

TREATMENT PERFORMANCE RESULTS

Initial type test performed by **Kordes KLD GmbH**

Distributed by **Klärtechnik Reinhardt GmbH**

Albert-Einstein-Str. 20, 23701 Eutin, Germany

EN 12566-3 Annex B

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

PIA-SR66-1609-1107

Small wastewater treatment system Klärmax Ideal

One-chamber SBR system in PE tank with additional sludge storage (initial type test) in combination with Shay Murtagh tanks

Nominal organic daily load	0.25 kg/d		
Nominal hydraulic daily load	0.75 m³/d		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	96.3 %	25 mg/l
	BOD ₅	99.0 %	3 mg/l
	NH ₄ -N	98.4 %	0.7 mg/l
	SS	98.8 %	4 mg/l
Number of desludging	Not more than once		
Electrical consumption	0.69 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



Deutsche
Akkreditierungsstelle
D-PL-17712-01-00

Prüfinstitut für Abwassertechnik GmbH
geprüft - tested - testé

Elmar Lancé

November 2016

TREATMENT PERFORMANCE RESULTS

Initial type test performed by **Shay Murtagh Ltd.**
Distributed by **Biocell Ltd.**
Unit 31, Ballybane Industrial Estate, Galway, Ireland
EN 12566-3 Annex A, C
Results corresponding to EN 12566-3 and S.R. 66
PIA-SR66-1609-1107

Biocell Tanks

Concrete tanks for one-chamber SBR process with additional sludge storage
in combination with Klärtechnik Reinhardt treatment kit

Material	Concrete
Watertightness	Pass
Structural behaviour (Vertical load test)	Pass (also wet conditions)
Durability	Pass

Performance tested by:

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

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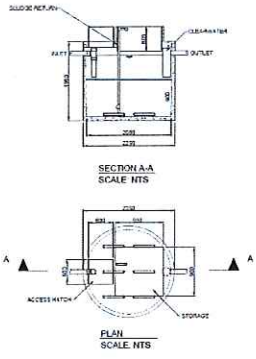
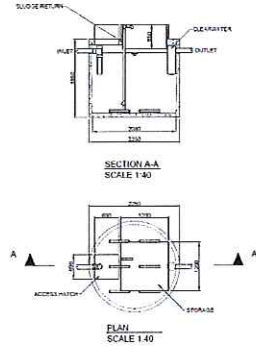
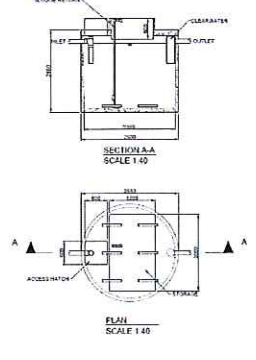


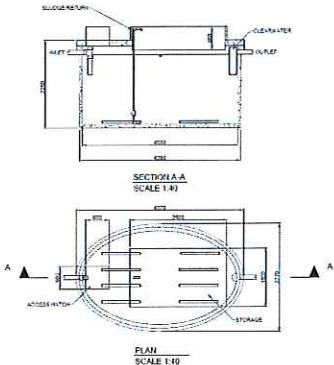
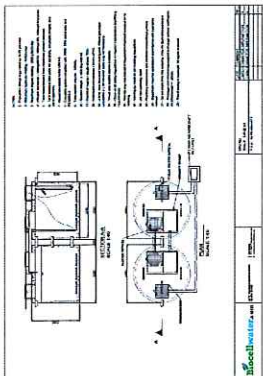
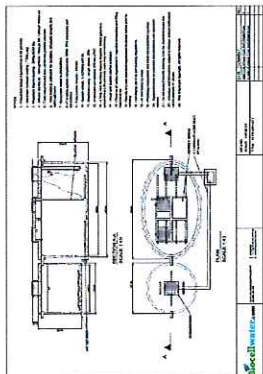
Prüfinstitut für Abwassertechnik GmbH
geprüft - tested - testé

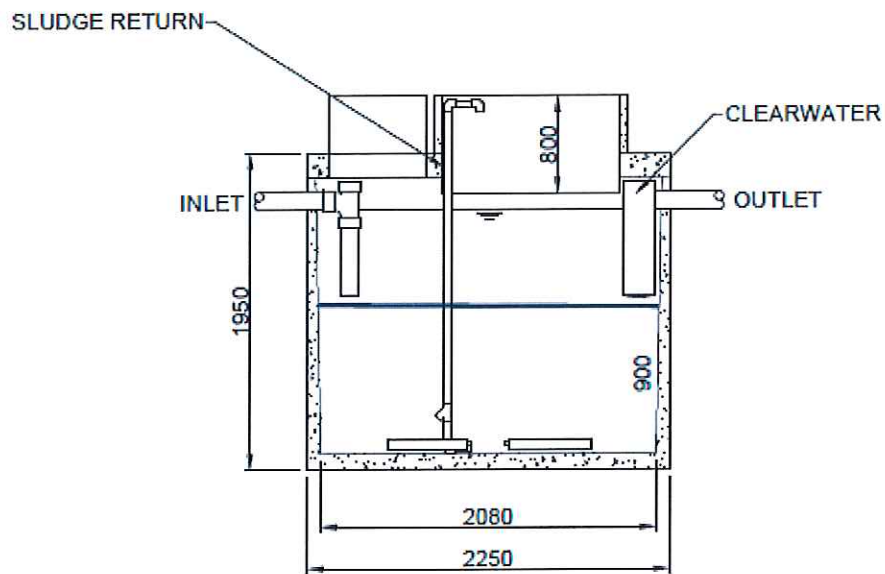
Elmar Lancé

November 2016

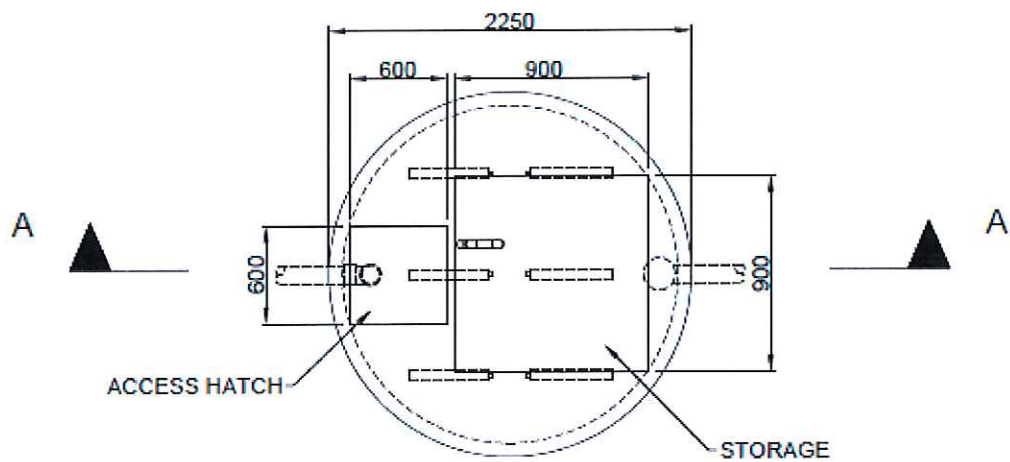
Klaermax range shared ITT and its referring test reports:

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) 5	Not relevant	Not relevant	Pass PIA2014-192B26.02 Pass	Not relevant	Not relevant
Compared Tank 5		Pass PIA2016-WD-1602-1025.01	Pass Shared itt conformity check according to S.R. 66:2015	Pass For wet ground conditions, 0.70 m installation depth from inlet invert	Pass PIA2016-DH-1602-1025.01
14		Pass PIA2016-WD-1602-1025.01	Pass Range conformity check according to S.R. 66:2015	Pass For wet ground conditions, 0.70 m installation depth from inlet invert	Pass PIA2016-DH-1602-1025.01
21		Pass PIA2016-WD-1602-1025.01	Pass Range conformity check according to S.R. 66:2015	Pass PIA2016-ST-BT-1602-1025B.01 For wet ground conditions, 0.70 m installation depth from inlet invert	Pass PIA2016-DH-1602-1025.01

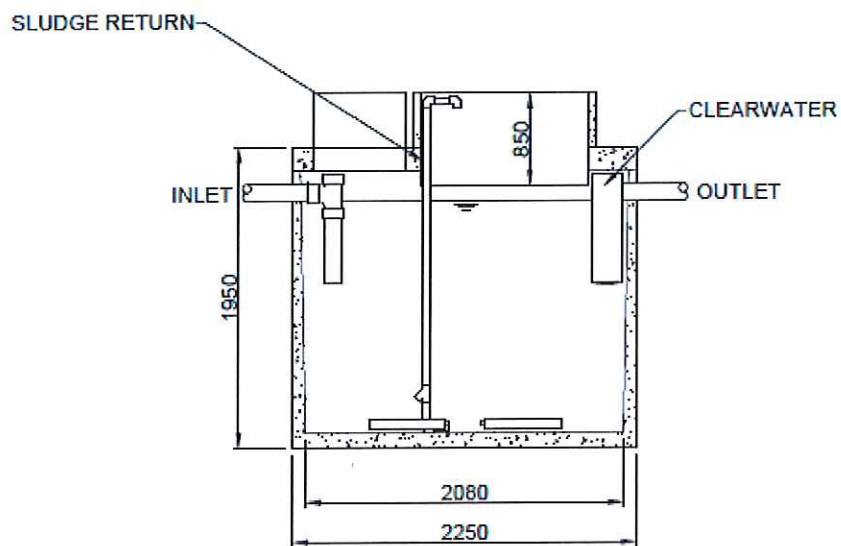
Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
36		Pass PIA2016-WD-1602-1025.01	Pass Range conformity check according to S.R. 66:2015	Pass PIA2016-ST-BT-1602-1025A.01 For wet ground conditions, 0.70 m installation depth from inlet invert	Pass PIA2016-DH-1602-1025.01
43		Pass PIA2016-WD-1602-1025.01	Pass Range conformity check according to S.R. 66:2015	Pass For wet ground conditions, 0.70 m installation depth from inlet invert	Pass PIA2016-DH-1602-1025.01
50		Pass PIA2016-WD-1602-1025.01	Pass Range conformity check according to S.R. 66:2015	Pass For wet ground conditions, 0.70 m installation depth from inlet invert	Pass PIA2016-DH-1602-1025.01



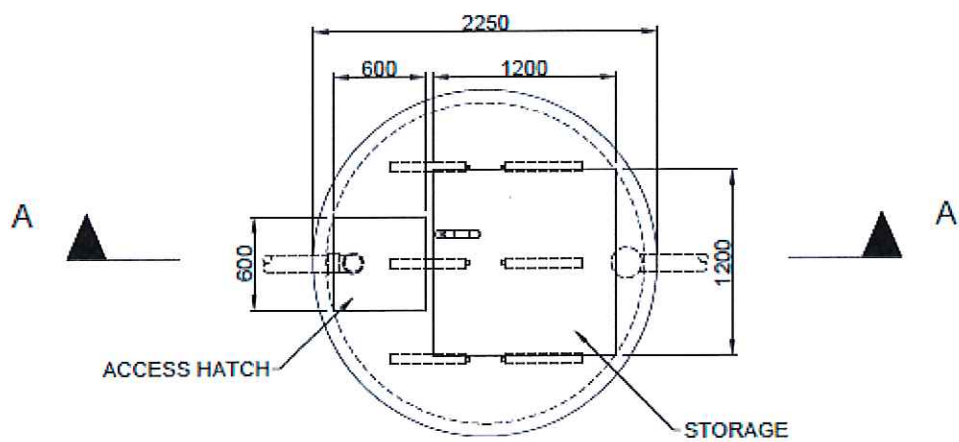
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SCALE: NTS



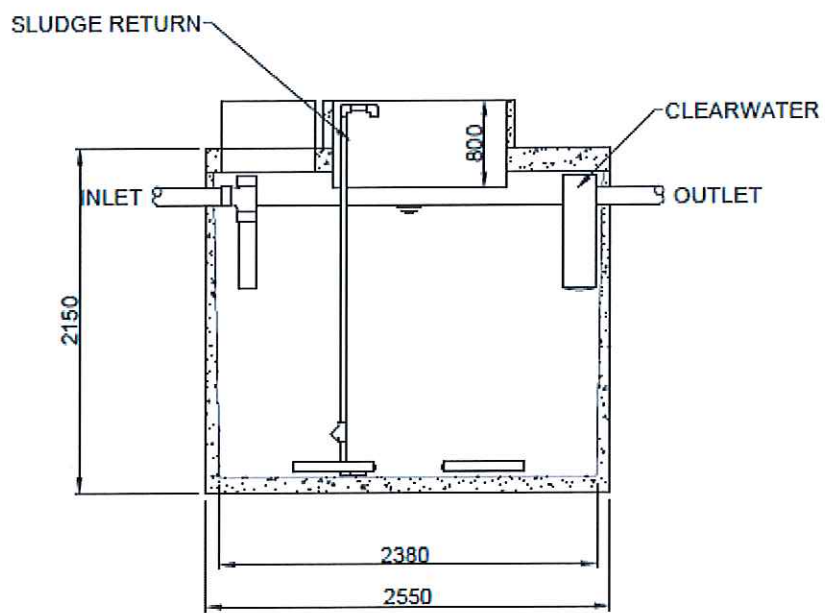
PLAN
SCALE: NTS



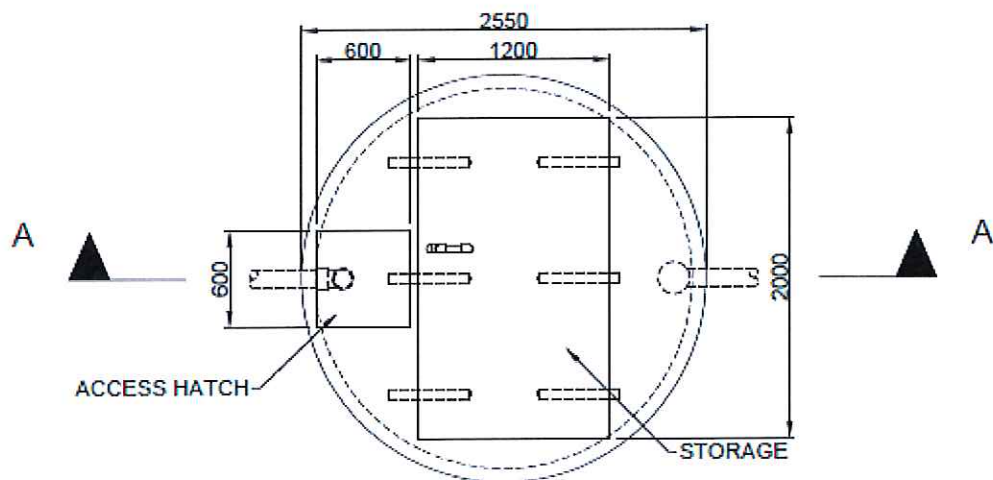
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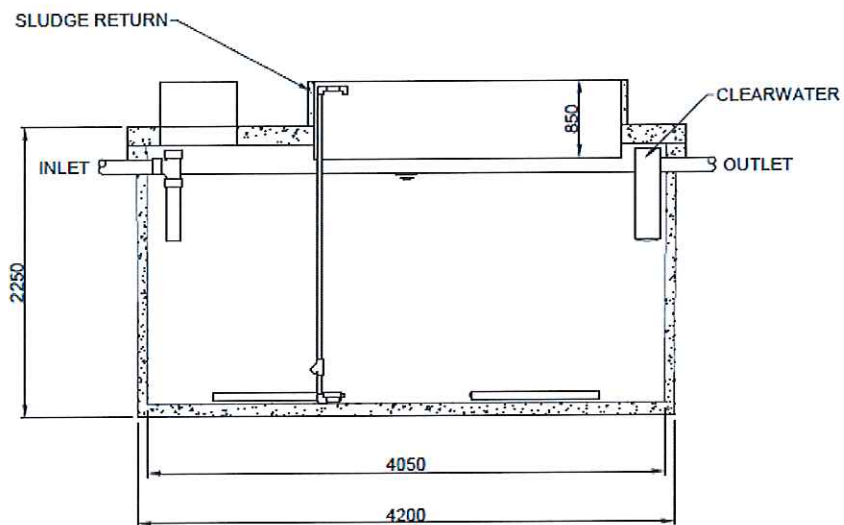
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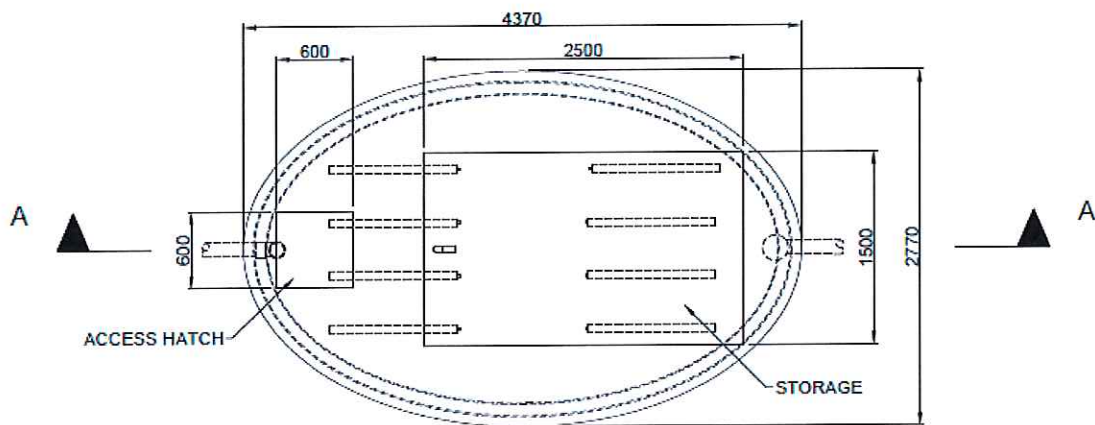
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PLAN
SCALE 1:40



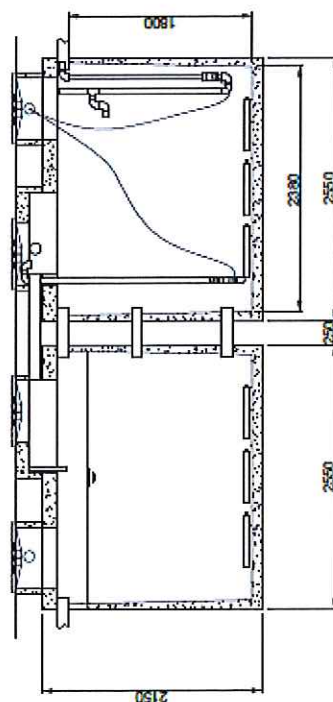
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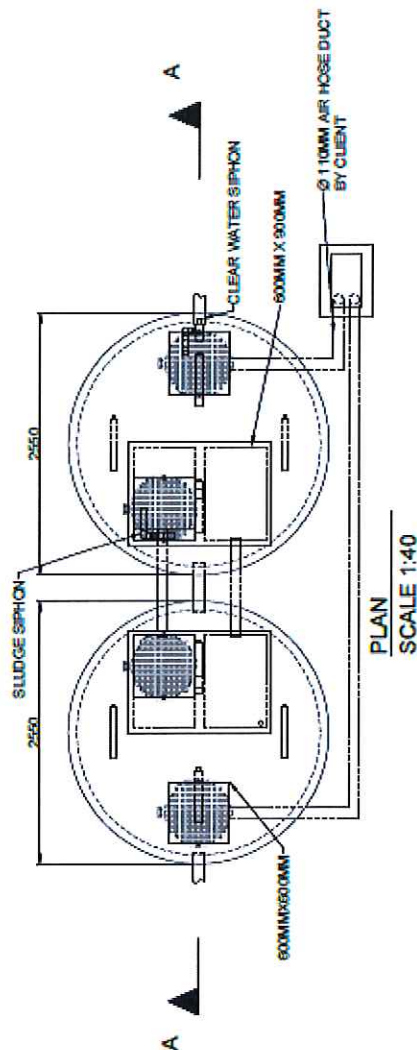
PLAN
SCALE 1:40

NOTES:

- 1 - Population design equivalent up to 43 persons
- 2 - Maximum hydraulic loading - 6450L/day
- 3 - Maximum organic loading - 2590g BOD/day
- 4 - Effluent standards - <20mg/BOD, <20mg/SS, <20mg/l Ammonia
- 5 - Tank manufactured from reinforced precast concrete.
- 6 - Tank tested to EN12566 for durability, structural integrity and watertightness.
- 7 - Equipment tested to EN12566-3.
- 8 - Complete system compliant with SR66, EPA standards and EN12566-3.
- 9 - Total system volume - 18000L
- 10 - System weight c.10000kg with lid.
- 11 - Electrical supply - single phase, 230v.
- 12 - Inlet/outlet connections 110mm uPVC
- 13 - A firm, rock free level base is required. Where ground is unsuitable a C30 concrete base may be necessary.
- 14 - Visual and audible alarms available.
- 15 - Observe all safety regulations in regard to excavation and lifting requirements.
- 16 - Specify any non standard requirements optional extras prior to ordering.
- 17 - Venting by client as per building regulations.
- 18 - All civil works by client.
- 19 - Plumbing connections and electrical connection by client.
- 20 - Equipment must be operated in accordance with operation manual.
- 21 - Do not scale from this drawing. Only for illustration purposes.
- 22 - Drawings and dimensions subject to change without notification. All dimensions in mm.
- 23 - This drawing is copyright. All rights reserved.



SECTION A-A
 SCALE 1:40



PLAN
 SCALE 1:40

	AIR TREATMENT INDUSTRIAL WASTE SR66-1609-1107	Y: 08/07/18 D: 04/08/2018 W: 04/08/2018	DRG NO. SCALE: 1:40 @ A3 TITLE: 43 PE GRAVITY	DATE	COMMENT	REV
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				01/08/18	ISSUE FOR INFORMATION	0

