

**Overall Rating / Test Sonucu :****See Table / Tabloya Bakın**

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**Sessiz Boru**

	TEST	METOT	SONUÇ
*	Laboratory measurement of noise from waste water installations	BS EN 14366:2004	SEE TABLE

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.

Test results, methods and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test Request Form (PR03-F01) conveyed to us from the Applicant. Test results are valid for the sample as identified above. Sample may not represent the lot which it belongs. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of EUROLAB Laboratory. Sampling has not been done by us. Unsigned and unsealed Reports are invalid. Analysis as indicated with "\*" are in the Scope of our Accreditation Certificate issued from UAF according to TS EN ISO/IEC 17020, 17025, Analysis as indicated with "\*\*" are performed at the external laboratories using accredited test methods according to EN ISO/IEC 17020, 17025 from UAF. Possible extra notes may add with starting "N" to related pages. Tested and remaining samples will be kept in specified terms & conditions at test request and/or proposal form. Physically, chemically and microbiologically decomposed samples are discarded regardless of the storage period. Applicant can not claim any right in this regard. Results are shown in this Report do not include Measurement Uncertainty values. Measurement Uncertainty values are not taken in consideration during Pass/Fail assessment the of test results shown in this Report. Evaluation of the test results using Measurement Uncertainty values is the responsibility of the Applicant.

PR33-F01/08.10.2015/Rev:17.01.2017-R01

## Scope

This document:

- specifies methods for the measurement of airborne and structure-borne sound produced in waste water and rain water installations under laboratory conditions;
- defines the expression of the results.

## Test Method

<b>Structure-borne sound measurements (index s)</b>	The specimen is mounted outside the test room (receiving room), connected as in practice to the test wall using the fixing material specified by the manufacturer of the system. A steady flow of tap water is applied and the total sound transmitted into the test room is measured ( $L'_s$ ). The specimen is then disconnected from the test wall and the water system operated in order to measure the background noise. The values $L'_s$ are then corrected for background noise giving the values $L_s$ . These values are then normalized to an equivalent absorption area of 10 m <sup>2</sup> using the measured reverberation time $T_r$ of the receiving room giving the values $L_{sn}$ .
<b>Airborne sound measurement (index a)</b>	The specimen is mounted on a test wall inside the test room (source room). Appropriate openings in the ceiling and in the floor are provided. A steady flow of tap water is applied. The sound in the test room, produced as airborne sound radiated directly from the object but also as structure-borne sound radiated by the wall is measured ( $L'_t$ ). The water flow is stopped in order to measure the background noise. The values $L'_t$ are then corrected for background noise giving the values $L_t$ and normalized to an equivalent absorption area of 10 m <sup>2</sup> using the measured reverberation time $T_e$ of the source room giving the values $L_{tn}$ .

## Flow Rate

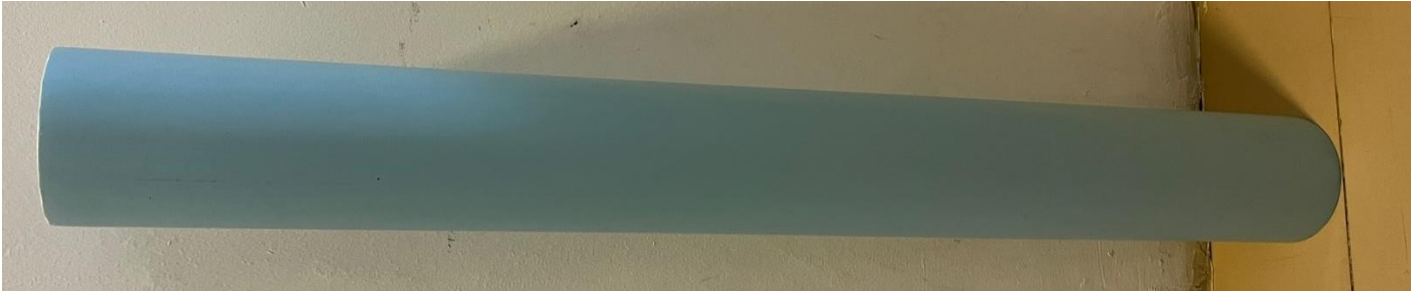
The test shall be performed at the following constant flow rates: 0,5 l/s; 1 l/s ; 2 l/s ; 4 l/s and 8 l/s, up to a limit depending on the pipe internal diameter and given in Table 1. The flow rate shall be controlled and kept within  $\pm 5\%$  of the stated value during measuring time  $T_m$ .

**Table 1 — Flow Rate Limits**

Pipe internal diameter D mm	$70 \leq D < 100$	$100 \leq D \leq 125$	$125 < D \leq 150$
Upper flow rate l/s	1	4	8

**Test Result**

Sample	Characteristics	Volume Flow Rate	Value
Sessiz Boru	Acoustic insulation – insertion loss (IL)	0,5 l/s	5 dBA
		1 l/s	9 dBA
		2 l/s	10 dBA
		3 l/s	12 dBA
		4 l/s	14 dBA

**Sample Image**

**\*\*\* End of Report \*\*\***