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Stuttgart, June 9, 2017

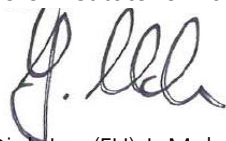
Determination of the Acoustic Performance of a Wastewater Installation System in the Laboratory according to EN 14366 and following DIN 4109; Extract from test report P-BA 222/2016

On October 25, 2016 the determination of the acoustic performance of a wastewater installation system was performed in the technical centre of the Fraunhofer Institute for Building Physics on a plastic wastewater installation system **"HT Safe DN/OD 110 x 2.7 PP-H" (manufacturer Ostendorf) with pipe clamps "BISMAT 1000" (manufacturer Walraven)**. Below measurement results are stated in extracts. Precise information about test object, test set-up and test method as well as detailed measurement results can be found in the test report P-BA 222/2016.

Result:

<u>Test specimen:</u> Plastic wastewater installation system "HT Safe DN/OD 110 x 2.7 PP-H" (manufacturer Ostendorf) with pipe clamps "BISMAT 1000" (manufacturer Walraven). In each storey (EG and UG) two pipe clamps were mounted. At the upper wall area of the installation wall one "Bismat 1000" loose clamp was installed (supporting clamp SL, DN 100). At the lower wall area of the installation wall one "Bismat 1000" double clamp consisting of supporting clamp (SL, DN 100) and fixing clamp (SX, DN 100) was installed. To prevent contact to the pipe, the loose clamps and the supporting clamps were equipped with two spacers (2 x 7.5 mm, black) on each side.	Flow rate [l/s]			
	0,5	1,0	2,0	4,0
Installation sound level $L_{AFeq,n}$ [dB(A)] following DIN 4109 in the basement test-room	UG rear			
	12	12	17	21

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