specification sheet

*TC45*

window ventilation – adjustable supply

manufacturer

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series

thermally broken

window ventilation

for installation on glass

types

*TC45* for glass thickness 20 mm

*TC45* for glass thickness 24 mm

*TC45* for glass thickness 28 mm

description

The TC45 is a simple yet efficient thermally broken window ventilator for glazed-in installation with an excellent price/quality ratio.

Inside there is a perforated aluminium frame with perforations of 2,9 × 17,2 mm that both enables the supply of fresh air and functions as an insect mesh.

The curved exterior profile ensures a good wind and watertightness of the TC45.

The exterior profile and the interior control flap are integrated in a uPVC-profile that functions as a thermal break.

The curved control flap can be controlled manually (completely open/ completely closed and three intermediate positions). It is also possible to control the TC45 by cord or by rod (can be installed later).

The plastic end caps are put at both ends of the profiles. These end caps enclose both the exterior and interior profile which adds to the structural strength of the window ventilator. In order to guide the cord of the cord control, a little whole has been integrated in the end caps.

The TC45 has been designed for glazed-in installation (for glass thicknesses of 20, 24 and 28 mm). We recommend the use of a glazing gasket RENSON® nr.049 (20-28 mm) between the TC45 and the glazing. The TC45 can also be installed at transom using additional at transom profiles.

The following finishes are possible: satin anodized (E6/EV1-SAA) , poweder coated in any RAL or Syntha Pulvin® colour (dual color also possible).

Material & finish

Interior and exterior profile: aluminium AlMgSi 0.5

finish: Satin anodised (E6/EV1-SAA) or powder coated in all possible RAL-colours (dual colour also possible)

thermal bridge: uPVC

End caps: ASA polymer type Luran® S (colour-fast, weather- and UV-resistant)

Colour end caps: white or black, other colours available upon request

dimensions

Glass reduction: 45 mm

Height: 60 mm (80 mm when installed at transom)

Glazing profile: 26 / 30 / 34 mm

Glass thickness: 20 / 24 / 28 mm

control options

Manually, 5 positions

Chord, 5 positions

Rod, 5 positions

technical specifications

TC45

Airflow:

* Q at 1 Pa: 29,5 m³/h/m
* Q bij 2 Pa: 41,4 m³/h/m
* Equivalent area: 10435 mm²/m

Sound-reduction Dn,e,w (C;Ctr):

* Open: 27 (0;0) dB
* Closed: 37 (-1;-2) dB

Self-regulation class: non-self-regulating

U-value: 4,1 W/m²K

f-value: 0,24

watertightness up to: 650 Pa (in closed postion)

watertightness up to: n.p.d Pa (in open position)

Airflow in closed position at 50 Pa: <15% (air leakage)

standards

This product has been made according to, complies with and/or has been tested according to:

EN ISO 140-10

EN ISO 717-1

EN 1026

EN 1027

EN 12020-2

EN AW 6063 T66

NBN D50-001

EN 10077-2

DIN 16491