

Inspection and Maintenance Plan

Rainwater utilisation systems must be inspected regularly by the Operator and/or an expert. The operational and functional reliability can be increased, service life prolonged and structural damage as well as unscheduled repairs avoided by conducting regular inspections and qualified maintenance. The warranty time according to VOB will be maintained for new systems. Please refer to the following table for activities and time intervals.

System Part/Device	Measures	Execution	Timeframe
Roof drain	Inspection	Checking of unrestricted drain (also any overflows), tightness, cleaning of dirt traps, if available, check heating	6 months
Gutters/rainwater pipes	Inspection	Tightness test, checking for cleanliness, fastening, if available, heating and if available, protective coating; clean sieves	1 year months
Filter systems	Inspection	Checking the condition of the filter	3 months / not longer than 1 year ^a
	Maintenance	Cleaning of the filter	3 months / not longer than 1 year
Rainwater storage tanks including mounting parts	Inspection	Checking cleanliness, tightness test, stability	1 year
	Maintenance	Emptying, cleaning of the inner surface of the storage tank, if necessary, removal of sediments	approx. 10 years
Service water pump	Inspection	Visual test of the switching cycle for operability and tightness	6 months
	Maintenance	Test run: Testing of the following before, during and after test run: <ul style="list-style-type: none"> - Electrical protection of the pump system according to VDE regulations - Feed pressure of membrane tank (if available) - Tightness of mechanical seal of pump - Function of return flow inhibitor - Pump and flow noise - Tightness of the system and valves - Cleanliness of system - Corrosion of system parts 	
Backfeed/free outflow type AA or type AB	Inspection	Testing of the safety distance (water level setting), the inlet valve and the overflow when inlet is fully opened, if necessary, visual check of ventilation	1 year
System control	Inspection	Checking by monitoring of a switching cycle of the pump unit	6 months
	Maintenance	Test run: Testing of the following before, during and after test run: <ul style="list-style-type: none"> - Switch-on and switch-off points of the system - Backfeed (solenoid valve) 	1 year
Level indicator (rainwater storage tank)	Inspection	Comparison of the liquid level in the storage tank with the level indicator	1 year
Piping	Inspection	Checking all visible lines for condition, fastening and outer corrosion, tightness test	1 year
Water meter	Inspection	Functional and tightness test of water meters	1 year
	Maintenance	Water meters are to be replaced every 6 years according to the calibration regulations, if they are used commercially.	6 years

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Return flow inhibitor	Inspection	In order to test the tightness of the end connection, the pipeline must be blocked in flow direction upstream of the return flow inhibitor. By opening the testing device, which is located on the entry side of the return flow inhibitor, it can be determined if water flows out. At the same time, it is expected that the supply pipelines downstream the return flow inhibitor are filled with water. The end connection is tight if no water flows out of the test nozzle.	1 year
Backflow seals	Inspection	Activate shutter, if necessary, emergency shut-off	1 month
	Maintenance	Cleaning, tightness and functional test according to manufacturer's documents	6 months
Odour trap	Inspection	Checking for cleanliness and water level, tightness, if necessary, ability to shut off	6 months
Wastewater lifting station (acc. to DIN EN 12050-2)	Inspection	Testing for operability, tightness, outer corrosion	1 month
	Maintenance	Tightness, functional tests, checking of level switch, setting heights of ON, OFF and alarm level, tightness test of the return flow inhibitor	3 months ^b 6 months ^c 1 year ^d
Water tapping valves	Inspection	Tightness testing of all water tapping valves and possible changing of water with regard to odour, colour and suspended matter	1 year
Flushing systems (toilets)	Inspection	Checking of flushing process of flushing systems (toilet tanks, flushing valves), if necessary, adjustment of the flushing water volume	1 year
Labelling	Inspection	Checking the labeling of all pipelines and taps	1 year

- a according to site conditions and manufacturer's specifications
- b in industrial workplaces
- c in apartment buildings
- d in single family homes