



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



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

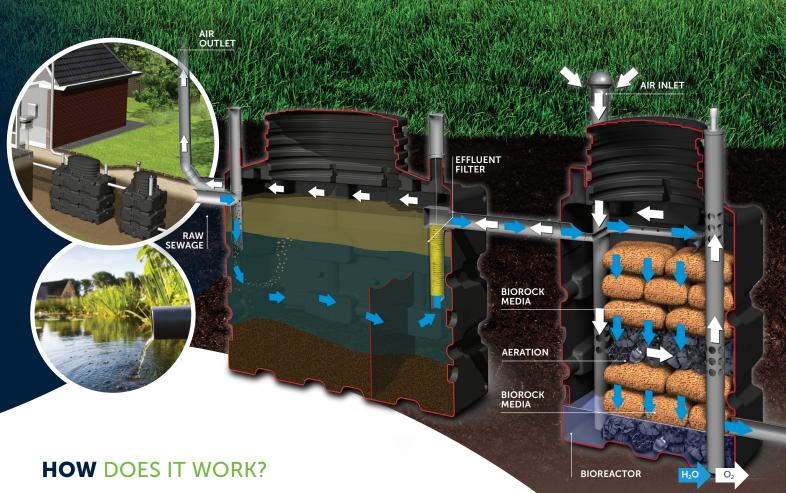
THE ECOROCK SOLUTION

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 costeffectively 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.



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.



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











Pumped Discharge

DIMENSIONS	VOLUME BIOREACTOR	WEIGHT (EMPTY)
ECOROCK-1000	1000 liters	163 kg
ECOROCK-1500	1500 liters	197 kg
ECOROCK-2000	2000 liters	232 kg
ECOROCK-3000	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.

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, maintenance, and tap water costs as you can reuse the purified water for irrigation.



Call us today for more information

BIOROCK Sewage Treatment Ltd

Adamson House (Ground Floor), Towers Business Park, M20 2YY Manchester





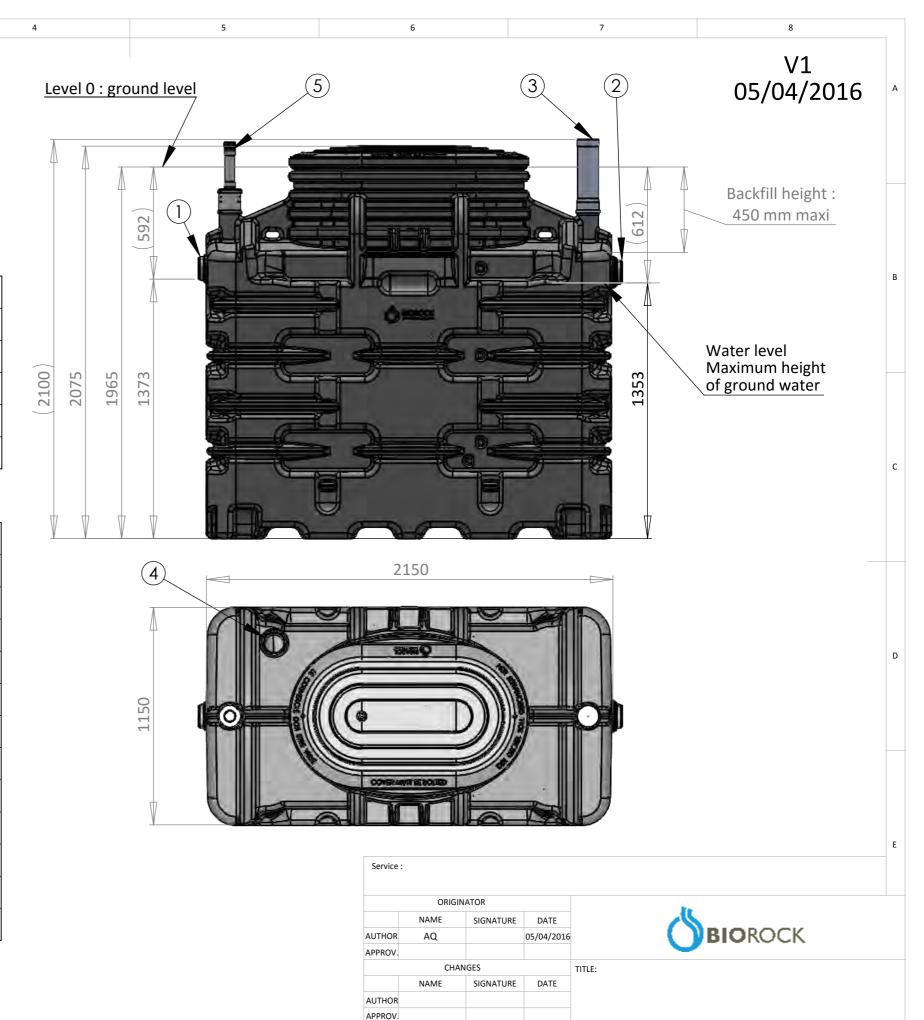


Primary tank Volume 3000 L

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.



CHANGES

Overall tolerance: 3%

Nb. of PLAN

SCALE:1:20

FTE-X3000.2

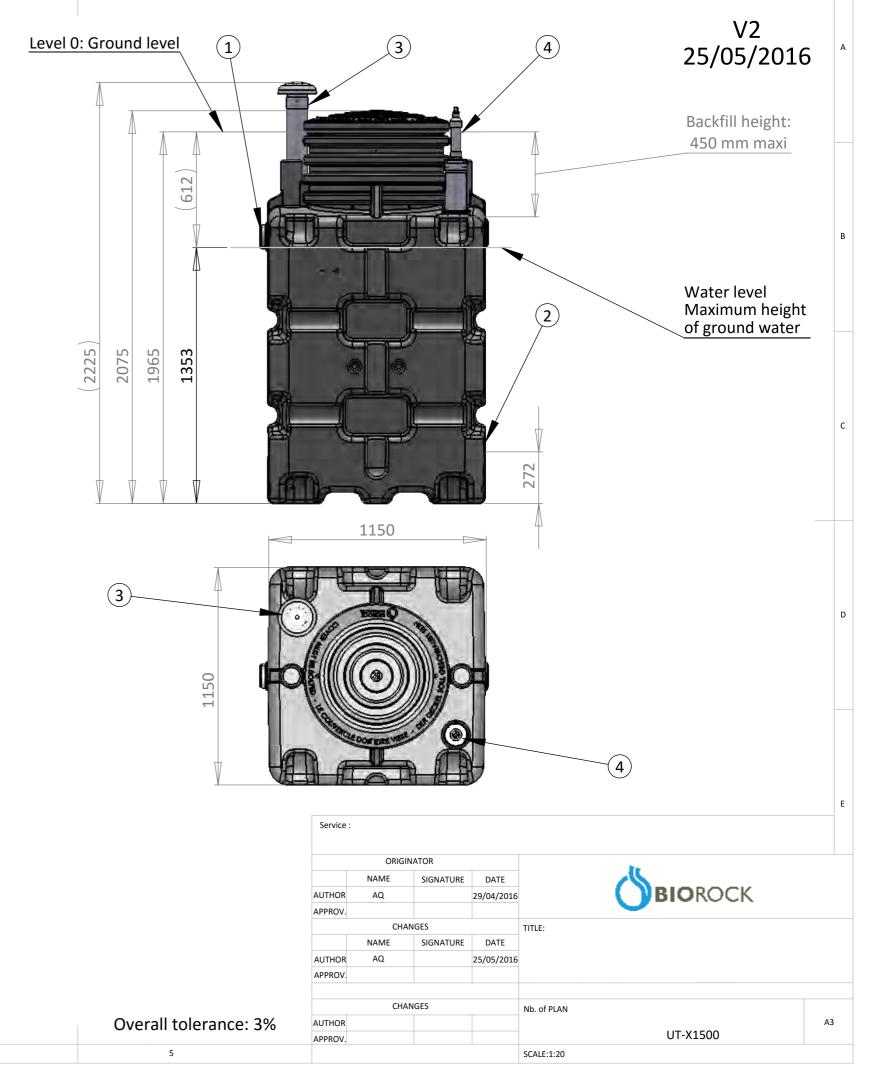
Treatment Unit Tank Volume 1500 L

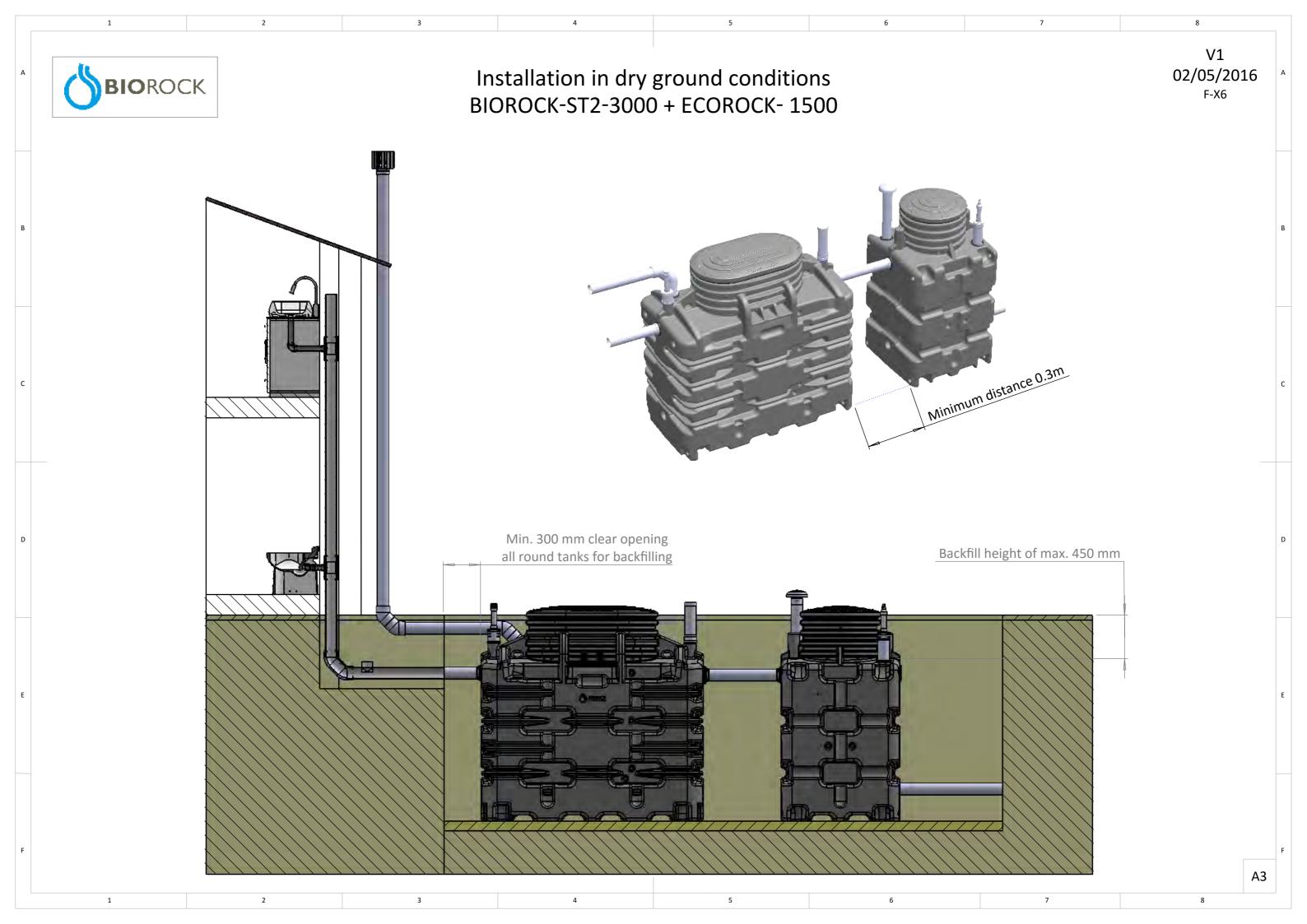
1	Water inlet
2	Water outlet
3	Air inlet
4	Overflow Alarm

Caracteristics	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.BOD5/PE/day	
Organic load raw effluent up to		kg BOD₅/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







TREATMENT PERFORMANCE RESULTS

BIOROCK Sewage Treatment Ltd

5300 Lakeside, Cheadle Royal Bus. Pk. Cheadle SK8 3GP

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 0.75 m³/d Nominal hydraulic daily load Polyethylene Material

Pass Watertightness

Crushing resistance (Pit test) Pass (also wet conditions) Durability **Pass**

Treatment efficiency (nominal sequences) Efficiency Effluent COD 26 mg/l 96.3 %

98.7 % BOD₅ 4 mg/l 90.5 % NH_4-N* 3 mg/l 99.3 % SS 3 mg/l

Not more than once Number of desludging

Electrical consumption 0 kWh/d

*determined for temperatures ≥ 12°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









Elmar Lancé

Certified according to ISO 9001:2008

March 2017