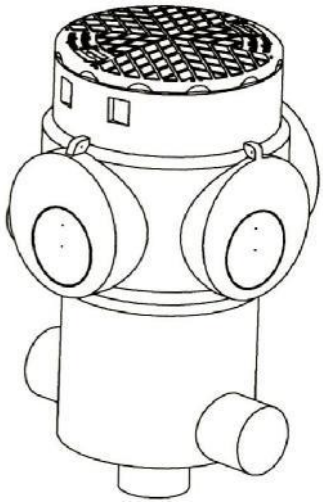
Assembly instructions and mounting guide
Prefilter Maxi

Technical documentation

1. Application area



The filter Maxi is used for the mechanical cleaning of the rainwater inflow for rainwater plants, seepage plants and ponds.

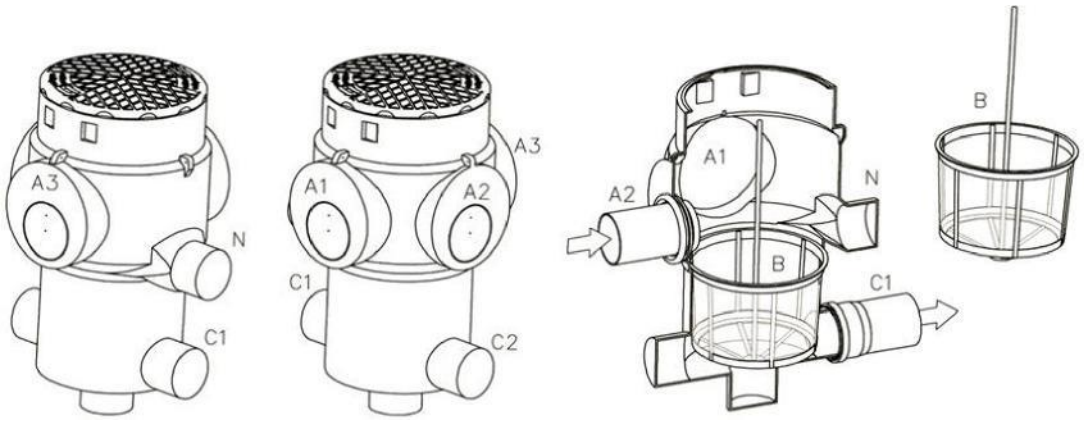
The width of the mesh (0.9 mms), assures a very fine filtering

The maximum connectable surface (roof, terrace) is approximately 350 m^2. The basic filter contains a cover which is suitable for the installation in public thoroughfares of the class A (cyclist, pedestrian). The installation in areas with higher traffic loads (passenger car, truck) is also possible.

Contents **Side**

Important notice:
The contents of this technical documentation and corresponding manuals are a component of the guarantee terms

2. Operating mode, connection possibilities/pre-mounting



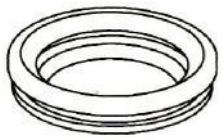
A1, A2, A3 Connection possibilities inflow or inflows
B Filter basket with withdrawal rod
C1, C2 Connection possibilities outflow or outflows
N Connection possibilities overflow

Operating mode

The rainwater to be filtered flows through one or several inflows (A, A2, A3) into the filter basket (B) with a mesh width of 0.9 mms to remove debris. The filtered rainwater leaves the filter by one or both outflows (C1 and/or C2).

Connection possibilities/pre-mounting

The inflow or the inflows can be connected from three different directions, see connection surfaces A1, A2 and A3. The connection surfaces contain circular grooves as a saw mark, into which the supplied lamella gasket DN100 fits. The chosen connection point needs to be sawn of and smoothed as marked on the filter, then the gasket is fitted. With several inflows additional lamella gaskets are necessary, see accessories.



Lamella gasket DN100

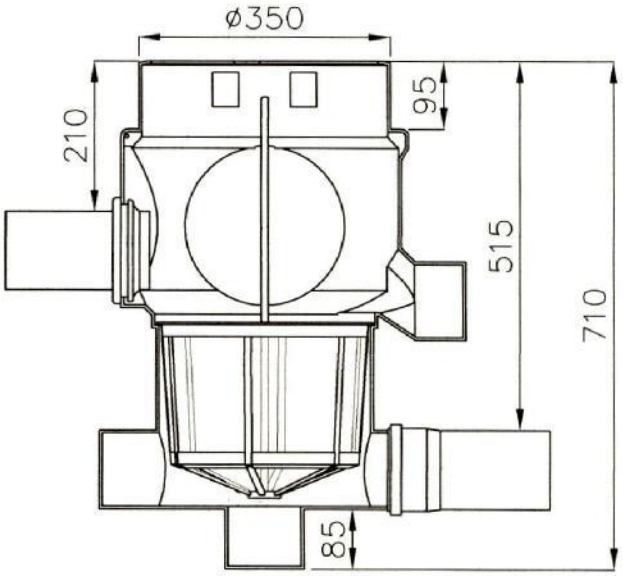
For the desired outflow direction there are two opposite openings (C1 and C2). To be able to use an opening as an outflow pipe it must be sawn off about 10 mms before the end; then a sleeve DN 100 can be put on it.

The opening "N" can be used as an auxiliary overflow.

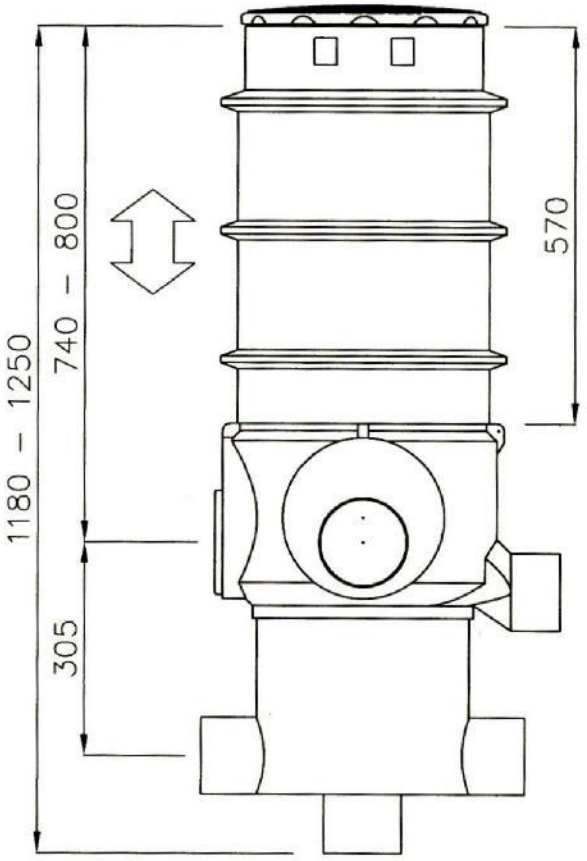
1. Operation/Servicing

To guarantee quality filtering the filter basket must be emptied regularly and be cleaned as necessary. The frequency of cleaning is determined by checking the filter regularly.

4. Main dimensions



Filter body



Filter body with pipe extension

The pipe extension is height-adjustable by pushing up 70 mms at a time or to shorten it can be sawn off to size. The maximum installation depth allowed 1.5 m.

5. Installation

General notes

Excavation pit: Existing pipelines, pipes, vegetation as well as other specifics have to be considered, so that damages and hazards will be avoided.

Filling material: The filling material has to be load bearing, well compactable and frost free. The best would be sand/gravel e.g. grain size 0/32.

Excavation soil can only be used if it fulfils the above criteria. Topsoil, loam or clay are not suitable for the backfilling.

For the drivable versions (points 5.2 and 5.3) limestone graining 2/45 or equivalent material is to be used for the rubble base layer.

Connection pipes: it is very important that the outflow pipe shows an equally strong or stronger slope from the filter than the slope from the inflow pipe to the filter. With nonobservance the filter overflows with heavy rainfall. This also applies to the outflow pipe.

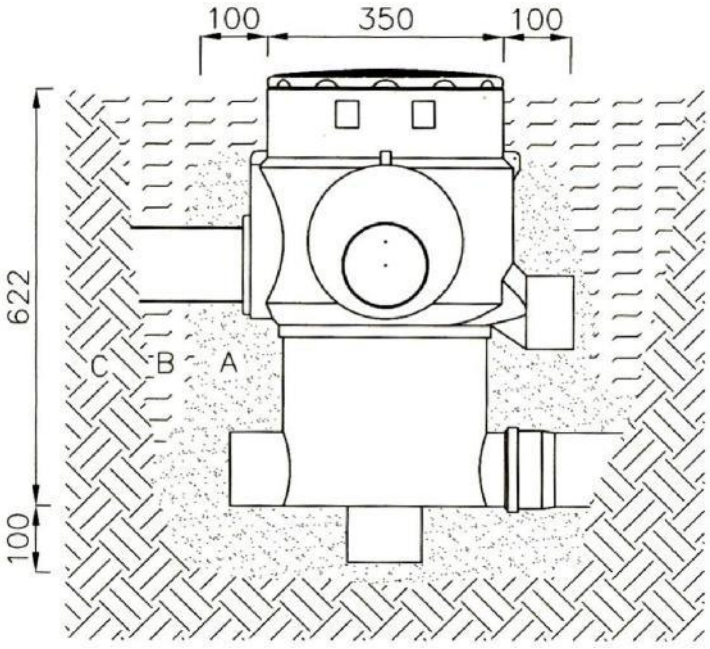
5.1 Installation walkable version

Workflow of the installation

1. Excavation of the pit
2. Fill with about 100 mm thick bedding of filling material, compact it well (machine, or three operations with hand tamper 15 kg / squared timber or similar)
3. Insert and adjust the filter, joining the pipe connections.
4. Fill in with filling material in about 100 mms thick layers. The thickness of the filling material around the filter body should be about 100 mms. The rest of the layer can be filled with excavated soil. Every layer has to be compacted, e.g. with a hand tamper 15 kg / squared timber or similar, without machine usage.

This filling should continue to about 100 mms under the top edge of the ground.

5. The rest filling can be chosen arbitrarily



A Filling material according to point 5.
B Filling with excavated soil or similar
C surrounding ground

Installation - drivable for cars:

Load class B (passenger car, minibus, max. axle load 2.2 To): Passenger car Complete set (instructions DORW2126; point 3 pictures 10, 13 and 16). Minimum distance from top of filter to the earth's surface: 600 mm.

Installation - drivable for lorries:
SLW30 load classes D (truck max. axle load 11.5 To): Spacer ring necessary, further information in instructions DORW2127 as well as point 3 Pictures 10, 13 and 16. There must be a minimum distance of 800 mm between the top of the filter and road surface.