



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 ³ /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 ₅	94.4 %	20 mg/l	
	NH ₄ -N**	99.0 %	0.4 mg/l	
	SS	92.7 %	27 mg/l	
Electrical consumption	0.52	kWh/d		

* at a test influent of ≥ 300 mg/l BOD₅ (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
of conformity nor the CE marking



Notified Body
number 1739:



Certified according to
ISO 9001:2008



Prüfinstitut für Abwassertechnik GmbH

geprüft - tested - teste

Elmar Lancé

March 2014