

TREATMENT PERFORMANCE RESULTS

Bio-Friendly Ltd.

Loughglynn Castlereagh, Co. Roscommon, Ireland

EN 12566-3

Results corresponding to EN 12566-3 and S.R. 66

PIA-SR66-1703-1027

Bio-Friendly Treatment Unit

Moving bed reactor in 2 tanks

Nominal organic daily load	0.28 kg/d		
Nominal hydraulic daily load	0.90 m ³ /d		
Material	Glass reinforced plastic		
Watertightness	Pass		
Crushing resistance (vertical load test)	Pass (also wet conditions)		
Durability	Pass		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	93.1 %	53 mg/l
	BOD ₅	95.6 %	14 mg/l
	NH ₄ -N	96.8 %	1.0 mg/l
	SS	95.2 %	16 mg/l
Number of desludging	Not more than once		
Electrical consumption	1.5 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

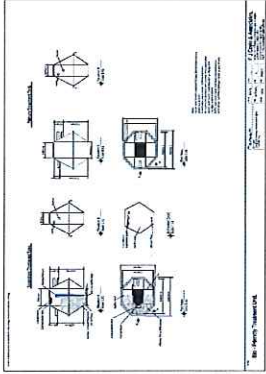


Prüfinstitut für Abwassertechnik GmbH
Elmar Lancé
geprüft - tested - testé

Elmar Lancé

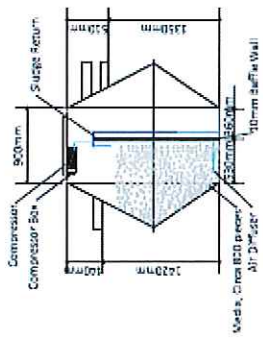
May 2017

Bio-Friendly Treatment Unit range and its referring test reports:

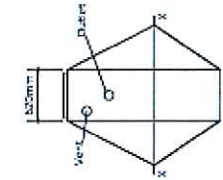
Name of the model and/or population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial Type Test (ITT) 6		Pass PIA2009-102B14	Pass PIA2017-292B06	Pass PIA2012-ST-AT-1202-1008 For wet ground conditions also, installation depth 1.40 m from inlet invert	Pass PIA2016-DH-1611-1124.01

140 000 0000 PROJECT/ISSUE/REVISION/DATE/ISSUED BY/SCALE

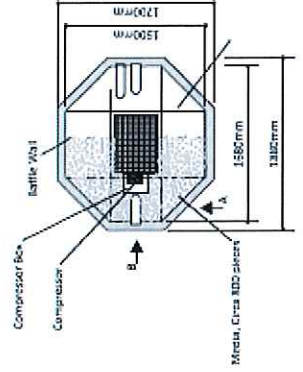
Secondary Treatment Tank



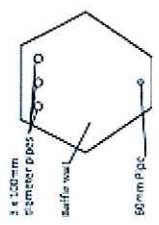
Elevation A
Scale 1:50



Elevation B
Scale 1:50

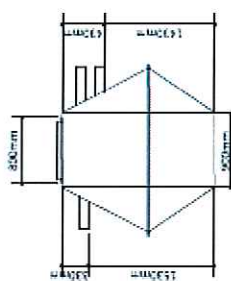


Plan View
Scale 1:50

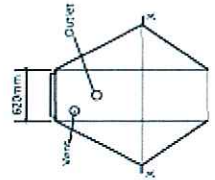


Baffle Wall Detail
Scale 1:50

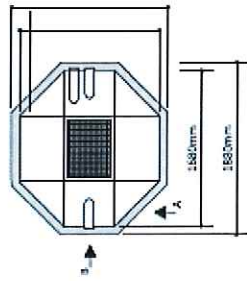
Primary Treatment Tank



Elevation A
Scale 1:50



Elevation B
Scale 1:50



Plan View
Scale 1:50

NOTE:
Upper and lower walls (Glass Reinforced Plastic) thickness 50mm
All pipe work to be installed into upper wall
Upper and lower walls to be bonded at 100mm X 8
Baffle wall shall split into two compartments with three 100mm diameter holes at top of wall

Bio-Friendly Treatment Unit

Client: F. J. Coyle & Associates	Scale: 1:50
Project: Bio-Friendly Treatment Unit	Sheet: 01/01
Author: F. J. Coyle & Associates	Date: 20/01/20
Checked: F. J. Coyle & Associates	Scale: 1:50