

DECLARATION OF PERFORMANCE

No. 0032

1. Unique identification code of the product-type:

**Wastewater Treatment Plant for 4 & 6 Population Equivalents
BioAir 1 MDPE (4PE) & BioAir 2 MDPE (6PE)**

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:

**BioAir Prefabricated Domestic Wastewater Treatment Plant: See CE marking affixed to product
BioAir 1 MDPE (4PE) & BioAir 2 MDPE (6PE)**

3. Intended use/es of the product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

**To be used for Collection & Treatment of Wastewater from Domestic applications up to 4 or 6
Population Equivalents**

4. Manufacturer name, registered trade name or registered trademark and contact address as required under Article 11(5):

**Kingspan Water & Energy Sp. z o.o.
ul. Topolowa 5 62-090
Rokietnica
Poland**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

N/A

6. System/s of assessment and verification of constancy of performance (AVCP) of the product as set out in CPR, Annex V:

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

EN:12566-3:2005+A2:2013

Notified body/ bodies:

PIA Prüfinstitut für Abwassertechnik GmbH, Notified Body No: 1739

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8. Declared performance/s:

Essential characteristics		Performance		Harmonised technical specification
Structural Behaviour		<p>Confirmed by Pit Test under the following conditions:</p> <p>Maximum installation depth BioAir 1 – 2.34 m deep to base of tank BioAir 2 – 2.58 m deep to base of tank</p> <p>Maximum ground water level BioAir 1 – 1.15 m from base of tank BioAir 2 – 1.30 m from base of tank</p>		EN:12566-3:2005+A2:2013
Reaction to fire		Class F		
Water Tightness (water test)		Watertight (water test)		
Material Durability		MFR (230/2,16) = (4,0± 3,0g)/10 min (EN ISO 1133)		
		Density ≥ 930 kg/m ³ (EN ISO 1133)		
		Tensile Strength	At Yield (50mm/min) 21MPa	
At break (50mm/min) 21MPa				
Treatment Efficiency	Efficiency		Effluent	
	COD	93.2 %	57.0 mg/L	
	BOD ₅	97.5 %	9.0 mg/L	
	TN _b **	60.1 %	25.4 mg/L	
	NH ₄ -N**	67.6 %	15.6 mg/L	
	P _{tot}	46.9 %	4.3 mg/L	
		SS	95.9 %	16.0 mg/L
		**determined for temperatures > or equal to 12°C in the biozone		
Electrical Consumption (measured during 38-week test)		1.2 kWh/d		
Emission of Dangerous Substances		NPD		

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Noel McQuaid 4/3/23

Noel McQuaid, Business Unit Director

At Portadown on 1st March, 2023

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