

# TREATMENT PERFORMANCE RESULTS

**Harrington Concrete & Quarries**  
Cloghvoley, Kilkelly, Ireland

**EN 12566-3**

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

PIA-SR66-1704-1038

**Hydro KlENZE**

Biological aerated filter system

|  |                            |            |          |
|--|----------------------------|------------|----------|
| Nominal organic daily load               | 0.28 kg/d                  |            |          |
| Nominal hydraulic daily load             | 0.90 m <sup>3</sup> /d     |            |          |
| Material                                 | Concrete                   |            |          |
| Watertightness                           | Pass                       |            |          |
| Crushing resistance (calculation)        | Pass (also wet conditions) |            |          |
| Durability                               | Pass                       |            |          |
| Treatment efficiency (nominal sequences) |                            | Efficiency | Effluent |
|  | COD                        | 90.3 %     | 63 mg/l  |
|  | BOD <sub>5</sub>           | 95.2 %     | 14 mg/l  |
|  | NH <sub>4</sub> -N*        | 84.9 %     | 5.4 mg/l |
|  | SS                         | 93.3 %     | 21 mg/l  |
| Number of desludging                     | Not more than once         |            |          |
| Electrical consumption                   | 1.8 kWh/d                  |            |          |

\*determined for temperatures  $\geq 12^{\circ}\text{C}$  in the bioreactor

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

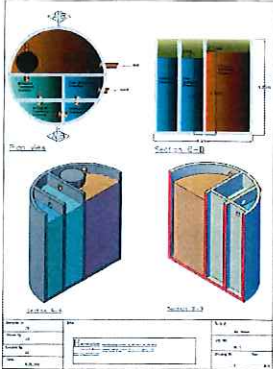


Prüfinstitut für Abwassertechnik GmbH  
*geprüft - tested - teste*

Elmar Lancé

May 2017

**Hydro Klenze 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)<br>6                        |  | Pass<br>PIA2014-211B41              | Pass<br>PIA2014-211B41                    | Pass<br>PIA2008-ST-AT0808-1058<br><br>For wet ground conditions also, installation depth 0.35 m from inlet invert | Pass<br>PIA2017-DH-1704-1038.01 |

