



EN 12566-3

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**Declaration of performance**  
N° 001

**1- Unique identification code of the product-type:**

Small domestic wastewater treatment plant comprising a primary treatment (septic tank) and a filter based on « coconut husks fragments » fabricated in high density polyethylene (HDPE) tanks.

**2- Type, batch or serial number or any other element allowing identification of construction products**

Wastewater treatment system type *ECOFLO® Polyethylene PE1 based on « coconut husk fragments »*.

**Identification** : see marking on product

**3- Intended use or uses of construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:**

Packaged and/or site assembled small sewage treatment plant for treatment of raw domestic wastewater for an equivalent population up to 50 inhabitants.

**4- Name, registered trade name or registered trade mark and contact address of the manufacturer:**

PREMIER TECH AQUA  
1, ave Premier  
Rivière-du-Loup (Québec)  
CANADA G5R 6C1  
et  
ZA de Doslet  
35430 Châteauneuf-d'Ille-et-Vilaine

**5- Where applicable, name and contact address of the authorised representative:**

Non applicable.

**6- System or systems of assessment of constancy of performance of construction product:**

System 3

**7- In the case of the declaration of performance concerning a construction product covered by an harmonised standard:**

The CSTB, notified body n° 0679

- performed on product type (septic tank and filter) treatment efficiency evaluation tests under system 3
- performed on 2.6 and 3.7 m<sup>3</sup> ECOFLO® PE1 septic tank models watertightness evaluation test (water test) under system 3

- performed on ECOFLO® Polyethylene PE1 filter of 5PE loading bearing capacity test (pit test) and watertightness evaluation test (water test) under system 3

and issued the corresponding testing reports.

The CERIB, notify body n° 1164

- performed on 3m³ ECOFLO® PE1 septic tank model loading bearing capacity test (pit test) and watertightness evaluation test (water test) under system 3

and issued the corresponding testing reports.

The PIA, notify body n° 1739

- performed on ECOFLO® Polyethylene PE1 filter 7PE model loading bearing capacity test (pit test) and watertightness evaluation test (water test) under system 3

and issued the corresponding testing reports.

and CERTIPRO, notify body n° 1476

- performed on APC Millenium septic tank models loading bearing capacity test (pit test) and watertightness evaluation test (water test) under system 3

and issued the corresponding testing reports.

#### 8- Declared performances :

Essential characteristics	Performance			Harmonized technical specification
Treatment efficiency	Performances obtained on ECOFLO® filter (5PE) based on coconut husk fragments at organic loading rate of 0,24 kg/d			EN 12566-3 : 2005+A1 :2009+A2 :2013
	COD:	92.2%		
BOD <sub>5</sub> :	98.2%			
TSS:	98.5%			
Ammonia (NH <sub>4</sub> <sup>+</sup> ):	91.1%			
Total phosphorus:	NPD			
Treatment capacity	ECOFLO® Polyethylene PE1 models	Daily organic loading (kg BOD <sub>5</sub> /d)	Daily flow rate (m³/d)	
	5PE	0,30	0,75	
	7PE	0,42	1,05	
	10PE (2x5)	0,60	1,50	
	14PE (2x7)	0,84	2,10	
	15PE (3x5)	0,90	2,25	
	20PE (4x5)	1,20	3,00	
	21PE (3x7)	1,44	3,60	
	25PE (5x5)	1,50	3,75	
	28PE (4x7)	1,68	4,20	
	30PE (6x5)	1,80	4,50	
	35PE (5x7)	2,10	5,25	
	36PE (6x6)	2,16	5,40	
	40PE (8x5)	2,40	6,00	
	42PE (6x7)	2,52	6,30	
45PE (9x5)	2,70	6,75		
48PE (8x6)	2,88	7,20		
49PE (7x7)	2,94	7,35		
50PE (10x5)	3,00	7,50		
Watertightness	PASS (water test)			

<b>Loading bearing capacity</b>	ECOFLO® Polyethylene PE1 models	Maximum backfill height over the tanks (septic tank and filter)	Maximum ground water level from base of tank
	All models from 4 to 50PE	0,30 m	WET : 0,60 m
	Loading bearing capacity determined on a 3m³ ECOFLO® PE1 septic tank model, on a 7PE ECOFLO® Polyethylene PE1 filter model and on 5m³ APC Millenium septic tank at the conditions described above.		
<b>Durability</b>	PASS		
<b>Reaction to fire</b>	NPD		
<b>Dangerous substances</b>	NPD		

9- The performance of product identified in points 1 and 2 is in conformity with performance declared in point 8:

This declaration of performance is issued under the sole responsibility of manufacturer identified in point 4.

Signed for and on behalf of manufacturer by:



Research and Development Vice-President  
RIVIÈRE-DU-LOUP, May 19th, 2016