

## External venetian blinds from Griesser. Metalunic®



min. 500 mm, crank drive  
min. 700 mm, motor drive  
max. 2800 mm



min. 440 mm  
max. 4000 mm



max. 6,5 m², single blind with crank drive  
max. 8 m², single blind with motor crank  
max. 16 m², connected systems with motor drive



Metalunic Sinus® is available as a MINERGIE® module in an automated version.

**All metal external venetian blind with versatile functions.**



**Built-in system**



**Front mounted system**



**Technology in detail**

- 1 Self-supporting blind system as built-in or protruding system.
- 2 Each slat is individually fastened to the mechanism on the side.
- 3 Steel lifting chain and drive chain.
- 4 Plastic sealing lip for good shading.
- 5 Stainless scissor chain.
- 6 Carriage



**No visible vertical connections.**



**Safety locking device in each position.**



**Safety sensing edge.**

## Limit dimensions

*bk* Width of construction  
(rear edge of guide rails)

Minimum

- Crank drive 500 mm
- Motor drive 700 mm

Maximum 2800 mm

Buildings and high-rise structures which are exposed to high wind should decrease this maximum value as required (see operating instructions).

*hl* Opening height

Minimum 440 mm

Maximum 4000 mm

*bk* × *hl* Maximum surface area

Single blind

- With crank drive 6.5 m<sup>2</sup>
- With motor drive 8 m<sup>2</sup>

Connected systems

(Max. system width 8.4 m)

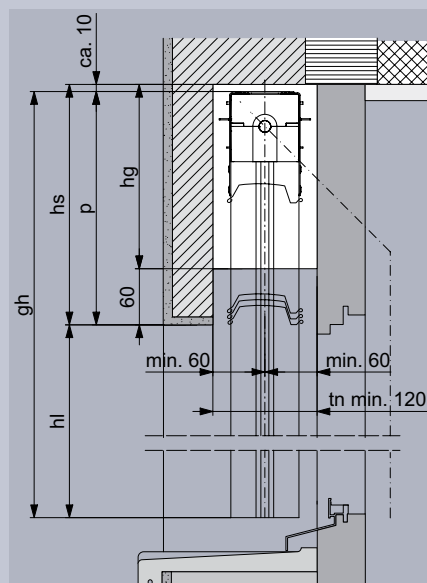
- With crank drive (max. 3 blinds)
    - 2 blinds per system 5 m<sup>2</sup>
    - 3 blinds per system 4 m<sup>2</sup>
 A max. of 2 blinds may be connected on each side of the gearbox.
  - With motor drive (max. 3 blinds) 16 m<sup>2</sup>
- For 3 or 4 blinds, the motor should be positioned in the centre.

## Header dimensions

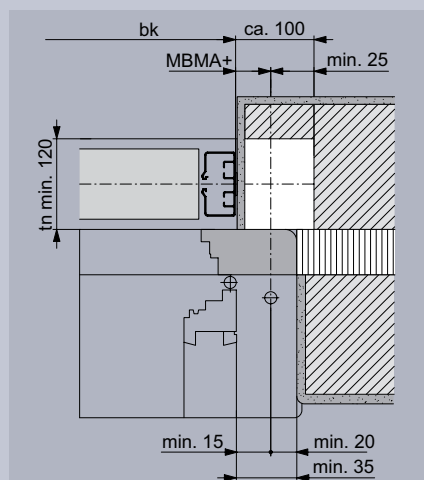
| Opening height (hl) | Header height (hs) |
|---------------------|--------------------|
| mm                  | mm                 |
| 400-1000            | 270                |
| 1001-1250           | 285                |
| 1251-1500           | 310                |
| 1501-1750           | 340                |
| 1751-2000           | 365                |
| 2001-2250           | 390                |
| 2251-2500           | 420                |
| 2501-2750           | 445                |
| 2751-3000           | 470                |
| 3001-3250           | 500                |
| 3251-3500           | 525                |
| 3501-3750           | 550                |
| 3751-4000           | 580                |

Header dimensions are approximate values which may exhibit negative or positive deviations depending on the technical circumstances.

Side elevation: Example of header

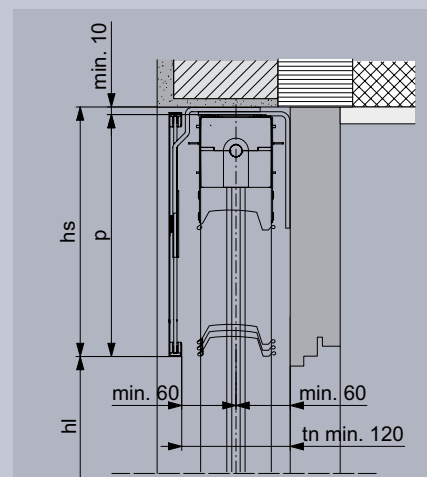


Top elevation for crank drive



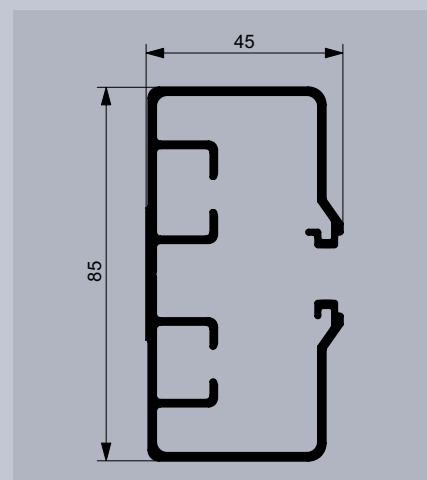
With recess (white) for gearbox (not necessary for motor drive). Depending on the angle of the gearbox output, tn min. should be increased by 5 - 10 mm in this area. MBMA+ = Dimension from rear edge of guide rails to centre of drive; depending on window construction – min. 25 mm.

Side elevation: Example of header



Depth of niche tn: 120 mm + possible addition for protruding weatherboard or doorknobs. A dimensional tolerance of ±5 mm is observed for the header height.

Guide rails



## Key

- bk** = Width of construction
- hl** = Opening height
- p** = Height of package
- gh** = Total height (hl + p)
- hs** = Header height (p + min. 10)
- hg** = Height of gearbox recess (hs - 60)
- tn** = Depth of niche

All dimensions in mm.

## Design description

### *Blind system*

All metal construction with self-supporting slats. Lifting and adjustment mechanism integrated into lateral guides. The lateral lifting mechanism operates using steel roller chains. Stainless scissor chain for slat adjustment in each blind position. Lowering position at 45° or 70°. Blinds are raised in the brightness position. Good shading function. Integrated safety locking device in each position. A standard reversing edge prevents the blind from being damaged when it encounters obstacles in motion (up to 2250 mm in height).

### *Self-supporting blind system*

The self-supporting blind design preserves the insulation in the header and reduces service costs. Sturdy guide rails, 85 x 45, made from extruded aluminum. Integrated guide rails are available on request.

### *Slats*

Robust, kink-proof profile with rolled-in sound-absorbing plastic sealing lip. Damaged slats can be replaced individually. Curved and bordered on both sides, 96 mm wide, baked enamel finish with aluminum.

### *Guide rails*

Made from extruded aluminum, 85 x 45 mm, with lifting and adjustment mechanism and sound-absorbing plastic slides on the pivot arms. Transparently anodized (baked enamel finish for an additional charge).

### *Housing*

Made from galvanized sheet steel, open at the bottom. with lifting and adjustment mechanism.

### *Solar solution*

Also available with a solar drive.

## Colors

### *GriColors*

The GriColors range includes 100 color shades in four collections, Glass & Stone, Sun & Fire, Water & Moss and Earth & Wood – from cool white and sunny red to natural blue and earthy brown.

### *BiColor*

External venetian blinds get a new color: when the outside of the slat is brightly colored, a neutral light tone on the inside can optimize the blind functions. The interior view shows the colors outside on the border edges.

The guides and end rails are transparently anodized (baked enamel finish in one color for an additional charge).

## Operating instructions

- The solar shading systems should be retracted if it is windy.
- The systems must not be operated if there is a risk of ice.
- The systems must be accessible for maintenance work.
- Observe the VSR data sheets or information in EN 13659 wind classes.

For more information about our services and products and for planning tips, go to [www.griessergroup.com](http://www.griessergroup.com).



## Your partner

Subject to change without prior notice