

EZIPIT®

PIPELINE DESIGN

EZIPIT® 425 SEWER MAINTENANCE SHAFT (MS)

The EZIpit® 425 (MS) is a gravity sewer maintenance shaft with a nominal inside diameter of 425mm. It is suitable for installation depths up to 6m. It consists of a polypropylene base, corrugated riser and ductile iron cover arrangement.

The EZIpit® 425 maintenance shaft permits safe access for cleaning and inspection equipment from the surface, but restricts man entry.

The EZIpit® 425 (MS) consists of the following components:

1. DN 425 polypropylene bases with integral benching and flow channels. All bases include adjustable rubber ring joint sockets compatible with smooth wall DWV PVC-U pipes manufactured to AS/NZS 1260. The sockets allow the installer to adjust the grade or angle by up to 7.5° in any direction in the trench.
2. DN 425 polypropylene corrugated riser. The riser is available in a range of lengths, which can be cut on site to adjust the height of the shaft. The riser is orange/brown in colour.
3. DN 425 SBR seals for the base to riser and riser to cover elastomeric joint.
4. DI Cover arrangements suitable for both trafficable (Class D) and non-trafficable conditions (Class B).
5. SBR seals for the base to pipe connection.

The EZIpit® covers are available in a number of arrangements to suit different installation requirements. They are comprised of the following components:

Class B or D 'Top Hat' cover arrangement Options 1 and 2 (Flat finished surface). Refer figures 3 and 4.

- Ductile iron 'Top Hat' Frame with 360 circular cover. The 'Top Hat' is assembled on top of the riser and sealed with an EZIpit® 425 rubber ring. The frame is designed with a 300mm clear opening for safety purposes and is available in Class B (non-trafficable) or D (trafficable) with solid top or concrete in-fill covers. (Note: For concrete infill covers, concrete is cast insitu).

Class B cover arrangement Option 3 (Flat or sloped finished surface). Refer figure 5.

- Cap and lid with 300mm clear opening for safety purposes. The cap seals against the top of the riser with the EZIpit® 425 rubber ring seal.
- DN 560 PE Shroud (Allows further height and slope adjustment).
- DN 600 ductile iron circular frame and cover (Class B) concrete encased. The cover is assembled above the cap and is available with either a solid top or concrete in-fill cover.

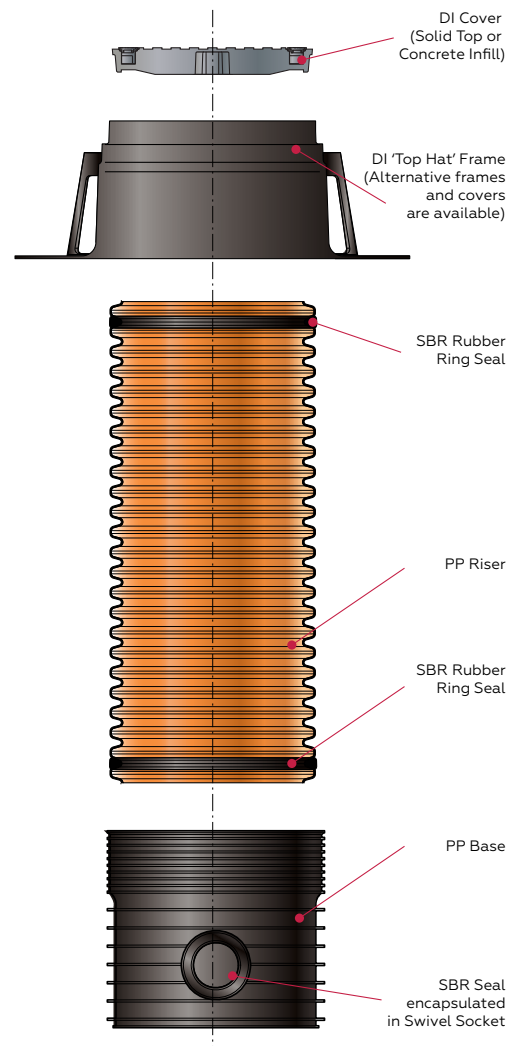


Figure 1: EZIpit® 425 Maintenance Shaft assembly. Note: All images are of a general nature only and not to scale. If critical, contact Iplex Pipelines.

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EZIPIT 425® SEWER MAINTENANCE SHAFT (MS) WITH DIFFERENT COVER OPTIONS

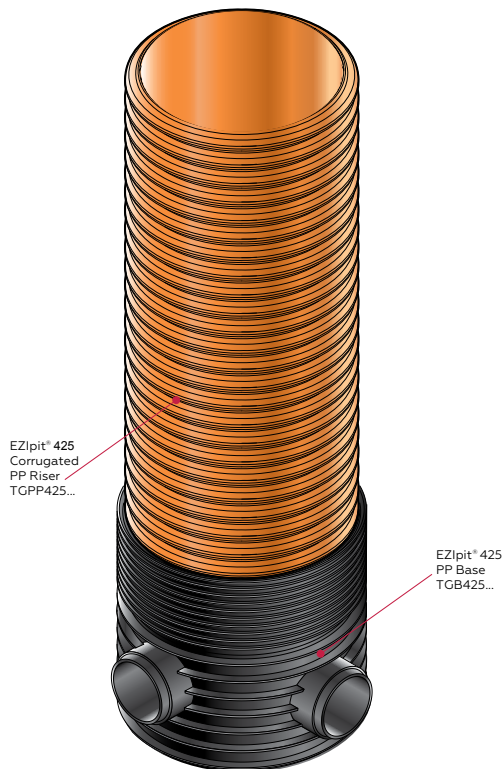


Figure 2: EZIpit® 425 Base & Riser assembly.

OPTION 1:
EZIpit® 425 MS with 'Top Hat' cover arrangement Class B

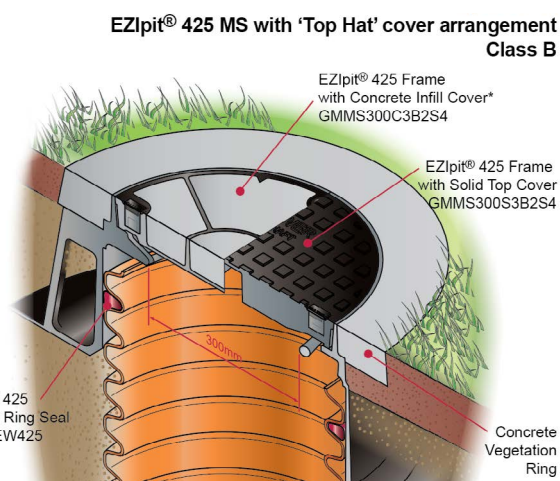


Figure 3: EZIpit® 425 Class B 'Top Hat' Cover arrangement.

*Top Hat' concrete infill covers to be filled with concrete insitu.

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OPTION 2:
EZIpit® 425 MS with 'Top Hat' cover arrangement Class D

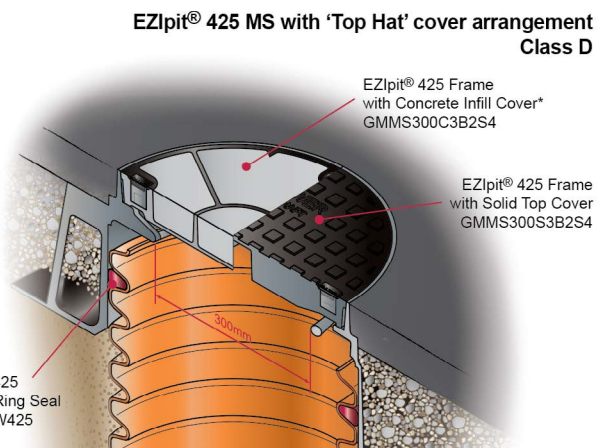


Figure 4: EZIpit® 425 Class D 'Top Hat' Cover arrangement.

OPTION 3:
EZIpit® 425 MS with GATIC® 600 concrete encased cover arrangement Class B

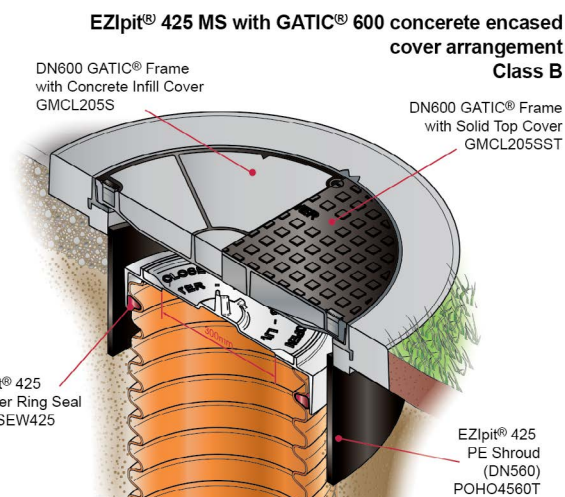


Figure 5: EZIpit® 425 Cover arrangement (Sloped surfaces).



EZIPIT®

PIPELINE DESIGN

EZIPIT® 425 SEWER MAINTENANCE SHAFT (MS) - LATERAL CONNECTIONS FOR INCOMING SEWERS

Gravity sewerage systems are designed to carry sewage and wastewater from toilets, dishwashers, kitchen sinks, washing machines and showers in houses and businesses.

There are two options when designing lateral connections for incoming sewers with the EZIpit® 425 MS.

The first option is via the EZIpit® 425 Base. The '4 way' x 90° sweep flow profile allows up to two side connections with PVC DWV smooth wall pipes. Pipes can be directly connected with the swivel joint (RRJ).

The second option is via the corrugated riser. Up to four property connections are possible using the PP 4 Way Riser Junction with Spigot branches at 0°, 90°, 180° and 270°. A standard PVC DWV RRJ coupling and Level invert tapers (LIT) provides an effective joint with the PP spigot branch.

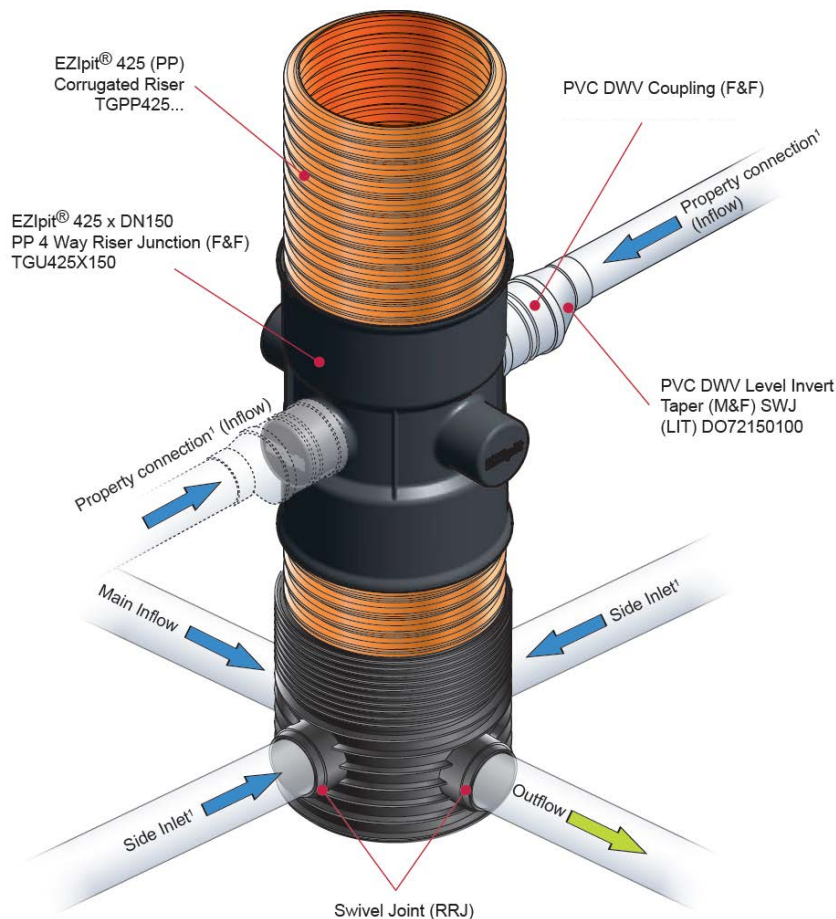


Figure 6: EZIpit® 425 Maintenance Shaft with lateral sewer connections via the base and the riser.

*Note: All images are of a general nature only and not to scale. If critical, contact Iplex Pipelines.
¹Inflows (subject to water authority) should match the obvert of the property connection and reducer.
For reticulation sewers the reducer and/or bend should match the invert of the sewer.*

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