Product information
VELUX Dormer

Product description
- VELUX Dormer is part of VELUX new product range, Space Makers
- The dazzling alternative to an ordinary dormer. It can transform any attic into a spacious, bright and airy room
- 4 or 6 VELUX roof windows installed side by side and over/under each other
- Windows are lifted max 600 mm out of the roof
- Available for profiled roofing materials
- Insulated kerb elements
- Delivered as a complete kit, with flashing elements and all other components
- All components made to measure, no manual adaptation
- A safe and secure solution that meets all professional demands for tightness and quality

Roof pitch
- Can be installed in roof pitches between 35° and 70°

Materials
- Roof construction OSB boards with polyurethane insulation
- Top, middle and bottom trimmers in laminated pinewood
- Underfelt collar BFX in three-layer diffusion open polypropylene, drainage gutter included
- Frame insulation collar BDX
- Flashing parts EDW in lacquered aluminium with foam gasket and flexible apron
- Maintenance-free exterior covers in lacquered aluminium

Downloads
For installation instructions, CAD drawings, 3D BIM objects, 3D GDL objects etc, please visit velux.bg.

Certifications
- The VELUX product factories guarantee quality systems implementation process and environmental management systems through appropriate accreditations ISO 9001 and ISO 14001
- EUTR In compliance with the EU Timber Regulation (EUTR), EU regulation 995/2010
- REACH We are aware of the REACH regulation and acknowledge the obligations. No products are obliged to be registered in accordance to REACH and none of our products contain any Substances of Very High Concern.
Available sizes

<table>
<thead>
<tr>
<th></th>
<th>472 mm</th>
<th>550 mm</th>
<th>660 mm</th>
<th>780 mm</th>
<th>942 mm</th>
<th>1140 mm</th>
<th>1340 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>778 mm</td>
<td></td>
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<tr>
<td>978 mm</td>
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<tr>
<td>1178 mm</td>
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<tr>
<td>1378 mm</td>
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<td>1578 mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>G--MK06</th>
<th>G--PK06</th>
<th>G--SK06</th>
</tr>
</thead>
<tbody>
<tr>
<td>778 mm</td>
<td>(0.59)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>978 mm</td>
<td></td>
<td>(0.75)</td>
<td></td>
</tr>
<tr>
<td>1178 mm</td>
<td></td>
<td></td>
<td>(0.95)</td>
</tr>
</tbody>
</table>

( ) = Effective daylight area, m², for each roof window in the combination.

Product combinations

<table>
<thead>
<tr>
<th>Window size</th>
<th>Window combinations</th>
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</thead>
<tbody>
<tr>
<td>MK06</td>
<td>2x2 roof windows</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>2x3 roof windows</td>
</tr>
<tr>
<td>PK06</td>
<td>2x2 roof windows</td>
</tr>
<tr>
<td>SK06</td>
<td>2x2 roof windows</td>
</tr>
</tbody>
</table>

All standard VELUX roof windows (including the VELUX INTEGRA® range) in the above sizes can be used for the VELUX Dormer.

Roof windows with white interior finish (white painted wooden windows or white polyurethane windows) are recommended as the visible wooden fascia boards (see page 4) supplied with the Dormer have a white painted finish.

The VELUX Dormer is an innovative alternative to the traditional dormer. By lifting the roof windows out of the roof, VELUX Dormer adds both extra living space and much more natural daylight than a traditional dormer.

The VELUX Dormer is available with:

- 4 or 6 roof windows respectively
- top operated centre-pivot roof windows or bottom operated top-hung roof window
- manually operated or VELUX INTEGRA® electric/solar powered roof windows
- white finish or clear lacquered pine finish (white finish is recommended)

For more information, see External product information sheet for the individual window types.

Minimum ceiling height B - depending on roof pitch A

<table>
<thead>
<tr>
<th>A</th>
<th>min. B mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>35°</td>
<td>2003</td>
</tr>
<tr>
<td>40°</td>
<td>2171</td>
</tr>
<tr>
<td>45°</td>
<td>2328</td>
</tr>
<tr>
<td>50°</td>
<td>2470</td>
</tr>
<tr>
<td>55°</td>
<td>2600</td>
</tr>
<tr>
<td>60°</td>
<td>2714</td>
</tr>
<tr>
<td>65°</td>
<td>2815</td>
</tr>
<tr>
<td>70°</td>
<td>2900</td>
</tr>
</tbody>
</table>
Technical performance of construction

### Thermal performance

The energy loss for the entire Dormer construction is a combination of the energy loss from windows, joints and kerb elements, see Figure 1 below.

![Diagram of linear heat loss in Dormer construction](image)

**Figure 1. Overview of linear heat loss in the Dormer construction and between the VELUX Dormer and the roof construction.**

<table>
<thead>
<tr>
<th>Linear heat loss $\psi$ in construction and U-value of kerb elements</th>
<th>Length or area</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\psi_{\text{ridge}}$ [W/m/K] 0.130</td>
<td>Linear heat loss for the ridge between bottom section of top window and top section of bottom window</td>
</tr>
<tr>
<td>$\psi_{\text{joint}}$ [W/m/K] -0.028</td>
<td>Linear heat loss in the side joint between two neighbouring roof windows</td>
</tr>
<tr>
<td>$\psi_{\text{kerb, 45x75}}$ [W/m/K] 0.050</td>
<td>Linear heat loss in the joint between roof window and kerb element</td>
</tr>
<tr>
<td>$\psi_{\text{kerb, 19x75}}$ [W/m/K] 0.009</td>
<td>Linear heat loss in kerb element, with 45x75 reinforcement</td>
</tr>
<tr>
<td>$\psi_{\text{kerb, 19x25}}$ [W/m/K] 0.005</td>
<td>Linear heat loss in kerb element, with 19x75 reinforcement</td>
</tr>
<tr>
<td>$\psi_{\text{dormer/roof}}$ [W/m/K] 0.145</td>
<td>Top</td>
</tr>
<tr>
<td>$\psi_{\text{kerb}}$ [W/m²/K] 0.18</td>
<td>U-value of kerb elements</td>
</tr>
</tbody>
</table>

**Resistance to fire**

NPD* *Pay attention to local requirements for distance to fire sections

**External fire**

NPD* *Pay attention to local requirements for distance to fire sections

**Reaction to fire**

Class E

**Sound insulation**

<table>
<thead>
<tr>
<th>$R_w$ [dB]</th>
<th>$R_{A, Tr}$ [dB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 dB *1</td>
<td>31 dB *2</td>
</tr>
</tbody>
</table>

Acoustic performance is based on an assumption of use of 13 mm drywall on the inside of the kerb elements

*1 When installed with insulating glass unit (IGU) variants --50, --59, --70, --70Q and --73

*2 When installed with IGU variant --54

**Strength and stability**

Structural calculations according to Eurocodes 0.1 and 5 (DS/EN 1990, 1991 and 1995 and relevant Danish annexes)

For other relevant technical values, see product descriptions for individual roof windows
Features

1. Bottom trimmer
   - laminated pinewood
   - customised, no adjustments

2. Kerb element
   - prefabricated kerb element
   - OSB board
   - 125 mm polyurethane insulation material

3. Middle trimmer
   - laminated pinewood
   - customised, no adjustments

4. Underfelt collar BFX
   - diffusion open material with pleated sides
   - drainage gutter included
   - easy and tight connection to underfelt of roof construction

5. Frame insulation collar BDX
   - shaped polyethylene in a steel frame
   - easy and effective insulation around the frame

6. VELUX flashing system
   - lacquered aluminium
   - colour: grey
   - all necessary flashing components included

7. Transverse gutter
   - lacquered aluminium
   - colour: grey
   - ensures drainage between top and bottom row of windows

8. Fascia boards
   - White painted pinewood
   - connect the side frames
   - no bearing function, only stylish finish
Cleaning and maintenance of windows and flashing

To clean the outer pane from the inside, rotate sash and secure in cleaning position with barrel bolts.

Leaves and other debris should be removed from the flashing once per year to allow rainwater to flow freely.

Exterior covers

<table>
<thead>
<tr>
<th>Material</th>
<th>NCS standard colour</th>
<th>RAL nearest standard colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lacquered aluminium (-0--) grey</td>
<td>S 7500-N</td>
<td>7043</td>
</tr>
</tbody>
</table>

Special colour requests, please contact velux.bg.

Interior window finish

| White paint | Impregnation and layers of water-based acrylic lacquer and paint, NCS standard colour: S 0500-N, nearest RAL standard colour: 9003 |

All standard VELUX roof windows can be used in a VELUX Dormer – but to match the surface of the white painted fascia boards supplied, white painted windows are recommended.

Special colour requests, please contact velux.bg.

Blinds and awnings options

Interior sunscreening
- Blackout blind
- Roller blind
- Pleated blind
- Flying pleated blind
- Double pleated energy blind
- Venetian blind
- Duo blackout blind

Exterior sunscreening
- Awning blind

Available in manual, electric and solar powered versions
- Available in manual and electric versions
- Available in manual version
The electric and solar powered versions are part of the VELUX INTEGRA® product range.

Application / order codes

VELUX Dormer with flashing components EBW is only available for profiled roofing materials with a profile height of 15–120 mm.

VELUX Dormer is available with 4 or 6 roof windows: 2x2  3x2

The following flashings are available:
- EBW MK06 2022BK kerd flashing for 2x2 windows in size MK06
- EBW MK06 2023BK kerd flashing for 3x2 windows in size MK06
- EBW PK06 2022BK kerd flashing for 2x2 windows in size PK06
- EBW SK06 2022BK kerd flashing for 2x2 windows in size SK06

Frame insulation collar BDX and underfelt collar BFX with drainage gutter are included.

Lining is not part of the VELUX Dormer but must be made on site.

Note

We reserve the right to make technical changes.

For more information on VELUX Dormer and other VELUX products, please visit velux.bg.