Trickle Air Ventilators
Type: Glazed-in at head of IGU
Model: Variglaze
Vent Manufacturer: Titon

Design Guidelines

Applications (at head of IGU)
- Interior glazed fixed windows
- Inswing hopper windows
- Exterior glazed fixed windows
- Outswing awning windows

Performance and Sizes
Equivalent Area (EA) is the net free vent area (square inches), and depends on the ventilator's width.
Calculation: \[ EA = \text{daylight opening width} - 3'' \times 0.21 \text{ in}^2/\text{in} \]
Example: \[ EA = [22'' - 3''] \times 0.21 \text{ in}^2/\text{in} = 3.99 \text{ in}^2 \]

Limitations
- Minimum daylight opening width: 8"
- Maximum daylight opening width: 48"
- Not available in:
  -- doors
  -- outswing casement
  -- inswing tilt & turn
- Double glazed IGU only. If project is triple-glazed in other locations, Low-E on surface #2 of triple glazed units will be maintained on surface #2 of double glazed units.
- Water penetration resistance at trickle vents is assumed to be very limited, and will not match the rating of the other windows without trickle vents. Cascadia has performed in-factory testing of an installed Variglaze trickle vent, as manufactured by Titon, to a water penetration resistance of 300 Pa (8 PSF). This pressure matched the initial performance expectation that is indicated in Titon's published product literature. Due to wear and tear, long-term performance of trickle vents may not match initial performance. Warranted in-service rating from Cascadia is for limited-water only (spray without pressure). Cascadia suggests locating trickle vents under overhangs, flashings, or in sheltered areas to the extent possible.
NOTE: THIS DETAIL IS FOR GENERAL ARRANGEMENT PURPOSES ONLY, AND DOES NOT NECESSARILY REPRESENT A DETAIL THAT IS APPROPRIATE FOR A SPECIFIC PROJECT. PRODUCTS AND ACCESSORIES PROVIDED BY CASCADIA MUST BE CONFIRMED FOR SPECIFIC PROJECTS.

UNIVERSAL SERIES FIXED
WITH IN-GLAZE TRICKLE VENT

UNIVERSAL SERIES FIXED WINDOW
IN-GLAZE TRICKLE VENT DETAIL
Variglaze is a thermally improved glazed-in aluminium ventilator that provides an Equivalent Area (EA) of 5400mm² per metre of extrusion (equal to vent length minus 78mm).

Its slim size minimises impact on window sight size. The Variglaze is available in made to measure sizes or in bar length in a variety of colours.

Suitable for:
- PVCu
- Aluminium
- Timber

*Suitability for timber windows dependent on bead fitting method and sealing. Please phone for further details.

**Features and Benefits**

- Slim size minimises impact on window sight size
- 2500mm² EA at 540mm long
- 5000mm² EA at 1005mm long
- Supplied made-to-measure or in bar length (pre painted only)
- Bar length for cutting to size by customer (pre painted only)
- Suitable for 20, 22, 24 or 28mm glass thicknesses
- Aluminium or white plastic canopy
- Dual hardness flap gasket improves weather tightness
- Minimal projection for inline patio doors
- Thermally improved
- Available in Gas Regulations version, complies with BS5440 Part 2
- Retrofit or fitted cord control unit
- When specified correctly complies with Building Regulations

All dimensions in mm

A minimum dimension of 53 (including gasket) should be considered for glass reduction. This dimension should be increased for any allowances in fitting beads, gaskets etc., or for manufacturing tolerances.
Manufactured from

Aluminium 6063 HIT T6, component parts PVCu, POM, PA6 & PP (UV Stable)

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Performance

(Full test details available on request)
Equivalent Area (EA) (mm²) – 5400 per metre of extrusion*
Free Area (mm²) – 9650 per metre of extrusion* (*extrusion length should be calculated as the overall length minus 78mm)
Air Leakage (m³/hr @ 50Pa) – 500mm overall length – 2.49
Water Resistance (Pa) – 300
Acoustic $D_{n,e,w}$ (+/-) – 500mm overall length – vent closed 48 (-1;-1), vent open 33 (0;-2)

Finishes

Suffix product code with:
-387 (white with white PVCu canopy), -020 (white with white aluminium canopy), -475 (white with black aluminium canopy)

More information

enquiries@titon.co.uk / 01206 713801

EA figures above and marked on vents are achieved when fitted to manufacturer’s recommendations. Tested in accordance with BS:EN 13141-1 (2004).

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<th>Length</th>
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Over glass