

# RAITA BioHS - the manufacturer's compilation for technical properties and purification capacity \*)

No. RAITA BioHS 2022\_1- ENG

## Use:

A waterproof container based on anaerobic and aerobic treatment for residential buildings and smaller properties. Biological tank used as the last purification step. The tank is made of polyethylene plastic with rotational molding. The tank is self-sustaining.

The table below shows dimensions of the product.

Mått:

| Product  | Width (mm) | Height (mm) | Length (mm) | Number of departments | Nominal size (l) |
|----------|------------|-------------|-------------|-----------------------|------------------|
| BioHS1,5 | 900        | 1500        | 900         | 3                     | 750              |
| BioHS2   | 1200       | 1500        | 1200        | 3                     | 2800             |
|          |            |             |             |                       |                  |

## Installation:

After burying the tank, the backfill material must be fine-grained soil without stone, the tank is not overdrivable.

The tank must be installed according to the manufacturer's instructions:  
installation without the presence of groundwater  
installation on a concrete base plate, or similar level and stable bottom

1. The product's unique identification code:

**BioHS**

2. Type, batch, or serial number or other designation enabling the construction product to be identified:

**Raita BioHS**

3. Intended use or uses of the construction product in accordance with the manufacturer's requirements:

**Biological cleaner for household graywater sewage.**

4. Manufacturer's name, registered company name or registered trademark and contact address:

**Oy Raita Environment Ltd, Astrakanintie 194, 05200 Rajamäki, Finland.**

5. Assessment and continuous control of the construction product's technical design is checked in accordance with ISO 9001 and the manufacturer's quality and environmental program.

6. Strength evaluation, waterproofness testing:

**VTT (TECHNOLOGICAL RESEARCH CENTER VTT) has performed strength evaluation (VTT-S-06609-13) and compilation according to standard 12566-3.**

**SYKE (Finnish Environment Institute) has performed waterproofing testing (SYKE-2004-A-A-A4 / 30) according to standard 12566-3.**

7. Specified performance

| Property                     | Performance          | Harmonized standard      |
|------------------------------|----------------------|--------------------------|
| Wet volume (m <sup>3</sup> ) | 0,75 – 1,4           | EN 12566-1:2000 /A1:2003 |
| Material                     | Polyethylene plastic | EN 12566-1:2000 /A1:2003 |
| Water resistance             | Approved             | EN 12566-1:2000 /A1:2003 |
| Material properties          | Approved             | EN 12566-1:2000 /A1:2003 |
| Strength (vacuum test)       | Approved             | EN 12566-1:2000 /A1:2003 |

8. The performance of the product regarding purification capacity complies with Swedish legislation (MB 1998: 808 - NFS 2006: 7 BOD 90%, Ptot 90%, Ntot 50%) and Finnish legislation (YSL 572/2014: BOD 90%, Ptot 85%, Ntot 40 %). Test results, eg Metropolilab 2010 - 2020 shows effectiveness according to EN12566-1: 2001 / A1: 2003 Article 5 (5) and required by national standards.

9. The performance of the product specified in paragraph 1 is consistent with the declared technical performance in paragraphs 7 and 8.  
This summary of technical characteristics and treatment capacity is issued at the manufacturer's own responsibility specified in point 4.

Signed for the manufacturer of:

Oy Raita Environment Ltd  
Ilkka Raita, Managing Director  
Rajamäki 2021-12-31

\*) According to the Construction Products Regulation, a declaration of performance must be drawn up for products covered by a harmonized standard or a European Technical Assessment ((ETA) - optional CE marking).  
Treatment plants for greywater only are not covered by any current harmonized standard or ETA and there are no official test principles for greywater in the EU.  
The manufacturer's summary for RAITA BioHS's technical properties and purification capacity refers to standard 12566-3 (greywater + toilet water) according to which the tests and evaluations for RAITA BioHS's technical properties and purification capacity are performed.