GRIESSER

External venetian blinds from Griesser.
Grinotex Sinus®

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

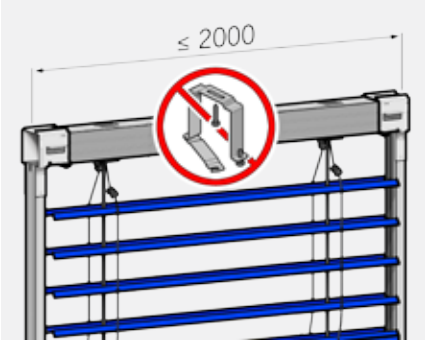
WIDTH
min. 600 mm, crank drive
min. 800 mm, gearbox in slat area
min. 760 mm, motor drive
min. 825 mm with operating position
max. 4000 mm

HEIGHT
min. 380 mm
max. 4250 mm

SURFACE AREA
max. 8 m^2, single blind
max. 24 m^2, connected systems with motor drive

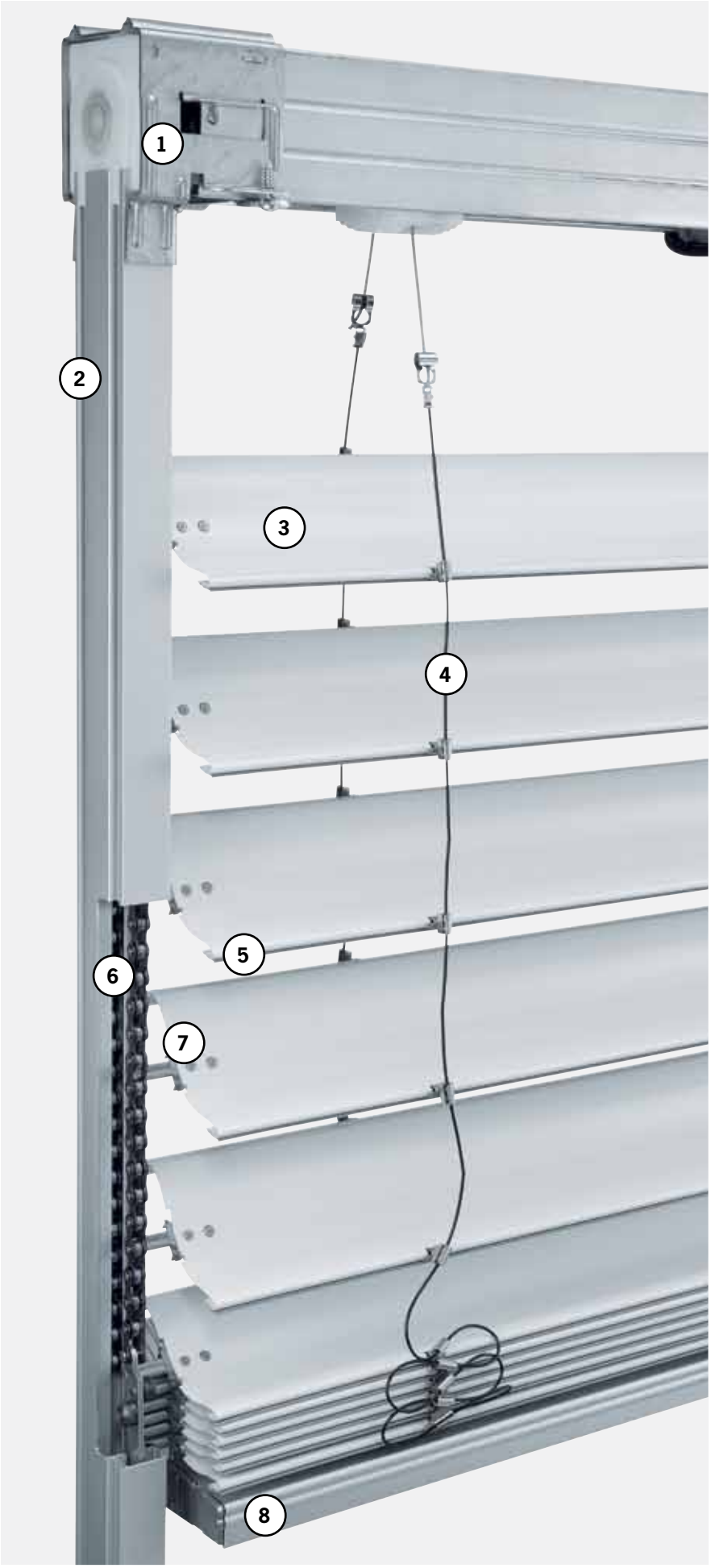
TECHNOLOGY IN DETAIL

1 Self-supporting blind system as built-in or protruding system.
2 Guide rail with integrated lifting mechanism.
3 More use of daylight thanks to the waveshaped design of de slat.
4 Slat support connection: stainless steel wire cable coated with UV-stable plastic.
5 Plastic sealing lip.
6 Lifting chain and drive chain made from steel.
7 Guide pin at all slat ends.
8 Robust end rail made from extruded aluminum.



Self-supporting, no extra fasteners – easy on the insulation and simple to mount.

EXTERNAL VENETIAN BLIND WITH METAL JOINTS FOR DURABILITY



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

Safety locking device in each position.

Safety sensing edge.

Operating position (option)

LIMIT DIMENSIONS

bk Width of construction (rear edge of guide rails)

Minimum	
crank drive	600
gearbox in slat area	800
motor drive	760
operating position	825
Maximum	4000

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	380
Maximum	4250

bk × hl Maximum surface area

Single blind	
with Crank drive	8 m²
with Motor drive	8 m²
Connected systems (Max. system width 10 m)	
with crank drive	
2 blinds	8 m²
3 blinds (max.)	6.5 m²
In the case of 3 connected blinds, the drive should be positioned between two blinds.	
with motor drive	
2 blinds	16 m²
3–4 blinds (max.)	24 m²

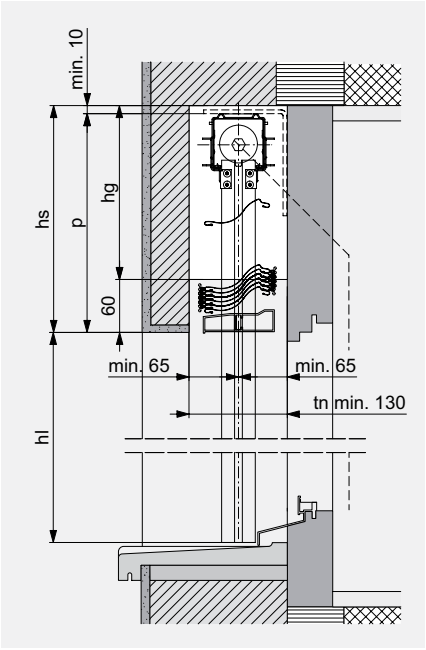
For 3 or 4 blinds, the motor should be positioned in the center.

Header dimensions

hl	bk ≤ 2000	2001–2250	2251–2500	2501–2750	2751–3000	3001–3250	3251–3500	3501–3750	3751–4000
≤ 750	230	230	230	230	230	230	235	235	235
751–1000	230	230	230	240	240	240	255	255	255
1001–1250	245	245	245	260	260	260	270	270	270
1251–1500	260	260	260	275	275	275	290	290	290
1501–1750	285	285	300	300	300	310	310	310	310
1751–2000	300	300	315	315	315	330	330	330	330
2001–2250	320	320	335	335	335	345	345	345	345
2251–2500	340	340	355	355	365	365	365	365	
2501–2750	355	355	370	370	380	380			
2751–3000	380	395	395	395	405				
3001–3250	395	410	410	410					
3251–3500	410	425	425						
3501–3750	430	445	445						
3751–4000	455	470							
4001–4250	470	485							
End rail	23 mm	38 mm	50 mm						

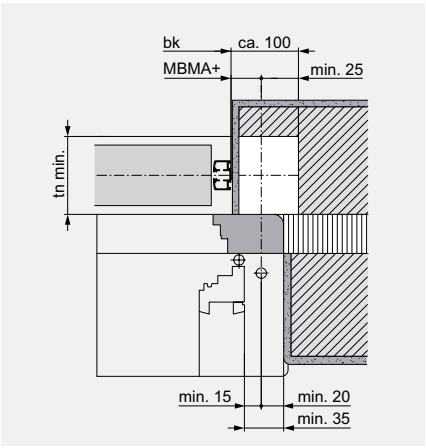
Header dimensions are approximate values which may exhibit negative or positive deviations depending on the technical circumstances.

Vertical section: Example of header



BUILT-IN SYSTEM

Horizontal cut: Top section for crank drive



Top section for crank drive

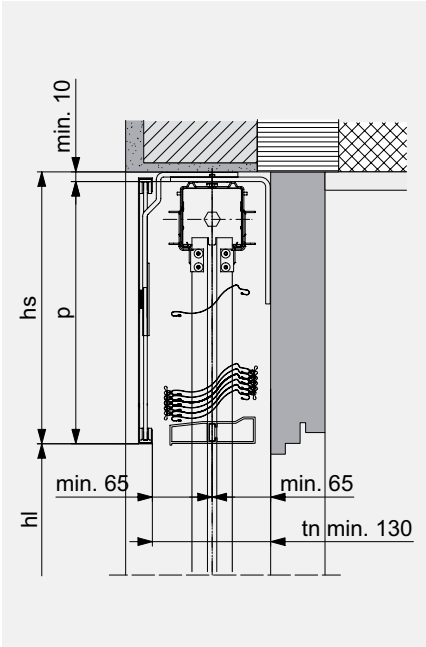
With recess (white) for gearbox (not necessary for motor drive). MBMA+ = Dimension from rear edge of guide rails to center of drive. With gearbox in slat area: hs +20 mm. A dimensional tolerance of ±5 mm is observed for the header height.

Depth of niche

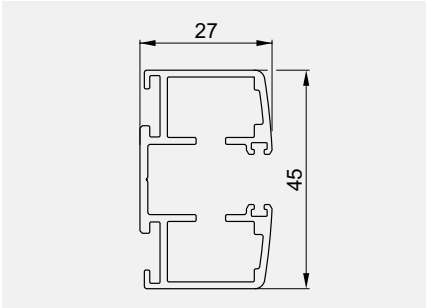
	tn
Grinotex Sinus®	min. 130*

* + possible addition for protruding weatherboard or doorknobs.
If crank drive is in slat area: maximum surface area and crank position available on request.

Vertical section: Example with cover



Lateral guide rails



FRONT MOUNTED SYSTEM

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
All dimensions in mm.

GriColor - 100 colors

BiColor

OPTIONS

Operating position

The shade produced when lowering the blinds is often annoying – particularly in the work place. The slat operating position of around 48 degrees prevents the room from getting dark when the blind is lowered.

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. Our color recommendations for Interior color: white (VSR901) light grey (VSR904) or medium grey (VSR130).

PLANNING AND OPERATING INSTRUCTIONS

The instructions in the Technical Data Sheets are to be observed when planning the solar shading.

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.

MINERGIE® MODUL
VSR Sonnenschutz Protection solaire

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

DESIGN DESCRIPTION

Blind system

Composite metal technology and guide pins on each individual slat give Grinotex Sinus® stability in high wind areas. Metal pivotal slat connections and steel cables coated with UV stable plastic lend added system durability. The lateral lifting mechanism operates using steel roller chains with an automatic safety locking feature in every position. A standard reversing edge prevents the blind from being damaged when it encounters obstacles in motion (up to 2250 mm in height). Although starting from a closed position, the slats can be adjusted between open and closed at every height.

The self-supporting

The self-supporting blind design preserves the insulation in the header and reduces service costs. The insulation remains intact and noise transfer is reduced. The stable guide rails 45 x 27 made from extruded aluminum feature service openings. Integrated guide rails are available on request.

Slats

The robust Grinotex Sinus® slat resists bending and twisting using rolled edge reinforcement and a plastic sealing lip that offers not only quieter operation, but provides an extra level of light control. Each 89 mm slat comes standard with a polyamide guide pin for smooth operation and greater system stability.
End rail made from extruded aluminum, transparently anodized (baked enamel finish for an additional charge).

Lateral guide rails

Made from extruded aluminum 45 x 27 mm, 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 wind-stable slat 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.

Drive

The external venetian blinds are equipped with a 230 V 50 Hz motor drive or an articulated crank drive.

Your partner

Subject to change without prior notice

V05.13