

## External venetian blinds from Griesser. Aluflex®



min. 500 mm, crank drive  
min. 600 mm, motor drive  
max. 4500 mm, guide rails  
max. 5000 mm, guide cable



min. 600 mm  
max. 4500 mm

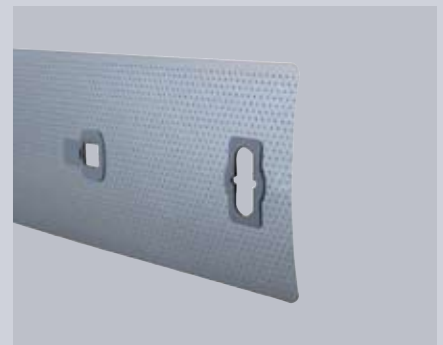


max. 11 m<sup>2</sup>, single blind, crank drive  
max. 20 m<sup>2</sup>, single blind, motor drive  
max. 24 m<sup>2</sup>, connected systems with  
motor drive

**External venetian blind with flat slats.**



**Flexible, flat slat profile.**



**Perforation: Perforated slats with the benefit of visibility from inside out (option).**



**Aluflex® Reflect: two different slat positions in one curtain (option).**



**Guide cable**



**Guide rails**

- 1 Flexible, flat slat profile.
- 2 High-quality lifting cords, with plastic coating in the press cuts to minimize wear (option).
- 3 Plastic coated stainless steel cables.  
Slats fitted with reinforced guide hole.
- 4 Tensioning bracket with helical spring (version with crank).

## Limit dimensions

### *bk* Width of construction

(rear edge of guide rails, for guide cable = length of slats)

#### Minimum

- Crank drive 500 mm
- Motor drive 600 mm

#### Maximum

- Guide rails 4500 mm
- Guide cables 5000 mm

Buildings and high-rise structures which are exposed to high wind should decrease this maximum value as required.

### *hl* Opening height

- Minimum 600 mm
- Maximum 4500 mm

### *bk* × *hl* Maximum surface area

#### Single blind

- With crank drive 11 m<sup>2</sup>
- With motor drive 20 m<sup>2</sup>

### Aluflex®: Connected systems

(Max. system width 10 m)

- With crank drive (Max. 4 blinds) 11 m<sup>2</sup>

A max. of 2 blinds may be connected on each side of the gearbox.

- With motor drive (Max. 4 blinds) 24 m<sup>2</sup>

For 3 or 4 blinds, the motor should be positioned in the center.

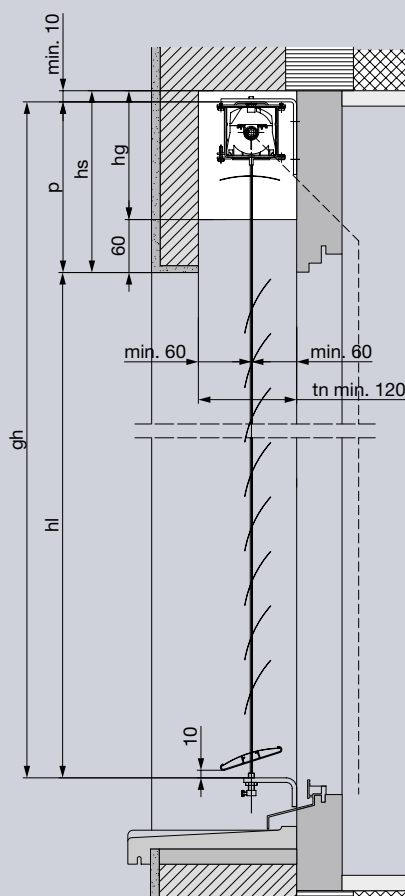
Aluflex® Box: No connected systems possible.

## Header dimensions

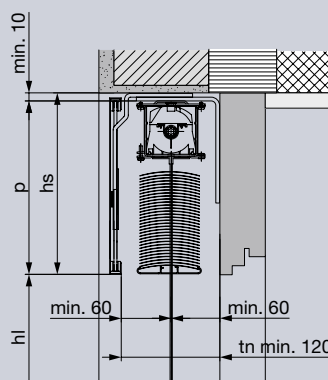
Opening height (hl)	Height of header (hs)
600-1500 mm	170 mm
1501-1750 mm	175 mm
1751-2000 mm	185 mm
2001-2250 mm	190 mm
2251-2500 mm	200 mm
2501-2750 mm	205 mm
2751-3000 mm	210 mm
3001-3250 mm	220 mm
3251-3500 mm	225 mm
3501-3750 mm	230 mm
3751-4000 mm	240 mm
4001-4250 mm	250 mm
4251-4500 mm	255 mm

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

### Side elevation: Example of header

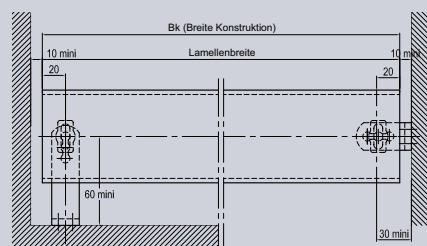


### Side elevation: Example with cover



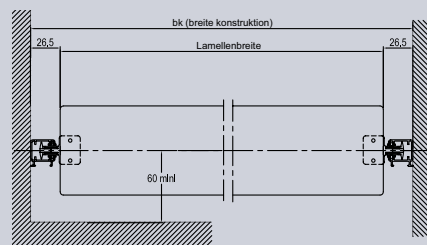
Depth of niche tn: 120 mm + possible addition for protruding weatherboard or doorknobs.

### Top elevation: guide cables



In the case of a *bk* greater than 3000 mm or in locations exposed to the wind, a cable suited to additional wind load is required.

### Top elevation: guide rails

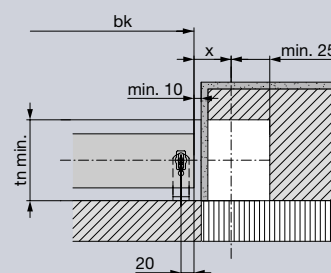


In the case of a *bk* greater than 2500 mm or in locations exposed to the wind, a cable suited to additional wind load is required.

### Top elevation for crank drive

With recess (white) for gearbox (not necessary for motor drive).

With gearbox in slat area: *hs* + 20 mm.

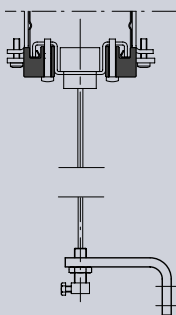


### Key

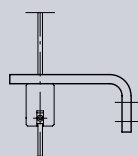
- bk** = Width of construction
- hl** = Opening height
- p** = Height of retracted unit
- gh** = Total height (*hl* + *p*)
- hs** = Height of header (*p* + min. 10)
- hg** = Height of gearbox recess (*hs* - 60)
- tn** = Depth of niche

All dimensions are in mm.

*Guide cables*

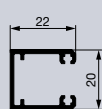


Version with motor

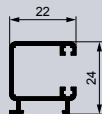


Version with crank

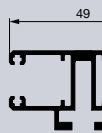
*Guide rails*



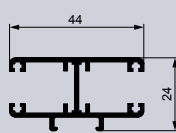
Type E



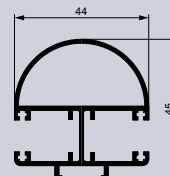
Type C



Type D



Type T



Type R

**Options**

*Aluflex® Box*

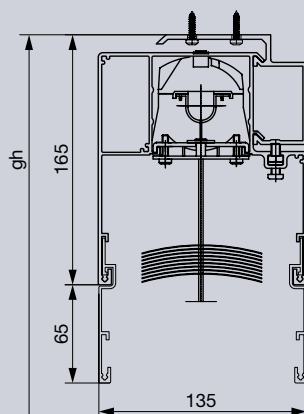
Box made from extruded aluminum, transparently anodized (baked enamel finish as an option), square or round, depending on style with extension of 65 mm.

Total height (gh)	Box version
700 - 2000 mm	Standard box
2001 - 4800 mm	Box with extension

In the case of a total height (gh) greater than 3800 mm, the slat package is not entirely covered.



*Side elevation: Example of square box*



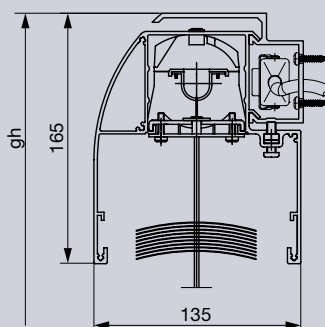
*Perforated slats*

The visibility through perforated slats offers the benefit of being inside and being able to see outside despite the blinds being lowered. We recommend using these slats in the lower zone.

*Aluflex® Reflect*

The Aluflex® Reflect offers two different slat positions in one. The lower blind zone protects against unwanted glare on computer screens. The upper zone diverts light into the interior of the room and thereby ensures comfort and ambiance.

*Side elevation: Example of round box*



**Aluflex® Reflect (option)**

In a modern, computerized work place, protection from glare and heat are of the utmost importance. But losing natural light and the ability to see outside are sacrifices most offices cannot make. Aluflex® Reflect implements a two zone system with perforated slats in the low zone, and the correctly angled slats in the upper zone. Natural light is put to good use, visibility is preserved, and glare is prevented, all with one product.

*Glare protection*

Closed slats in the lower zone provide glare protection. The difference in brightness in the field of vision is thereby reduced to the recommended value (field of vision/screen max. 3/1).

*Use of daylight*

The upper zone with open slats allows daylight to be used.

The diagram shows the recommended arrangement for a window with parapets. Clarification is required for the glare protection zone in windows between floors, as is illustrated in the example below.

*Example of window with parapet*

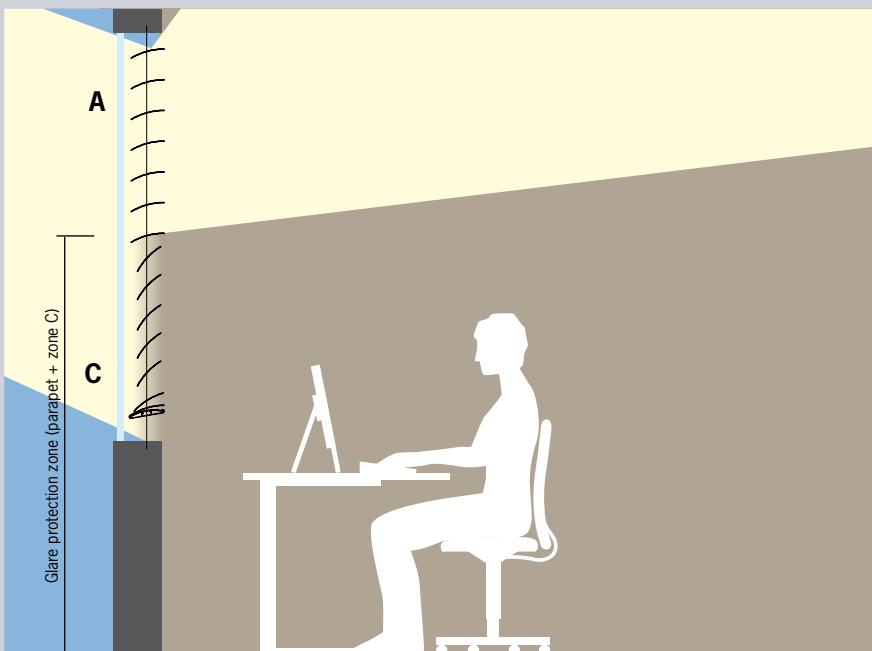
Window with hl	2100 mm
Parapet	800 mm
Zone C (1/3)	700 mm
Height of glare protection (Parapet + zone C)	1500 mm

*Example of window between floors*

Window with hl	2700 mm
No parapet	
Zone C (1/3)	900 mm
Height of glare protection (Only zone C)	900 mm

The height of glare protection for the window between floors is clearly too low. Clarification is required for the optimum glare protection zone.

**Aluflex® Reflect with two zones**



Optimum use of daylight at a modern, computerized work place with Aluflex® Reflect, divided into two zones.

## Design description

### *Blind system*

External venetian blinds with flat slats with each individual slat directly fastened to the adjusting cords (gray). Lifting cords (gray) with edge and UV protection. Curtain starts to move with slats closed; the slat position can be adjusted between closed and open at every height.

### *Slats*

Flat, flexible slat profile without edge border, 80 mm wide, baked enamel finish with aluminum.

End rail made from extruded aluminum, transparently anodized (baked enamel finish as an option).

### *Guide cables*

Stainless steel cables, encased with plastic, ø 3 mm. Slats fitted with reinforced openings (gray) to minimize wear. In the case of a bk greater than 3000 mm or in locations exposed to the wind, a cable suited to additional wind load is required.

### *Guide rails*

Made from extruded aluminum, with weatherproof noise insulation inserts, transparently anodized (baked enamel finish as an option).

### *Housing*

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

## Colors

### *Basic*

VSR 140/RAL 9006 (aluminum).

### *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 (option)*

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 (as an option).

The guides and end rails are transparently anodized (baked enamel finish in one color as an option).

## 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.

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



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