

# Installation guide

**ECOFLO**<sup>®</sup>

Concrete Ecoflo compact biofilter — Ontario

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This guide contains the information required to install a concrete Ecoflo compact biofilter certified under the CAN/BNQ 3680-600 requirements. The installation must be performed by an authorized installer. A list of installers can be provided by contacting our Customer Service team at +1 800 632-6356.

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**Ontario** 724345 – 2024

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## 1. TECHNICAL DATA SHEET

## MATERIALS USED:

- Tank and top slab: reinforced concrete
- Lid, central support, tipping bucket, and distribution plates: polyethylene
- Filtering medium: natural fibres

## Table 1: Technical data sheet - Concrete Ecoflo compact biofilter models in Ontario

	Ecoflo compact biofilter model					
	STB-650B	STB-650BR*	STB-840B	STB-840BR*		
Hydraulic capacity – demand dose	2,000 L/d		2,60	2,600 L/d		
Hydraulic capacity – time dose	2,500 L/d 3,250 L/d		0 L/d			
Treatment surface area	6.5 m <sup>2</sup>		8.45 m <sup>2</sup>			
Discharge	Gravity	Pumped	Gravity	Pumped		
Bottom	Clos		sed			
Length	3,800 mm (12' 6")		4,858 mm (15' 11-1/4")			
Width	1,960 mm (6' 5")		2,128 mm (6' 11-3/4")			
Height C	1,820 mm (6')		2,019 mm (6' 11")			
Inlet height from bottom	1,250 mm (4' 1")		1,383 mm (4' 6-3/4")			
Inlet height from top	570 mm (1' 11")		718 mm (2' 4-1/4")			
Gravity water outlet height	150 mm (6")		210 mm (8-1/4")			
Pumped water outlet height		1,340 mm (4' 5")		1,359 mm (4' 5-1/2")		
Tank weight**	4,990 kg (11,000 lb) 6,850 kg (15,100 lb		(15,100 lb)			
Filtering medium and internal components weight**	400 kg (880 lb) 450 kg (1,000 lb)		1,000 lb)			
Top slab weight**	1,815 kg (4,000 lb)		2,815 kg (6,200 lb)			
Total weight**	7,200 kg (15,880 lb)	7,210 kg (15,900 lb)	10,115 kg (22,300 lb)	10,125 kg (22,320 lb)		
Dosing volume		300 L		500 L		
<b>Retention volume</b> Between bottom of filtering medium and base of tank		950 L		1,300 L		

\* Factory-assembled model. A letter "A" is affixed following the model number to designate this option.

 $^{\star\star}$  Weights are for handling and lifting purposes only. They are approximate and non-binding.



## 2. DESCRIPTION OF SYSTEM COMPONENTS

## 2.1. PRIMARY TREATMENT

Primary treatment consists of a septic/primary tank, which clarifies wastewater by letting suspended solids settle to the bottom and lighter matter float to the top. An effluent filter is installed at the outlet to prevent floating matter from clogging downstream components. All septic/primary tanks and effluent filters must comply with local regulations. The septic/primary tank shall have a capacity of at least 24 hours retention time based on the daily flow.

Opting for a septic/primary tank with greater capacity than needed will improve treatment performance, regardless of the septic system. A polyethylene or concrete septic/primary tank can be installed with the concrete Ecoflo compact biofilter.

The effluent filter helps extend the lifespan of any treatment system by retaining floating solids in the septic/primary tank. The use of an effluent filter is especially important if a residence is equipped with a garbage disposal unit, a sewage pump, or any other device that could increase the quantity of suspended matter in wastewater and lead to premature clogging in the treatment system. In the case of demand dose only, the effluent filter must incorporate a flow control device.

## 2.2. DOSING TANK AND CONTROL UNIT (TIME-DOSE INSTALLATIONS ONLY)

A dosing tank of sufficient volume must be installed downstream from the septic/primary tank to feed the Ecoflo compact biofilter. The dosing tank's pump is connected to the Rewatec DCU-100 simplex control panel or an equivalent to feed the Ecoflo biofilter 20 hours per 24-hour period. Premier Tech recommends feeding each Ecoflo compact biofilter unit between 30 and 40 L (8 and 10 US gal) per hydraulic event.

## 2.3. ECOFLO COMPACT BIOFILTER

Once primary treatment is complete, wastewater flows from the primary/septic tank to the Ecoflo compact biofilter, where it flows into a tipping bucket that evenly distributes it along the distribution plates installed on either side of a central support. Wastewater then trickles through a filtering medium composed of natural fibres. The organic matter contained in wastewater is then consumed by the microbial flora fixed onto the particles that compose the filtering medium. Finally, treated effluent is discharged into the environment either by drain field infiltration or by dispersal into a watercourse, depending on local regulations and site conditions.

To ensure effective treatment, the system must have enough oxygen to feed the microorganisms in the filtering medium. Air enters the system through vents located on the main access lid (see Figure 1). Depending on the specific Ecoflo compact biofilter model, the pumping station and/or central support allows air to circulate between the surface and base of the filtering medium. Air circulates throughout the system by way of convection from the residence's vent (or a standalone vent) through a feed pipe to the primary/septic tank.

The Ecoflo compact biofilter's operating principle allows the system to be used continuously or intermittently without requiring any special precautions or having any impact on the quality of the treatment. In most cases, no specific action from the owner is required to start the system.



Figure 1: Airflow in a concrete Ecoflo compact biofilter unit

The Ecoflo compact biofilter model and number of units required are determined based on the number of bedrooms in the residence or the total daily volume of domestic wastewater generated by any other type of building. It is also determined in accordance with the surface area, existing topography, and soil characteristics (nature, permeability, depth). There are many different Ecoflo compact biofilter models with different characteristics, such as the type of unit, its treatment capacity, and whether or not it uses integrated pumps.

## 3. LOCATION OF THE COMPONENTS AND SPECIFIC INSTRUCTIONS

Figures 2 and 3 represent different types of installations.



# 3.1. MINIMUM DISTANCES TO BE MAINTAINED IN ACCORDANCE WITH THE REGULATION IN FORCE

In the case of an isolated dwelling, a wastewater treatment system must be installed in a place:

- where there is no motorized traffic
- where it is not likely to be submerged
- that is accessible for haulage and maintenance
- that complies with the distances in Table 2

## Table 2: Minimum distances to respect for the Ecoflo compact biofilter

Reference Point	Primary/septic tank	Concrete Ecoflo compact biofilter		
Riser allowance	Refer to manufacturer's specifications	Maximum one 200 mm (8") additional riser		
Residence	1.5 m (5')			
Drain line	Refer to manufacturer's specifications	N/A		
Property limits	1.5 m (5')			
Top of excess backfill, slope, or embankment	Refer to manufacturer's specifications	N/A		
Water well or source	15 m (50')			
Tube well	15 m (50')			
Drinking water line	1.5 m (5')			
Swamp or pond	10 m (33')			
Lake or watercourse	Beyond shoreline limits			
Base of excess backfill, slope, or embankment				
Parking area (B)		10' (2 m)		
Vehicle or object weighing more than 225 kg (500 lb)	Refer to manufacturer's	10 (311)		
Retaining wall (D)				
Tree		N/A		
Finished landscaping vs. base of Ecoflo compact biofilter lid	50 mm (2")			
Croundwater up, hass of Ecofle compact highliter upit	Rolow outlot invort	Gravity: Up to the base		
Groundwater vs. base of Ecolio compact biolitter unit		Pumped: Below inlet invert		



Figure 4: Minimum distances to respect for Ecoflo compact biofilter

## 3.2. INSTALLATION CONDITIONS

## 3.2.1. Primary/septic tank

The primary/septic tank must be installed in compliance with the following instructions:

- Both openings must be extended to the soil surface through watertight and insulated chimneys and equipped with watertight lids.
- The depth of the backfill piled over the unit must not exceed 90 cm (36").
- The installation must be 100% watertight and only receive the residence's domestic wastewater (no foundation, land, or roof drainage).
- The primary/septic tank must be placed where it is not at risk of being flooded or submerged (depending on the situation, it may be necessary to provide for drainage around the primary/septic tank to prevent groundwater from becoming a flooding risk).
- The manufacturer's specifications.

## 3.2.2. Concrete Ecoflo compact biofilter

The **Ecoflo compact biofilter** must be installed according to the following recommendations:

- NEVER cover or bury the lid of the Ecoflo compact biofilter.
- The lid of the Ecoflo compact biofilter must be at least 50 mm (2") above the surface of the landscaped lot.
- Ensure an upslope interceptor drain is installed to direct surface and/or groundwater away from the Ecoflo compact biofilter unit and soil absorption system.
- NEVER connect a drain pipe, roof gutter, sump pump, or air conditioner drain to the septic system.
- Make sure the ground cover grows back quickly to prevent soil erosion.
- Respect at all times the minimum setback distances presented in Table 2.

By respecting these guidelines, you contribute to the proper operation of the wastewater treatment system. Failure to abide by these guidelines may void the warranty at Premier Tech's discretion.

## 3.2.3. Dosing tank and control unit (time-dose biofilter only)

The dosing tank and the control panel must be installed in compliance with the manufacturer's specifications.

## 4. CONCRETE ECOFLO COMPACT BIOFILTER COMPONENTS DESCRIPTION

Main components of the STB-650B/BR and STB-840B/BR models are described in Figure 5.

## Lids

- Access port for maintenance and inspection main and secondary access.
- Air intake from the main lid provides proper airflow through the system.
- Secure both openings with bolted assemblies.

## Insulating boards

- Thermally insulate the system.
- Guide airflow into the shell's air ducts (main access).
- Seal the system (main access).

## Tank and top slab

- Encloses the system's components.
- Allows connection of water and air pipes.
- Distributes air via air ducts.
- Collects treated effluent.

## Central support plate

• Supports the tipping bucket and one end of the distribution plates.

## Support rails

• Support the other end of the distribution plates.

## **Tipping bucket**

- Evenly distributes wastewater on both sides of the filtering medium.
- Creates hydraulic events to ensure proper distribution of water on the distribution plates and promotes self-cleaning.

## **Distribution plates**

• Allow even distribution of influent on the filtering medium.

## **Filtering medium**

- Consists of a natural fibre-based filtering medium.
- Promotes healthy biomass growth, which is essential to biological treatment of the wastewater.
- Physically filters the solids contained in the influent.
- Maintains adequate humidity level required for biomass viability when there is no water going through the system for a certain amount of time.



Figure 5: Exploded view of the concrete Ecoflo compact biofilter

## Treated effluent collection area

- Layer of clean crushed stone Ø 20 mm (3/4").
- Supports the filtering medium.
- Allows proper drainage of treated effluent.
- Allows air to circulate under the filtering medium.

## Access well

- Contains the pumping equipment (models with integrated pump only).
- Allows air circulation between the top and the bottom of the filtering medium.
- Allows access to the bottom of the system to collect samples of treated effluent.

## Aeration and drainage system

- Takes effluent from the gravel bed and directs it toward the discharge pipe.
- Allows air to circulate under the filtering medium.

## Pumping unit (models with integrated pump only)

- Includes a pump, a screen filter with mesh #12 (1.68 mm; 0.066"), a float tree, an ON/OFF float, an alarm float, and an alarm box.
- Pumps treated effluent toward the absorption area, watercourse, or tertiary treatment system.

## 5. INSTALLATION SEQUENCE

IMPORTANT: For these installation steps, the installer is responsible for all applicable security measures, including the use of a hard hat, gloves, boots, safety glasses, face mask, etc.

## 5.1. PRIMARY/SEPTIC TANK

The primary/septic tank must be installed in compliance with the manufacturer's specifications.

## 5.2. DOSING TANK AND CONTROL UNIT (TIME-DOSE BIOFILTER ONLY)

Connect the primary/septic tank and all other equipment to the dosing tank with pipes that meet applicable standards. A minimum 2% downward slope must be provided to the dosing tank. The dosing tank and control panel must always be installed in compliance with the manufacturer's specifications. All electrical connections must be made by a professional electrician.

## 5.3. ECOFLO COMPACT BIOFILTER INSTALLATION SEQUENCE

If the unit is not factory-assembled, follow all of the steps below. If the unit is factory-assembled, skip steps 5.3.1., 5.3.4., 5.3.5., and 5.3.6.

#### 5.3.1. Make sure you have all the following components

	i.	one access well
	ii.	one aeration and drainage system
	iii.	one inlet adapter Ø 100 mm (4")
	iv.	one outlet adapter cast in the concrete shell (not shown)
A one concrete shell including:		<ul> <li>Ø 38 mm (1-1/2") (STB-650BR/840BR)</li> </ul>
		• Ø 100 mm (4") (STB-650B/840B)
	V.	one bag (not shown) containing the owner's documents, four black plastic cable ties, and two plastic cable ties marked Premier Tech
	i.	one main access embedded in concrete and including an insulating board and a lid attached with four lag screws
B one top slab including:	ii.	one secondary access embedded in concrete and including an insulating board and a lid attached with four lag screws
	iii.	two air ducts
one pallet of filtering medium		
one central support plate		
<b>E</b> two PVC support rails		
<b>F</b> four distribution plates		
<b>G</b> one tipping bucket		
🔒 butyl seal		
Additional items for model STB-650BF	? an	d STB-840BR only (see sections 6.7
One crenate outlet coupling Ø	25	mm (1") for flexible nines



U	one crenate outlet coupling \$25 mm (1°) for flexible pipes
J	one coupling Ø 38 mm (1-1/2") to connect
	the effluent discharge pipe to the polishing field
K	one pumping unit with a screen filter and
	float tree installed inside the access well
	one alarm box
M	one junction box
N	seal connectors (for the electrical wires)

For any problems, including broken or missing parts, please contact Premier Tech at +1 800 632-6356.

#### 5.3.2. Excavation, foundation, and installation of the system

Excavate an area approximately  $3.0 \text{ m} \times 4.5 \text{ m} (10' \times 15')$ . Depending on the soil condition, it might be necessary to add a 150 mm (6") layer of gravel Ø 0 - 20 mm (0 - 3/4") that does not contain any organic matter, or a layer of clean crushed stone Ø 0 - 20 mm (0 - 3/4") surrounded by a geotextile. Ensure the excavation floor is compact and level. Lower the unit down onto the excavation floor. Ensuring that the unit is level and in full contact with the excavated surface.

For the concrete Ecoflo compact biofilter with gravity discharge, before going to the next step, connect the effluent discharge pipe using the flexible and watertight coupling. Connect the pipe to the Ecoflo compact biofilter, making sure it is in a downward position all along its length and down to the disposal area. Ensure the soil beneath the pipe is well compacted.

## 5.3.3. Initial backfill of the unit

For the concrete Ecoflo compact biofilter with integrated pump, make sure the maximum seasonal groundwater table level is below the unit's inlet pipe at all times. For the concrete Ecoflo compact biofilter with gravity discharge, the maximum seasonal groundwater table level must be at least 150 mm (6") below the unit's base.

Backfill the unit up to 200 mm (8") beneath the inlet invert. When backfilling, start by the two lateral sides and then backfill the two ends. It is important that the backfill material be deposited, not dumped, which is why we do not recommend using a bulldozer for this step. The backfill material should be sandy, with no rocks or stones larger than Ø 50 mm (2").

**ATTENTION:** Ensure that no backfill material gets into the unit.



## 5.3.4. Adding the plastic and organic media to the shell

Once inside the tank, evenly spread the plastic medium over the floor of the tank. To determine the upper level of the plastic medium, use the upper level of the draining chamber as a guide.

From outside the unit, pour coco filtering medium inside the unit, up to the lowest level of the grooves in the concrete walls (where the support rails are located) and level the surface. Remove any particles from the grooves, then place the support rails in the end grooves and the central support plate in the centre groove. Finish pouring coco up to the top of the support rails and level it with a rake. The final surface of the filtering medium must be at the upper level of the support rails of the distribution plates.

## **ATTENTION!**

- Ensure no backfill enters the tank.
- Be careful to not compact the filtering medium (do not walk on it).
- Carefully level the surface of the filtering medium.
- Ensure none of the filtering medium falls into the access well while filling the unit.

## 5.3.5. Assembling the distribution plates

• Install the distribution plates by placing them on their support rails at both ends.



- The arrow on the distribution plates must be pointing towards the outlet side of the unit.
- Place the first plate on the left side, then place the second plate against the edge of the first one.
- Repeat on the right side of the unit (two plates on each side of the unit).

The distribution plates sit on top of the central support plate and must be attached to it with four plastic cable ties.

# Anchor slots Locking catch

5.3.6. Assembling the tipping bucket and the inlet pipe

Once the distribution plates are in place, install the tipping bucket by inserting its locking catches in the anchor slots of the central support plate. Push down the other end to ensure the tipping bucket stays in place. Then, glue the interior part of the inlet pipe in the unit's water inlet. Ensure that the end of the inlet pipe is lower than the water inlet to create a proper flow of water entering the system. Check the installation of the tipping bucket by tipping it from left to right to make sure nothing is blocking it.

## 5.3.7. Connecting the water inlet pipe

Connect the supply line from the primary/septic tank to the water inlet of the Ecoflo compact biofilter. Ensure that the entire length of the pipe is on a constant downwards slope that slants toward the biofilter unit. Note that the soil under the pipe must be properly compacted. The Ecoflo compact biofilter is equipped with a standard flexible inlet adaptor. Use a regular pipe clamp to make the connection. Remove the protective cap before connecting the inlet pipe. Do not discard the documents wrapped under the cap; they must be given to the owner.

## 5.3.8. Connecting the water supply pipe when a pumping station is required to feed the Ecoflo compact biofilter (time-dose configuration)

When a pumping station is required upstream of an Ecoflo compact biofilter, the following instructions must be considered:

- Premier Tech recommends sending approximately 30 to 40 L (8 to 10 US gal) of wastewater to the Ecoflo compact biofilter every pump dosing cycle (10 tipping bucket events).
- The pumping station must be watertight (infiltration and exfiltration).
- The water supply pipe (flexible Ø 38 mm (1-1/2") pipe) is connected to an inlet adapter that allows the connection to the Ecoflo compact biofilter's Ø 100 mm (4") inlet pipe. Note that the adapter is mandatory to break the stream of water coming from the pumping station.
- An air duct must connect the pumping station to the Ecoflo compact biofilter to ensure air circulation. This air duct is connected to the adapter, which is equipped with a tee-Y.
- Depending on site conditions, a forced air vent may be required.
- The pumping station must be accessible at all times.

## 5.4. OPENING THE ECOFLO COMPACT BIOFILTERPUMP ACCESS

In models with gravity discharge, the main function of the access well is to allow air to flow between the top and the bottom of the system. In models with an integrated pump, the access well is also used as a vault for the pumping unit. The cover of the access well prevents gravel or particles of the filtering medium from falling into the access well during installation. Therefore, once the filtering medium has been put down, remove the cover (taking care not to let the plastic cable ties fall inside the well) and do NOT put it back on.





## 5.5. INSTALLING THE TOP SLAB AND FINAL BACKFILLING OF THE SYSTEM

WARNING! The top slab must be installed before finishing the backfill.

Before laying the butyl seal, carefully clean the rim of the tank. To ensure the seal is watertight, it must be put down in one

continuous section without overlapping where the two ends meet, as shown below. Proper cleaning of the bottom of the top slab is required to ensure the seal is watertight and that no backfill material can get into the filtering medium.



Once the butyl seal is installed, place the top slab on the tank, being careful to align the secondary access with the access well. To properly position the access, make sure the indicator marks on the top slab align with those on the tank.

Finish backfilling. It is important that the backfill material be deposited, not dumped, which is why we do not recommend using a bulldozer for this step. **The backfill material should be sandy, with no rocks or stones larger than Ø 50 mm (2").** Allow space for plant cover and make sure that the lids are 50 mm (2") above the finished landscaping.

The usual excavation depth is 300 mm (12"). If necessary, you may ADD ONLY ONE 200 mm (8") riser on the main access (STR-080) and secondary (STR-080SP) access. The maximal excavation depth is 500 mm (20") over the top slab.

Before the final backfilling of models with an integrated pump, do not forget to connect the pump's power supply (see section 5.6 of this document).



#### 5.6. CHECKING THE PUMP AND THE ELECTRICAL WIRING (INTEGRATED PUMP MODELS ONLY)

## **Step 1: Pump verification**

Make sure there is no debris (sand, stone, gravel, plastic cable tie, electrical components, tape, etc.) in the access well when the electrical wiring is complete. Visually inspect the components inside the access well (pump, screen filter, float tree, floats) to make sure they are properly installed and will work as they should.

## Step 2: Electrical wiring

The electrical wiring should be done by a professional electrician. To wire the system to the residence, two in-ground double strand supply cables are required. It is preferable to protect the wires with the appropriate piping before burying them. The wire rating must also be done by a professional electrician. One of the wires will be used for the power supply line while the other one will send the alarm float signal to the alarm box (Item L) or control panel (when required).

Waterproof electrical connectors (Item N) must be used to go through the secondary access. The wires must pass under the groove in the access. See the secondary access diagram below.

## IF YOUR LOCAL ELECTRIC CODE

ALLOWS IT, make the appropriate electrical connections using the supplied parts (junction box (Item M), waterproof screw-thread wire connectors, and electrical connectors (Item N) located in the components box.) First, remove the connector plugs from the float and pump wires by cutting 5 cm (2") from the end. Make two holes of Ø 2 cm (13/16") in one

side of the secondary access well to pass the connectors through to the other side. Insert the wiring into the system through the two holes. The junction box is located in the secondary access on the insulating board. Identify the wires and insert them into the junction box as shown in the diagram above. Use waterproof screw-thread wire connectors for the connections to ensure water does not affect the electrical circuit. Follow the diagram's colour code. Since the white wire of the On/Off float is connected to the pump's black wire (live wire), Premier Tech strongly recommends wrapping the white wire in black electrical tape. Close the junction box. Pass the electrical wires from the pumping unit through the groove in the insulating board. Place the insulating board inside the access, install the junction box on top, and close the lid of the secondary access.

## NOTE: Use two separate circuit-breakers, one for the electrical power of the pump and the other for the alarm box connection. Do not connect anything else on these circuit-breakers (household appliances, for example). They must be used for the pump and the alarm box only.

The pump provided with those models presents the following characteristics:

- 0.4 hp
- 6.6 A
- 1 phase, 60 Hz, 115 V

Figure 6 represents the performance curve of the integrated pump supplied with applicable Ecoflo compact biofilter models. Note that this curve was obtained with clear water. The pump might not perform as well with wastewater. If you have questions about the interpretation of this curve, please do not hesitate to contact Premier Tech.

The pumping unit uses 0.25 kWh per day. The maximum length of the pressurized pipe (flexible pipe) from the pump's outlet, using a Ø 25 mm (1") pipe, depends on the head

returns to the Ecoflo compact biofilter once the pump has stopped running.







Figure 6: Performance curve of 0.4 hp effluent pump

(difference in elevation between the base of the pump and the end of the pressurized pipe). The maximum length of the pressurized pipe (flexible pipe) from the pump's outlet, using a Ø 38 mm (1-1/2") pipe, is limited by the volume of water that





Table 3 presents the different allowable pipe lengths between the Ecoflo compact biofilter unit and discharge location.

Head height	7.5 m (25')	7.5 m (25')	4.5 m (15')	3 m (10')	1.5 m (5')
Maximum length of the Ø 25 mm (1") pipe	20 US gal	20 US gal	20 US gal	20 US gal	20 US gal
Maximum length of the Ø 38 mm (1-1/2") pipe	20 US gal	20 US gal	20 US gal	20 US gal	20 US gal

Table 3: Allowable pipe lengths after the Ecoflo compact biofilter with integrated pump

If a different pump is required, the warranties related to system malfunctions and pump failures will be void.

## It is the designer's responsibility to make sure that the pumping station configuration and sizing meet local requirements.

## 5.7. SYSTEM OPERATION VERIFICATION AND WARRANTY SEALS

The installed system is certified under CAN/BNQ 3680-600 (2009) and correspond to a B-IV treatment class.

After making sure the tipping bucket is fully operational and that the distribution plates are installed properly, install the insulating board inside the main access. Seal it shut by attaching the handle of the insulating board to the access of the Ecoflo compact biofilter with two plastic cable ties. Finally, close the lid of the Ecoflo compact biofilter.



Note that the owner does not have to do anything in particular to start the system.

Do not forget the inspection permit, where applicable.

## Check points following installation:

- NEVER open the lids or go inside the septic tank or biofilter unit once the installation is complete.
- NEVER cover or bury the lids of the septic system with mulch, soil, or a permanent structure. Always keep the lids accessible.
- Never install the Ecoflo compact biofilter's infiltration area within 2 m (6.5') of a tree.
- It is possible to add an extension to the concrete Ecoflo compact biofilter's accesses. The soil layer above the top slab must be 500 mm (20") thick maximum. Use the PTA STR-080/STR-080SP extension kit. Use ONLY ONE extension per access.
- For the concrete Ecoflo compact biofilter with integrated pump, make sure the maximum seasonal groundwater table level is below the unit's inlet pipe at all times (unless a drain has been installed).
- For the concrete Ecoflo compact biofilter with gravity discharge, make sure the maximum seasonal groundwater table level is at least 150 mm (6") from the unit's base at all times.
- NEVER connect a drain pipe, roof gutter, sump pump, or air conditioning drain to the septic system.
- NEVER empty the backwash of a spa or pool into the septic system.
- NEVER empty wastewater of a recreational vehicle (camping trailer, caravan, etc.) into the septic system.
- If there is a delay in finishing the landscape after the initial installation of the system, place reference posts and protective fences to identify the location of the Ecoflo compact biofilter. This will prevent any circulation on the unit and help indicate the system's final level.
- NEVER use automatic toilet cleaners.
- NEVER let anything accumulate on top of the septic system (for example, compacted snow). The overload could damage the system.
- Never operate a vehicle or place objects weighing over 225 kg (500 lb) within 3 m (9' 10'') of the lid. Pass on this information to all those who have access to the system (landscaper, snow blower, etc.).
- Households must be equipped with an air vent that is in proper working condition and complies with the applicable standards. Premier Tech strongly recommends using a Ø 100 mm (4") pipe.
- Hand over the package containing the owner's manual and the maintenance agreement to the customer.
- Remind the customer to fill out and sign the maintenance agreement. The customer must keep the white copy, give the yellow copy to the municipality, and send the pink copy to Premier Tech.

By respecting these guidelines, you are contributing to the proper operation of the wastewater treatment system. Failure to abide by these guidelines may, at Premier Tech's discretion, render the warranty invalid.

## If you have any questions or comments, please contact Premier Tech at +1 800 632-6356.

## NOTE





## PT Water and Environment

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