

Trickle Air Ventilators

Type: Glazed-in at head of IGU

Model: Variglaze

Vent Manufacturer: Titon



Product image owned by 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.

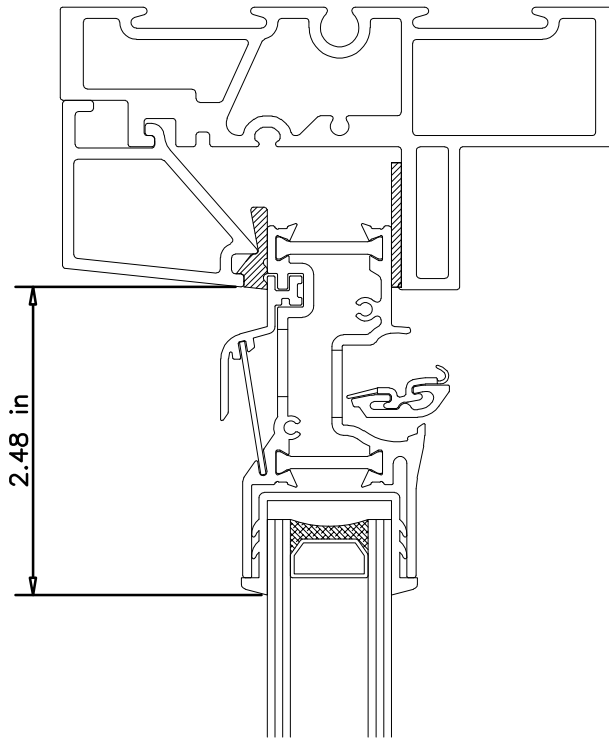
Calculation: $EA = [\text{daylight opening width} - 3"] \times 0.21 \text{ in}^2/\text{in}$

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.

SERIES: UNIVERSAL SERIES FIXED WINDOW			DRAWING NO.:
DRAWING TITLE: IN-GLAZE TRICKLE VENT DETAIL			PROJECT NO.:
ISSUE	DESCRIPTION	DATE	SCALE: N.T.S.
			DATE:
			DRAWN BY:
			CHECKED BY:



UNIVERSAL SERIES FIXED WITH IN-GLAZE TRICKLE VENT

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.



CASCADIA WINDOWS LTD.
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Variglaze

Slim thermally improved
glazed-in ventilator



Variglaze Ventilator (inside)



Variglaze Ventilator (outside)

Suitable for:

PVCu



ALUMINIUM



TIMBER



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.

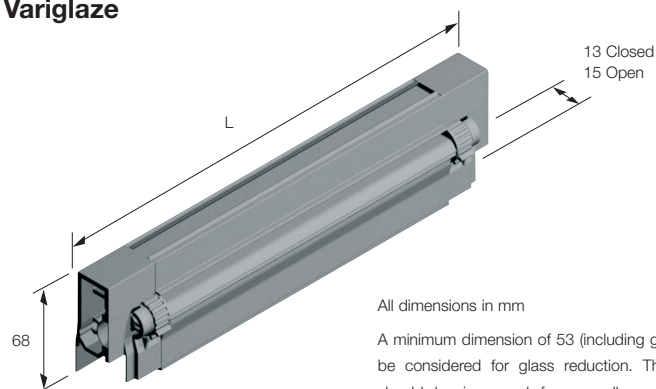


*Suitability for timber windows dependent on bead fitting method and sealing. Please phone for further details.

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

Variglaze



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.

Length	Product Code			
	20mm Glass Thickness	22mm Glass Thickness	24mm Glass Thickness	28mm Glass Thickness
178-299	GV12301	GV12351	GV12401	GV12501
300-399	GV12302	GV12352	GV12402	GV12502
400-499	GV12303	GV12353	GV12403	GV12503
500-599	GV12304	GV12354	GV12404	GV12504
600-699	GV12305	GV12355	GV12405	GV12505
700-799	GV12306	GV12356	GV12406	GV12506
800-899	GV12307	GV12357	GV12407	GV12507
900-999	GV12308	GV12358	GV12408	GV12508
1000-1199	GV12309	GV12359	GV12409	GV12509
1200-1500	GV12310	GV12360	GV12410	GV12510

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

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)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

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)

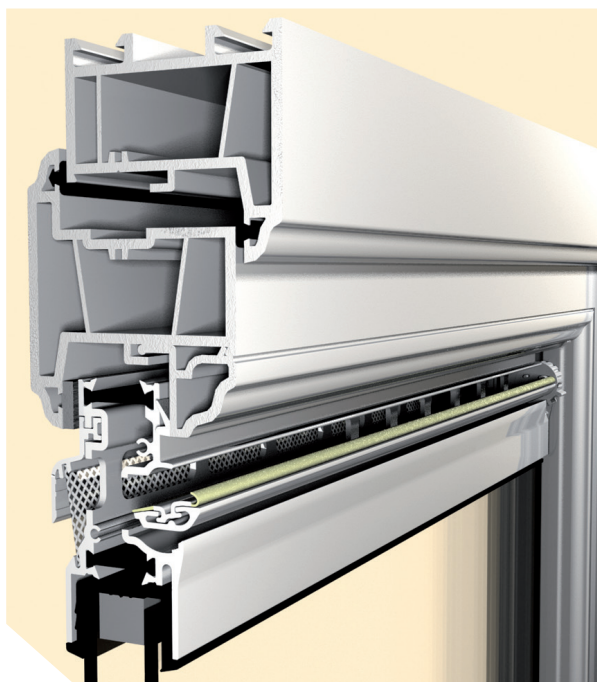
Finishes

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



Over glass