

Inspection and cleaning – Bassin Rigofill®

Tips and recommendations

We cannot advise a frequency of inspection or cleaning as the conditions vary according to the place of installation. Each project is specific.

To prepare for your basin maintenance, we recommend the following actions :

- An inspection and hydrocleaning of the distribution or settling structures positioned upstream of the basins (if installed) after the completion of the construction phase.
- An inspection and hydrocleaning of Quadro-control® manholes after the completion of the construction phase. These will indicate to you the necessity or not of a hydrocleaning. A camera passage is recommended to check the correct placement of the structure elements. (If the tunnel is somehow displaced or in a staircase shape, such an inspection would alert us of an installation problem).
- After this inspection, we recommend an additional visual inspection after 6 months. Only then, a decision can be made whether it is necessary or not to undergo further inspections or proceed with hydrocleaning. If no further operation is necessary, we can space the controls to 12 months until the right frequency is found.
- In all cases, we advise a careful control and maintenance of the decantation structures and upstream screens. These structures guarantee the sustainability of your basins.
- Do not forget the regular control and cleaning if necessary of the flow limitation structures.
- After a major climatic event (e.g. heavy storm), we recommend an inspection and a hydrocleaning of the structure.
- The cleaning pressure will be limited to 125 bars. The recommended tool must have a rotating round head. Tools that can damage the structure (notched heads) must not be used.

Access to the structure and cleaning

The inspection tunnels and their access points by the Quadro-control® manholes or the downstream chamber are identified on the map. The basin layout plans and the layout plans provided by Canplast must be accessible and transmittable to the maintenance teams and all the requesting parties.

Inspection and/or cleaning will be by access of the Quadro-control® or the downstream chamber to accessible inspection tunnels.

Dimensions of access structures and tunnels

- Diameter of the manhole extension : 500 mm
- Manhole size : W/L/H= 80/80/66 cm
- Manhole maximum depth : _____ m
- Tunnel section : W/H = 22/27 cm
- Section passage manhole – tunnel : W/H = 21/21 cm

The inspection of the tunnel will be done using a self-propelled waterproof camera, with adjustable remote control and will have to correspond in terms of dimensions to the material suitable for inspection of DN 200 pipes.

For multilayer systems, only tunnels at the lowest position of the blocks will be inspected.

Eventual hydrocleaning must be done with standard equipment.



Figure 1 : Inspection before cleaning Rigofill® Modules containing large amount of macro-waste (dirty basin)



Figure 2 : Post-cleaning inspection (clean basin)



Figure 3 : Inspection of a Rigofill® basin after hydrocleaning via the cleaning passage



Figure 4 : Hydrocleaning inside inspection tunnels