High wind resistant external venetian blinds with rolled edge slats E 80 A6 wind-resistant

Description

Application
For installation on high buildings or in areas exposed to wind on mullion/transom facades or conservatories, in front of the facade, in the soffit or in ventilated facades.

Operation

Motor
The slats are raised and lowered as well as tilted by actuating an operating switch.

Voltage: 230 V AC, other voltages possible
Frequency: 50 Hz, other frequencies possible
Degree of protection: IP 54
Plug connection: Hirschmann coupling
When the upper or lower limit position is reached, the drive is switched off by built-in, adjustable limit switches.
The stipulated wind limit values must not be exceeded

Construction limit values in mm

<table>
<thead>
<tr>
<th>Type</th>
<th>Maximum/minimum dimensions</th>
<th>Average weight in kg/m²&lt;sup&gt;1)&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single unit</td>
<td>Coupled unit</td>
</tr>
<tr>
<td></td>
<td>Width&lt;sup&gt;3)&lt;/sup&gt;</td>
<td>Height</td>
</tr>
<tr>
<td>E 80 A6 wind-resistant</td>
<td>600</td>
<td>3000</td>
</tr>
</tbody>
</table>

<sup>1)</sup> Cable strength: 450 N per tension cable.
<sup>2)</sup> Narrower slats may not run straight.
<sup>3)</sup> The restrictions of the maximum width and wind limit values specified in the table “Overview of wind limit values” must be observed.

Stack heights determined from external venetian blind height in mm

<table>
<thead>
<tr>
<th>Type</th>
<th>External venetian blind height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000</td>
</tr>
<tr>
<td>E 80 A6 wind-resistant</td>
<td>170</td>
</tr>
</tbody>
</table>

Stack heights determined from clear shading height in mm

<table>
<thead>
<tr>
<th>Type</th>
<th>Clear shading height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000</td>
</tr>
<tr>
<td>E 80 A6 wind-resistant</td>
<td>180</td>
</tr>
</tbody>
</table>

Overview of wind limit values in mm/max. wind speeds
Sound functioning (slat tilting, shading etc.) of the wind-stable external venetian blinds is ensured up to the wind speed limits stated in the following table.

<table>
<thead>
<tr>
<th>External venetian blind width in mm</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With additional tension cables and guide rail extension profile</td>
</tr>
<tr>
<td>up to 1300</td>
<td>22 m/s</td>
</tr>
<tr>
<td>up to 1500</td>
<td>22 m/s</td>
</tr>
<tr>
<td>up to 2000</td>
<td>20,5 m/s</td>
</tr>
<tr>
<td>up to 3000</td>
<td>18 m/s</td>
</tr>
</tbody>
</table>

The wind speeds indicated for external venetian blind type E 80 A6 wind-stable are limit values at which the blind must be retracted. The values apply for a distance between the facade and slats of ≤ 100 mm and a unit height of ≤ 3600 mm.
Wind-resistant external venetian blinds with rolled edge slats E 80 A6 wind-resistant

Description

**Top rail**
- **Material:** aluminium, extruded
- **Material thickness:** 1.5 mm
- **Dimensions (W x H):** 59 x 51 mm
- **Profile:** C-profile
- **Surface:** plain, optionally powder-coated or anodised
- **Fixing:** with plain aluminium bracket

**Tilt shaft**
- **Material:** steel, galvanised
- **Material thickness:** 1 mm
- **Dimensions (W x H):** 12 x 12 mm
- **Profile:** square tube
- **Surface:** plain

**Bearing**
- **maintenance-free, enclosed**
- **Enclosure:** plastic, contains Teflon
- **Tilting reel:** plastic
- **Tape:** plastic
- **Segment tilting to prevent self-acting adjustment of slats.**

**Slats (1)**
- **Beaded on both sides, curved**
- **Material:** aluminium, special alloy
- **Material thickness:** approx. 0.45 mm
- **Dimensions (B):** 80 mm
- **Installation:** convex
- **Surface:** corrosion-resistant enamel coating applied using special process
- **Colour:** in accordance with WAREMA colour chart for external venetian blinds

All stamped cut-outs in the slats are fitted with black protective eyelets to ensure perfect guiding of the lifting tapes (reduction of abrasion) and for fixing the webs of the tilting tape. Additional fixing of the ladder tape on a horseshoe cut-out in the outer third of the slat.

The blind moves down with the slats closed to the outside and moves up with the slats closed to the inside.

**Ladder tape/lift tape (2)**

**Ladder tapes (2.1)**
- **Heavy-duty customised design with double webs**
- **Material:** polyester, with Kevlar core
- **Colour:** black, optionally grey or white
- **Each slat is fixed to the upper web of the tilting tape and is threaded through the double webs.**

**Lift tapes (2.2)**
- **Material:** polyester, special coating
- **Colour:** black, optionally grey or white

**Lateral guide (3)**

**Rail (3.1)**
- **With inserted black sealing strips for noise attenuation**
- **Material:** aluminium, extruded
- **Dimensions (W x H):** 50 x 111 mm
- **Profile:** guide rail as C-profile with patented adapter profile for lateral fascia
- **Surface:** powder-coated, optionally anodised
- **Fixing:** with patented adapter profile
- **End cap:** plastic, black, also available in grey
- **Sealing strip:** weather-proof, UV-stable, black
- **Guiding nipple:** polyamide, glass-fibre reinforced, impact resistant and joined to slats, slats have nipples on alternate sides

**Tension cable (additional lateral guiding) (3.2)**
- **Wire strand**
- **Material:** steel, corrosion-resistant
- **Sheathing:** polyamide
- **Dimensions (Ø):** 3.3 mm
- **Colour:** black or transparent sheathing
- **Fixing:** tension cable bracket, aluminium

The cable guides are fixed with a special spring tension device to compensate for thermal changes in the length of the top rail. Cable guides run through the slats and the bottom rail. They are fixed to the window or the wall using tension cable brackets with tensioning devices on the guide rail.

**Bottom rail (4)**
- **with end caps, including weighting**
- **Material:** aluminium, extruded
- **Dimensions (W x H):** 80 x 20 mm
- **Surface:** powder-coated, optionally anodised
- **End caps:** plastic, glass fibre reinforced, black, also available in grey

With special patented tensioning system for the ladder tape to fix the slats under wind load. End caps with moveable rail guiding.

**Colours**

Aluminium parts with chrome-free pre-treatment are powder-coated according to latest RAL classic colour chart (with the exception of camouflage and luminous colours) or are available in DB 701, 702, 703 as well as eight textured colours (W4914 – W4921), four colours with simulated anodised finish (WC31 – WC 34) as well as additional colours in accordance with the WAREMA standard colour range (in WAREMA colour specification). Other colour specifications and special colours are available on demand for an additional charge.

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Description

Measuring instructions
Slat stack height from the table
Recess height = stack height + 15 mm
Cover panel height = stack height + 20 mm

Quantity of additional cable guides

<table>
<thead>
<tr>
<th>Order width</th>
<th>Cable guides</th>
</tr>
</thead>
<tbody>
<tr>
<td>under 1300 mm</td>
<td>0</td>
</tr>
<tr>
<td>1300 to 3000 mm</td>
<td>1</td>
</tr>
</tbody>
</table>

The two external cable guides are always installed and not included in the table.

Number of fixings

<table>
<thead>
<tr>
<th>Guide rail length in mm</th>
<th>up to 1400</th>
<th>1401–2400</th>
<th>2401–3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixing points</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>(for position see installation examples)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Mullion and transom facade, motor operation, combined rail and cable guide, type E 80 A6, wind-resistant, U-shaped cover panel

Installation example