

PE CABLE CHAMBERS



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, telecommunication channels, etc.

The chambers are available in nominal sizes of DN625, DN800, DN1000, DN1600 and \varnothing 1500.

Advantages of the PE cable chamber are:

- Long life span - min. 50 years.
- Water tightness.
- Simple transport.
- Simple handling (manual handling).
- Quick and simple installation.
- Quick and simple height adjustment.
- Quick and easy installation of connections along the chamber body.
- Simple installation of additional connections.
- Option of installation of a cast iron cover, PE cover and composite cover.

Technical information

Material: polyethylene.

Inner chamber diameter: \varnothing 625 mm, \varnothing 800 mm, \varnothing 1000 mm, \varnothing 1600 mm, \varnothing 1500.

Option of connection of various types of ducts:

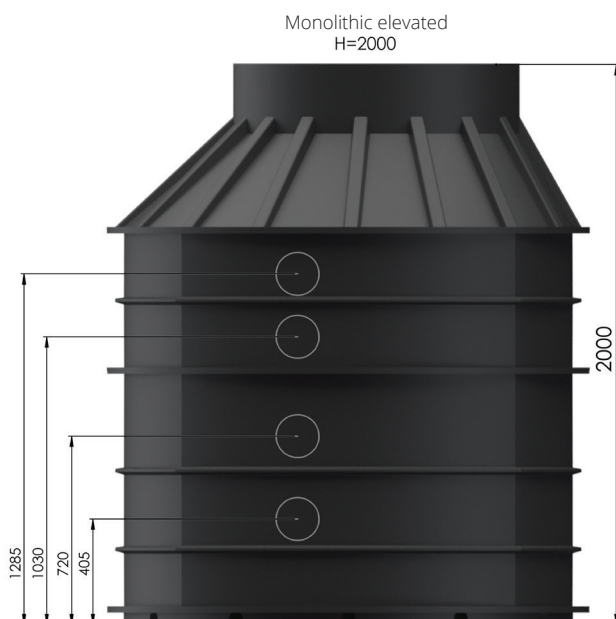
- PVC smooth and corrugated ducts,
- PE smooth and corrugated ducts,
- PP smooth and corrugated ducts.

Option of connection of various dimensions of ducts:

- standard connection from \varnothing 32 to \varnothing 200 mm,
- other dimensions available upon request.

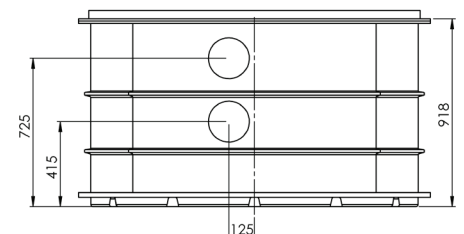
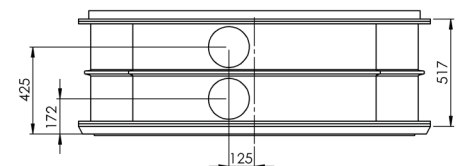
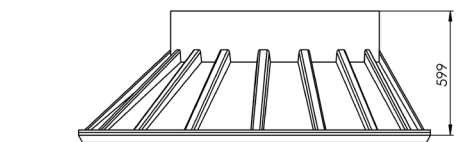
The basic standard connections are made with inlet gaskets. Non-standard connections are extrusion welded.

PE CABLE CHAMBER DN 1600/1000 - »Aplast« type



Monolithic elevated
H=2000

H	IDENT
1500	217806100
2000	217806200

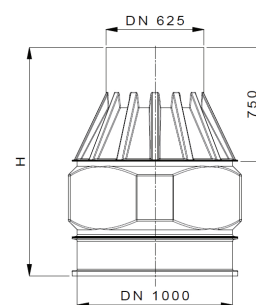


Possibility of composite implementation

PE CABLE CHAMBER
DN 1000/625 EL - »Aplast« type



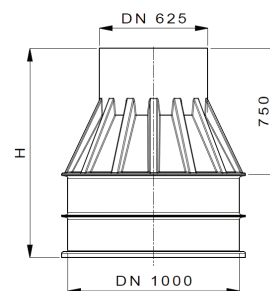
H	IDENT
1250	217804100
1500	217804200



PE CABLE CHAMBER
DN 1000/625-tip »Aplast« type



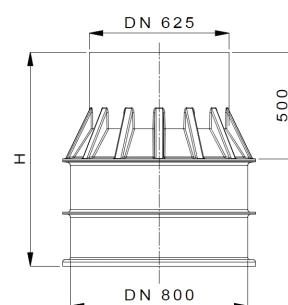
H	IDENT
750	217803050
1000	217803100
1250	217803200
1500	217803300
1750	217803400
2000	217803500



PE CABLE CHAMBER
DN 800/625-tip »Aplast« type



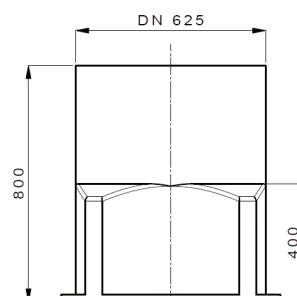
H	IDENT
750	217801050
1000	217801100
1250	217801200
1500	217801300
1750	217801400
2000	217801500



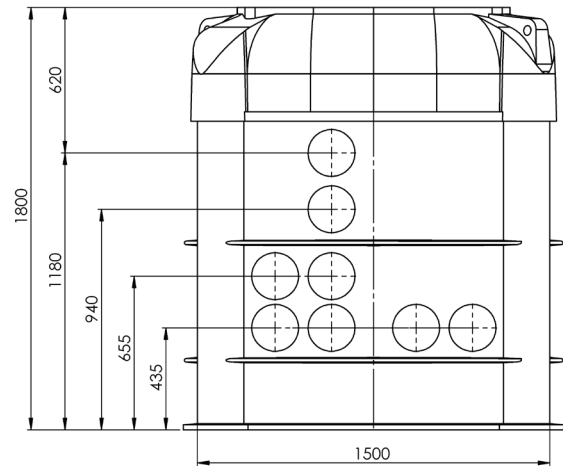
PE CABLE CHAMBER
DN 625 EL-tip »Aplast« type



H	IDENT
500	217800050
800	217800100



PE CABLE SHAFT 1500x1500x1800 - "Aplast" Type



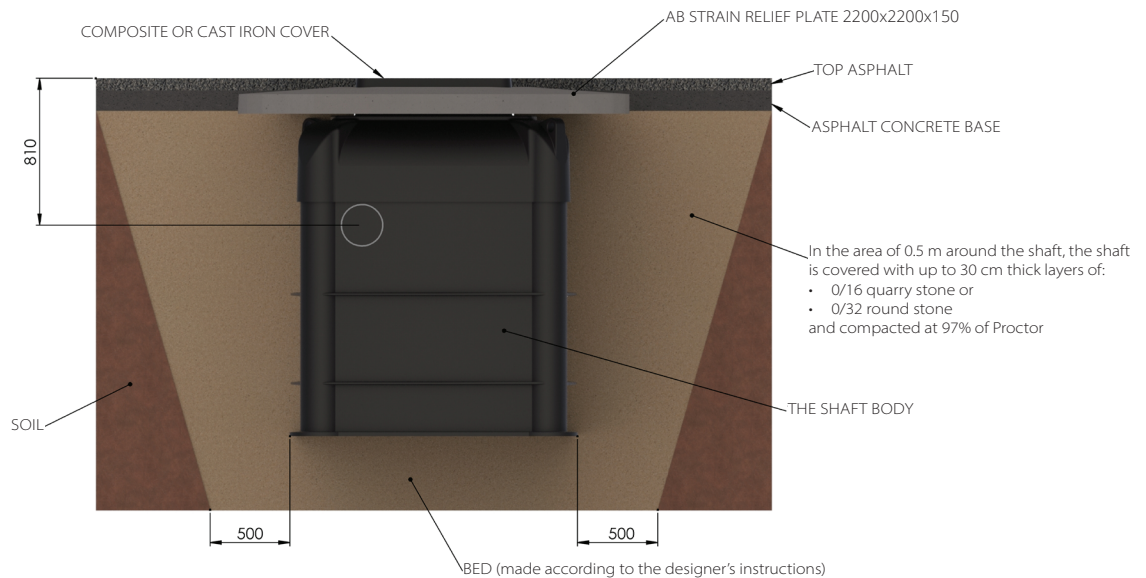
H	IDENT
1800	217810000 - PUR
1800	217810100 - PUR REINFORCED

PE CABLE SHAFT WITH ELEVATION

Advantages

- Reinforced double wall cover, PUR filled (polyurethane foam).
- Thanks to the additionally installed PE pillars, greater static strength and circumferential stiffness are ensured for the shaft.
- Metal bottom reinforcement for groundwater areas.
- Entrance opening of the shaft is made in a way that it has a pre-prepared seat for the cover frame or elevation.
- Flat surfaces on the shaft body make it easier to make connections.
- High level of safety at work: the additional internal metal construction allows any installation of a portable table (vertically - horizontally), on which elements for flat retraction and 90-degree semicircular retraction of electric cables are installed.
- Proper adjustment of the table and retraction elements to the centers of the entry-exit pipes prevents damage of the electrical cable sheaths.
- Standing height ensures safe and efficient work.
- The internal dimensions of the PE shaft make it easier to pull in and bend the cables for the execution of the nodes.
- Possibility of grounding the shaft with PF cable.
- Possibility of welding joints in shaft.
- Easy transportation and handling.
- Fast installation.

INSTALLATION OF THE PE CABLE CHAMBER



INSTALLATION OF PE CABLE SHAFT 1500X1500X1800 IN ROADWAYS

Provides all the norms for the preparation and implementation of electrical cable nodes.

Preparing the foundation

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.

Shaft installation

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.

Shaft backfill

Backfilling of the PE cable shaft requires the use of appropriate material (same as for the construction of the foundation) and the correct execution of backfilling. 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 hamber.

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 grassy or traffic areas the PE cover or cast iron cover type B 125 can be used for direct installation.

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.



RINGS AND CONES



RING (DN)	HEIGHT (mm)	IDENT
625	250	213680500
625	500	213680600
1000	500	213680900
1000	1000	213681020

Shaft ring



CONE	HEIGHT (mm)	IDENT
1000	750	213681300
1000	1000	213681312

Shaft cone



IDENT
217819400

Shaft elevation

COMPOSITE COVERS

STANDARD:

Composite covers meet all the requirements of EN 124-5.

ADVANTAGES:

- Up to 70% lighter than cast iron covers.
- Regardless of the load and traffic, it remains inaudible.
- Resistant to rust, chemicals and temperature.
- Low weight saves on transport and installation time.
- Not conductive of electricity.
- Transmits Wi-Fi and GPRS waves.
- Not interesting for theft.



A15, B125, C250
in D400
ø 800 mm in ø 1100 mm



B125, C250 in
D400
750x750 mm in 950x950 mm

CAST IRON COVERS



Cast iron covers for direct installation B125 ø 600 mm



Cast iron class A-D covers ø 600 mm
600x600 mm - 800x800 mm



PE walking covers
DN 625, DN 1000, ø 900

