



External Blinds - Lamisol®



This is our Number 1 product of external blinds. Two louvers widths make this system suitable for a great variety of applications. Lifting and louver support bands are arranged directly behind each other giving it an aesthetically perfect appearance. The adjusting mechanism for the working position of 48° is optional. This prevents excessive darkening when lowering the blinds. As a further option we offer a self-supporting insulation-protecting and service-friendly blind design: Its name is **Lamisol Fix**.

- **Two louver widths**
- **Working position (option)**
- **Perforated louvers (option)**
- **Lamisol Fix (option)**



min. 510mm, crank drive
min. 590mm, motor drive
max. 4500mm



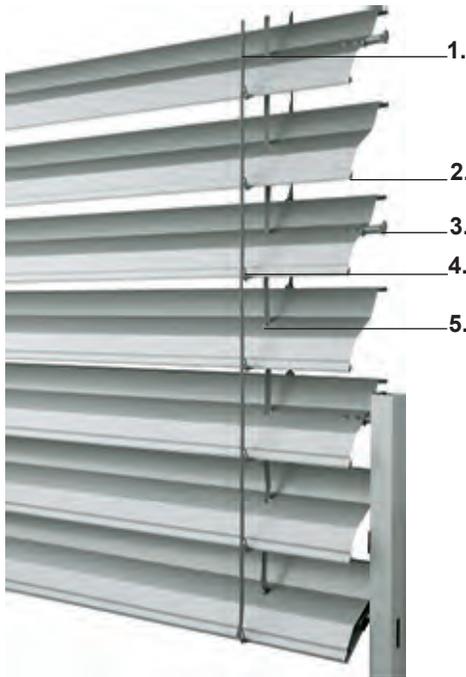
min. 400mm
max. 4300mm



max. 8m², single blind, crank drive
max. 10m², single blind, motor drive
max. 24m², connected systems with motor drive

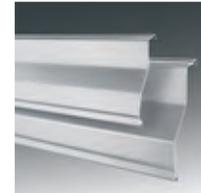


TECHNICAL SPECIFICATIONS & FEATURES



External venetian blind with profile slats for working and living areas with good use of daylight.

1. Yellow Kevlar fibers ensure low stretch and shrinkage levels - the slat end remains in optimum condition for years.
2. Sealing lip for good shading - reduces wind noises.
3. The well thought-out shape of the guide pin reduces wind noises when closed.
4. Connecting hooks made from stainless steel.
5. Low wear of lifting cords thanks to the border on the press cuts.



Two different slat widths: Lamisol® 90 (93mm) or Lamisol® 70 (69mm).



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



Lamisol® Reflect: Two (Lamisol® 70) or three (Lamisol® 90) different slat positions in one curtain (option)



Operating position: The open slat lowering position prevents the room getting dark when the blind is lowered (option).

Limit dimensions

bk Width of construction (rear edge guide rails)

Minimum	
- Crank drive	510mm
- Motor drive	590mm
Maximum	4500mm

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

hl Opening height

Minimum	400mm
Maximum	4300mm

bk x hl – Maximum surface area

Single blind	
- With crank drive	8m ²
- With motor drive	10m ²

Connected systems (Max. system width 10m)

- With crank drive (max. 4 blinds)	8m ²
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A max. of 2 blinds may be connected on each side of the gearbox.

- With motor drive	
2 blinds	16m ²
3-4 blinds	24m ²

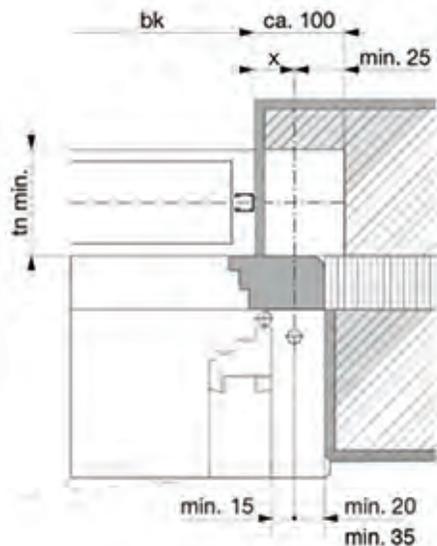
For 3 or 4 blinds, the motor should be positioned in the center.

Top elevation for crank drive

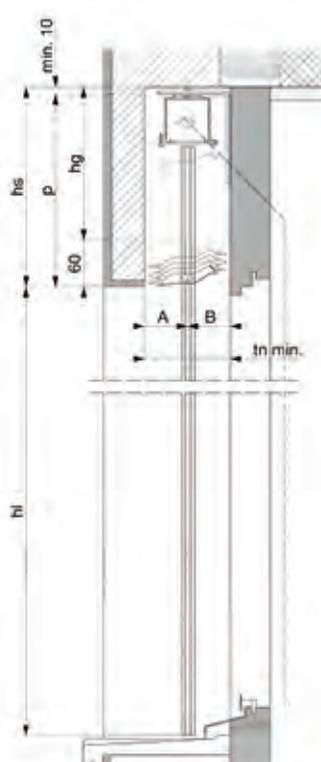
With recess (white) for gearbox (not necessary for motor drive).

x = Dimension from rear edge of guide rails to center of drive; depending on window construction – no specification. With gearing in slat area: $hs + 20mm$.

A dimensional tolerance of $\pm 5mm$ is observed for the header height.



Slide elevation: Example of header

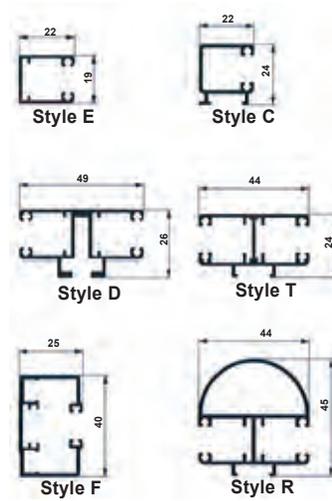
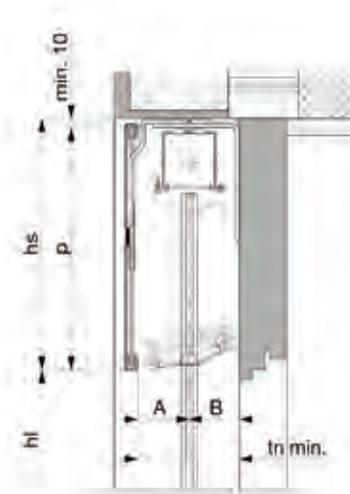


Header dimensions

Side elevation: Example with cover

Guide rails

hl - opening height	hs - header height	
	Lamisol®	
mm	90	70
400-1750	mm	mm
1751-2000	225	235
2001-2250	235	250
2251-2500	250	265
2501-2750	260	285
2751-3000	275	300
3001-3250	290	315
3251-3500	305	330
3501-3750	320	350
3751-4000	330	365
4001-4250	350	385
	360	400



Depth of niche

	tn	A	B
Lamisol® 90	min.130*	65	65
Lamisol® 70	min.100*	50	50

*+ any allowance for protruding weatherboard or doorknobs.

Double guide rail

Key

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

Lamisol® Reflect system +5mm.

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

Options

Two slat widths

Lamisol® 90 meets the current installation standard for new buildings. Lamisol® 70 is oriented towards the narrow installation situations encountered in renovations and retro-fitting.

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.

Operating position (open slat lowering 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.

Lamisol® Reflect

The Lamisol® Reflect system offers two (Lamisol® 70) or three (Lamisol® 90) different slat positions in one. The lower blind zone protects against unwanted glare on computer screens. The middle zone creates diffused, pleasant daylight. And the upper zone diverts light into the interior of the room and thereby ensures comfort and ambiance.

Lamisol® Fix

The Lamisol® Fix self-supporting blind design preserves the insulation in the header and reduces service costs. A width of up to 2000mm requires no fastening for the housing - the insulation remains intact and noise transfer is reduced. The stable guide rails (40x25mm) feature service openings.



Lamisol® 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. Lamisol Reflect implements a three zone system with perforated slats in the lowest zone, and the correctly angled slats in the upper zones. 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 there by 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 is windows between floors, as is illustrated in the example below.

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 Lamisol® 90 Reflect, divided into two zones.



Design description

Blind system

Composite technology with each individual slat directly fastened to the adjusting cords. Connecting hooks made from stainless steel. Adjusting cords (gray) with Kevlar reinforcement (against shrinkage and stretching). Lifting cords (gray) with edge and UV protection. Slat function: Adjustable at every height.

Slats

Robust and rigid profile with roller - in sound - absorbing plastic sealing lip - good shading. Alternating guide pin made from polyamide (noise-insulating design). Slats bordered on both sides, 92mm or 69mm wide, baked enamel finish with aluminium. End rail made from extruded aluminum, transparently anodized (baked enamel finish for an additional charge).

Guide rails

Made from extruded aluminum, with weatherproof 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

GriColors

The GriColor 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)

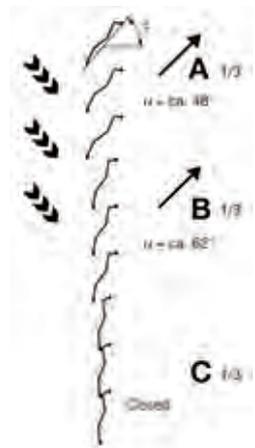
External venetian blinds get a new color; when the outside of the slat is brightly colored, a neutral light tone on the inside can optimize the blind functions (for an additional charge). The interior view shows the colors outside on the border edges. The guides and end rails are transparently anodized (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.

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

Lamisol® 90 Reflect with 3 zones



Lamisol® 70 Reflect with 2 zones

