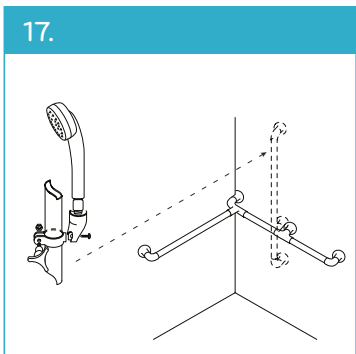
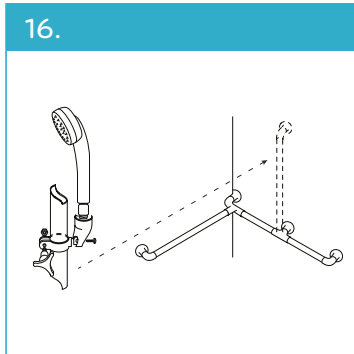
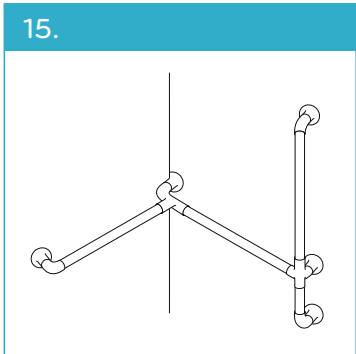
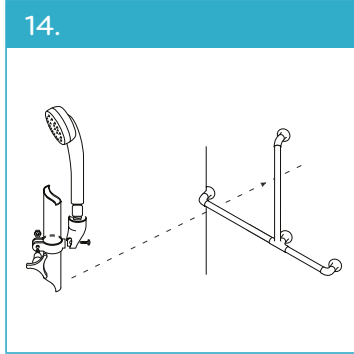
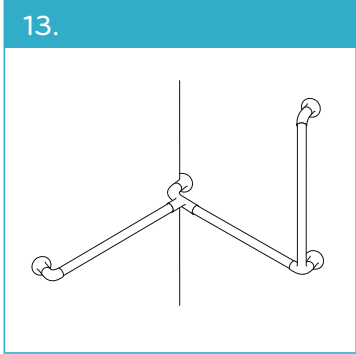
## Helpful hints

- Leave rail in plastic sheath whilst cutting.
- Cut rail using hacksaw with mitrebox or suspended mitre saw.
- Protect head of locking pin with cloth when installing.
- Drill wall tiles with ceramic tile drill bit.



## Grabrail Configurations





Select a configuration, give us a call, and we can help you design what you need.

## How to maintain your Grabrail

Canterbury Concepts Grabrails are powder coated in order to optimise grip, durability and style. To maintain your rails please follow these instructions.

### Key tips for maintaining your grabrail

- **Never use abrasive cleaning detergents, sponges or cloths** – using these will very quickly wear away the finish and expose the aluminium resulting in reduced safety and unsightly rail.
- **Do not use turpentine, white spirits, thinner, bleach or other aggressive solvents on powder coating** – these may be harmful to the extended life of the powder coated surface and should be avoided as the damage may not be visible immediately and may take up to twelve months to appear.
- **Do not use a grabrail to hang wet flannels, towels or other items** – this can encourage mould growth and may cause the finish to stain over time.



### Step by step guide for cleaning your grabrail

- 1 Carefully remove any loose bits of dirt using a soft brush.
- 2 Use a soft sponge or cloth and warm soapy water to gently clean.
- 3 Rinse off with clean fresh water.