

## 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, 93 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.

### Use of daylight

As well as being esthetically pleasing, the sinusoidal slat allows up to 50% more daylight into the room. Thanks to the wave-shaped design of the slat, there are no sharp edges to break up the light; instead, the light is guided better to the ceiling without causing glare at low levels.

### 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.

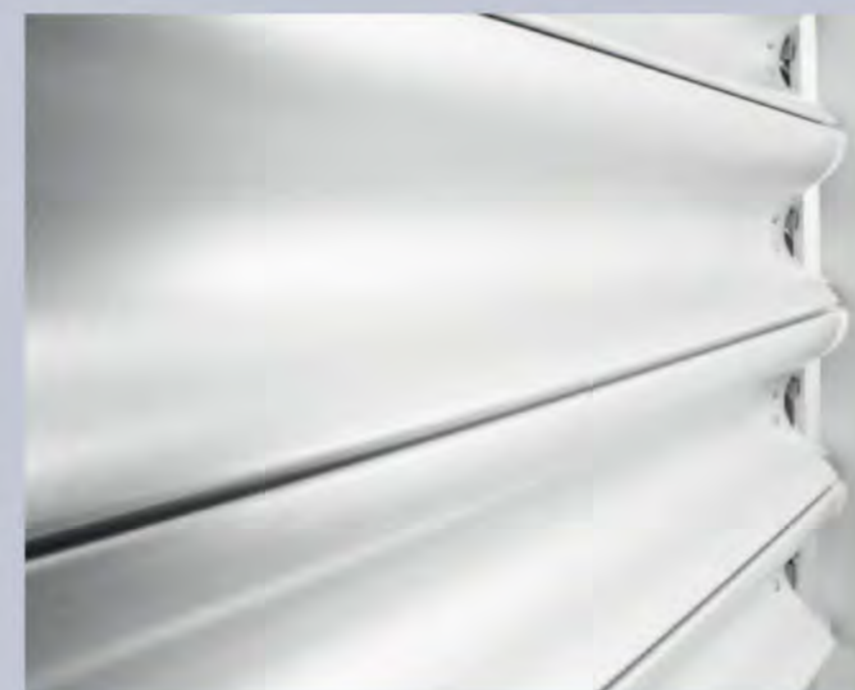
### BiColor

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.



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Paphos: 1. SKIASIS CENTRE 13 Mesoyis Avenue, 8280 Paphos

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## External venetian blinds from Griesser. Metalunic Sinus®



Energy efficiency:  
Up to 50% more use of daylight, thanks to the Sinus slat

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

↑↓ min. 440 mm  
↑↓ max. 4000 mm

↔↔ max. 6,5 m<sup>2</sup>, single blind with crank drive  
↔↔ max. 8 m<sup>2</sup>, single blind with motor drive  
↔↔ max. 16 m<sup>2</sup>, connected systems with motor drive

**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 More use of daylight thanks to the wave-shaped design of the slat.
- 3 Each slat is individually fastened to the mechanism on the side.
- 4 Steel lifting chain and drive chain.
- 5 Plastic sealing lip for good shading.
- 6 Stainless scissor chain.
- 7 Carriage



Up to 50% more use of daylight, thanks to the Sinus slat



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)

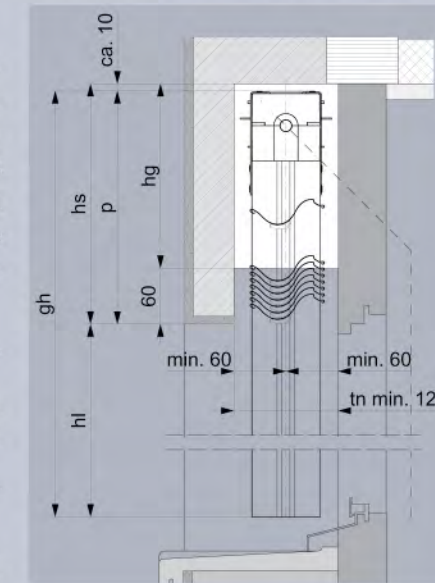
- With crank drive (max. 3 blinds)
    - 2 blinds per system 5 m<sup>2</sup>
    - 3 blinds per system 4 m<sup>2</sup>
 A max. of 2 blinds may be connected on each side of the gearbox.
  - With motor drive (max. 3 blinds) 16 m<sup>2</sup>
- For 3 or 4 blinds, the motor should be positioned in the centre.

**Header dimensions**

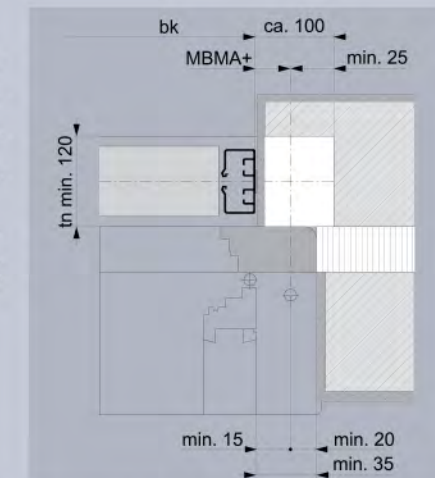
Opening height (hl)	Header height (hs)
mm	mm
400-1000	270
1001-1250	285
1251-1500	310
1501-1750	340
1751-2000	365
2001-2250	390
2251-2500	420
2501-2750	445
2751-3000	470
3001-3250	500
3251-3500	525
3501-3750	550
3751-4000	580

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

*Side elevation: Example of header*

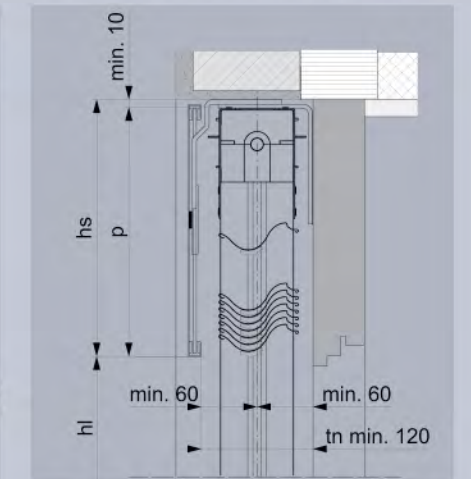


*Top elevation for crank drive*



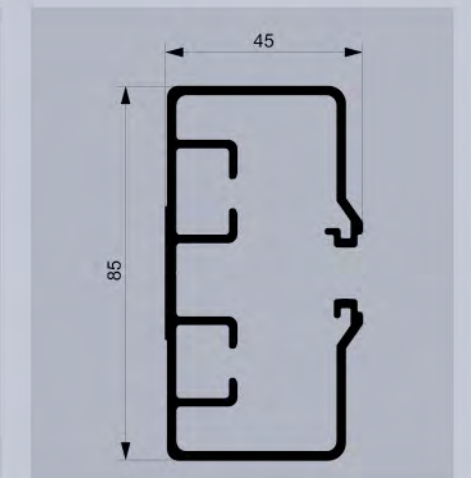
With recess (white) for gearbox (not necessary for motor drive). Depending on the angle of the gearbox output, tn min. should be increased by 5 - 10 mm in this area. MBMA+ = Dimension from rear edge of guide rails to centre of drive; depending on window construction - min. 25 mm.

*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.