

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

## Studor P.A.P.A. System

### Description of Product

This is an assessment of the Studor P.A.P.A. System which has been designed for the purpose of relieving positive pressures within a drainage soil or waste stack.

Comprising of the P.A.P.A. (Positive Air Pressure Attenuator) and Studor branded Air Admittance Valves (AAVs), the Studor P.A.P.A. System eliminates the need for the provision of anti-siphon pipework.



### Key Factors Assessed

- Health, Hygiene and Environmental
- Durability serviceability and identification

### Validity

This certificate was first issued on 16<sup>th</sup> July 2015 and is valid until 16<sup>th</sup> July 2019.

Issue Dated 10<sup>th</sup> June 2016

## Scope of Registration

The Studor P.A.P.A. System has been designed as an alternative to conventional anti-siphon pipework and is suitable for multi-storey buildings of any height.

The P.A.P.A. must be installed in conjunction with Studor branded AAVs (other valves are not permitted).

The P.A.P.A. device can be installed either vertically or horizontally internally or externally of a building with locations to be agreed with the Building Control Body at the design stage.

For Scotland purposes

The Studor P.A.P.A. (Positive Air Pressure Attenuator) System is for the use in the above ground drainage systems serving multi-storey buildings which vent freely to atmosphere and will help reduce the risks associated with positive air pressure transients to a height of 30 storeys.

The device should be installed and be subject to any required pressure tests (BS EN 12056-5:2000). NB: Not as per the BBA recommendation.

The BBA certificate indicates that air admittance valves are required for each group of sanitary appliances on each floor which help the pressure transients to be managed effectively. Only Studor air admittance valves were used in the tests. Other makes of air admittance valves may be suitable for use with this system but would require having tests carried out to prove this.

The tests and the information in the BBA certificate indicate that the minimum incoming connection to the ventilated stack is 50mm.

## Conditions of Certificate

In respects of how the system can be installed within the UK, a BBA certificate Ref 15/5224 has been issued and, except where specifically referred to in this document, the recommendations and limitations of that certification should be adhered to:

- (1) The system shall only be installed by fully trained and competent installers.
- (2) Marley Plumbing & Drainage shall provide full technical support for the design of the system and design shall only be carried out by suitably qualified and experienced persons.
- (3) The normal carcass and final testing procedures in BS 12056 are to be carried out with the P.A.P.A. and associated Studor branded AAVs installed.

Note: The system must be given time to adjust and for the air pressure to settle within any system under test.

- (4) Fire compartmentation is to be maintained in accordance with the Guidance in AD B.
- (5) The P.A.P.A. devices shall be installed in accessible locations to allow for inspection and replacement.

For Scotland purposes:

The specifications and materials referred to have been assessed in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic Technical Handbooks which came into force with effect from 1 October 2013.

Where reference is made on a plan or specification document to any Code of Practice, British or European Standard or manufacturer's instruction it shall be construed as a reference to such publication in the form in which it is in force at the date of this Registered Detail.

The materials specified shall be for purposes of this Registered Detail and should not be changed without first gaining approval so to do from Local Authority Building Standards Scotland [LABSS]. Failure to do so will invalidate the Registered Detail.

The Registered Detail shall be valid for a period of 12 months from the date of issue or until otherwise invalidated by formal notice by LABSS. The Registered Detail may be re-validated after 12 months following a request and payment of an annual renewal fee from the Registered Detail Holder.

This Registered Detail should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act 2003 enacted from 1 May 2005

This Registered Detail shall contribute to compliance with relevant Mandatory Standards specified under the Building (Scotland) Regulations 2004 as amended when read with the scope, conditions and regulations sections to this Registered Detail.

LABC and LABSS consider that, Studor P.A.P.A. System, will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;



### The Building Regulations 2010 (as amended) England & Wales

AD H Drainage & Waste Disposal (2002 ed + 2010 & separate 2013 amendments)  
Note: Also BSEN12380 - Air Admittance Valves for drainage Systems for the Studor branded AAVs where not specifically referred to in AD H.



### The Building Regulations 2010 (as amended) England

AD H Drainage & Waste Disposal (2002 ed + 2010 & separate 2013 amendments)  
Note: Also BSEN12380 - Air Admittance Valves for drainage Systems for the Studor branded AAVs where not specifically referred to in AD H.



### The Building Regulations 2010 (as amended) Wales

None presently.



### The Building (Scotland) Regulations 2004 (as amended)

Technical Handbooks Domestic and Non-Domestic

Regulation 8 Durability, Workmanship and fitness of materials  
0.8.5 Ways of establishing the fitness of materials  
Note: BBA certification provides confirmation of compliance with this standard, see section – 10 of the certificate.

Regulation 9 Building Standards applicable to construction  
Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.

Mandatory  
Standard 3.7 Wastewater Drainage  
3.7.8 Ventilation of drainage system

Mandatory  
Standard 7.1 Statement of Sustainability  
7.1.3

Note: BBA Certificate confirms that system contributes to compliance with Sections 1-6 Bronze Standard

## Non-Regulatory Information



### LABC Warranty

LABC Warranty conditionally accepts the use of Studor P.A.P.A. System when installed and used in accordance with the Scope and Conditions of this Certificate. Visit [www.labcwarranty.co.uk](http://www.labcwarranty.co.uk) for our LABC Warranty Technical Manual requirements and Warranty conditions of acceptance.

## Supporting Documentation

Report for BBA visit 25th July 2014

Heriot Watt University Drainage Research Group Best Practice Guide June 2011

Heriot Watt University Drainage Research Group Dynamic Performance Test Paper for P.A.P.A. use in building drainage (no date evident on paper)

DIN CERTCO Certificate Valid to 31st December 2018 for Studor AAV

BBA certificate reference No: 15/5224 Product Sheet 1 Dated 19<sup>th</sup> June 2015

Plumbing Testing Laboratory – Australia – Test Report No. TT2094

STUDOR Specification and literature –[www.marleypd.com](http://www.marleypd.com)

BRE Test Report No: P102977-1001 Dated 27<sup>th</sup> January 2016

BRE Test Report No: P108528-1002 Dated 10<sup>th</sup> August 2017

## Contact Information

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## RD Certificate Number: EWWS493A

### Studor P.A.P.A. System

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#### Scope of Registration

Due to space limitations, the Registered Detail certificate should be consulted for the full scope of this registration.



#### Validity

This system has been checked for compliance in accordance with English, Welsh and Scottish Building Regulations LABC Warranty also accepts its use when installed and used in accordance with the Scope and Conditions of the Registered Details Certificate and in relation to LABC Warranty's current Technical Standards.

Registration was first issued on 16/07/15 and is valid until 16/07/19 providing there are no amendments to applicable regulations.

**Issue dated** 10/06/2016

#### Further Information

For more detailed information including access to the full certificate and supporting documents please use this link <https://www.labc.co.uk/our-services/registered-details/ewws493-studor-papa-system>

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