

STRUCTURED WALL PLASTIC PIPE SADDLE

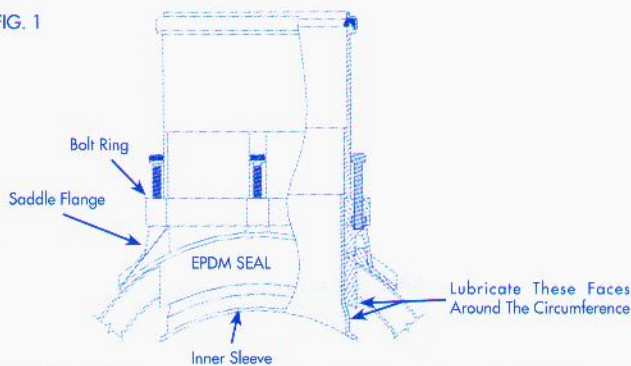


The range of saddles for structured wall plastic pipes allows the leaktight and secure connection of 160mm OD pipe laterals into carrier pipes in the range DN300 to DN600 I.D. They are suitable for both new installations and for post connection into existing pipelines.

Each saddle is supplied ready assembled for direct insertion into the host pipe in accordance with the instructions below.

1. Using a suitable holesaw, make a hole of 177mm (+2 mm, -0.5mm) diameter in the wall of the pipe into which the adaptor is to be fitted. It is important that the hole is perpendicular to the pipe and that the holesaw is long enough to cut through the wall in one pass.
2. Remove any burring or flashing from the edges of the hole by LIGHTLY rubbing with abrasive paper. Wipe the inside surface clean.
3. With the adaptor removed from the packaging, apply lubricant to the outer face of the inner sleeve and seal in the area shown in Fig. 1.

FIG. 1



4. Insert the adaptor, as received, into the hole so that the saddle flange sits snugly onto the pipe OD.
5. Using the 'T' handled hexagon tool provided, turn screws 1 and 2 (see Fig. 2) in a clockwise direction alternately by about 10 rotations at a time. This will draw the inner sleeve and bolt ring upwards. Continue turning the screws until the underside of the head touches the face of the bolt ring as shown in Fig.3. Repeat the procedure for screws 3 and 4. Ensure that the saddle flange remains on the pipe at all times.
6. The installation of the lateral adaptor is now complete.

FIG. 2

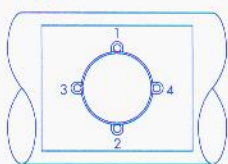
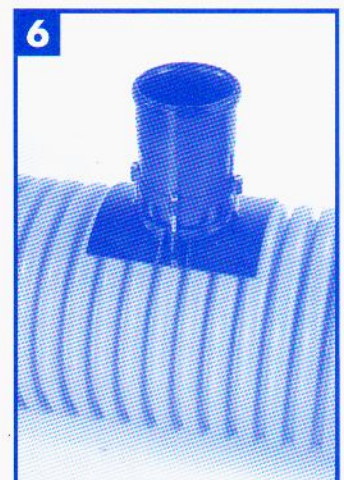
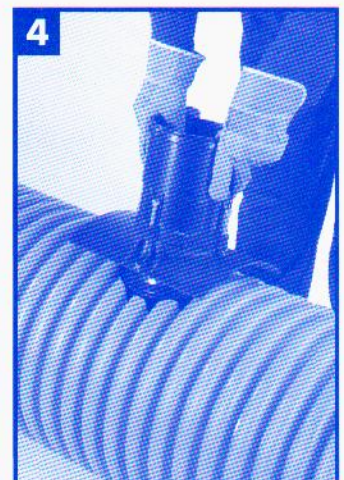
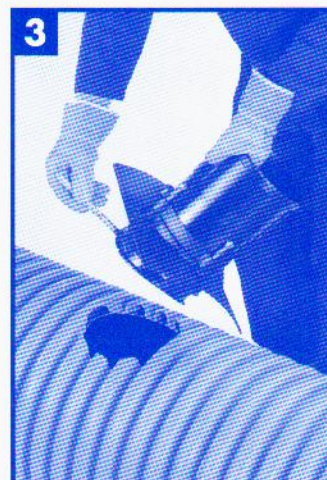
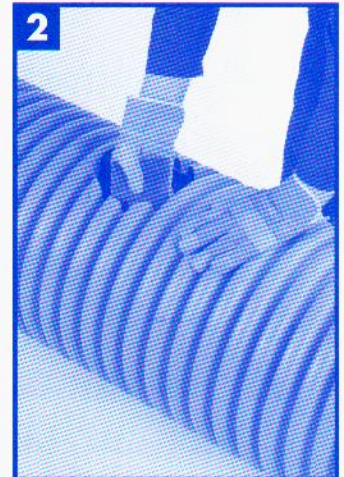
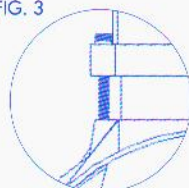


FIG. 3



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ADVANTAGES



- Designed specifically to seal onto structured wall plastic pipes
- No need to excavate around the pipe and disturb its bedding
- Durable watertight joint tested to 0.5 bar hydrostatic pressure and -0.3 bar vacuum
- Prohibits protrusion of lateral pipe into the main drain/sewer
- Quick and easy to install
- Moulded radius to end of saddle for precision fit to inside of main drain/sewer
- The connection location can be decided at the time of excavation for the lateral
- Test and backfill immediately after fitting - no waiting for adhesives/sealants to set
- Can be connected to smaller pipes and to laterals of different materials using adaptors
- Environmentally friendly - all elements fully recyclable

BENEFITS

- Reduces site costs due to speed and ease of installation
- Seals circumferentially thus eliminating compression of the profile
- Elastomeric seal ensures reliable flexible watertight joint between lateral and main drain/sewer
- Reduces disruption and risk of damage to the sewer as no need to fully excavate around the pipe

MATERIALS

The plastic components of the saddles are constructed from glass filled Nylon and ABS. The seal is made from EPDM to EN 681-1 and the nuts, bolts and inserts are made from stainless steel.

PERFORMANCE

The saddle is tested in accordance with the requirements of EN 1277:1996 "Thermoplastic piping systems for buried non-pressure applications". This is the same joint performance requirements as specified in the new pr-EN 13476-1, "Thermoplastic piping systems for non-pressure underground drainage and sewerage" and the UK Water Industry Specification WIS 4-35-01, "Specification for thermoplastic structured walled pipes, joints and couplers with a smooth bore for gravity sewers".

The saddle is designed to limit the intrusion into the bore of the pipe to a maximum of 10mm. This is based on a 177mm diameter hole and the following pipe profile heights:

FLEX-SEAL REF No.	NOMINAL PIPE SIZE DN (ID)	DN (OD)	TOTAL PIPE PROFILE HEIGHT (mm)
PA1530	300/350	400	26 - 29.5
PA1540	375/400/450	500	30 - 33
PA1550	500	-	35 - 38
PA1560	600	630	41 - 44
PA1530UR	300/350	-	15 - 18
PA1536UR	360	-	19 - 22
PA1540UR	400	-	25 - 28
PA1550UR	500	-	30 - 33

This document refers only to technical suitability and installation and does not absolve the user from legal obligations relating to health and safety at any stage.