

# TREATMENT PERFORMANCE RESULTS

**W & M Kiely Ltd.**  
Courtbrack, Blarney, Co. Cork, Ireland

**EN 12566-3**  
Results corresponding to EN 12566-3 and S.R. 66  
PIA-SR66-1611-1124

**BIOKAST**  
Submerged fixed film reactor

Nominal organic daily load	0.32 kg/d		
Nominal hydraulic daily load	0.90 m <sup>3</sup> /d		
Material	Concrete		
Watertightness	Pass		
Crushing resistance (vertical load test)	Pass (also wet conditions)		
Durability	Pass		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	90.0 %	74 mg/l
	BOD <sub>5</sub>	94.4 %	19 mg/l
	NH <sub>4</sub> -N	95.3 %	1.8 mg/l
	SS	92.2 %	28 mg/l
Number of desludging	Not more than once		
Electrical consumption	1.6 kWh/d		

Performance tested by:

**PIA – Prüfinstitut für Abwassertechnik GmbH**  
(PIA GmbH)  
Hergenrather Weg 30  
52074 Aachen, Germany

This document replaces neither the declaration of performance nor the CE marking.



Notified Body  
No.: 1739



Certified according to  
ISO 9001:2008

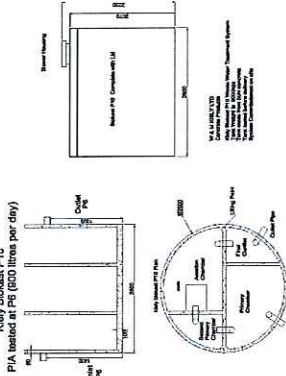


Prüfinstitut für Abwassertechnik GmbH  
*Geprüft - tested - teste*

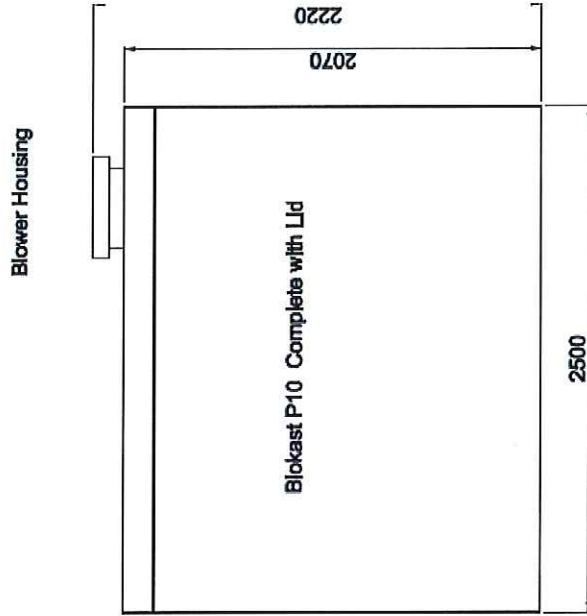
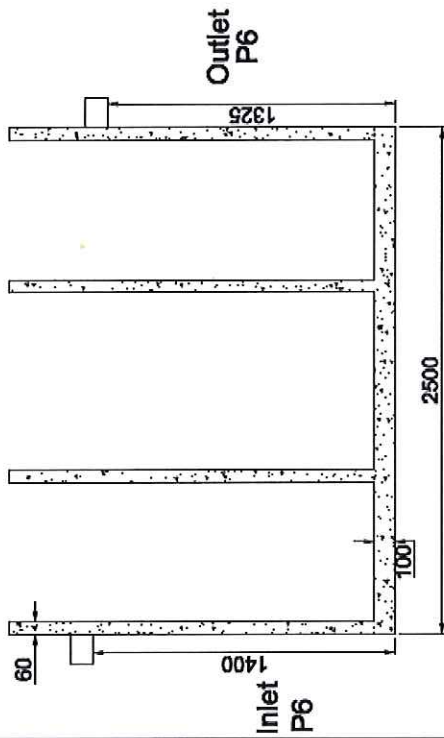
Elmar Lancé

November 2016

Biokast range and its referring test reports:

Name of the model and/or population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial Type Test (ITT) 6	 <p>Küly Biokast P10 PIA tested at PE (GSD litres per day)</p>	Pass PIA2012-171B10	Pass PIA2012-171B10	Pass PIA2012-ST-AT-1202-1008  For wet ground conditions also, installation depth 1.40 m from inlet invert	Pass PIA2016-DH-1611-1124.01

**Kiely Biokast P10**  
**PIA tested at P6 (900 litres per day)**



**W & M KIELY LTD**  
**Concrete Products**  
**Kiely Biokast P10 Waste Water Treatment System**  
**Tank Weight is 5000kgs**  
**Tank made from 50N concrete**  
**Tank tested before delivery**  
**System Commissioned on site**

