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BBA BRITISH BOARD OF AGRÉMENT
TECHNICAL APPROVALS FOR CONSTRUCTION

Glazpart Limited

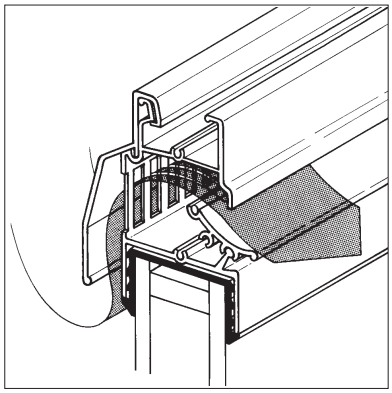
GLAZPART OVERGLAZ GLAZED-IN VENTILATORS

Certificate No 96/3217

DETAIL SHEET 3

*Second issue**

Product



- *THIS CERTIFICATE RELATES TO THE GLAZPART OVERGLAZ GLAZED-IN VENTILATORS, A RANGE OF 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

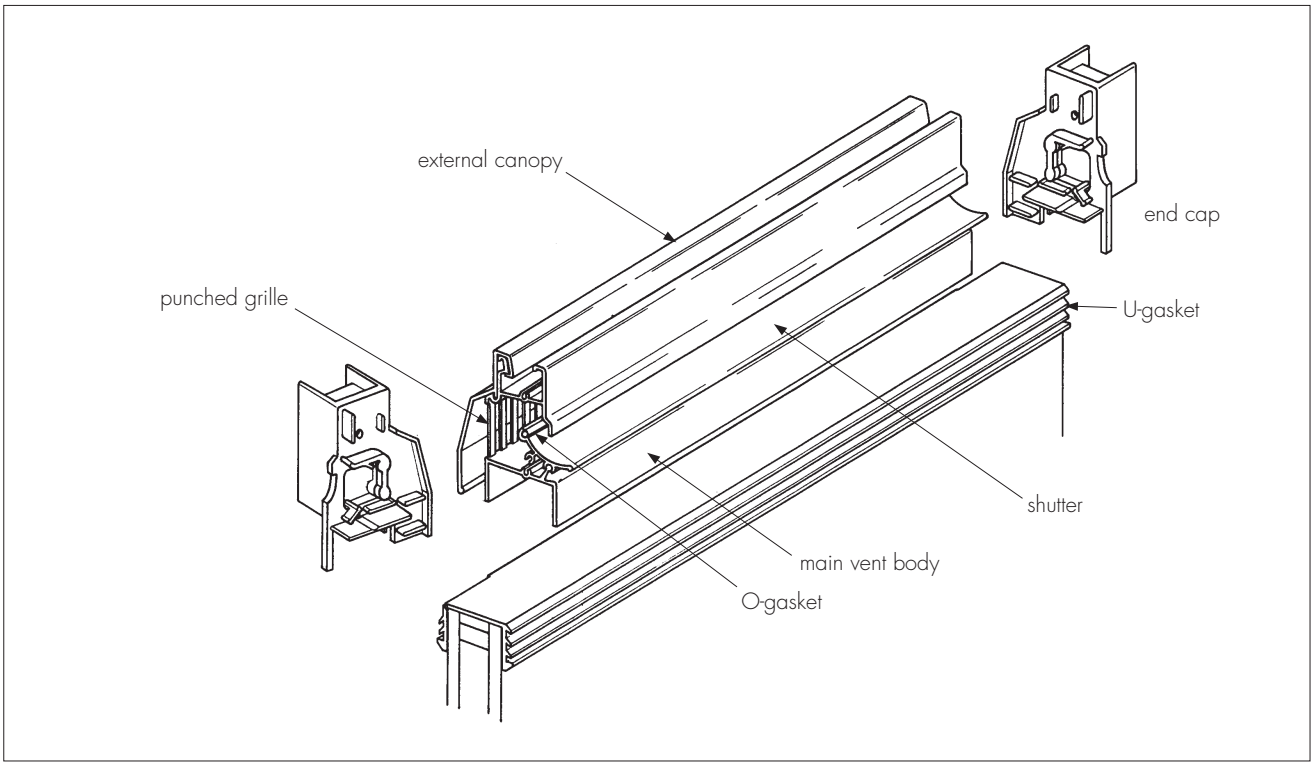
1 Description

1.1 The range of Glazpart Overglaz Glazed-In Ventilators is suitable for use on 20 mm, 24 mm and 28 mm thick, sealed glazing units (see Table 1 and Figure 1). The products are fitted above the glazing unit.

Table 1 Product range

Model vent	Glazing thickness (mm)
OGVB-20	20
OGVB-24	24
OGVB-28	28

Figure 1 Overglaz ventilator



1.2 The products are assembled from three separate aluminium sections, each with a polyester paint finish in white, brown or black. Plastic end caps are supplied in the same colours, and with screws for fixing to the main vent body. A U-gasket is also supplied.

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

2 General

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

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

Table 2 Opening areas

Model	Opening area (mm^2 per metre length)
OGVB-20	8000
OGVB-24	10000
OGVB-28	10000

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 A ventilator was tested for air permeability under the test conditions set out in BS 5368-1 : 1976, the results are given in Table 3. Results for the other lengths of ventilator may be estimated by multiplying the results by a scaling factor, the proportional difference in perimeter between the ventilators.

Table 3 Air permeability test results

Pressure (Pa)	Air leakage (m^3h^{-1})(1)
50	0.3
100	0.5
150	0.6
200	0.7
250	0.3
300	0.3
400	0.3
500	0.2
600	<0.5

(1) Ventilator length 0.87 m.

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.

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

Ventilator	Pressure at which leakage occurred (Pa)	BS 6375-1 Test pressure class	MOAT No 1 : 1974 Watertightness class
Vent — main grille	No leakage at 600	300	E_4

E_4 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 the national Building Regulations:

England and Wales

Approved Document C

Scotland

Mandatory Standard 3.10

Northern Ireland

Regulation C4.

4 Durability

The products will have a life expectancy equivalent to that of the windows into which they are fitted. During the lifetime of the products a reduction of surface gloss and fading should be expected but this will not affect the product's performance.

Installation

5 General

Installation of Glazpart Overglaz Glazed-In Ventilators do not present difficulties, provided the installation instructions are followed.

6 Procedure

6.1 To accommodate the height of the ventilator, the glazing unit over which it is to be fitted must be reduced by 50 mm. The extrusions which make up the ventilator housing unit sub-assembly are cut, in one operation, to an overall length which is 46 mm less than the width of the glazing unit onto which it will be fitted.

6.2 End caps are attached to each end of the ventilator body with the screws provided and with the shutter in the open position to allow the end springs to engage.

6.3 The U-gasket is cut and fitted over the glazing unit and the ventilator placed over. The U-gasket must be correctly located between the glass and the ventilator, particularly at the end caps. The use of silicone sealant is recommended. The finished assembly is then glazed into the window frame as for a normal full-size glazing unit.

Technical Investigations

The following is a summary of the technical investigations carried out on Glazpart Overglaz Glazed-In Ventilators.

7 Tests

Tests were carried out to determine:

- air permeability
- watertightness
- scratch
- cross-cut adhesion
- resistance to accelerated ageing
- resistance to sulphur dioxide
- coating film thickness.

8 Investigations

8.1 Existing data were examined with respect to the suitability of the plastic end caps.

8.2 The fabrication process and the assembly procedure, including the methods adopted for factory production control, were examined and found satisfactory by the BBA.

8.3 The effect of the installation of the ventilators on security against intrusion was assessed.

8.4 The durability of the ventilators, especially those components externally exposed, was assessed on the basis of the testing detailed in sections 7 and 8.1 of this Detail Sheet.

8.5 Independent data relating to air permeability and water penetration were examined.

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*

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

On behalf of the British Board of Agrément

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Chief Executive

**Original Detail Sheet issued 9th February 1996. This amended version includes reference to revised Building Regulations and Standards and an updated* Bibliography.

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