

Designo R5 - Product card

Smoke and heat extraction roof window



Benefits in a nutshell

- + the window is equipped with laminated safety glass (VSG) and pre-installed thermal insulation (WD block) with the vapour barrier film
- with electronic opening via a chain motor at the top, the window opens automatically in the event of a fire to allow better heat and smoke extractionion
- + certified in accordance with the EN 12101-2 European standard
- thermal insulation (WD block) gives even 15% better energy balance of the roof window, optimal temperature in the house, lower heating and air-conditioning costs and airtight combination of the window with vapour barriers of the roof
- + 3 protective layers of the timber securing from the destructive influence of the sun and humidity
- + third security grade (timber) and the highest fifth security grade (PVC) protecting from hits from outside are proof of unique durability and safety of you and your family
- no visible screws in the roof window covering ensure outstanding airtightness of the roof window and at the same time the aesthetic external appearance
- modern shape of the roof window covering guarantees harmonious integration of the window with the roof attractive colour of the roof window covering (anthracite metallic is the perfect composition with every kind of the roofing, ensuringarchitects more flexibility and ease of designing

| + Designo R5 |
|--|
| + smoke and heat extraction window |
| For aerodynamic smoke ventilation, system is certified for roof pitches between 20-45°. For geometric smoke ventilation, system is certified for roof pitches between 20-65°. |
| convenient handle at the bottom of the sash |
| PVC Timber |
| + electric |
| U_W = 1,3 thermal insulation (WD block) with better energy balance of the roof window |
| pre-installed assembly brackets and the roof window covering pre-installed thermal insulation (WD block) with the vapour barrier film |
| 4 locking points 3 protective layers of the timber third security grade (timber) and the highest fifth security grade (PVC) post-installation setting of the window |
| can be successfully used in heated premises, thanks to the same insulation parameters insulation properties of standard roof windows Due to the function of the smoke and heat extraction system a combination with such as roller shutters or blinds is not possible |
| no visible screws in the roof window covering modern shape of the roof window covering attractive colour of the roof window covering – anthracite-metallic |
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Technical data

| Window | Glazing | Thermal transmittance of glazing (Ug) (Ug - DIN EN 673) | Thermal transmittance of window (Uw) (UW - DIN EN ISO 10077, DIN EN ISO 12567-2) | Solar factor (g value) (g - in % DIN EN 410) | Acoustic performan- ce in dB (R _{wp} - C; C _w) EN ISO 10140-2, EN ISO 717-1) | Air permeability (DIN EN 12207) |
|----------------------------------|---------------|---|--|---|---|------------------------------------|
| R5 <mark>8</mark> _ xxx/xxx K2RW | 2fach-Comfort | 1,10 | 1,3 | 51 | 38 (-2;-5) dB | 4 |
| R58_ xxx/xxx H2RW | 2fach-Comfort | 1,10 | 1,3 | 51 | 37 (-1;-5) dB | 2 |

Window dimensions

| Window size | 065/140 | 094/140 | 114/118 | 114/140 |
|--|----------|-----------|-----------|-----------|
| External frame dimension (mm) | 650/1400 | 940/1400 | 1140/1180 | 1140/1400 |
| External frame with insulation block dimension (mm) | 710/1460 | 1000/1460 | 1200/1240 | 1200/1460 |
| Internal frame dimension (mm) | 574/1324 | 864/1324 | 1064/1104 | 1064/1324 |
| External sash dimension (mm) | 566/1315 | 856/1315 | 1056/1095 | 1056/1315 |
| Daylight/sash aperture (mm) | 492/1240 | 782/1240 | 982/1020 | 982/1240 |
| Window inner lining clearance (mm) | 590/1340 | 880/1340 | 1080/1120 | 1080/1340 |
| Pane surface (daylight area) (m2) | 0,61 | 0,97 | 1,0 | 1,22 |
| Geometric free area (Av, m2) | 0,76 | 1,14 | 1,17 | 1,41 |
| Aerodynamic free area (Aa, m2) | ≥ 0,28 | ≥ 0,50* | ≥ 0,61* | ≥ 0,62* |
| Opening width of ventilation position (mm) | ≤ 468 | ≤ 500 | ≤ 500 | ≤ 500 |
| Opening width in the event of fire (mm) | 468 | 865 | 865 | 865 |
| Opening angle (degrees) | 21 | 38 | 46 | 38 |
| Minimum distance between top edge of roof window and roof ridge (mm) | 650 | 800 | 800 | 800 |

* The installation of the wind deflectors is necessary to achieve the values.

Cross Section A-A



Cross Section B-B

