



External Blinds - Aluflex®



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.



min. 500mm, crank drive
min. 625mm, motor drive
max. 4500mm, guide rails
max. 5000mm, guide cable



min. 550mm
max. 4500mm



max. 11m², single blind, crank drive
max. 20m², single blind, motor drive
max. 24m², connected systems with motor drive



TECHNICAL SPECIFICATIONS & FEATURES



External venetian blind with flat slats.

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



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

Limit dimensions

bk Width of construction
(rear edge of guide rails for guide cable=length of slats)

Minimum	
- Crank drive	550mm
- Motor drive	625mm
Maximum	
- Guide rails	4500mm
- Guide cables	5000mm

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

hl Opening height	
Minimum	550mm
Maximum	4500mm

bk x hl Maximum surface area	
Single blind	
- With crank drive	11m ²
- With motor drive	20m ²

Aluflex® :Connected systems
(Max. system width 10m)
- With crank drive
(Max. 4 blinds) 11m²
A maximum of 2 blinds may be connected on each side of the gearbox.
- With motor drive
(Max. 4 blinds) 24m²
For 3 or 4 blinds, the motor should be positioned in the center.

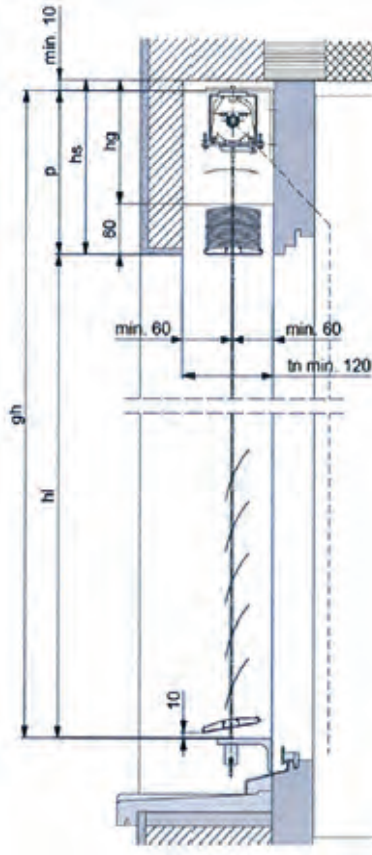
Aluflex® Box: No connected systems possible.

Header dimensions

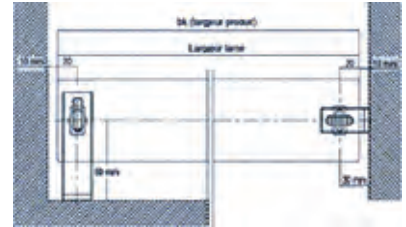
hl - opening height	hs - header height
mm	mm
550-1500	170
1501-1750	175
1751-2000	185
2001-2250	190
2251-2500	200
2501-2750	205
2751-3000	210
3001-3250	220
3251-3500	225
3501-3750	230
3751-4000	240
4001-4250	250
4251-4500	255

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

Side elevation: Example of header

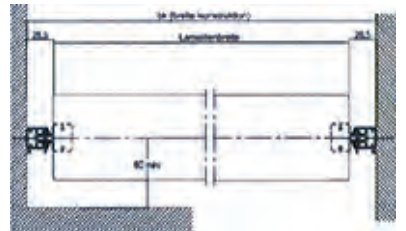


Top elevation: guide cables



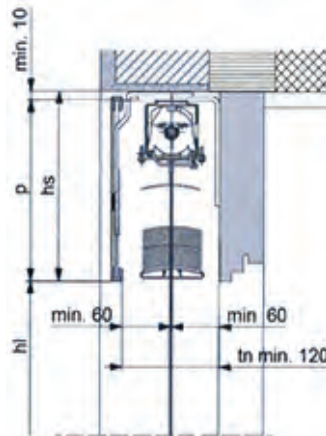
In the case of a bk greater than 3000mm or in locations exposed to the wind, a cable suited to additional wind load is required.

Top elevation: guide rails



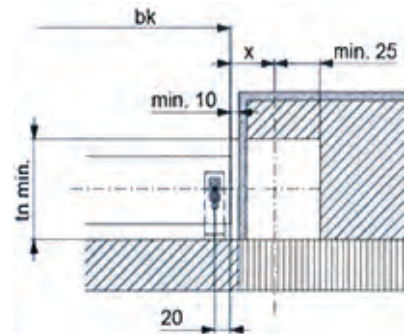
In the case of a bk greater than 2500mm or in locations exposed to the wind, a cable suited to additional wind load is required.

Side elevation: Example with cover



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

Top elevation for crank drive
With recess (white) for gearbox (not necessary for motor drive).
With gearbox in slat area:
hs+20mm.



Key

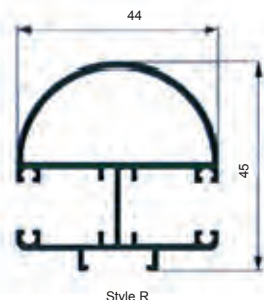
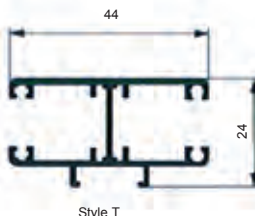
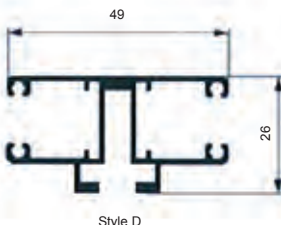
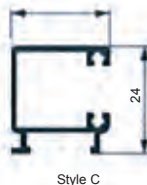
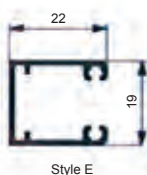
- bk** = width of construction
- hl** = opening height
- p** = height of package
- gh** = total height (hl + p)
- hs** = header height (p + min.10)
- hg** = height of gearbox recess(hs - 60)
- tn** = depth of niche

All dimensions in mm.

Guide cables



Guide rails



Total height (gh)	Version Box
700-1800	Box standard with extension
1801-4800*	Box with second extension

*In the case of a total height (gh) greater than 4101mm, the slat package is not entirely covered.

Options

Aluflex® Box

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

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

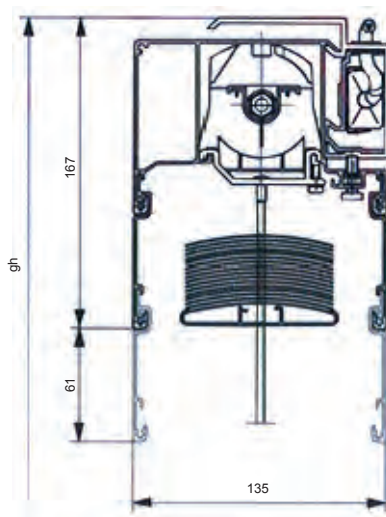
The Aluflex® Reflect offers two different slat positions in one. The lower blind zone protects against unwanted glare on computer screens. The upper zone diverts light into the interior of the room and thereby ensures comfort and ambiance.

Open slat lowering position (Operating position)

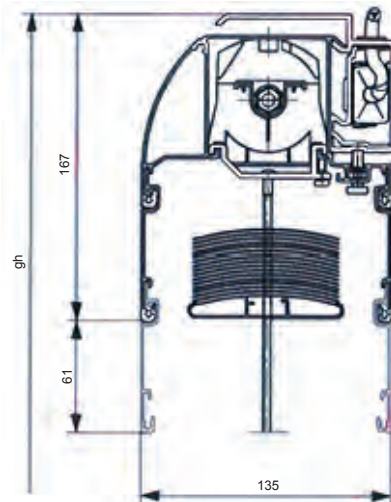
The shade produced when lowering the blinds is often annoying - particularly in the work place. The slat lowering position of around 48 degrees prevents the room from getting dark when the blind is lowered.
(available from spring 2010)



Side elevation: Example of square box



Side elevation: Example of round box



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, 80mm wide, baked enamel finish with aluminum.

End rail made from extruded aluminum, transparently anodized (baked enamel finish for an additional charge).

Guide cables

Steel cables, encased with plastic $\varnothing 3,3\text{mm}$. Slats fitted with reinforced openings (gray) to minimize wear. In the case of a bk greater than 3000mm or in locations exposed to the wind, a cable suited to additional wind load is required.

Guide rails

Made from extruded aluminium, with weather proof noise insulation inserts, transparently anodized (baked enamel finish for an additional charge).

Housing

Made from 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 earthly 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 (for an additional charge). 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.

For more information about our services and products and for planning tips, go to www.griessergroup.com



Aluflex® Reflect Options

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.

Aluflex® Reflect with two zones

Example of window with parapet

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

Example of window between floors

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

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



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