



APLAST

5G sewer inspection chambers with double bottom



5G SEWAGE INSPECTION CHAMBERS

The advantages of double bottom chambers:

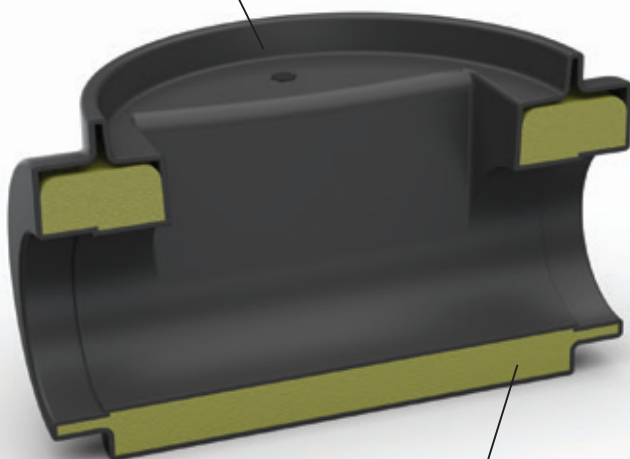
- The bottom of the double walled chambers (the outer wall of the chamber bottom and the inner wall-troughs).
- The outer bottom wall **prevents the deformations of the chamber troughs.**
- A gap between the outer bottom wall and the bottom trough is **filled with polyurethane foam.**
- Polyurethane foam essentially increases the resistance of the bottom to hydrostatic pressure and thus prevents deformations of the trough.
- **Upon request, the gap between the outer bottom wall of the chamber and the bottom trough can be partially filled with concrete** (if requested by the project specifications and the hydrostatic calculation, which is provided for this type of a PE chamber).
- **The chamber installation is possible in accordance with the standard, up to the depth of 6 m (in high groundwater areas up to a max of 5 m).**
- **The flat bottom of the chambers ensures an excellent stability of the chambers in the construction pit.**
- **A simple consolidating and backfilling process due to the flat bottom of the chamber.**
- The combination of inlet connections is easily adjusted according to the specifics of the project.
- **If requested, additional connections are available at the bottom of the chamber.**
- The chamber trough is perfectly smooth and dimensionally-adjusted to inlet-outlet connections.

The body of the chamber can be made of rotomoulded elements (SN 2) or of ribbed PE pipes (SN 4 or SN 8). The choice of circumferential stiffness of chamber bodies (SN 2, SN 4 or SN 8) depends on the requirements of the project.

5G chamber bottom cross section

3D longitudinal cross-section of the bottom of the chamber

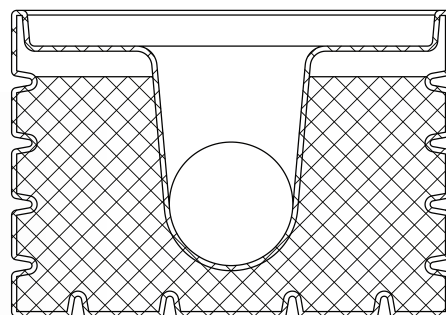
High density polyethylene



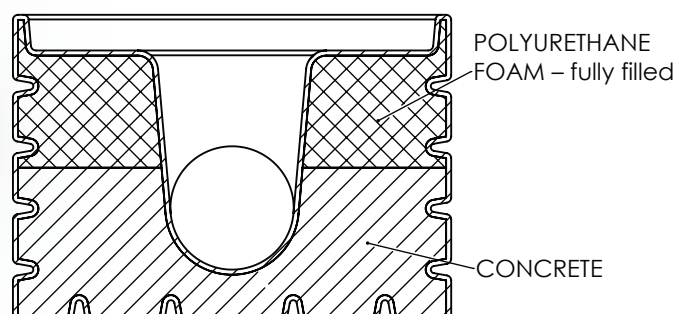
Polyurethane foam
concrete with the
addition of polyurethane

2D cross-section of the chamber bottom:

- fully filled with polyurethane foam



- partial filling with concrete



TECHNICAL DATA

5G DN 625, 800, 1000 inspection chambers

Material: polyethylene and polypropylene.
 Inner diameters of the chambers: 625, 800, 1000.

Diameters of sewer pipes connections:

- > **Chambers DN 625**
 - Standard input and output connections:
Ø 160, Ø 200, Ø 250, Ø 300 or blind connectors
- > **Chambers DN 800**
 - Standard input and output connections:
Ø 200, Ø 250, Ø 300, Ø 400 or blind connectors
- > **Chambers DN 1000**
 - Standard input and output connections:
Ø 200, Ø 250, Ø 300, Ø 400 or blind connectors

Chambers with additional connections are available if requested:

- od Ø 63 to Ø 200 by means of an inlet seal KS or LKS; larger diameters are welded.

Minimum height: 0,5 m.

Maximum height: 6,0 m or by agreement.

Easy height adjustment.

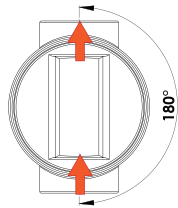
The function of tightness of the connections between the chamber components is ensured.

Connection pipes:

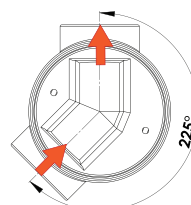
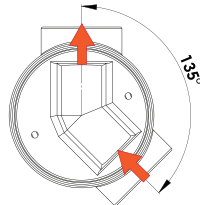
- PVC- smooth pipes
- PE-smooth and ribbed pipes
- PP-smooth and ribbed pipes
- all other sewer pipes (ductile, polyester, AB pipes, etc.)

Basic types of troughs:

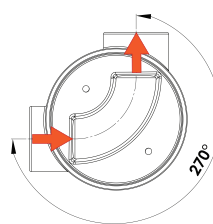
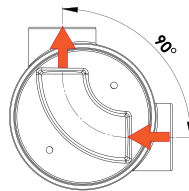
- Type: flat



- Type: 45°



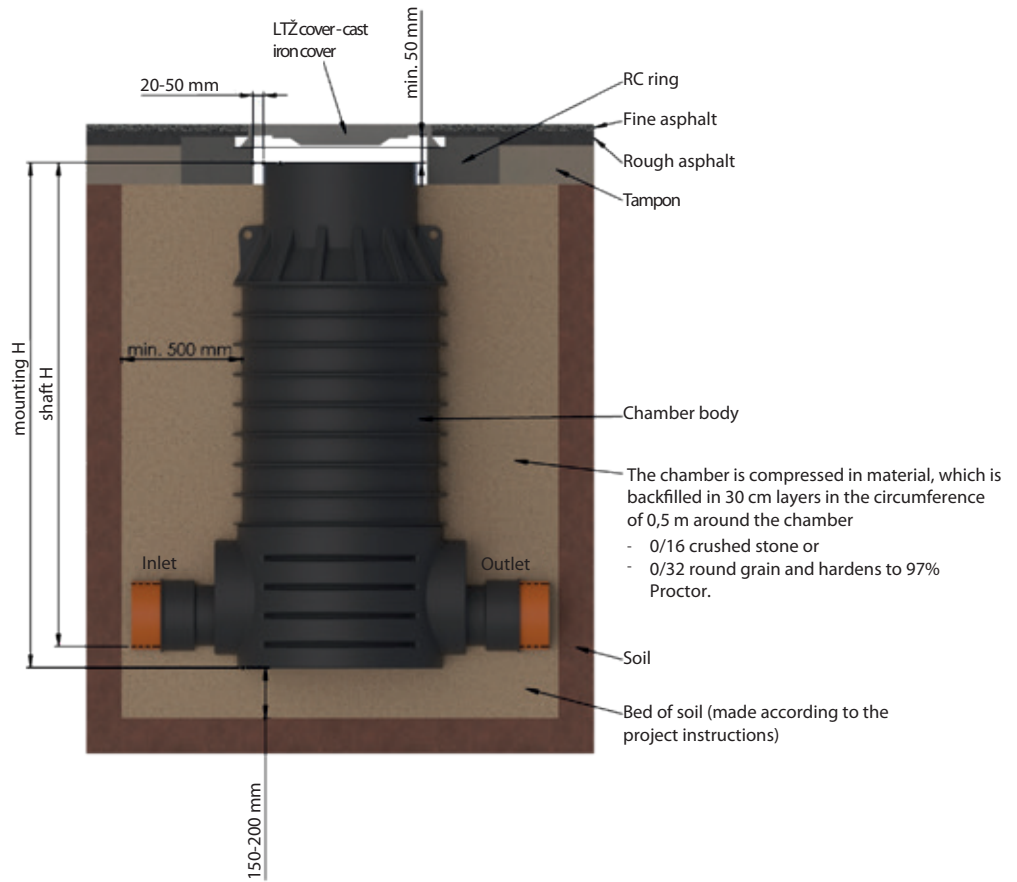
- Type: 90°



Standard inlet-outlet connections at the bottom of 5G chambers:

	DN 625				DN 800				DN 1000			
Troughs-DN	160	200	250	300	200	250	300	400	200	250	300	400
Troughs-Type												
90°		•	•			•	•				•	•
135°	•	•	•	•	•	•	•	•	•	•	•	•
180°	•	•	•	•	•	•	•	•	•	•	•	•
225°	•	•	•	•	•	•	•	•	•	•	•	•
270°		•	•			•	•				•	•

INSTALLATION OF 5G INSPECTION CHAMBER IN ROADS



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