



InstalPlast

SYSTEMY RUROWE PVC – PE – PP

CATALOG

Inspection
chambers

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Sales Department

InstalPlast Łask Sp. z o.o. Sp. k.
ul. Żeromskiego 66
98-100 Łask
Poland

 +48 43 675 80 86

 www.instalplast.pl

Characteristics, advantages, documents

These are essential elements of the non-pressure underground drainage and sewerage system. Inspection chambers produced by InstalPlast Łask allow access to the system for maintenance, cleaning or measuring the pipelines. .

The raw material used for the chamber's base production is PP, intended for injection. PP raising pipes are formed by extrusion and have either smooth PVC wall or corrugated, single or double wall made of PP. Ring stiffness of raising pipes is SN2, SN4 or SN8, depending on strength requirements.

In order to finish the manhole, we use a telescope made of PVC-U pipe with the external diameter of 315, 400 or 425 mm. A cast iron cover (full hatch or a grid) is permanently attached to a telescopic tube. Instead of using a telescope, as an ending of a manhole, it is possible to apply a concrete cone with a concrete or iron cover, mounted directly on a pipe. The type of ending is determined by the building area and the expected load. The seal particular elements of a manhole, we provide elastic rings which meet the PN EN 681-1-2002/A3:2006 requirements.

The benefits of using manholes produced by InstalPlast Łask:

- ✓ resistance of chemical substances present in sewage and in the ground,
- ✓ wide extent of thermal resistance,
- ✓ low weight of manhole elements, which facilitates carriage and assembly,
- ✓ high impact resistance,
- ✓ easy and fast assembly owing to the manhole modular construction,
- ✓ secure and tight connections,
- ✓ wide range of applications - permissible maximum depth of manhole foundation is 8 meters.

Norms and documents:

- ✓ PN-EN 13598-1:2020
- ✓ PN-EN 681-1:1996/A3:2005
- ✓ Declaration of Performance
- ✓ Technical Recommendation - Road and Bridge Research Institute (IBDiM)
- ✓ Technical Opinion - Central Mining Institute (GIG)

INSPECTION CHAMBER DIAGRAM

Telescope with full cover made of cast iron



Telescope with cover with storm drain



PP cover



Concrete cover



Concrete stone



Adapters – connection between the raising pipe and telescope



Sealing ring – connection between the raising pipe and telescope PP and PP cover

InCor raising pipe



Sealing ring – connection between the chamber base and raising pipe (the sealing ring is supplied when the chamber base is purchased)



Straight - through chamber base



Connection chamber base



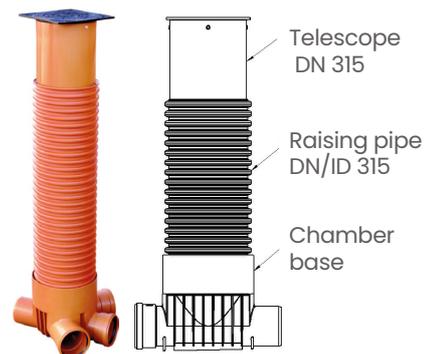
Chamber bottom

The construction of the manholes includes:

1. Straight-through or connection chamber base (with gasket in every set) for sewage pipelines in outer diameters of 160 or 200 mm with smooth or corrugated walls
2. Corrugated raising pipe of PP with single wall DN 315, SN2, available in sections of: 1,25 m, 2 m, 3 m, 6 m
3. Rubber sealing ring between the raising pipe and the telescope

Possible tops of chambers:

1. Telescope with a full hatch or a grid made of cast iron (class A15, B125 or D400)
2. Concrete stone (A15) with concrete cover (in this case no seal is used).
3. PP cover (A15)



Connection chamber base



Straight-through chamber base

Straight-through chamber base

To connect smooth pipes (RG)



Dimension [mm]

315/160

315/200

Connection chamber base

To connect smooth pipes (RG)



Dimension [mm]

315/160

315/200

Raising pipe

Single walled SN2



Dimension

ID [mm] / OD [mm] / L [m]

315/355/1,25

315/355/2,0

315/355/3,0

315/355/6,0

Telescope

With cast iron grid



Dimension

[mm] / weight resistance / L [m]

DN 315/1,5t/0,5m

DN 315/12t/0,5m

DN 315/40t/0,5m

Seal - sealing between a raising pipe and a telescope



Telescope

With cast iron full hatch



Dimension

[mm] / weight resistance / L [m]

DN 315/1,5t/0,5m

DN 315/12t/0,5m

DN 315/40t/0,5m

These chambers are built with the following elements:

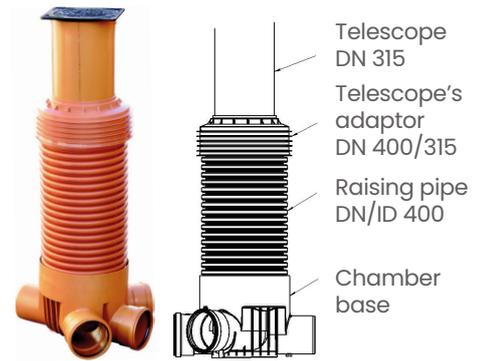
1. Straight-through or connection chamber base (with gasket in every set) for sewage pipelines in outer diameters of 160–400 mm with smooth or corrugated walls, as identified in the tables below.
2. Corrugated raising pipe of PP DN/ID 400 mm with single wall (SN4) or double wall (SN4), available in sections of 6m

Of connection raising pipe depending on the diameter of the telescope:

1. Rubber sealing ring between the raising pipe and the telescope DN 400 mm
2. Telescope's adaptor DN 400/315 mm with is a tight reducing element between raising pipe and telescope DN 315 m

Possible tops of chambers:

1. Telescope made of DN 315 mm pipe with a full hatch or a grid made of cast iron (class A15, B125, or D400)
2. Telescope constructed on the basic of DN 400 mm pipe with a full hatch or a grid made of cast iron (class B125 lub D400)
3. Concrete stone (A15) with concrete cover (A15)
4. PP cover (A15)



Samples of side connections configurations.

Any combination is possible (for PVC or PP pipes) the diameters of the side inlets (at an angle of 45 or 90 st) on one or both sides of the chamber base.

Straight-through chamber base

To connect smooth pipes (RG)



Dimension [mm]
400/160
400/200
400/250
400/315
400/400

Connection chamber base

To connect smooth pipes (RG)



Dimension [mm]
400/160
400/200
400/250
400/315

Straight-through chamber base

To connect corrugated InCor pipes (RK)



Dimension [mm]
400/160
400/200
400/250
400/300
400/400

Connection chamber base

To connect corrugated InCor pipes (RK)



Dimension [mm]
400/160
400/200
400/250
400/300

Telescope
With cast iron grid



Dimension [mm] / weight resistance / L [m]
DN 315/1,5t/0,5m
DN 315/12t/0,5m
DN 315/40t/0,5m

Telescope
With cast iron grid



Dimension [mm] / weight resistance / L [m]
DN 400/12t/0,5m
DN 400/40t/0,5m

Telescope
With cast iron full hatch



Dimension [mm] / max. obciążenie / L [m]
DN 315/1,5t/0,5m
DN 315/12t/0,5m
DN 315/40t/0,5m

Telescope
With cast iron full hatch



Dimension [mm] / weight resistance / L [m]
DN 400/12t/0,5m
DN 400/40t/0,5m

Raising pipe InCor
Single walled SN4
Double walled SN4



Dimension ID [mm] / OD [mm] / L [m]
400/453/6,0

Telescope's adapter - reduction between
raising pipe DN 400 and telescope DN 315



Seal - sealing between a raising pipe and
a telescope DN 400



Components of these manholes are:

1. Straight-through or connection chamber base (with gasket in every set) for sewage pipelines in outer diameters of 160–400 mm with smooth or corrugated walls, as identified in the tables below.
2. Corrugated raising pipe of PP DN/ID 425 mm with single wall (SN4) available in sections of 6m

Of connection raising pipe depending on the diameter of the telescope:

1. Seal
2. Raising pipe joint DN 425/315 mm with is a tight reducing element between raising pipe and telescope DN 315 m

Possible tops of chambers:

1. Telescope made of DN 315 mm pipe with a full hatch or a grid made of cast iron (klasa A15, B125, lub D400)
2. Telescope constructed on the basic of DN 425 mm pipe with a full hatch or a grid made of cast iron (class B125 or D400)
3. Concrete stone (A15) with concrete cover (A15)
4. PP cover (A15)



Samples of side connections configurations.

Any combination is possible (for PVC or PP pipes) the diameters of the side inlets (at an angle of 45 or 90 st) on one or both sides of the chamber base.

Straight-through chamber base

To connect smooth pipes (RG)



Dimension [mm]
425/160
425/200
425/250
425/315
425/400

Connection chamber base

To connect smooth pipes (RG)



Dimension [mm]
425/160
425/200
425/250
425/315

Straight-through chamber base

To connect corrugated InCor pipes (RK)



Dimension [mm]
425/160
425/200
425/250
425/300
425/400

Connection chamber base

To connect corrugated InCor pipes (RK)



Dimension [mm]
425/160
425/200
425/250
425/300

Telescope
With cast iron grid



Dimension [mm] / weight resistance / L [m]
DN 315/1,5t/0,5m
DN 315/12t/0,5m
DN 315/40t/0,5m

Telescope
With cast iron grid



Dimension [mm] / weight resistance / L [m]
DN 425/12t/0,7m
DN 425/40t/0,7m

Telescope
With cast iron full hatch



Dimension [mm] / weight resistance / L [m]
DN 315/1,5t/0,5m
DN 315/12t/0,5m
DN 315/40t/0,5m

Telescope
With cast iron full hatch



Dimension [mm] / weight resistance / L [m]
DN 425/12t/0,7m
DN 425/40t/0,7m

Raising pipe InCor
Single walled SN4



Dimension ID [mm] / OD [mm] / L [m]
425/475/6,0

Telescope's adapter - reduction between
raising pipe DN 425 and telescope DN 315



Seal - sealing between a raising pipe and
a telescope DN 425



CHAMBER'S COVERS

Concrete cone and lid

Use - cover of raising pipe
DN/ID 315, DN/ID 400, DN/ID 425

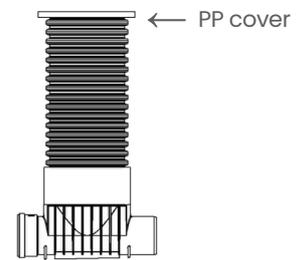
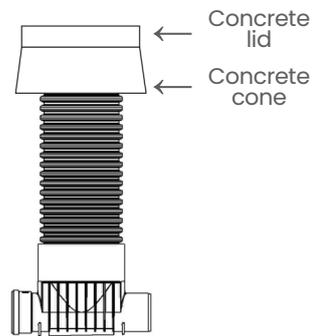
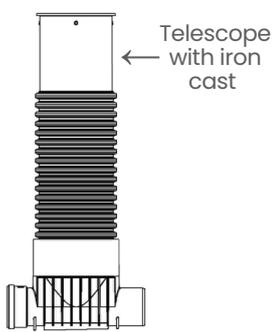


PP cover

Use - cover of raising pipe
DN/ID 315, DN/ID 400, DN/ID 425



Chamber covers:





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Sales Department

InstalPlast Łask Sp. z o.o. Sp. k.
ul. Żeromskiego 66
98-100 Łask
Poland

 +48 43 675 80 86

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