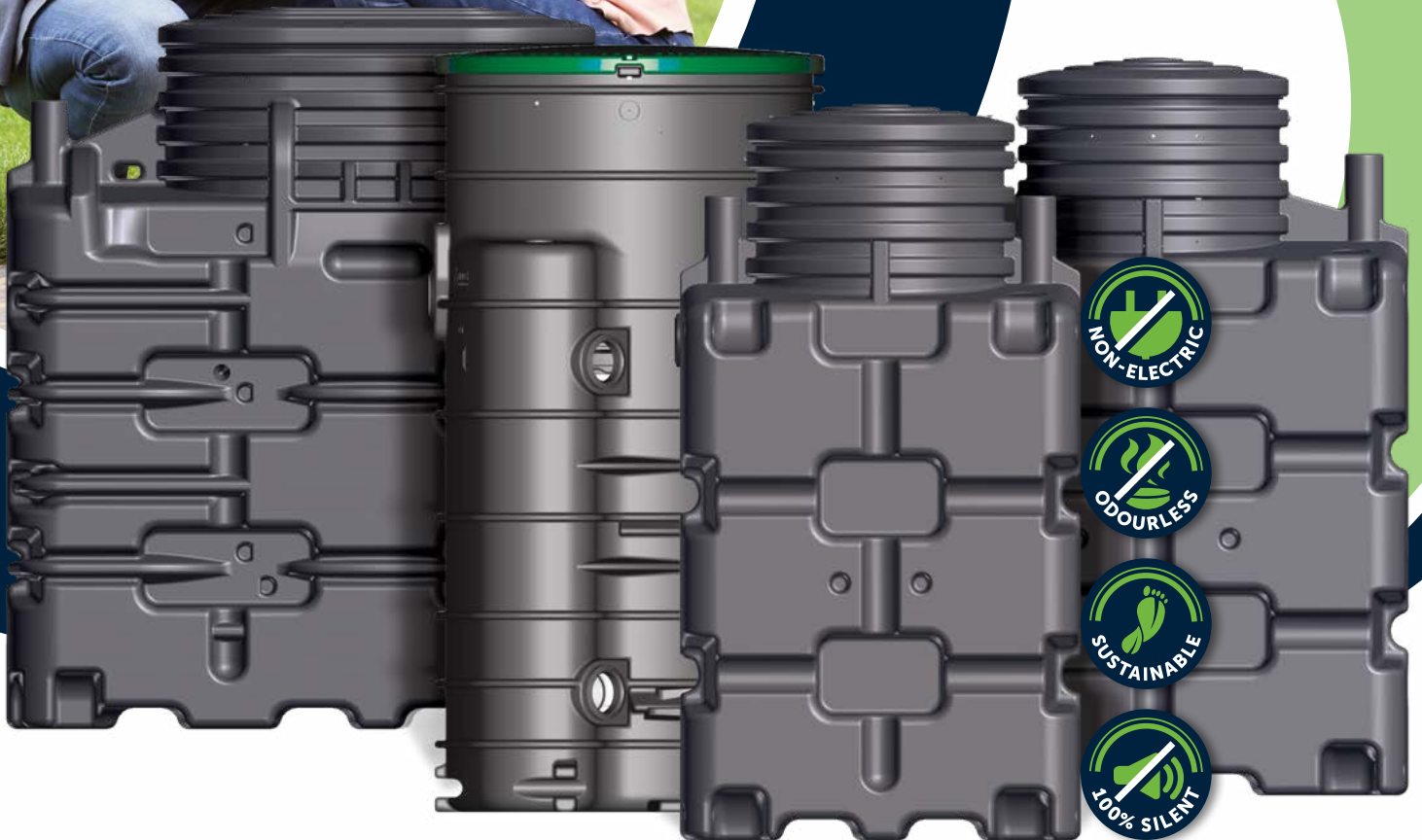


# ECOROCK

## NON-ELECTRIC WASTEWATER TREATMENT

The Innovative System



# BIOROCK

engineered for tomorrow



## THE FUTURE OF WASTEWATER TREATMENT

BIOROCK is home to an internationally-acclaimed team of wastewater specialists who share the goal of providing innovative, sustainable, and eco-friendly water treatment systems.

Our level of expertise and attention-to-detail guarantees only the best, most reliable products, providing the market with the ultimate non-electrical wastewater treatment technologies.

## ADVANTAGES AND BENEFITS OF THE ECOROCK SOLUTION

ECOROCK 

Electrical Plants 

Organic Media Plants 

## THE ECOROCK SOLUTION

Our **ECOROCK system** is the perfect solution for your home wastewater treatment. It is totally silent, odourless and is barely visible

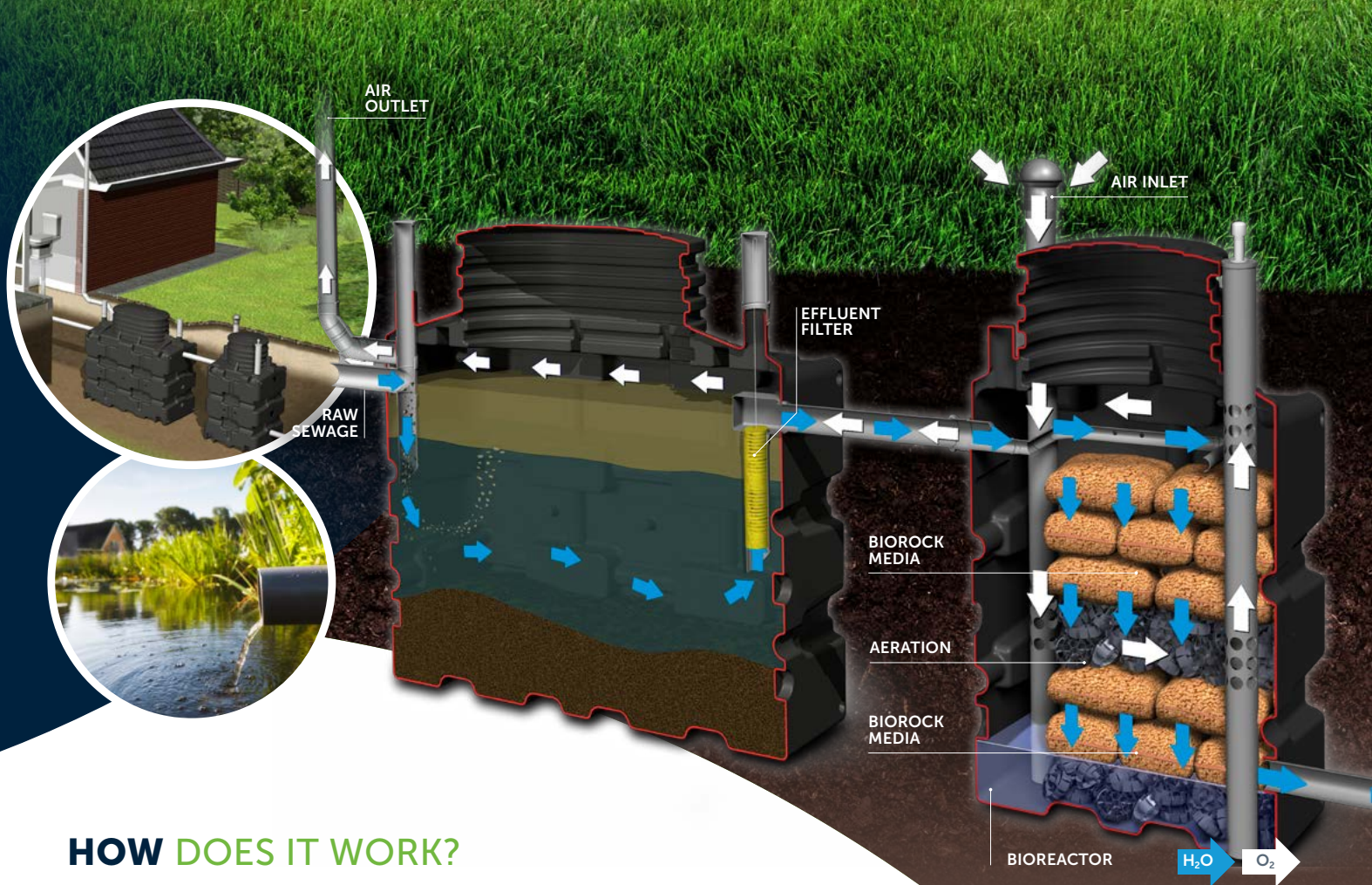
With a capacity for 4 to 15 persons, this innovative sewage system is particularly ideal for your home wastewater treatment.

ECOROCK combines everything you need to successfully and cost-effectively treat your wastewater, while keeping your house sewage system hygienic and eco-friendly.

Do you already have a functioning primary tank and just want to **retrofit your treatment unit**? No problem! Our ECOROCK solution fits most of the primary tanks on the market.

	ECOROCK	Electrical Plants	Organic Media Plants
Media Lifespan Is Up To 10 Years	✓	✗	✗
Low Operational Costs	✓	✗	✗
Minimal Annual Maintenance	✓	✗	✗
Effortless Installation	✓	✗	✗
Non Electric	✓	✓	✗
Long Septic Tank Pump-Out Intervals	✓	✓	✗
Odourless	✓	✓	✗
Silent	✓	✓	✗
Long Absence Periods	✓	✓	✗





## HOW DOES IT WORK?

### Step 1: Primary Tank

The PRIMARY TANK clarifies the sewage water by fats, oils, greases and organic solids. The sewage then passes through an effluent filter, before discharging into the BIOROCK reactor.

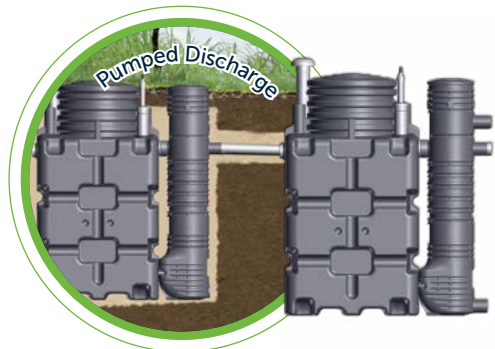
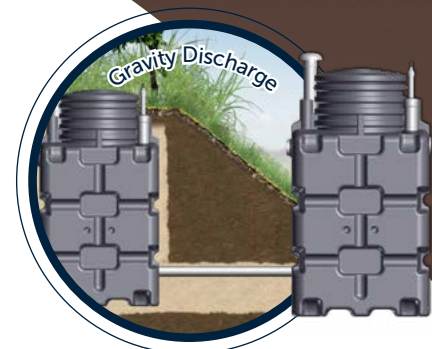
### Step 2: BIOREACTOR Process

Our BIOREACTOR further purifies the pretreated wastewater using a biological process.

To naturally treat the wastewater, our systems use our unique BIOROCK Media, an exclusive and very efficient carrier material for bacteria.

### Step 3: Discharge

Depending on the ground type, effluent will be discharged by gravity, or by a pump.



## THE UNIQUE BIOROCK MEDIA

Our **exclusive media** is degradation-resistant, stable and sustainable - keeping the purification system working effectively over the long-term. You will exclusively find it in BIOROCK systems





### ECOROCK SPECIFICATIONS

DIMENSIONS	VOLUME BIOREACTOR	WEIGHT (EMPTY)
ECOROCK-1000 (Up to 6 PE)	1000 liters	177 kg
ECOROCK-1500 (Up to 8PE)	1500 liters	197 kg
ECOROCK-2000 (Up to 10 PE)	2000 liters	232 kg
ECOROCK-3000 (Up to 15 PE)	3000 liters	304 kg

Do you need a non-electric plant with a larger capacity?  
We have a solution for every project!

Find more information in our brochures for wastewater treatment plants with capacities for 30 people and up.

### SAVE MONEY WITH ECOROCK

One of the main benefits of having an **ECOROCK treatment unit** is that it's a sustainable and economical investment. Our system requires minimal maintenance, does not need electricity, and has a long lifespan.

**You will constantly save on electricity and maintenance costs.**

**BIOROCK**  
engineered for tomorrow

ECOROCK-IE-12/2022

Call us today for more information

**BIOROCK Sewage Treatment Ltd**

7 Fair Street, A92 YDR7 Drogheda, Co. Louth

☎ +353 (0)41 9800 437 ✉ info@biorock.ie

[www.biorock.ie](http://www.biorock.ie)



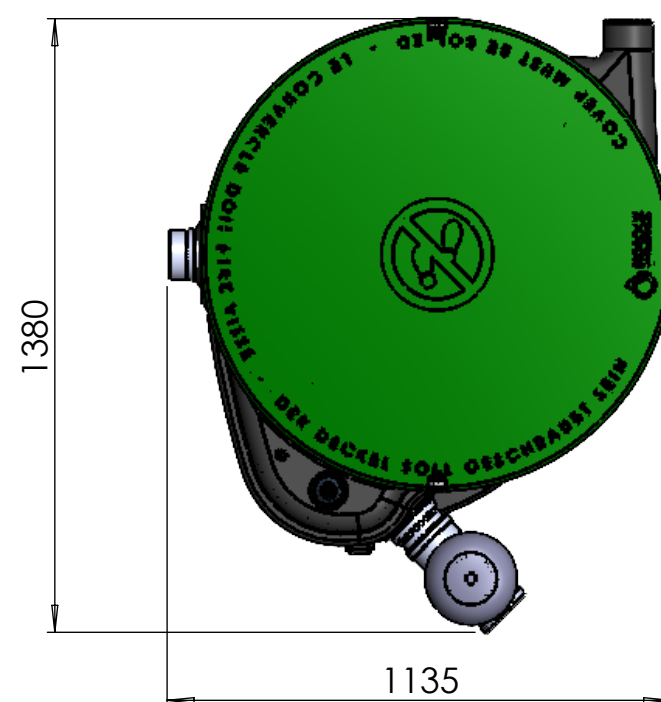
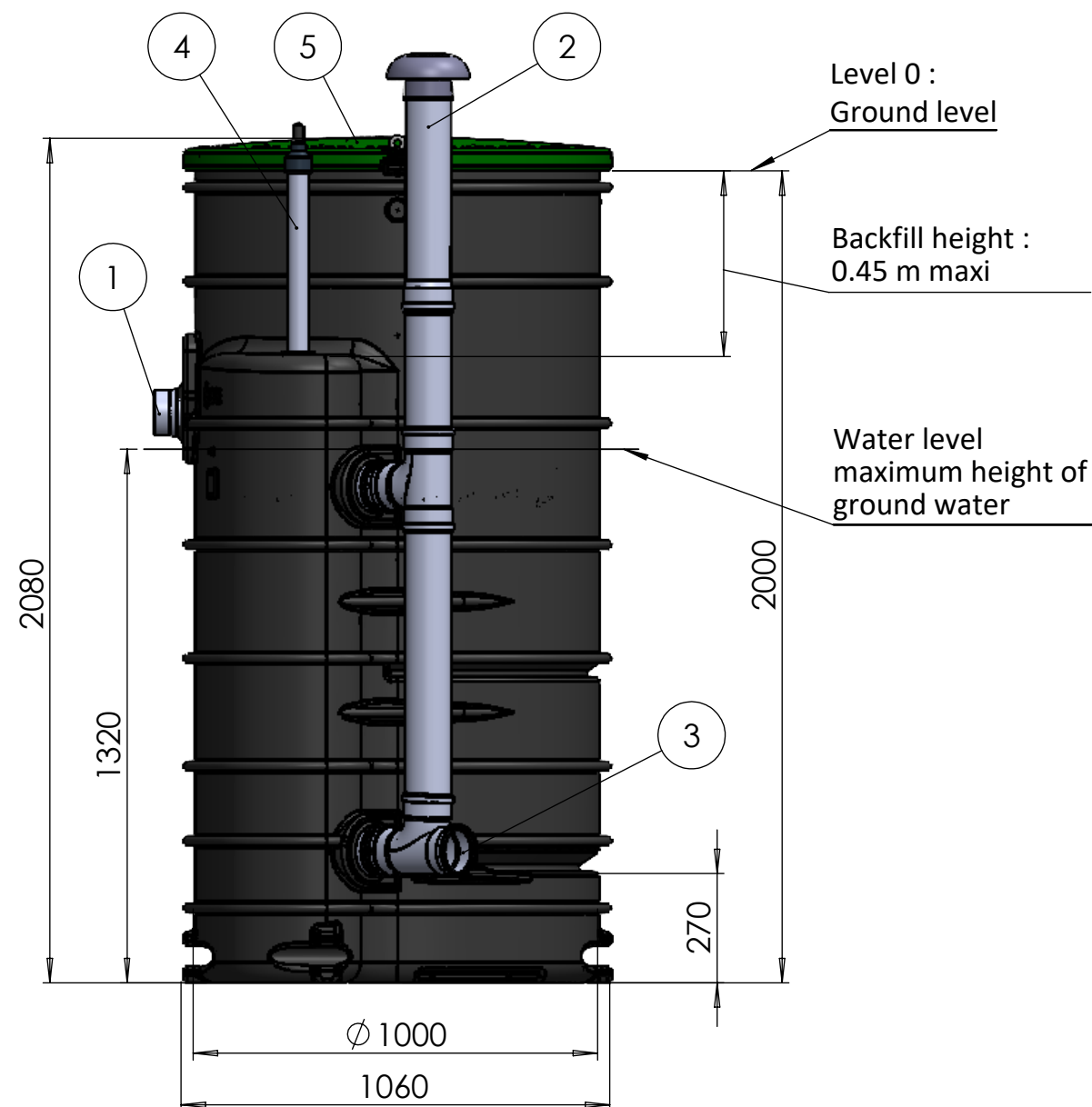
Tested and approved to  
EN12566-3 and  
SR66 Standards.



25 Year warranty on tanks  
10 Year warranty on media

*\*subject to conditions*





# ECOROCK-1000

## CAPACITY UP TO 6 PE

1	Effluents inlet + Air outlet DN 110
2	Air inlet
3	Water outlet DN110
4	Overflow alarm
5	Treatment access

CARACTERISTICS	VALUE	UNIT
Capacity in Population Equivalent	6	PE
TREATMENT UNIT	VALUE	UNIT
Minimum volume of pre-treatment	2700	Liters
Treatment volume	1500	Liters
Daily volume of wastewater	150	Liters/day/PE
Daily hydraulic load	up to 0.9	m <sup>3</sup> /day
Organic load per PE	60	gr.DBO5/PE/day
Charge organique brute	0.36	kg DBO5/day
SPECIFICATION	VALUE	UNIT
Overall length	1213	mm
Overall width	1415	mm
Overall height	2240	mm
Secondary treatment area	0.82	m <sup>2</sup>
Total weight (without water)	177	kg
Pipe diameters	110	mm
Buffer diameter	1000	mm

**BIO**ROCK

Creation	Date
Approval	Date
Format: A3	Scale: 1:17

Technical Sheet  
ECOROCK-1000 V3-6PE

Material:	Mass:	Page: 3 / 3
		SW-0001181

# TREATMENT PERFORMANCE RESULTS

**BIOROCK Sewage Treatment Ltd**  
 Fitzwilliam Court, 11-13 Dyer Street, Drogheda, Co. Louth, Ireland

**EN 12566-3**

Results corresponding to EN 12566-3 and S.R. 66

PIA-SR66-1703-1026

**BIOROCK**  
 Aerobic biological gravity filter

Nominal organic daily load	0.27 kg/d		
Nominal hydraulic daily load	0.75 m³/d		
Material	Polyethylene		
Watertightness	Pass		
Crushing resistance (Pit test)	Pass (also wet conditions)		
Durability	Pass		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	96.3 %	26 mg/l
	BOD <sub>5</sub>	98.7 %	4 mg/l
	NH <sub>4</sub> -N*	90.5 %	3 mg/l
	SS	99.3 %	3 mg/l
Number of desludging	Not more than once		
Electrical consumption	0 kWh/d		

\*determined for temperatures  $\geq 12^{\circ}\text{C}$  in the bioreactor

Performance tested by:

**PIA – Prüfinstitut für Abwassertechnik GmbH**  
**CSTB – Centre Scientifique et technique du Batiment**  
**CERIB – Centre d'Etudes et de Recherche de l'INDustrie du Béton**

This document replaces neither the declaration  
 of performance nor the CE marking.



Notified Body  
 No.: 1739



Certified according to  
 ISO 9001:2008



Prüfinstitut für Abwassertechnik GmbH  
 geprüft - tested - teste

Elmar Lancé

March 2017