Caroma®

PLUMBERS INSTALLATION INSTRUCTIONS
For Vitreous China Liano Easy Height Wall Faced Back Inlet Toilet Pan
PLEASE READ CAREFULLY BEFORE INSTALLATION

Pan Connection

Important: Pan foot level

Mark centre line of pan on wall

Fig. 1

Pan Uni-Orbital® Connector Set-Out Dimension 'A'

50
165
60

Uni-Orbital® connector can be positioned anywhere in shaded area in a 50mm arc

Waste outlet

Pan seal

Finished Wall

"A"

Recommended set-out dimension 140mm Set-out range 60mm - 165mm

Pan foot level

100mm PVC DWV soil pipe

Fig. 2

Preparation For Bedding

Finished Wall
190

Fixed installation dimension for all set-outs

From pan foot level

Relieve bed around pan connector

185

Determine cutting height

Important Pan foot level

Bed height 60mm

Fig. 3 ∗140mm Recommended

'S' Trap Bedding Installation

Push pan onto Uni-Orbital® connector

Level pan when bedding

185

10mm bedded position 5mm silicone

Fig. 4

'P' Trap Bedding Installation

Push pan onto connector

Level pan when bedding

185

10 mm bedded position 5mm silicone

Pan outlet
150
190

Fig. 5

Fixing Hole Cover Detail for Bedding Installations

Blanking Cap

Pan Foot

Fig. 6

Bracket Fixing Detail

Plastic sleeve

Cap

Fixing head

Pan foot

Silicone bedding

D82 Concealed fixing bracket

Threaded stud

Fig. 7

Liano Easy Height Back Inlet Pan

150
415
615
350

Uni-Orbital® connector

Pan foot level

185

Recommended 140mm Setout range 60mm - 165mm (up to 50mm sideways adjustment)

Flush Pipe Detail

25

50mm (2") Kee Seal

Flushpipe

Wall

394 Centre of inlet

435

Pan foot level

185

D82 Fixing Bracket

150
280

Fig. 8

D82 Concealed Fixing Brackets

Cap

Plastic Sleeve

Concealed Fixing Bracket

Fig. 9

ROUGHING IN:

The Liano Easy Height back inlet pan is universal for both 'S' and 'P'-Trap installations as detailed. The recommended set-out for 'S'-Trap installations is 140mm from the finished wall with set-out flexibility for existing soil pipe positions ranging from 60mm to 165mm and 50mm sideways adjustment with the Uni-Orbital® connector supplied.

'S'- TRAP CONNECTOR FIXING PROCEDURE

1- Mark centre line of the pan on finished wall, as detailed in **Fig. 1**. This is to be used as a guide when connecting the pan.

2- Determine set-out **"A"** of existing pan connector, as detailed in **Fig. 2**. Set-out range 60mm - 165mm. Recommended set-out 140mm, as detailed in **Fig. 3**. For 'P' trap installation see **Fig. 5**.

3- For installation of the Uni-Orbital® connector, reference must be made to the instructions supplied with the connector.

4- Prepare for pan fixing method (either bedding or bracket installation) as detailed below.

PAN/CLOSET FIXING PROCEDURE

Pan bedding:

1- Remove an area of tiles which are within the internal area covered by the foot of the pan to expose the sub floor and provide a bondage key for the bedding mixture.

2- Ensure that the bedding area is clean and free of building material.

3- Locate blanking cap into pan fixing holes as detailed in **Fig. 6**.

4- Prepare bedding sand cement mixture 3:1 to depth of 60mm as detailed in **Fig. 3**.
Note: Do not fill the foot of the pan with bedding mix or include lime or fast drying cement into the mix, these may cause cracking in the foot of the pan.

5- Position and push pan into Uni-Orbital® connector and flushpipe using the marked centre line on the wall as a guide and level pan into bedding mixture, so that the back of the foot of the pan is approximately 10mm above the finished floor as detailed in **Fig. 4**. It is recommended that wedges are used to support the foot of the pan during the positioning.

Bracket fixing:

1- Position and push pan into Uni-Orbital® connector and flushpipe using the marked centre line on the wall as a guide to ensure that all fittings locate correctly. Remove the pan.

2- Locate the D82 Concealed Fixing brackets (supplied) into position on centre line of pan 280mm from the finished wall and mark bracket fixing hole centres on finished floor.

3- Drill two holes in the marked positions on the floor. The hole diameter is dependent on the type of fixing system and floor finish.

4- Secure Brackets to finished floor.

5- Ensure that the area around the floor is clean and free from building material.

6- Run a bead of acetic cured silicone sealant at a height of 8mm approximately fully around the foot of the pan which contacts the floor. Use Wedges around the foot base (if required) so that the **maximum height of silicone sealant is not greater that 5mm on completion on bedding**.

7- Connect pan to connector and locate plastic fixing sleeve into holes in the pan. Fit screw into the bracket and tighten to bed pan to floor while ensuring level, as detailed in **Fig. 7**.
IMPORTANT-DO NOT OVER TIGHTEN, AS THIS MAY CRACK THE PAN FOOT.
Snap on plastic cap, as detailed in **Fig. 7**.

8- Provide support under the pan foot so that it is maintained in the levelled position while the silicone sealant sets. Remove any excess sealant to provide a neat joint between the pan and the floor. Allow at least 24 hours for the bedding sealant to set before use

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IMPORTANT
TO ACHIEVE A SATISFACTORY 4.5/3L FLUSH PERFORMANCE AND A 4 STAR WATER EFFICIENCY RATING THE CISTERN MUST BE MATCHED WITH A COMPATIBLE CAROMA SMARTFLUSH 4.5/3L TOILET PAN.

smartflush system