



Prüfinstitut für  
Abwassertechnik  
GmbH

## PERFORMANCE RESULTS

**Kingspan Environmental Limited**  
College Road North, HP22 5EW Aylesbury  
United Kingdom

### EN 12566-3

Results corresponding to the Irish National Annex for IS EN 12566-3  
**Small wastewater treatment system Bio-Ficient**  
Fluidized bed reactor

Nominal organic daily load*	0.23	kg/d		
Nominal hydraulic daily load	0.60	m <sup>3</sup> /d		
Material	glass reinforced plastic (GRP)			
Watertightness (water test)	pass			
Crushing resistance (vertical load test)	pass (also wet conditions)			
Durability	pass			
Treatment efficiency (nominal sequences)		Efficiency	Effluent	
	COD	90.6 %	67 mg/l	
	BOD <sub>5</sub>	94.4 %	20 mg/l	
	NH <sub>4</sub> -N**	99.0 %	0.4 mg/l	
	SS	92.7 %	27 mg/l	
Electrical consumption	0.52	kWh/d		

\* at a test influent of  $\geq 300$  mg/l BOD<sub>5</sub> (mean)  
\*\* determined for temperatures  $\geq 12^{\circ}\text{C}$  in the bioreactor

Performance tested by:

**PIA – Prüfinstitut für Abwassertechnik GmbH**  
(PIA GmbH)  
Hergenrather Weg 30  
D-52074 Aachen

This document replaces neither the declaration  
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Notified Body  
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Certified according to  
ISO 9001:2008



Prüfinstitut für Abwassertechnik GmbH  
*[Signature]*  
geprüft - tested - testé

Elmar Lancé

March 2014