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# ANNEX TO THE CERTIFICATE

**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 1 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2  
(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

Certificate number: **1338**  
Issue date: **2023-05-16**  
Expiry date: **2024-10-31**

## ONSITE WASTEWATER TREATMENT SYSTEMS

### Model DpEC

Treatment chain	Primary reactor with polyethylene electrocoagulation unit.
Capacity	1 DpEC unit can treat up to 2 160 l/d.
Nomenclature of models	DpEC-090P = polyethylene tank. DpEC-090B = concrete tank.
Certificate Details Treatment classes Influent wastewater Temperature	B-I and P-I The tests specified in sections 8.3 and 8.4 were carried out with influent wastewater at a controlled temperature of 10 °C ±1 °C.
Other	This treatment chain includes a septic tank or a primary reactor.

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**ONSITE WASTEWATER TREATMENT SYSTEMS**

**DpEC + Ecoflo® Biofilter Model**

Treatment chain Primary reactor with polyethylene electrocoagulation unit and Ecoflo® biofilter

Capacity 1 DpEC unit can treat up to 2 160 l/d.

Designation of Ecoflo models	Maximum hydraulic capacity (l/d)	Number of DpEC
500	1,105	1
570	1,260	1
650	1,440	1
730	1,620	1
840	1,865	1

Nomenclature of Ecoflo models No mention = fiberglass unit.  
B = Concrete unit with gravity discharge.  
P = polyethylene unit.  
R = Integrated pump

Nomenclature of Electrocoagulation unit models DpEC-090P = polyethylene tank.  
DpEC-090B = concrete tank

Configuration: ST = Open bottom (discharge by infiltration).  
STB = Watertight bottom (Gravity or pumped discharge).

Certificate Details  
Treatment classes B-IV, P-II and D-I  
Influent wastewater temperature The tests specified in sections 8.3 and 8.4 were carried out with influent wastewater at a controlled temperature of 17 °C ± 1 °C.

Other This treatment chain includes a septic tank or a primary reactor.



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**ONSITE WASTEWATER TREATMENT SYSTEMS**

**DpEC + Sand Filter (FAS) Model**

Treatment chain Primary reactor with polyethylene electrocoagulation unit followed by sand filter.

Capacity

Maximum hydraulic capacity (l/d)	Number of DpEC	Dimensions of sand filter (m)
1,440	1	6.4 x 3.0
2,160	1	6.4 x 4.5

1 DpEC unit can treat up to 2 160 l/d.

Certificate Details

Treatment classes

B-IV, P-II and D-II.

Influent wastewater Temperature

The tests specified in sections 8.3 and 8.4 were carried out with influent wastewater at a controlled temperature of 10 °C ± 1 °C.

Other

The FAS is supplied by dosing. The specifications of the filter sand must meet the requirements described in the installation guides. This treatment chain includes a septic tank or a primary reactor

**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 4 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2  
(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

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**ONSITE WASTEWATER TREATMENT SYSTEMS**

**Ecoflo® Biofilter Model**

Treatment chain Primary reactor with Ecoflo® biofilter

Capacity

Ecoflo® Biofilter Models	Designation of Ecoflo® Biofilter Models	Maximum hydraulic capacity Demand dosed (l/d) HLR = 308 l/m <sup>2</sup> -d	Maximum hydraulic capacity Timedosed (l/d) HLR = 385 l/m <sup>2</sup> -d	Type of shell	Discharge mode
5.0	500	1,540	1,925	Concrete	Gravity and pumped
5.2	500	1,600	2,000	Fiberglass	Infiltration
5.7	570	1,755	2,200	Polyethylene	Infiltration, Gravity and pumped
6.5	650	2,000	2,500	Concrete, Fiberglass and Polyethylene	Infiltration, Gravity and pumped
7.3	730	2,250	2,810	Polyethylene	Infiltration, Gravity and pumped
7.5	750	2,310	2,890	Fiberglass	Infiltration
8.4	840	2 600	3 250	Concrete	Gravity and pumped
2 units 5.0		3,080	3,850	Concrete	Gravity and pumped
2 units 5.2		3,200	4,000	Fiberglass	Infiltration
2 units 5.7		3,510	4,400	Polyethylene	Infiltration, Gravity and pumped
2 units 6.5		4,000	5,000	Concrete, Fiberglass and Polyethylene	Infiltration, Gravity and pumped
2 units 7.3		4,500	5,620	Polyethylene	Infiltration, Gravity and pumped
2 units 7.5		4,620	5,780	Fiberglass	Infiltration
2 units 8.4		5 200	6 500	Concrete	Gravity and pumped
3 units 5.0		4,620	5,775	Concrete	Gravity and pumped
3 units 5.2		4,800	6,000	Fiberglass	Infiltration
3 units 5.7		5,265	6,600	Polyethylene	Infiltration, Gravity and pumped
3 units 6.5		6,000	7,500	Concrete, Fiberglass and Polyethylene	Infiltration, Gravity and pumped
3 units 7.3		6,750	8,430	Polyethylene	Infiltration, Gravity and pumped
3 units 7.5		6,930	8,670	Fiberglass	Infiltration
3 units 8.4		7 800	9 750	Concrete	Gravity and pumped
4 units 5.0		6,160	7,700	Concrete	Gravity and pumped
4 units 5.2		6,400	8,000	Fiberglass	Infiltration

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**ONSITE WASTEWATER TREATMENT SYSTEMS**

4 units 5.7		7,020	8,800	Polyethylene	Infiltration, Gravity and pumped
4 units 6.5		8,000	10,000	Concrete, Fiberglass and Polyethylene	Infiltration, Gravity and pumped
4 units 7.3		9 000	11 240	Polyethylene	Infiltration, Gravity and pumped
4 units 7.5		9 240	11 560	Fiberglass	Infiltration
4 units 8.4		10 400	13 000	Concrete	Gravity and pumped

Nomenclature of Ecoflo Biofilter Models

No mention = fiberglass unit.  
B = Concrete unit with gravity discharge.  
P = polyethylene unit.  
R = Integrated pump.

Configuration:

ST = Open bottom (discharge by infiltration).  
STB = Watertight bottom (Gravity or pumped discharge).

Certificate Details  
Treatment classes

Class B-IV.

Influent wastewater temperature

The tests specified in sections 8.3 and 8.4 were carried out with influent wastewater at a controlled temperature of  $10\text{ °C} \pm 1\text{ °C}$ .

Other

A dosing tank is required for time dosed configuration. This treatment chain includes a septic tank or a primary reactor. Multiple units operated in parallel must be fed by an appropriate device to ensure uniform distribution of domestic wastewater to all units while maintaining the performance of each unit.

**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 6 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2  
(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

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**ONSITE WASTEWATER TREATMENT SYSTEMS**

**Ecoflo® Linear biofilter EL 30 model**

Treatment chain Primary treatment with Ecoflo® Linear biofilter EL30

Capacity

Designation of Ecoflo® Linear Biofilter Models EL30	Maximum hydraulic capacity * (l/d)	Minimum Numbers of modules	PTWE dosing device (l)
EL30-008-XX	758	8	45
EL30-009-XX	852	9	45
EL30-010-XX	947	10	45
EL30-011-XX	1042	11	45
EL30-012-XX	1136	12	45
EL30-013-XX	1231	13	45
EL30-014-XX	1325	14	68
EL30-015-XX	1420	15	68
EL30-016-XX	1515	16	68
EL30-017-XX	1609	17	68
EL30-018-XX	1704	18	68
EL30-019-XX	1799	19	68
EL30-020-XX	1893	20	68
EL30-021-XX	1988	21	68
EL30-022-XX	2083	22	68
EL30-023-XX	2177	23	68
EL30-024-XX	2272	24	68
EL30-025-XX	2366	25	68
EL30-026-XX	2461	26	68
EL30-027-XX	2556	27	68
EL30-028-XX	2650	28	68
EL30-029-XX	2745	29	68
EL30-030-XX	2840	30	68
EL30-031-XX	2934	31	68
EL30-032-XX	3029	32	68
EL30-033-XX	3124	33	68
EL30-034-XX	3218	34	68
EL30-035-XX	3313	35	68

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# ANNEX TO THE CERTIFICATE

**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 7 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2  
(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

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Issue date: **2023-05-16**  
Expiry date: **2024-10-31**

**ONSITE WASTEWATER TREATMENT SYSTEMS**

EL30-036-XX	3408	36	68
EL30-037-XX	3502	37	68
EL30-038-XX	3597	38	68
EL30-039-XX	3691	39	136
EL30-040-XX	3786	40	136
EL30-041-XX	3881	41	136
EL30-042-XX	3975	42	136
EL30-043-XX	4070	43	136
EL30-044-XX	4165	44	136
EL30-045-XX	4259	45	136
EL30-046-XX	4354	46	136
EL30-047-XX	4449	47	136
EL30-048-XX	4543	48	136
EL30-049-XX	4638	49	136
EL30-050-XX	4732	50	136
EL30-051-XX	4827	51	136
EL30-052-XX	4922	52	136
EL30-053-XX	5016	53	136
EL30-054-XX	5111	54	136
EL30-055-XX	5206	55	136
EL30-056-XX	5300	56	136
EL30-057-XX	5395	57	136
EL30-058-XX	5490	58	136
EL30-059-XX	5584	59	136
EL30-060-XX	5679	60	136
EL30-062-XX	5868	62	136
EL30-064-XX	6057	64	136
EL30-065-XX	6152	65	136
EL30-066-XX	6247	66	136
EL30-068-XX	6436	68	136
EL30-069-XX	6531	69	136
EL30-070-XX	6625	70	136
EL30-072-XX	6815	72	136
EL30-074-XX	7004	74	136
EL30-075-XX	7098	75	136
EL30-076-XX	7193	76	136
EL30-078-XX	7382	78	204
EL30-080-XX	7572	80	204
EL30-082-XX	7761	82	204
EL30-084-XX	7950	84	204

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EL30-085-XX	8045	85	204
EL30-086-XX	8140	86	204
EL30-088-XX	8329	88	204
EL30-090-XX	8518	90	204
EL30-092-XX	8707	92	204
EL30-094-XX	8897	94	204
EL30-095-XX	8991	95	204
EL30-096-XX	9086	96	204
EL30-098-XX	9275	98	204
EL30-099-XX	9370	99	204
EL30-100-XX	9464	100	204
EL30-102-XX	9654	102	204
EL30-104-XX	9843	104	204
EL30-105-XX	9938	105	204
EL30-106-XX	10032	106	204

\* Maximum hydraulic capacity per filtration pad meter = 80 L/m-d

Nomenclature of Ecoflo® Linear biofilter EL 30 models XX: CD (Combined treatment and dispersal) or SD (Single Point Discharge)

Certification details	
Treatment class:	Classe B-IV.
Influent wastewater temperature	The tests specified in sections 8.3 and 8.4 were carried out with influent wastewater at a controlled temperature of 11 °C ± 1 °C.
Sand surface under filtration pads	Minimum Surface = Flow / 92.6 (L/m <sup>2</sup> -d) Minimum height = 300 mm Minimum width = 864 mm
Effective filtration pad length	1,183 m
Dosing device	Treatment chain dosing can be achieved by the mean of PTWE dosing device, pump to a distribution box or low-pressure distribution
Other	The Ecoflo linear biofilter EL30 must be preceded by a septic tank with a minimum retention time of two days as primary treatment.



**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 9 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2**  
**(2017-07-18)**

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## DESIGNATION OF MODELS

### Designation of models, classes B-I and P-I:

DpEC-090P, DpEC-090B

### Designation of models, classes B-IV, P-II and D-I:

DpEC-090P-ST-500, DpEC-090P-STB-500, DpEC-090P-STB-500B, DpEC-090P-STB-500BA, DpEC-090P-STB-500BR

DpEC-090P-ST-570P, DpEC-090P-STB-570P, DpEC-090P-STB-570PR

DpEC-090P-ST-650, DpEC-090P-ST-650P, DpEC-090P-STB-650, DpEC-090P-STB-650B, DpEC-090P-STB-650BR, DpEC-090P-STB-650P, DpEC-090P-STB-650PR

DpEC-090P-STB-840B, DpEC-090P-STB-840BR

DpEC-090B-ST-500, DpEC-090B-STB-500, DpEC-090B-STB-500B, DpEC-090B-STB-500BA, DpEC-090B-STB-500BR

DpEC-090B-ST-570P, DpEC-090B-STB-570P, DpEC-090B-STB-570PR

DpEC-090B-ST-650, DpEC-090B-ST-650P, DpEC-090B-STB-650, DpEC-090B-STB-650B, DpEC-090B-STB-650BR, DpEC-090B-STB-650P, DpEC-090B-STB-650PR

DpEC-090B-STB-840B, DpEC-090B-STB-840BR

### Designation of models, classes B-IV, P-II and D-II:

DpEC-090P-FAS,

DpEC-090B-FAS

### Designation of models, class B-IV:

STB-500B, STB-500BR, ST-500, ST-650, STB-650B, STB-650BR, ST-650P, STB-650P, STB-650PR, ST-570P, STB-570P, STB-570PR, ST-730P, STB-730P, STB-730PR, ST-750, STB-840B, STB-840BR, EL30-008-CD, EL30-009-CD, EL30-010-CD, EL30-011-CD, EL30-012-CD, EL30-013-CD, EL30-014-CD, EL30-015-CD, EL30-016-CD, EL30-017-CD, EL30-018-CD, EL30-019-CD, EL30-020-CD, EL30-023-CD, EL30-024-CD, EL30-025-CD, EL30-026-CD, EL30-027-CD, EL30-028-CD, EL30-029-CD, EL30-030-CD, EL30-031-CD, EL30-032-CD, EL30-033-CD, EL30-034-CD, EL30-035-CD, EL30-036-CD, EL30-037-CD, EL30-038-CD, EL30-039-CD, EL30-040-CD, EL30-041-CD, EL30-042-CD, EL30-043-CD, EL30-044-CD, EL30-045-CD,

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Standards System (NSS).

# ANNEX TO THE CERTIFICATE

**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 10 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2  
(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

Certificate number: **1338**  
Issue date: **2023-05-16**  
Expiry date: **2024-10-31**

EL30-046-CD, EL30-047-CD, EL30-048-CD, EL30-049-CD, EL30-050-CD, EL30-051-CD, EL30-052-CD,  
EL30-053-CD, EL30-054-CD, EL30-055-CD, EL30-056-CD, EL30-057-CD, EL30-058-CD, EL30-059-CD,  
EL30-060-CD, EL30-062-CD, EL30-064-CD, EL30-065-CD, EL30-066-CD, EL30-068-CD, EL30-069-CD  
EL30-070-CD, EL30-072-CD, EL30-074-CD, EL30-075-CD, EL30-076-CD, EL30-078-CD, EL30-080-CD  
EL30-082-CD, EL30-084-CD, EL30-085-CD, EL30-086-CD, EL30-088-CD, EL30-090-CD, EL30-092-CD  
EL30-094-CD, EL30-095-CD, EL30-096-CD, EL30-098-CD, EL30-099-CD, EL30-100-CD, EL30-102-CD  
EL30-104-CD, EL30-105-CD, EL30-106-CD

EL30-008-SD, EL30-009-SD, EL30-010-SD, EL30-011-SD, EL30-012-SD, EL30-013-SD, EL30-014-SD,  
EL30-015-SD, EL30-016-SD, EL30-017-SD, EL30-018-SD, EL30-019-SD, EL30-020-SD, EL30-023-SD,  
EL30-024-SD, EL30-025-SD, EL30-026-SD, EL30-027-SD, EL30-028-SD, EL30-029-SD, EL30-030-SD,  
EL30-031-SD, EL30-032-SD, EL30-033-SD, EL30-034-SD, EL30-035-SD, EL30-036-SD, EL30-037-SD,  
EL30-038-SD, EL30-039-SD, EL30-040-SD, EL30-041-SD, EL30-042-SD, EL30-043-SD, EL30-044-SD,  
EL30-045-SD, EL30-046-SD, EL30-047-SD, EL30-048-SD, EL30-049-SD, EL30-050-SD, EL30-051-SD,  
EL30-052-SD, EL30-053-SD, EL30-054-SD, EL30-055-SD, EL30-056-SD, EL30-057-SD, EL30-058-SD,  
EL30-059-SD, EL30-060-SD, EL30-062-SD, EL30-064-SD, EL30-065-SD, EL30-066-SD, EL30-068-SD,  
EL30-069-SD, EL30-070-SD, EL30-072-SD, EL30-074-SD, EL30-075-SD, EL30-076-SD, EL30-078-SD,  
EL30-080-SD, EL30-082-SD, EL30-084-SD, EL30-085-SD, EL30-086-SD, EL30-088-SD, EL30-090-SD,  
EL30-092-SD, EL30-094-SD, EL30-095-SD, EL30-096-SD, EL30-098-SD, EL30-099-SD, EL30-100-SD,  
EL30-102-SD, EL30-104-SD, EL30-105-SD, EL30-106-SD

**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 11 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2  
(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

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**ONSITE WASTEWATER TREATMENT SYSTEMS**

**List of recognized manufacturers for system components**

**Ecoflo® Biofilter Fiberglass Precasters:**

LES FIBRES DE VERRE RIOUX INC.  
10, rang 4 Ouest  
Sainte-Françoise (Québec) G0L 3B0

**Ecoflo® Biofilter Concrete Precasters:**

BOYD BROS CONCRETE 5450 Cuddy Street Osgoode, Ontario K0A 2W	CIMENT LACASSE LTÉE 48, montée Laramée Sainte-Anne-des-Plaines, Québec J0N 1H0	INDUSTRIES DE CIMENT LA GUADELOUPE INC. 238, 14 <sup>e</sup> Avenue La Guadeloupe, Québec G0M 1G0
BÉTON ULTRAMIX INC. 8, rue d'Amours Eastman, Québec J0E 1P0	G. L'ÉCUYER TRANSPORT INC. 317, St-François-Xavier Delson, Québec J0L 1G0	MATÉRIAUX ÉCONOMIQUES INC. 2900, rue Jules Vachon Trois-Rivières, Québec G9A 5E1
		W D MOODY CONCRETE LTD. 2583 N Shore Drive Lowbanks, Ontario N0A 1K0

**Media Manufacturer :**

PREMIER TECH HORTICULTURE 1, avenue Premier Rivière-du-Loup (Québec) G5R 6C1	PREMIER TECH LANKA/TRIPICOIR 90 A Pagoda Road Pitakotte, SRI Lanka, ASIE DU SUD
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

**Manufacturer of central support, sampling device and polyethylene units for Ecoflo® Biofilter:**

PREMIER TECH TECHNOLOGIES LTÉE  
595, rue Frenette  
Joliette (Québec) J6E 9E2

**Manufacturer of distributing plates and tumblers for Ecoflo® Biofilter:**

PLASTIQUES GPR  
5200, chemin St-Gabriel  
Saint-Félix-de-Valois (Québec) J0K 2M0

**Sand Filter Manufacturer :**

PREMIER TECH TECHNOLOGIES LTÉE  
595, rue Frenette  
Joliette (Québec) J6E 9E2

**Manufacturer of Chambers, Top Covers, End Caps and Sampler Pan for the Ecoflo® Linear Biofilter:**

QUALIPLAST PLASTICS INC. (LES PLASTIQUES QUALIPLAST)  
490 Rue Hébert, Salaberry-de-Valleyfield, QC J6S 2B4, Canada

**Manufacturer of PTWE gravity dosing device for the Ecoflo® Linear Biofilter:**

MANUNOR INC  
101 Rue des PME, Sherbrooke, QC J1C 0R2, Canada

**Adapter and cover manufacturer of sampling pan for the Ecoflo® Linear Biofilter:**

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# ANNEX TO THE CERTIFICATE

**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 12 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2  
(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

Certificate number: **1338**  
Issue date: **2023-05-16**  
Expiry date: **2024-10-31**

Plastiques G P R Inc  
5200 Chemin de St Gabriel, Saint-Félix-de-Valois, QC J0K 2M0, Canada

**Manufacturer of other different parts for the Ecoflo® Linear Biofilter:**

PREMIER TECH AQUA USINE DE ROTOMOULAGE (PREMIER TECH EAU ET ENVIRONNEMENT)  
595 Rue Frénette, Joliette, QC J6E 9B2, Canada

**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 13 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2**  
**(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

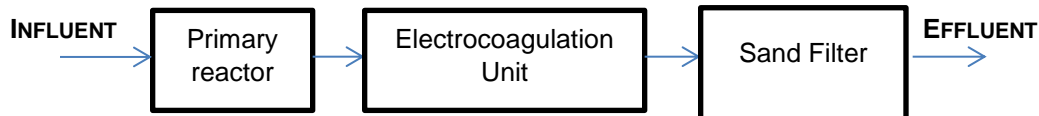
Certificate number: **1338**

Issue date: **2023-05-16**

Expiry date: **2024-10-31**

### FLOW DIAGRAM OF TREATMENT CHAINS

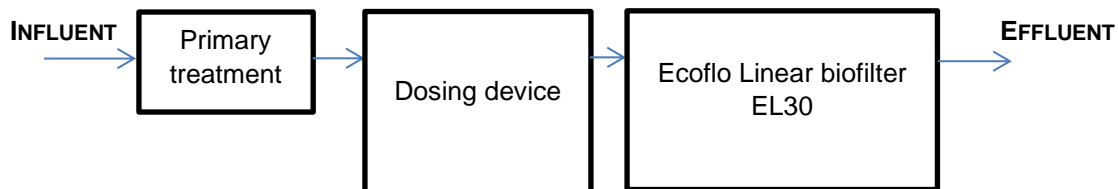
#### DpEC + Sand filter Model



#### Ecoflo Biofilter



#### Ecoflo Linear biofilter EL30



**PREMIER TECH WATER AND ENVIRONMENT LTD**

Page 14 of 14

1, avenue Premier  
Rivière-du-Loup, Québec G5R 6C1

**CAN/BNQ 3680-600/2009-05-01 M2  
(2017-07-18)**

*Onsite Residential Wastewater Treatment Technologies*

Certificate number: **1338**  
Issue date: **2023-05-16**  
Expiry date: **2024-10-31**

HISTORY	
Date	Modification description
2012-10-11	<ul style="list-style-type: none"> <li>- DpEC system certification (classes B-I et P-I).</li> <li>- DpEC + Ecoflo® Biofilter system certification (classes B-IV, P-II et D-I).</li> <li>- DpEC + Ecoflo® Biofilter + UV reator system certification (classes B-IV, P-II et D-III).</li> </ul>
2014-07-16	<ul style="list-style-type: none"> <li>- DpEC à 10 °C ± 1 °C system certification (classes B-I et P-I).</li> <li>- DpEC + FAS à 10 °C ± 1 °C system certification (classes B-IV, P-II et D-II).</li> </ul>
2015-03-19	<ul style="list-style-type: none"> <li>- Modification of DpEC + FAS capacity: 2,160 l / d or 6 bedrooms or less.</li> </ul>
2016-10-27	<ul style="list-style-type: none"> <li>- Addition of UV lamp model E4, manufactured by VIQUA, a subsidiary of TROJAN TECHNOLOGIES and updated the annex to the certificate.</li> <li>- Certificate renewal.</li> </ul>
2017-03-01	<ul style="list-style-type: none"> <li>- Update of the certificate annex.</li> <li>- Removal of the IWG-1-LV-WW3 lamp from VIOLETTA INDUSTRIES.</li> <li>- Addition of the UV lamp, model E4, manufactured by VIQUA, a subsidiary of TROJAN TECHNOLOGIES.</li> <li>- Ecoflo Biofilter system certification (class B-IV).</li> </ul>
2017-07-24	<ul style="list-style-type: none"> <li>- Update of the certificate annex.</li> <li>- Addition of multiple units for the Ecoflo biofilter model.</li> </ul>
2018-10-30	<ul style="list-style-type: none"> <li>- Renewal of the certificate.</li> </ul>
2019-07-18	<ul style="list-style-type: none"> <li>- Update of the certificate according to the M2 changes to the standard and M1 changes to the protocol.</li> </ul>
2020-10-15	<ul style="list-style-type: none"> <li>- Addition of Ecoflo biofilter model.8.4 concrete and withdrawn of Ecoflo biofilter model.8.4 polyethylene.</li> </ul>
2020-10-28	<ul style="list-style-type: none"> <li>- Company name change.</li> <li>- Update of the certificate annex.</li> <li>- Extension of the certificate expiration date to 2021-04-30.</li> </ul>
2021-04-28	<ul style="list-style-type: none"> <li>- Renewal of the certificate and addition of DpEC concrete units.</li> </ul>
2021-09-01	<ul style="list-style-type: none"> <li>- Addition of J.A. Porter Holdings Ltd assembler.</li> </ul>
2022-04-13	<ul style="list-style-type: none"> <li>- Modification of the business name.</li> <li>- Removal of Biosclair et Fils inc and Newmarket pre-cast concrete assemblers.</li> </ul>
2022-06-01	<ul style="list-style-type: none"> <li>- Removal of Porter's and J.A. Porter Holdings Ltd assemblers.</li> </ul>
2022-10-25	<ul style="list-style-type: none"> <li>- Renewal of certificate.</li> </ul>
2022-11-07	<ul style="list-style-type: none"> <li>- Removal of DpEC + Ecoflo® Biofilter + UV reator system certification (classes B-IV, P-II et D-III).</li> </ul>
2023-05-16	<ul style="list-style-type: none"> <li>- Linear Ecoflo biofilter EL30® certification (class B-IV)</li> </ul>

**THE ANNEX IS AN INTEGRAL PART OF THE CERTIFICATE.**