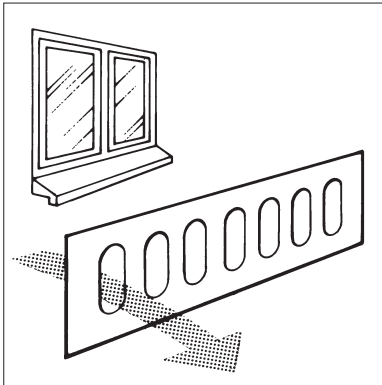


Product



- THIS CERTIFICATE RELATES TO THE GLAZPART TRICKLE VENTILATORS 2000 LETTERBOX MODULAR VENT, WINDOW VENTILATORS.
- The products are for use in new and existing windows for the provision of trickle ventilation in both domestic and commercial buildings.

This Detail Sheet must be read in conjunction with the Front Sheets, which give the product's position regarding the Building Regulations, general information relating to the products, and the Conditions of Certification, respectively.

Technical Specification

1 Description

1.1 The Glazpart Trickle Ventilators 2000 Letterbox Modular Vent ventilator (see Table 1 and Figure 1) is installed individually, or up to four units may be clipped together side by side in the top of a window frame to give the required ventilation area. The product is injection-moulded from UV stabilised PVC-U and is available in white, black or brown.

Table 1 Product range

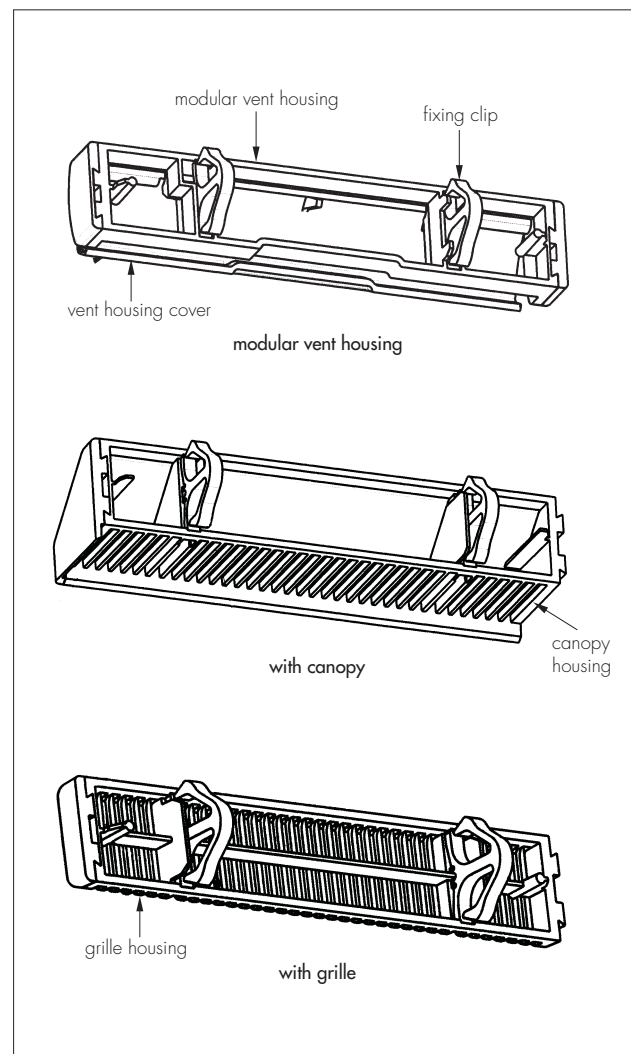
Model	Component
2000 Vent	internal vent chassis assembly, external hood with flyscreen or flat grille

1.2 The vent chassis assembly is fixed internally and includes a vent closure, adjustable to control the amount of ventilation. The vent chassis is supplied with either an external hood with flyscreen, or with a flat grille. The flat grille may be installed horizontally under a suitable self-draining overhead canopy (see section 1.3) fixed to the top exterior of a window. Each ventilator is supplied with fixing clips and end caps.

1.3 Integral moulded, self-draining overhead canopy are available if required.

1.4 All components are subject to regular inspection during production, checks include dimensions and fit. All finished products are subject to regular inspection for function.

Figure 1 2000 Vent



2 General

2.1 The products, when used in aluminium or PVC-U windows, will provide the required trickle ventilation while maintaining weathertightness.

2.2 The opening area for the ventilator is given in Table 2.

Model	Opening area (mm ²)
2000 Vent	2000

2.3 When tested in accordance with BS EN 20140-10 : 1992, and mounted in an aperture within a brick dividing wall, the ventilators showed an improvement of $D_{n,e,w}(C_{tr})$ in a range from 2 dB to 5 dB between opened and closed positions respectively. The total sound insulation achieved in practice will be dependent upon the structure within which the ventilator is located and the position of the ventilator in the structure.

3 Weathertightness

3.1 The inclusion of a trickle ventilator in a window will affect its air permeability and may affect the watertightness, two of the factors that determine the exposure category (as defined in BS 6375-1 : 2004) assigned to the window.

3.2 The products were tested for air permeability under the test conditions set out in BS 5368-1 : 1976, the results are given in Table 3. Results for three, two and one ventilators may be estimated by multiplying the results by 0.75, 0.5 and 0.25 respectively.

3.3 When considering the air permeability of a window in which the product is installed, the figures given in Table 3 should be added to the results obtained for the window alone, when tested for air permeability in accordance with BS 5368-1 : 1976 or MOAT No 1 : 1974.

Pressure (Pa)	Air leakage (m ³ h ⁻¹)	
	Four 2000 Vents side by side with:	
	Flyscreened hood	Overhead canopy flat grille under
50	1.4	1.8
100	2.8	3.1
150	2.7	5.5
200	3.3	6.5
250	3.9	7.6
300	4.7	8.7
400	6.1	11.0
500	8.0	10.5
600	9.4	12.5


3.4 The products were tested for watertightness in accordance with the test conditions set out in BS 5368-2 : 1980. The gradings, in accordance

with BS 6375-1 : 2004 and MOAT No 1 : 1974, are given in Table 4.

Table 4 Watertightness gradings — Four 2000 Vent ventilators side by side with:

	Pressure at which leakage occurred (Pa)	BS 6375-1 Test pressure class	MOAT No 1 Watertightness class
Flyscreened hood	No leakage at 600	300	E ₄
Flat grille under overhead canopy	No leakage at 600	300	E ₄

E₄ indicates no water leakage occurring at a differential pressure of 500 Pa.


 3.5 Use of the products will not affect the ability of the wall to comply with national Building Regulations:

England and Wales
Approved Document C

Scotland
Mandatory Standard 3.10

Northern Ireland
Regulation C4.

4 Durability

 The ventilators will have a life expectancy equivalent to that of the windows into which they are fitted.

Installation

5 General

5.1 Installation of the Glazpart Trickle Ventilators 2000 Letterbox Modular Vent do not present difficulties provided the installation instructions are followed.

5.2 Those windows supplied with ventilators fitted do not incorporate reinforcement in the same frame member as the ventilators. Reinforcements in the other frame members are isolated by the extrusion. When fitting ventilators to non-vented PVC-U windows it is important to determine, before drilling, whether the frame member contains reinforcement. If reinforcement is present, installation should not be attempted as the size of the slot would weaken it and corrosion could be caused by exposure to the vented air.

6 Procedure

6.1 When fitting the letterbox ventilators, 19 mm ventilation slots should be milled in the head or top rail of the sash (using the template provided), sized as per the installation instructions. The use of separate slots for each 2000 vent is recommended, ie leave 6.5 mm bridging between modules. The vent chassis assembly is snap-fitted internally over the channels using the clips provided. The flyscreened hood or flat grille is then snap-fitted externally, singly or in combination, using the clips provided. Once fitted the ventilators cannot be removed.

Technical Investigations

The following is a summary of the technical investigations carried out on the Glazpart Trickle Ventilators 2000 Letterbox Modular Vent.

7 Tests

Tests were carried out to determine:

- air permeability
- watertightness.

8 Investigations

8.1 A re-examination was made of data on which the previous Certificate was based.

8.2 Regular factory inspections have been carried out to ensure that quality is being maintained.

8.3 An examination was made of test data on sound reduction.

Bibliography

BS 5368-1 : 1976 *Methods of testing windows — Air permeability test*

BS 5368-2 : 1980 *Methods of testing windows — Watertightness test under static pressure*

BS 6375-1 : 2004 *Performance of windows and doors — Classification of weathertightness and guidance on selection and specification*

BS EN 20140-10 : 1992 *Acoustics — Measurement of sound insulation in buildings and of building elements — Laboratory measurement of room to room airborne sound insulation of small building elements*

MOAT No 1 : 1974 *Directive for the Assessment of Windows*



On behalf of the British Board of Agrément

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