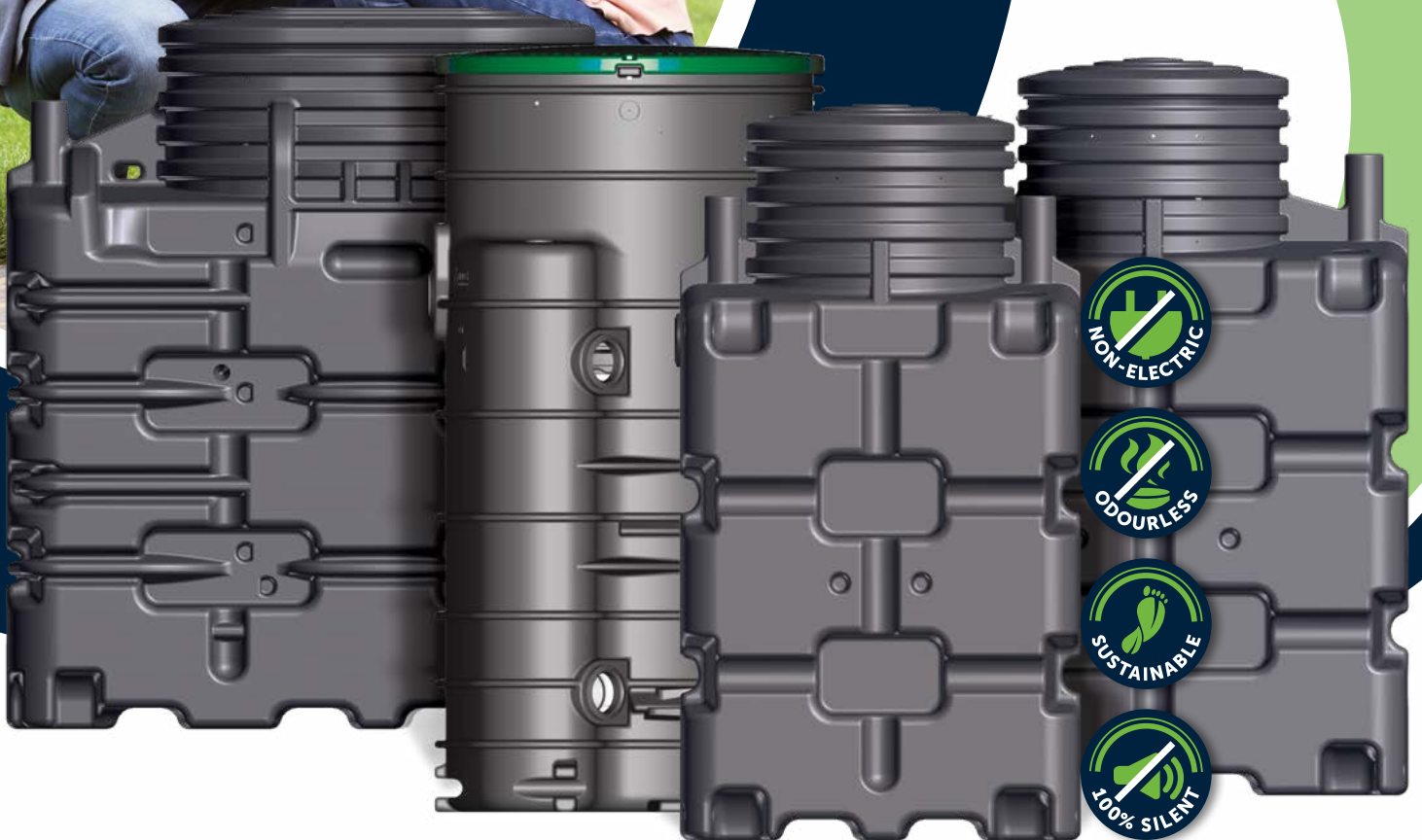


ECOROCK

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

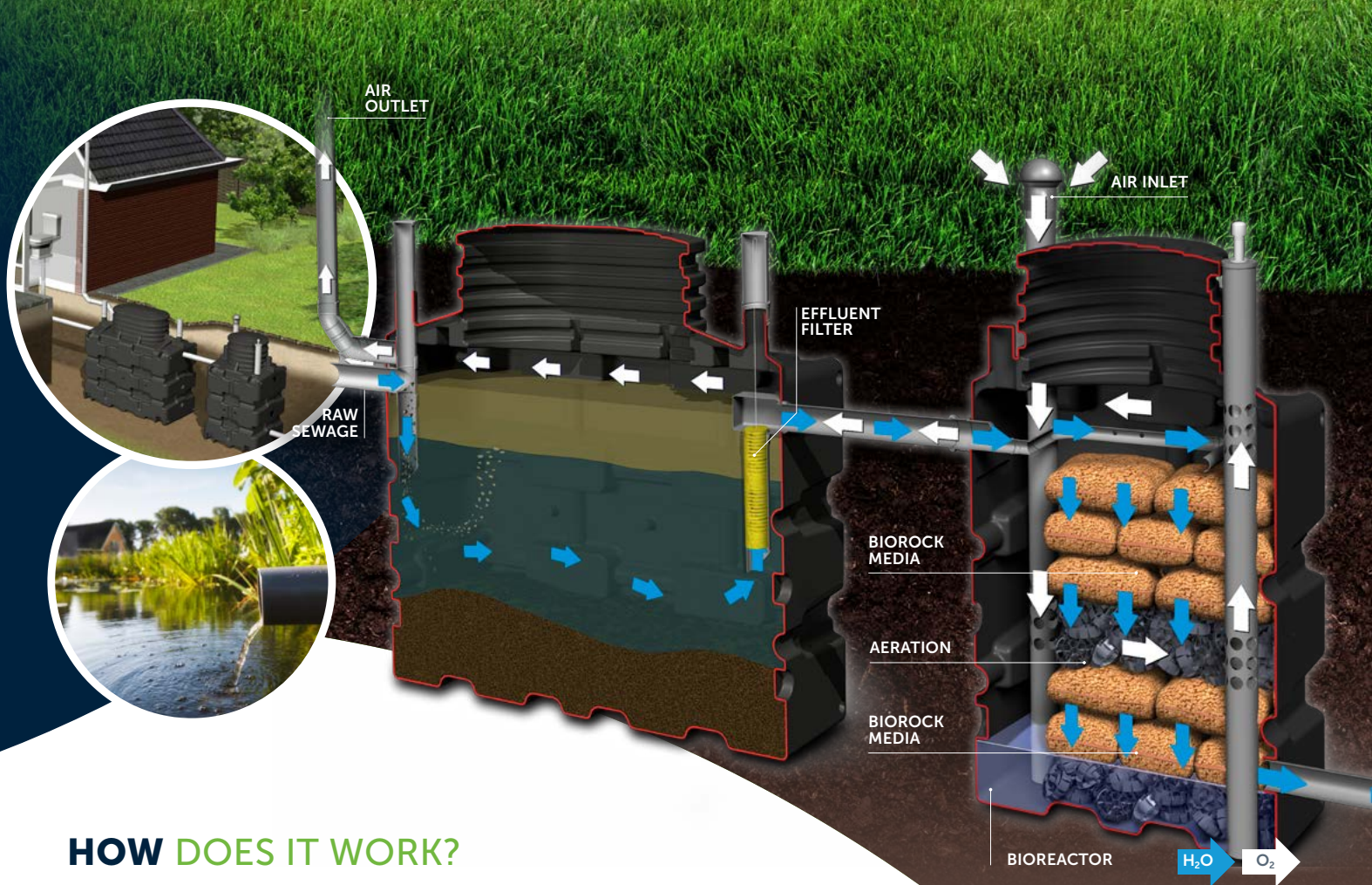
Our **ECOROCK system** is the perfect solution for your home wastewater treatment. It is totally silent, odourless and is barely visible

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.

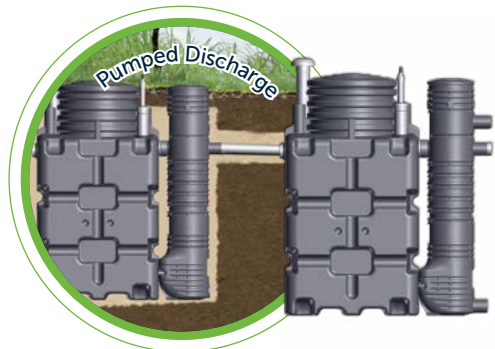
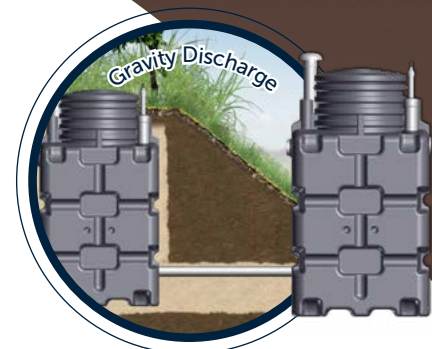
Step 2: BIOREACTOR Process

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 8 PE)	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



Tested and approved to
EN12566-3 and
SR66 Standards.



25 Year warranty on tanks
10 Year warranty on media

**subject to conditions*

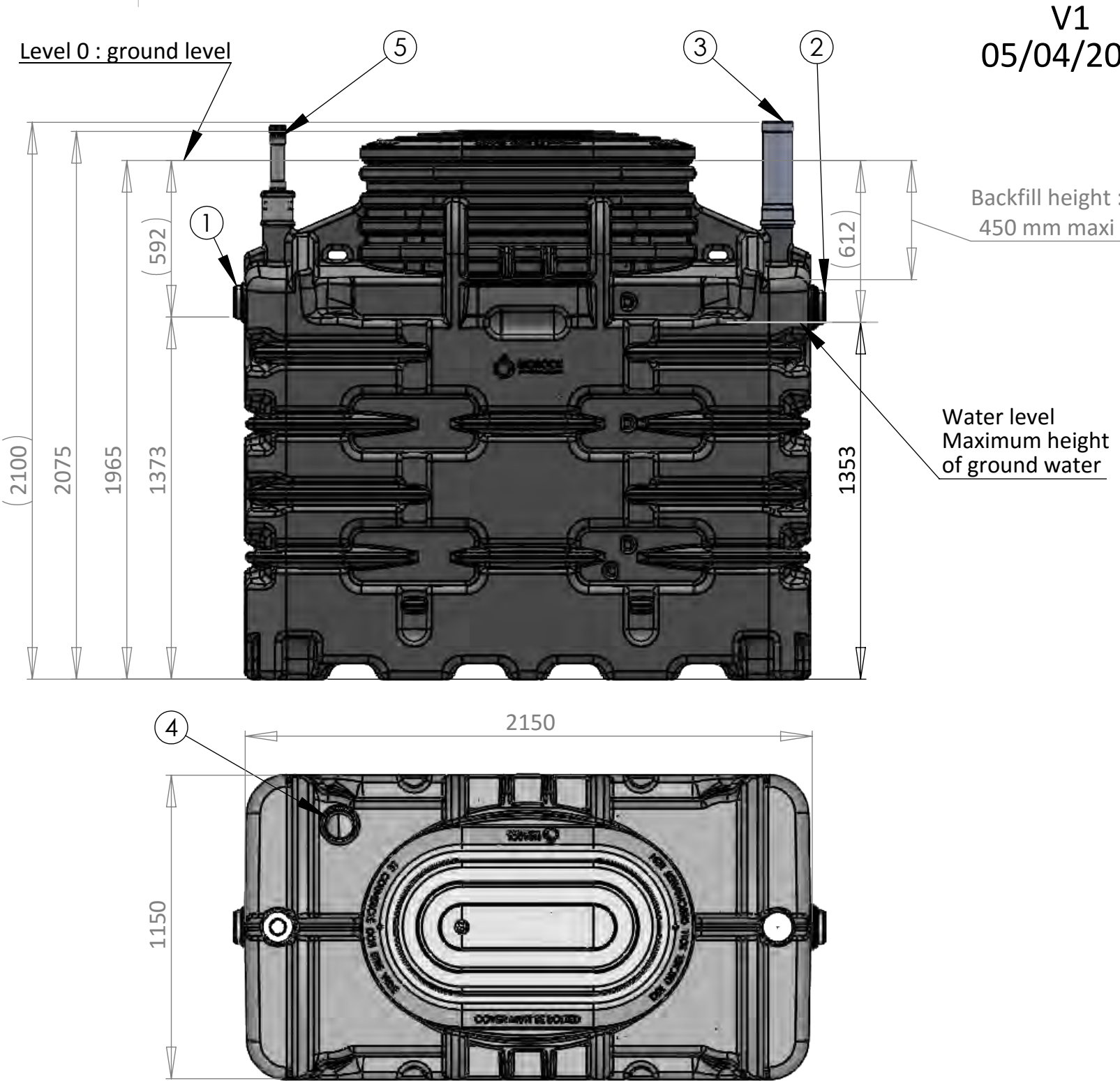
Primary tank

Volume 3000 L

1	Water inlet
2	Water outlet
3	Access to effluent filter
4	Air outlet
5	Rodding point

Characteristics	Value	Unit
Primary Tank (PT)		
Material	HDPE	
Tank volume	3000	Liters
Specification	Value	Unit
Overall length	2150	mm
Overall width	1150	mm
Total height of the tank	2075	mm
Overall height	2100	mm
Total weight (without water)	200	Kg
Pipe diameters	110	mm

This primary tank can be installed in high ground water table.



Overall tolerance : 3%

Service :

ORIGINATOR			
	NAME	SIGNATURE	DATE
AUTHOR	AQ		05/04/2016
APPROV.			
CHANGES			
	NAME	SIGNATURE	DATE
AUTHOR			
APPROV.			
CHANGES			
	NAME	SIGNATURE	DATE
AUTHOR			
APPROV.			

TITLE:

Nb. of PLAN

FTE-X3000.2

A3

SCALE:1:20

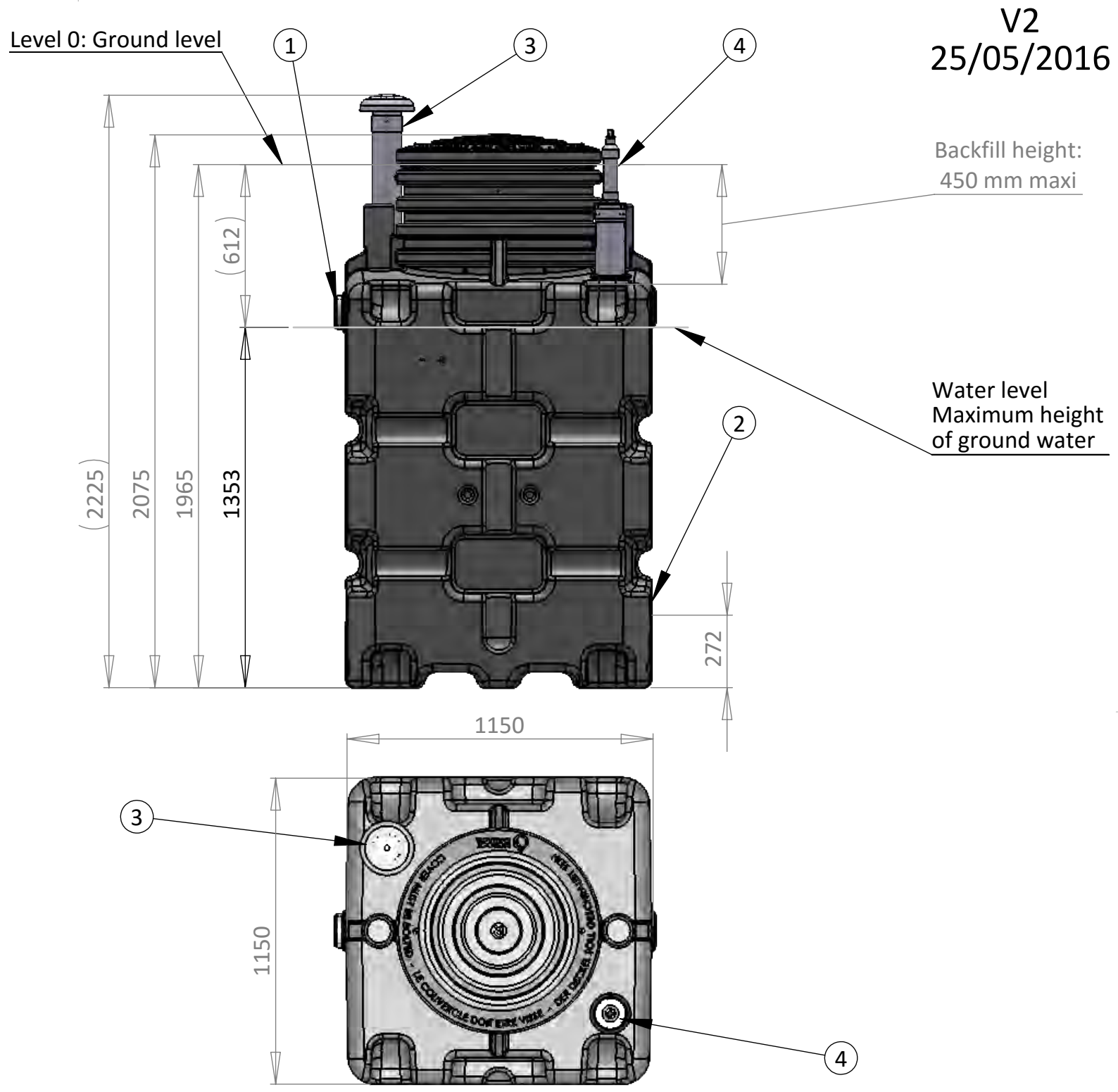
Treatment Unit Tank Volume 1500 L

1	Water inlet
2	Water outlet
3	Air inlet
4	Overflow Alarm

Characteristics	Value	Unit
ECOROCK-1500 Treatment Unit		
Minimum volume of pre-treatment*		liters/PE
Capacity in population equivalent		PE
Daily volume of wastewater **		liters/day/PE
Daily hydraulic load		m³/day
Organic load per PE		gr.BOD ₅ /PE/day
Organic load raw effluent up to		kg BOD ₅ /day
Specification	Value	Unit
Tank Volume	1500	Liters
Overall length	1150	mm
Overall width	1150	mm
Total height of the tank	2075	mm
Overall height (+ventilation pipe)	2225	mm
Total weight (without water)	197	Kg
Pipe diameter	110	mm

This treatment unit can be installed in high ground water table.

**minimum 2000 litres of pre-treatment*
***according to DIN EN 12566-3*



Service :			
ORIGINATOR			
	NAME	SIGNATURE	DATE
AUTHOR	AQ		29/04/2016
APPROV.			
CHANGES			
	NAME	SIGNATURE	DATE
AUTHOR	AQ		25/05/2016
APPROV.			
TITLE:			
Nb. of PLAN			
UT-X1500			
SCALE:1:20			

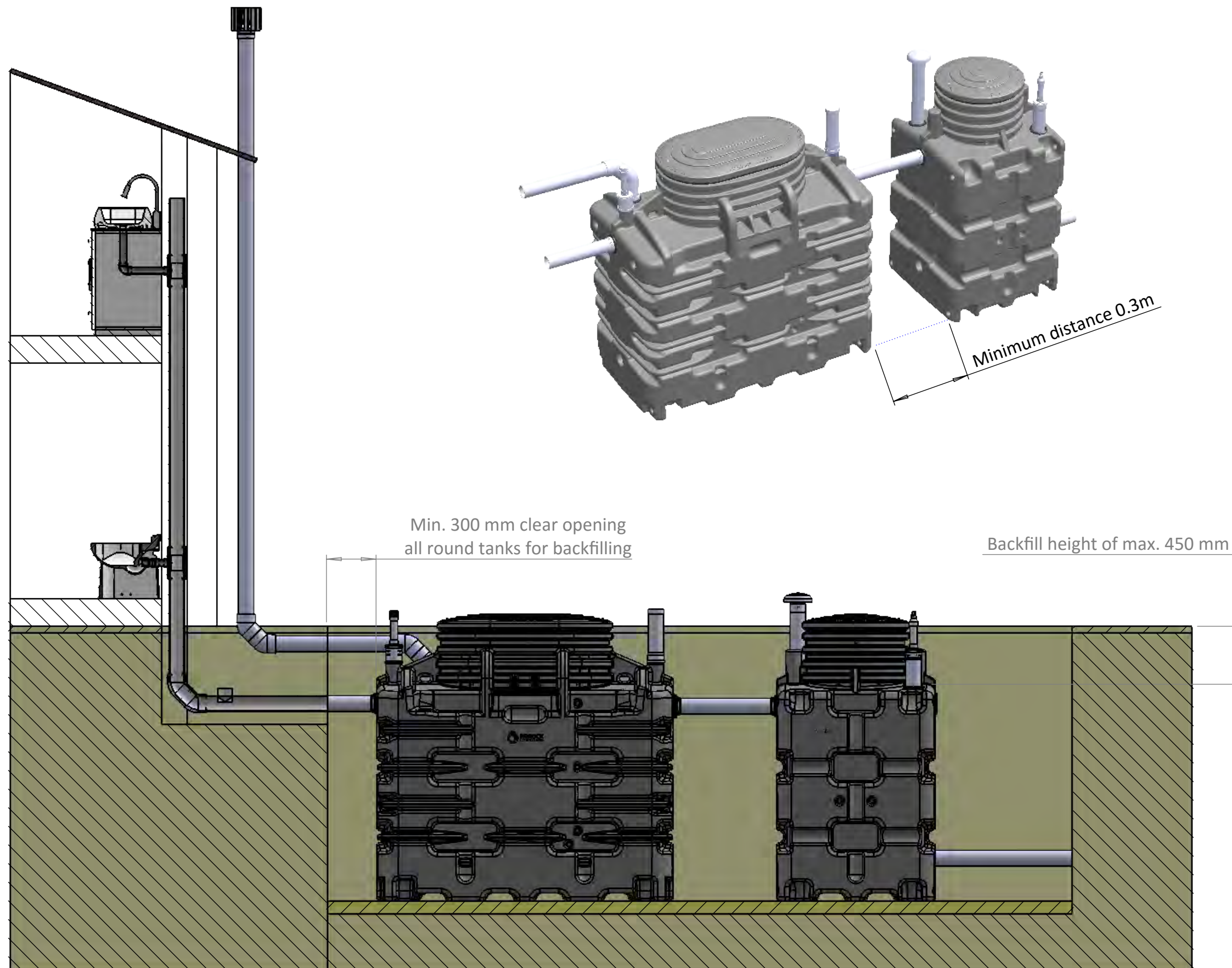


Overall tolerance: 3%



Installation in dry ground conditions BIOROCK-ST2-3000 + ECOROCK- 1500

V1
02/05/2016
F-X6



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 ₅	98.7 %	4 mg/l
	NH ₄ -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