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Test report

1. Document Control

Company Name	Studor Ltd	Address	Studor House, 13 Sheridan Terrace
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Report Number:

STU-13-1-REP-Maxi Filtra-3

Document prepared by:

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Date: 22/08/2014

Document reviewed by:

Frank lapozzuto BEng (Mech) PROVE Authorised Signatory Date: 22/08/2014

Issue Date	Release Number	Description
01/11/2013	1	Initial issue
01/11/2013	2	Release 2 supersedes initial report. Amended typographical errors.
22/08/2014	3	Release 3 supersedes previous releases.

2. General

Test Item:	Odour control filter
Standard tested to:	ATS 5200.483:2012
Sample(s) selected by:	Studor Ltd
Sample(s) delivered by:	Courier
Mode of delivery:	Courier
Date Received:	25/09/2013

3. Referenced documents

The following documents have been referenced for testing and reporting.

Standard	Standard Name
ATS 5200.483:2012	Technical Specification for plumbing and drainage products. Part 483: Odour control filter

4. Specimens Description

Sample ID	Sample description		Specifications		
PROVE Sample ID: Maxi-Filtra	Brand: Model: Code:	Studor Maxi-Filtra odour control filter Maxi-Filtra	Material: Size: Inlet connection:	ABS with rubber connection Activated carbon filter DN80 / DN100 DN80 or DN100 DWV pipe to AS/NZS 1260	

Three samples of filter cartridges were supplied, labelled by Studor as, 2001, 2013 and 2016





Figure 4.2 – Maxi-Filtra assembly (cap removed)



Figure 4.3 – Activated carbon filter

All results of testing in this report relate only to the items tested, and listed above.

5. Performance Requirements – ATS 5200.483:2012

Section 9 of ATS 5200.483:2012 – Performance requirements and test methods

Test Reference	est Reference Standard: Clause 9.1 of ATS 5200.483:2012 – Airflow capacity				
Test Method St	tandard:	Appendix B of ATS 5200.483:2012			
Date of Test:		30/09/2013			
Test Officer:		Terry Nguyen			
Sample ID	Requirement		Result	Conformity to Clause 9.1 of ATS 5200.483:2012	
Sample 2016	When tested in accordance with Appendix B, the airflow capacity of the vent filter shall not deviate from the manufacturer's data by more than $\pm 10\%$		Measured flow rate is within 10% of manufacturer's claimed data Refer to Figures 5.1, 5.2 and 5.3 below	Conforms	



Figure 5.1 – Performance curve of filter (Raw data from positive and negative pressures tests)



Figure 5.2 – Performance curve of filter (Average)



Figure 5.3 – Performance curve of filter (Comparison against manufacturer's claim)

Test Reference Standard:		Clause 9.2 of ATS 5200.483:2012 – Odour reduction (H ₂ S removal)				
Test Method Standard:		Appendix C of ATS 5200.483:2012				
Date of Test:		18/10/2013 – 20/10/2013				
Test Officer:		Terry Nguyen				
Sample ID		Requirement		sult	Conformity to Clause 9.2 of ATS 5200.483:2012	
	When teste Appendix (demonstra 75% in hyd	ed in accordance with C, the filter assembly shall te a reduction of at least frogen sulphide gas.	Hydrogen sulph measured with	nide gas filter in place		
Sample 2013	The concentration of gas is measured both with and without the filter media present to determine the reduction of odorous gas.					
	Samples are taken at intervals of; 5, 10, 15, 60,120 and 180 minutes		5 minutes: 10 minutes	0.0 ppm 0.0 ppm	Conforms	
	Hydrogen sulphide gas measured without filter media present = 10.0 ± 0.2 ppm at 1.0 L/m constant throughout duration of all test samples (refer to note 1)	15 minutes	0.0 ppm	Comonina		
		60 minutes	0.0 ppm			
		120 minutes	0.0 ppm			
		180 minutes	0.0 ppm			
	Inlet gas co testing pha checked to occurred.	oncentrations during use were continually ensure no deviations				
Note 1	The concentration of hydrogen sulphide gas to be used for the test given in method given in Appendix C of ATS 5200.483:2012 is undefined. PROVE used hydrogen sulphide gas at a concentration of 10 ppm throughout the test to represent likely field conditions as advised by IAPMO Oceana.					

Test Reference Standard:		Clause 9.2 of ATS 5200.483:2012 – Odour reduction (Ammonia removal)				
Test Method Standard:		Appendix C of ATS 5200.483:2012				
Date of Test:		18/10/2013 – 20/10/2013				
Test Officer:		Terry Nguyen				
Sample ID		Requirement	Result		Conformity to Clause 9.2 of ATS 5200.483:2012	
Sample 2001	RequirementWhen tested in accordance with Appendix C, the filter assembly shall demonstrate a reduction of ammonia.The concentration of gas is measured both with and without the filter media present to determine the reduction of odorous gas.Samples are taken at intervals of; 5, 10, 15, 60,120 and 180 minutes 		ResultAmmonia gas measured with filter in place5 minutes:0.0 ppm10 minutes0.0 ppm15 minutes0.0 ppm60 minutes0.0 ppm120 minutes0.0 ppm180 minutes0.0 ppm		Conforms	
Note 2	The conce C of ATS 5 ppm throug	The concentration of ammonia gas to be used for the test given in method given in Appendix C of ATS 5200.483:2012 is undefined. PROVE used ammonia gas at a concentration of 25 ppm throughout the test to represent likely field conditions as advised by IAPMO Oceana.				