



DUPLEX – The easy to install manhole

DUPLEX - MANHOLE DN 1000



Allgemeine bautechnische Zulassung
Z-42.1-504
Deutsches Institut für Bautechnik Berlin



Delivery: completely assembled up to 2,4 m construction height



• **Placement:**
manhole base units
with concrete filling
ease the pipe connection in
usual building site conditions.

• **Installation:**
Connectors and interlocks
assure an easy and safe
installation of the manhole
units

• **Covering:**
The telescope allows
to meet the local conditions,
delivery also possible with lid
units



The PREDL DUPLEX MANHOLE is an optimized component for a future orientated sewer network. The goal aimed for the development was to combine the advantages of the plastic lining in the sewer and the stability of traditional concrete manhole systems. This became reality with the twin-wall construction for every DUPLEX unit, which does not only considerably improved the stability of the manhole but also offers the optional possibility of a concrete filling.

The DN 1000 DUPLEX manhole can be supplied in polypropylene (PP) as well as in polyethylene (PE) which allows, if demanded, a guaranteed weld for both types of pipes.

Essential advantages :

- due to the twin-wall manhole construction, a much higher ring stiffness is achieved compared to traditional ribbed units
- the twin-wall design offers a great advantage to the DUPLEX-MANHOLE compared to other plastic manhole systems, as it can be filled with concrete when needed in order to gain more weight and rigidity.
- different nominal diameters and construction heights are compatible with DIN 4034/1 concrete units, the combination of both systems is possible using a DUPLEX transition ring
- the height of the manhole structure can be adjusted precisely with the manhole liner in the base as well as with the telescope in the cone in order to meet the local conditions.
- the telescope is watertight and can be perfectly aligned to the road level.
- for the channel configuration, the wide PREDL PP-liner range is available up to the nominal diameter of 400 mm.
- universal pipe connection possibilities: the manhole base is equipped with welded-in universal sockets in which all common pipes can be connected to, using the specific adapter.



Many different types of channel configurations are available with the PREDL liner programme.



The Duplex rings can be supplied in the heights 250, 500 and 750 mm.



The adjustable telescope can be aligned to the road level



The Duplex manhole can also be supplied in PE which allow a welded connection with PE pipes.



Combination possibility with concrete units according to DIN V 4034/1



Integrated ladder guides with entry pole



Eye bolts in cast-in nuts for incorporating the one-way handling loops



Ducts with standard core-drilling seals assure a watertight connection

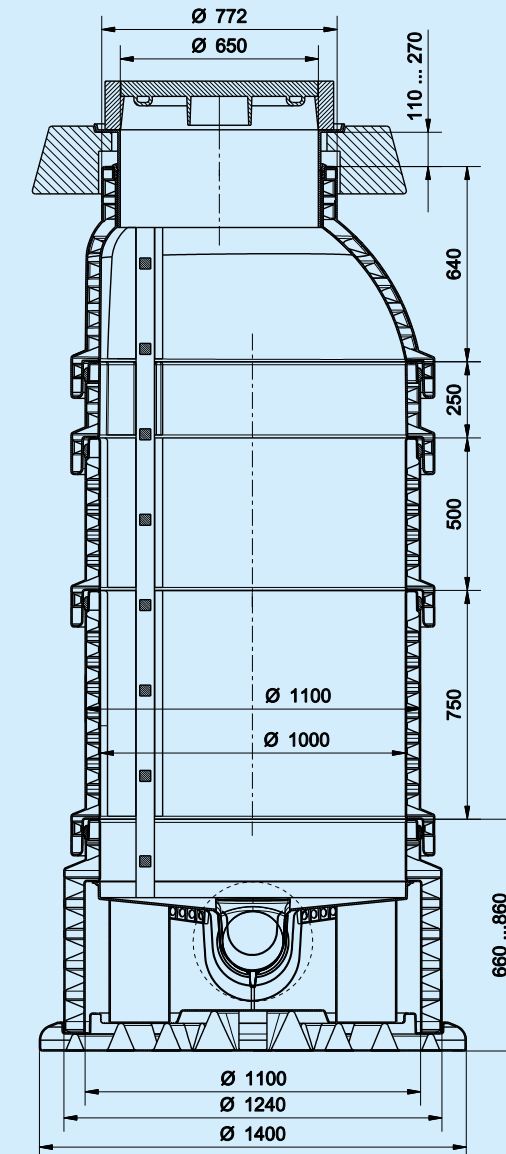


By using exchangeable adapters Different types of pipes can be connected

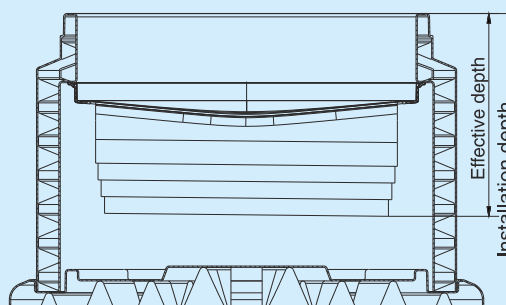


DUPLEX locking-ring

Technical details



DUPLEX MANHOLE DN 1000		
Diameter main channel	Effective depth (mm)	Installation depth (mm)
DN 150	450	680
DN 200	500	780
DN 250	550	780
DN 300	600	880
DN 400	740	920



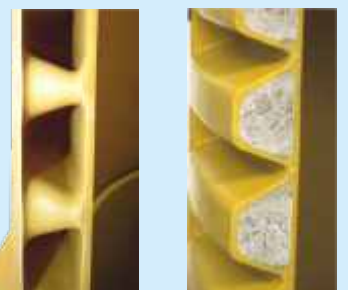
The concrete load distribution ring disconnects the heavy loads



The manhole units can be screwed together using the manhole connectors



The projecting floor slab secures against hydrostatic uplift. The preset interlocks ease the accurate assembling.



Extreme rigidity due to the twin-wall construction. All units can be filled if necessary (With concrete for ex.)