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PE CABLE CHAMBERS

For electric power and telecommunication

EN

The PE cable chamber for electric power and telecommunications networks is a plastic chamber, intended for electric power cable, optical fibre and other cable junctions. It is used for outdoor lighting, traffic signage, etc.

The chambers are available in nominal sizes of DN625, DN800, DN1000 and DN1600.

Advantages of the PE cable chamber are:

- long life span (the life span of material is 50 years, according to the manufacturer),
- water tightness,
- simple transport,
- simple handling (manual handling),
- quick and simple installation,
- quick and simple height adjustment,
- option of various combinations of inlet and outlet connections along the chamber body,
- quick and easy installation of connections along the chamber body,
- simple installation of additional connections,
- option of installation of a cast iron cover or PE cover.

Technical information

Material: polyethylene.

Inner chamber diameter: ø 625 mm, ø 800 mm, ø 1000 mm, ø 1600 mm.

Option of connection of various types of ducts:

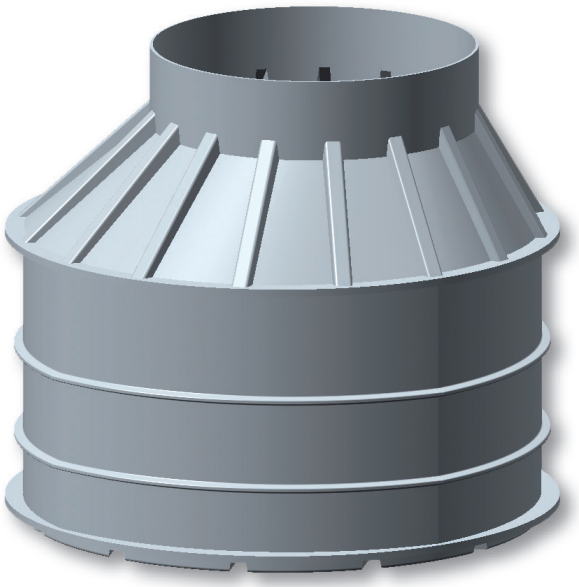
- PVC smooth and corrugated ducts,
- PE smooth and corrugated ducts,
- PP smooth and corrugated ducts.

Option of connection of various dimensions of ducts:

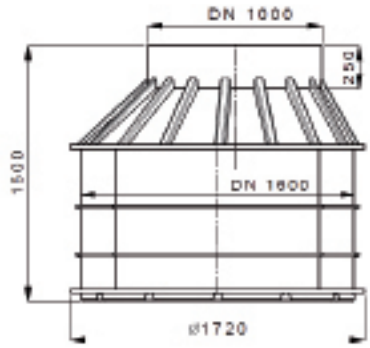
- standard connection from ø 32 to ø 200,
- other dimensions available upon request.

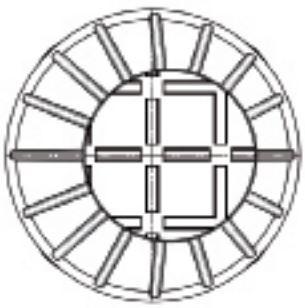
The basic standard connections are made with inlet gaskets.
Non-standard connections are manually extrusion welded.

PE CABLE CHAMBER DN 1600/1000 - "Aplast" type

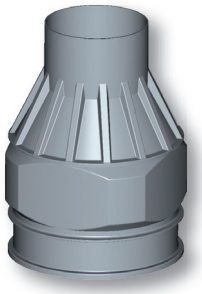


H
1500

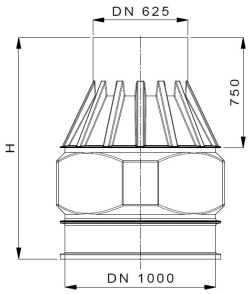




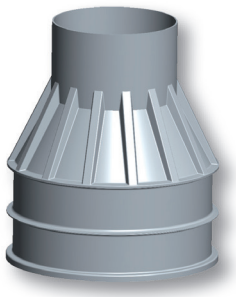
PE CABLE CHAMBER
DN 1000/625 EL – "Aplast" type



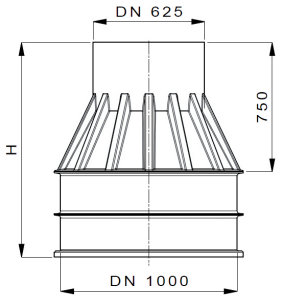
H
1250
1500



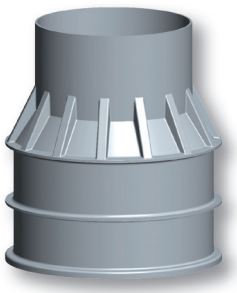
PE CABLE CHAMBER
DN 1000/625 – "Aplast" type



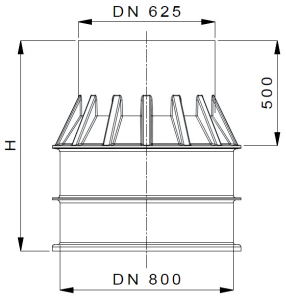
H
750
1000
1250
1500
1750
2000



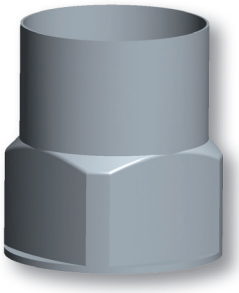
PE CABLE CHAMBER
DN 800/625 – "Aplast" type



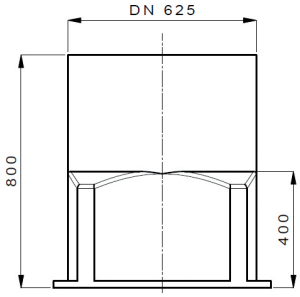
H
750
1000
1250
1500
1750
2000



PE CABLE CHAMBER
DN 625 EL – "Aplast" type



H
500
800



Installation

The PE cable chamber is placed on solid and compact foundation in the thickness of 15-20 cm, appropriately compacted up to min. 97 % according to Proctor. The foundation and the backfilling should be carried out with appropriate material:

- grained material with grain size from 0 to 32 mm,
- crushed material with grain size from 0 to 16 mm.

In the presence of groundwater the foundation should to be made from the MB15 concrete; the chamber should be surrounded by concrete in the radius of 30 cm around the chamber body and up to the max. level of groundwater.

Due to small weight of the chamber manual installation is possible. In case of machine handling straps may be tied around the chamber's stiffening ribs.

Before backfilling, the inlets and outlets for ducts should be installed.

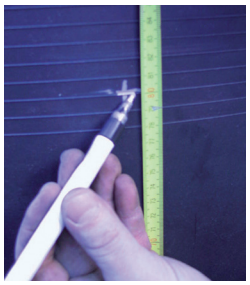
Backfilling of the PE cable chamber requires the use of appropriate material. The backfilling material must be carefully and uniformly compacted up to the 97 % of Proctor in layers (up to 30 cm thick) in the radius of least 50 cm around the body of the chamber.

Before the installation of the chamber in a heavy traffic area it must be taken into account that the AB ring and the plate should not rest on top of the chamber. The distance between the top of the chamber and finished AB ring or the lower rim of the cast iron cover has to be min. 50 mm. Thus the static and dynamic loads do not transfer directly to the body of the chamber, but rather to the backfilling material around the chamber.

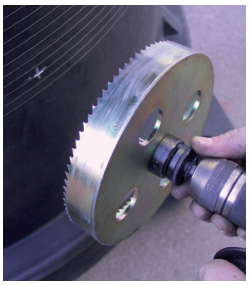
When installing in gras or traffic areas the PE cover or cast iron cover type B 125 can be used.

During backfilling, heavy machinery should not be driven over the chamber or over the immediate area of the backfill until the chamber has been properly installed.

Installation of a duct pipe connection to a cable chamber



Mark the height of the centre of the additional connection



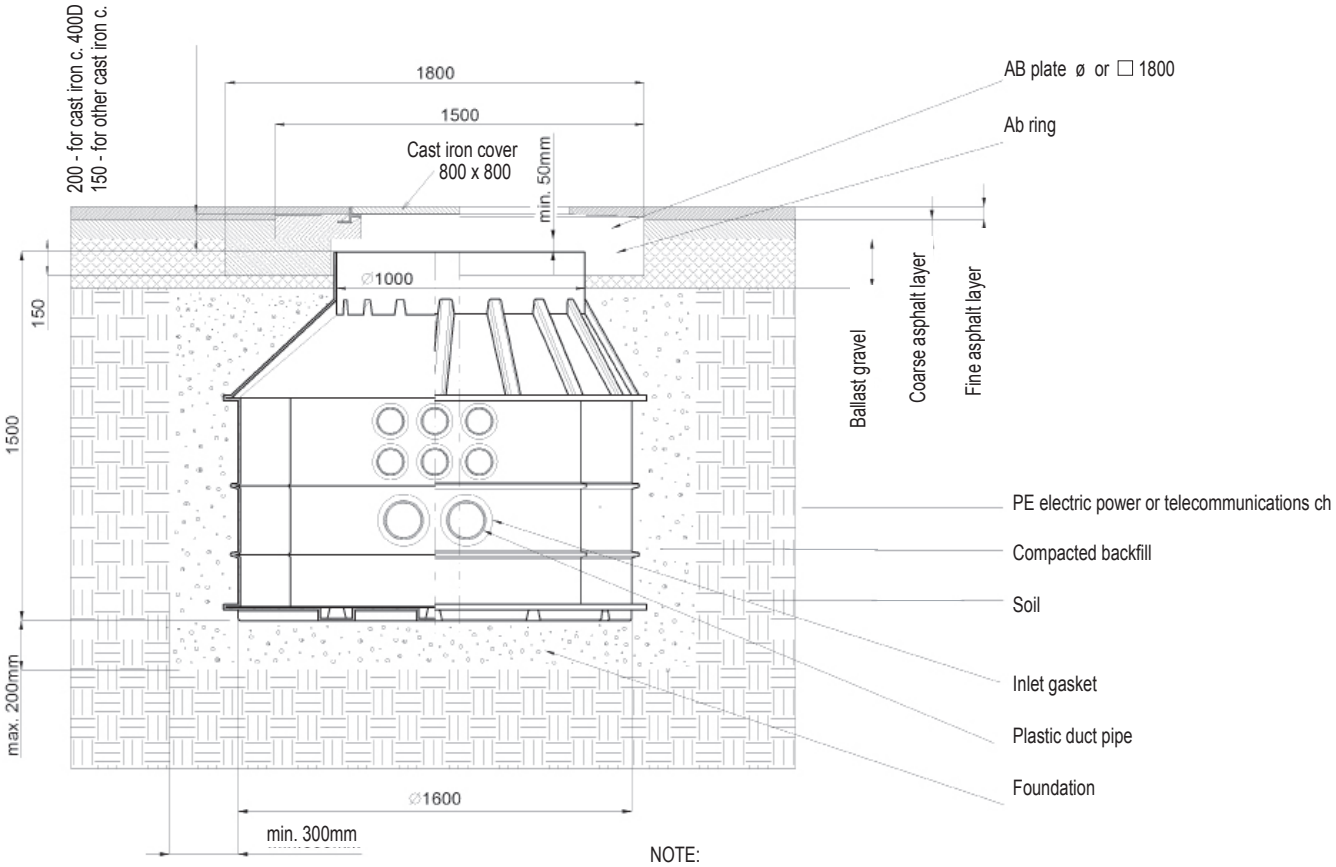
Drill a hole for the inlet gasket

Clean and lubricate the rim

Install the inlet gasket

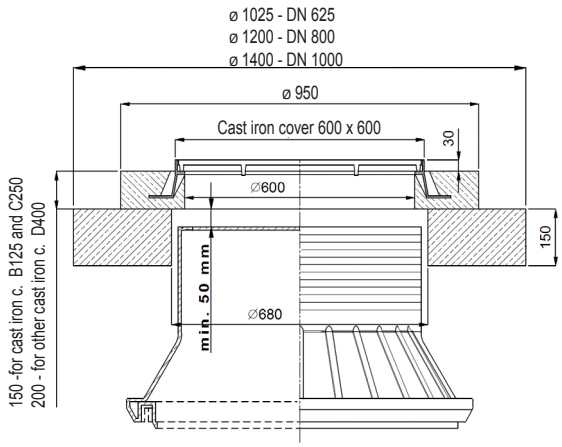
Connect the PVC duct pipe

Installation of the PE cable chamber DN 1600 in a traffic area with cast iron cover 800 x 800 for various loads



NOTE:
The compactness of the backfill should be at least 97 % according to Proctor

Detail of a completed installation of the DN 625, DN 800 or DN 1000 PE cable chamber in a traffic area with a 600 x 600 or 800 x 800 cast iron cover for various loads



Minimum recommended dimensions for the RC ring:

Chamber diameter DN	625	800	1000
RC ring diameter in mm	1025	1200	1400

***The correct dimensions of the RC ring and RC plate are specified by the project manager with respect to the load bearing capacity of the cast iron cover and the surface loads.**

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