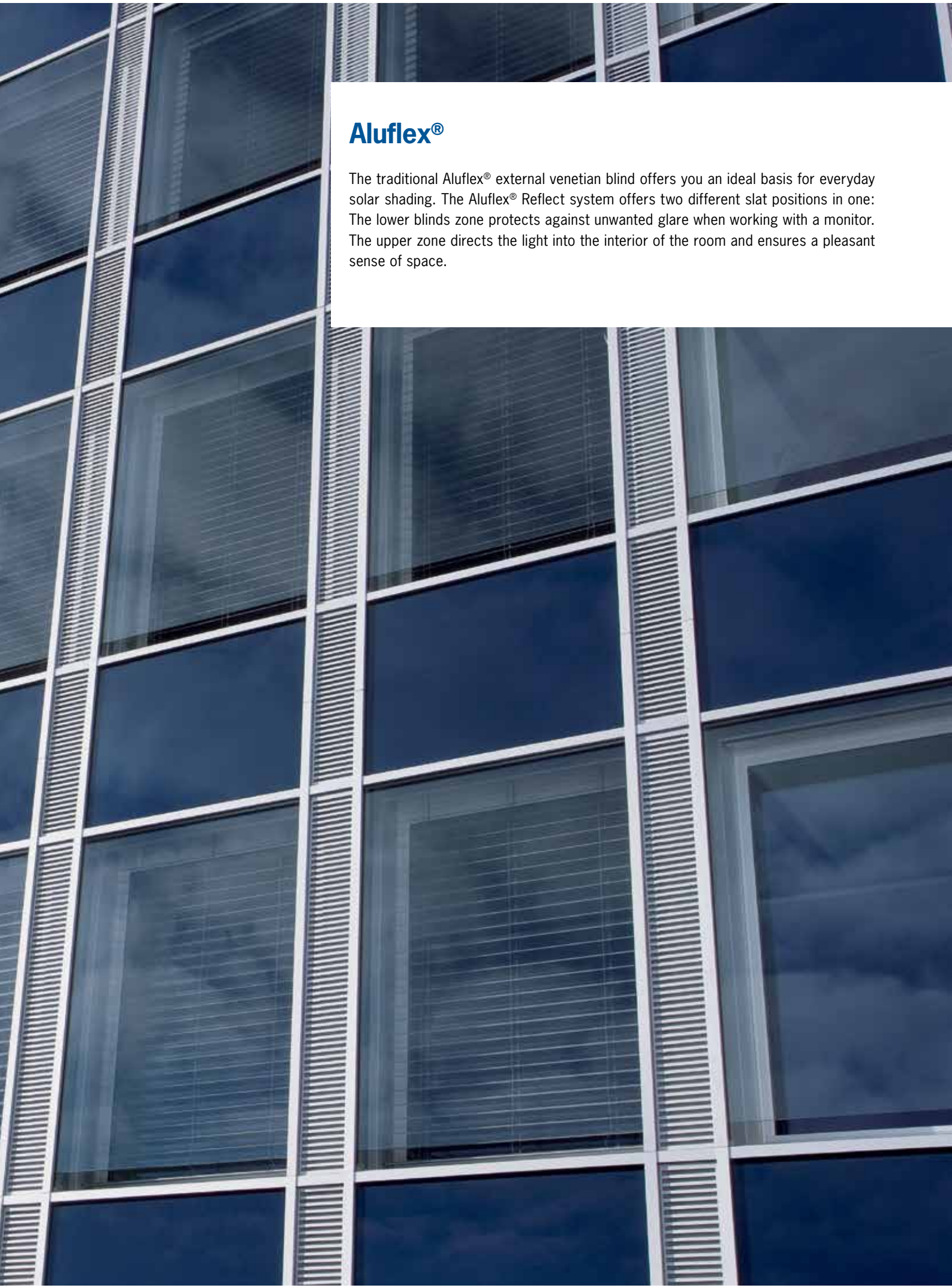
GRIESSER

External venetian blinds from Griesser.
Aluflex®



Aluflex®

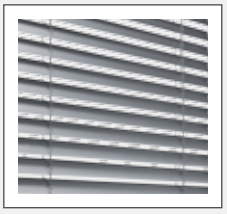
The traditional Aluflex® external venetian blind offers you an ideal basis for everyday solar shading. The Aluflex® Reflect system offers two different slat positions in one: The lower blinds zone protects against unwanted glare when working with a monitor. The upper zone directs the light into the interior of the room and ensures a pleasant sense of space.

Self-supporting

Built-in system

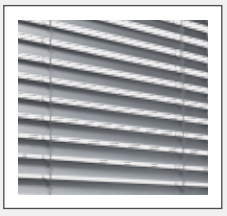
Front mounted system

Aluflex® Box



Perforated slats (option)

Product-Highlights Aluflex®



Operating position (option)

Two different slat widths

Aluflex® Reflect (Option)

PRODUCT ADVANTAGES IN DETAIL

Two slat widths

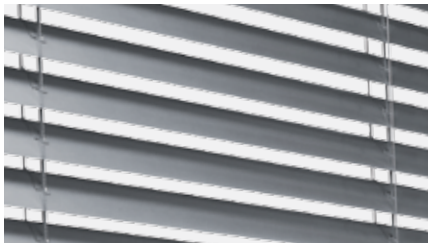
Flat, flexible slat profile without edge border, 80 mm or 60 mm wide, baked enamel finish with aluminum. End rails of extruded aluminum, transparently anodized or baked enamel finish.

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. Only available with motor type E.

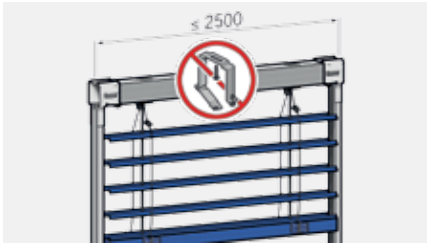
Perforated slats

Perforated slats can be used to provide a better visual link to the outside even when the blinds are closed. This is not recommended for residential applications due to the transparency. The feed-throughs must have eyelets. In case of perforation, the feed-throughs must be provided with plastic eyelets.



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. Only available with motor type E.



Self-supporting

The self-supporting blind design protects the insulation in the header and reduces service costs. The system needs no fastening for the housing for widths of up to 2500 mm – the insulation remains intact and noise transmission is reduced.

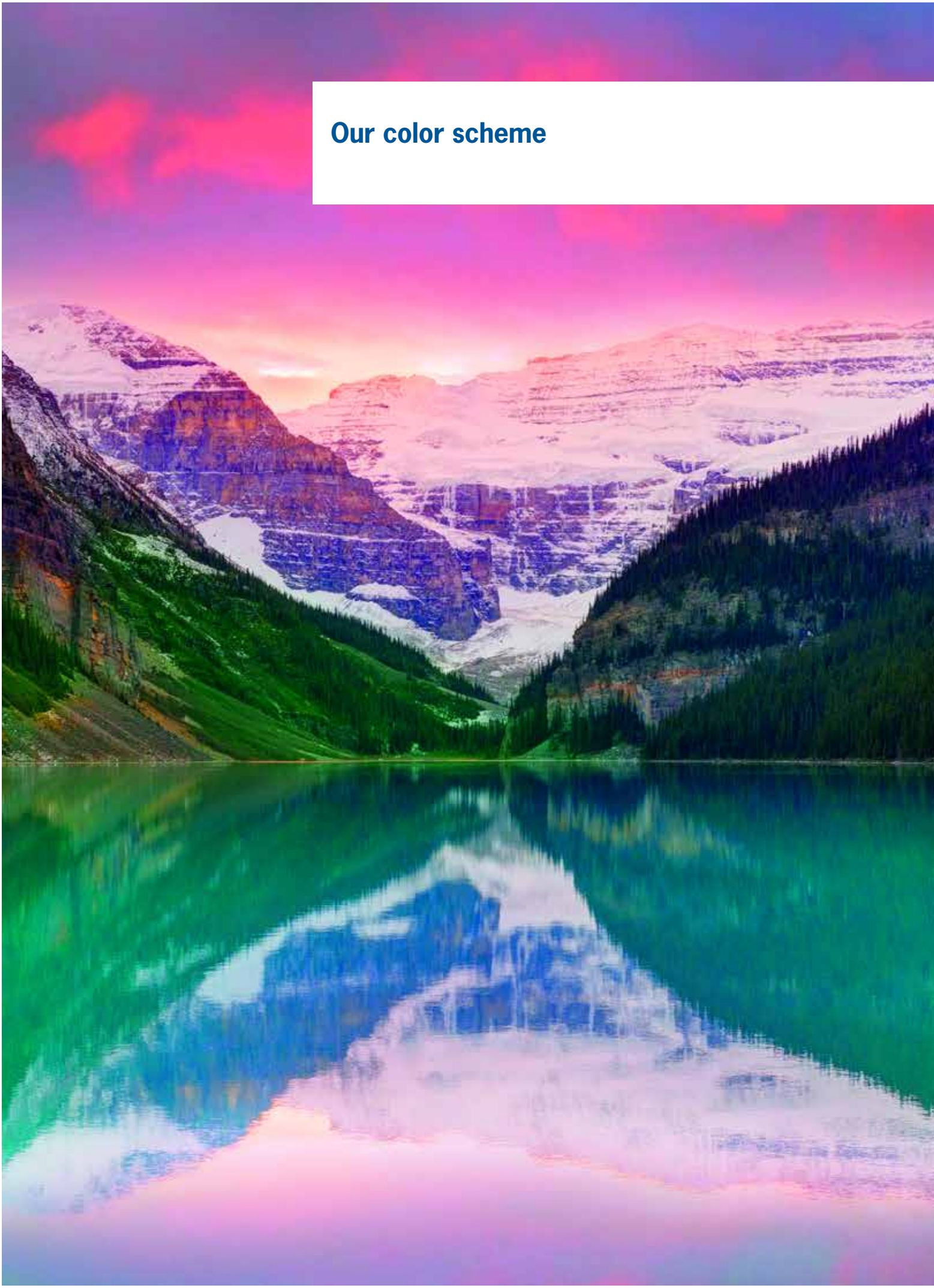
Installation system

We offer you the Aluflex® in two different installation versions. One for the header situation and one for the version with a screen.

Installation system with Box

Box made from extruded aluminum, transparently anodized or baked enamel finish, square or round.

Our color scheme



OUR COLORS

STANDARD COLORS

We have created a selection of the most popular colors for you. This has resulted in our five standard colors RAL 7016, RAL 9007/VSR 907, RAL 9006/VSR140, RAL 9010 and RAL 9016.

RAL 9006/VSR 140

RAL 7016

RAL 9007/VSR 907

RAL 9016

RAL 9010

PREMIUM COLORS

Surface structure
Semi-gloss

Collection GriColors

The colors of our solar shading systems should reflect your wishes, lend distinction to the character of the architecture and create a personal atmosphere. These wishes are a daily challenge to our developers, planners and lacquerers. The variety available for the color selection recognizes practically no limits, given that we have selected 100 color tones – the GriColors – in addition to the standard colors and divided them into four groups for which nature provided the models. Glass & Stone, Sun & Fire, Water & Moss and Earth & Wood set unique color accents.

Surface structure
Semi-gloss

Collection GriRal Colors

Our GriRal color collection has an assortment of 50 different RAL shades of color. From sand yellow to standard white, we offer a complete selection of hues for every color family. We're convinced that with our color palette, you will find exactly the right shade of color for your needs.

BiColor

External venetian blinds get a new color accent: When bright color is dominant outside, a neutral light can optimize the shading function inside. Create your own preferred color combination using our two color collections, GriColors and GriRal (excluding standard colors).
The exterior color shows as a border along the edge of the interior view. Our color recommendations for interior colors: white (VSR 901), light gray (VSR 904) or medium gray (VSR 130).

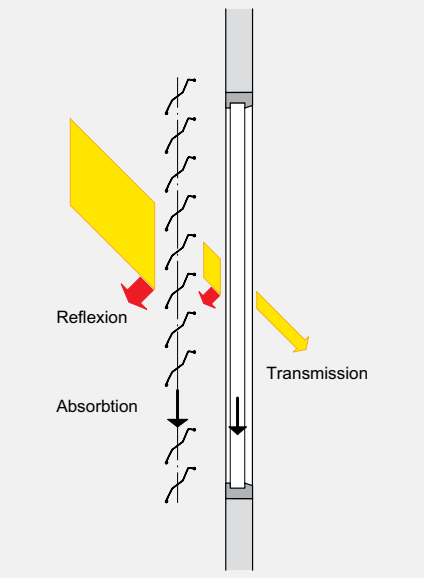
SPECIAL COLORS

Color means individuality - there are practically no limits to our Special Colors. No wish goes unanswered with additional innumerable and facade-ready color tones.

Our comfort

CONTROLS

Aluflex® can be operated through a variety of control systems, from a simple hand-held transmitter to a master control or a building management system, depending on the time, position of the sun and the weather.



Thermal comfort

The ambient conditions change over the course of the day and during the seasons. With a blinds control device from Griesser, you can adjust your solar shading to match your personal requirements in accordance with changing exterior circumstances. And making these adjustments is so simple that you will still have time to take care of the important things in your life.

An optimal daylight concept makes artificial air conditioning superfluous in the summer. You save energy costs and may well also avoid one or another unwanted summer cold. In the winter, on the other hand, a solar shading system can protect you against cold and allow the scarce rays of the sun into the room, thus saving once again on energy costs, not to mention facial tissues.

Visual comfort

Having a sense of well-being also means being able to decide for oneself, particularly within one's own four walls, just how much one wants to reveal to the outside world. With Aluflex®, you are sheltered from uninvited glances from the outside world.

BiLine hand-held transmitter

BILINE - REMOTE CONTROL

The control system Griesser BiLine provides contemporary design and high functional security through routing technology. Wireless systems have the advantage of being installed quickly, not only in new buildings but also when refitting an automated system in existing buildings.

Centrero server for iPad and iPhone operation

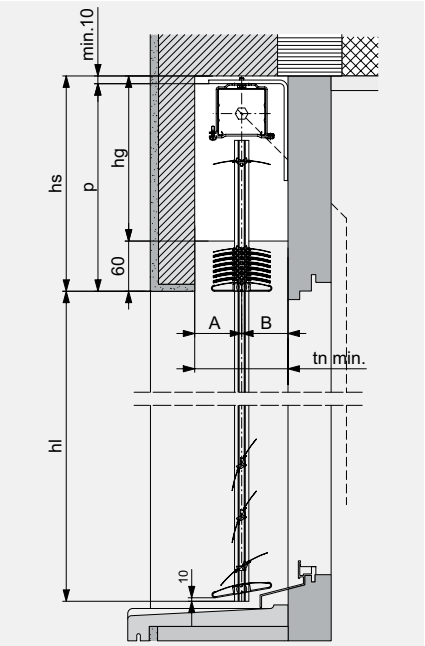
KNX HOME AND BUILDING AUTOMATION

The Griesser KNX solar shading controller is an integrated master control with extensive functionalities for any building of any size. With proven functions such as solar tracking and horizon limitation, it meets the highest expectations for solar shading control.

KNX controls per iPad

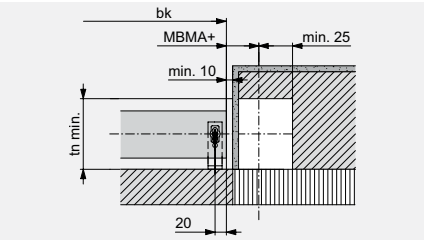
Technology in detail

Vertical section: Example of header

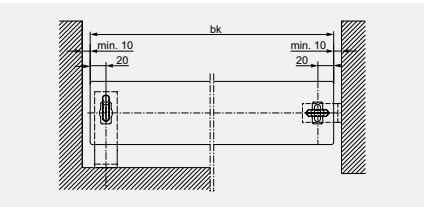


INSTALLATION SYSTEM IN HEADER

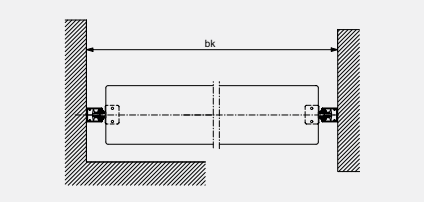
Horizontal sections



For crank drive

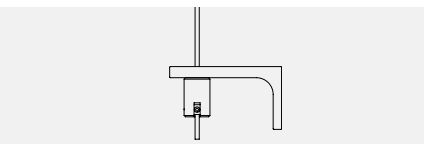


For guide cables



For guide rails

GUIDE CABLE BRACKET



Horizontal cut for crank drive

With recess (white) for gearbox (not necessary for motor drive). With a gearbox in the slat area at 45°, hs must be increased by 20 mm. A dimensional tolerance of ±5 mm should be observed for the header height.

Depth of niche

Type	tn	A	B
Aluflex® 60	min. 100*	50	50
Aluflex® 80	min. 120*	60	60

* + possible addition for protruding weatherboard or doorknobs.

Top section: guide cables

In the case of a bk greater than 3000 mm or in locations exposed to the wind, a central rope suited to wind load is required. In the case of a bk greater than 4400 mm, two medium ropes suited to wind load are added.

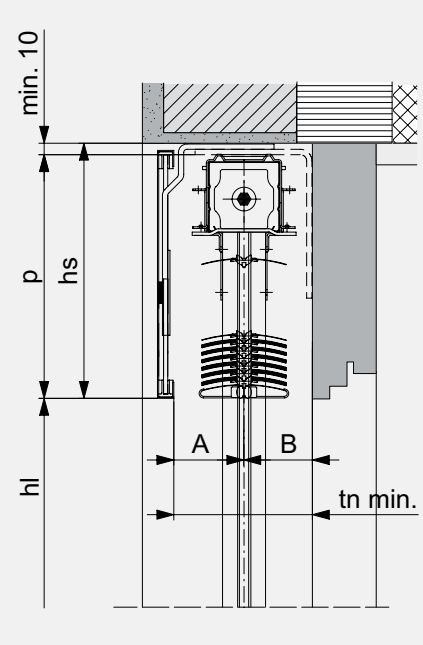
Top section: guide rails

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, in the case of bk greater than 3800 mm a second one.

KEY

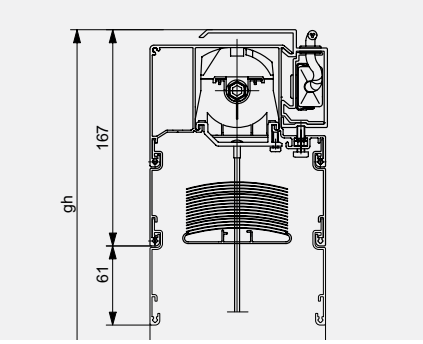
bk = Width of construction
hl = Opening height
p = Height of package
gh = total height
hs = Header height (p + min. 10)
hg = Height of gearbox recess (hs -60)
tn = Depth of niche
All dimensions in mm.

Vertical section: Example with cover

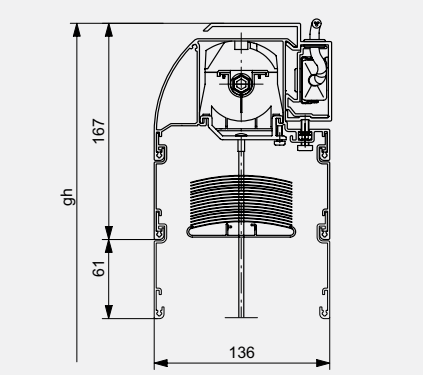


INSTALLATION SYSTEM WITH COVER

Vertical section: Example box



Box square



Box round

INSTALLATION SYSTEM WITH BOX

Aluflex® Box

Box made from extruded aluminum, transparently anodized or baked enamel finish, square or round, depending on style with extension of 61 mm. For both versions; hs = hs +7 (see p. 3).

Version Box

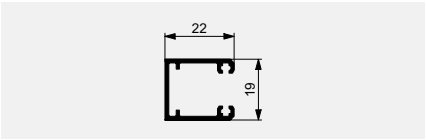
gh 700–1800 mm: box standard with extension

gh 1801–4800 mm: box with second extension

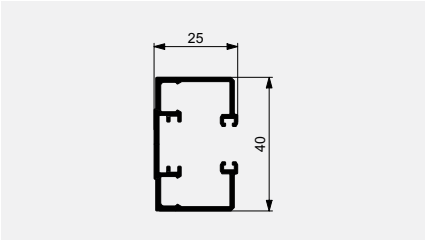
In the case of a total height (gh) greater than 4101 mm, the slat package is not entirely covered.

LATERAL GUIDE RAILS

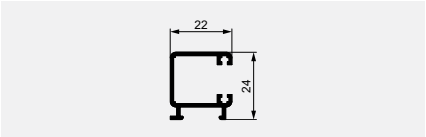
Type E



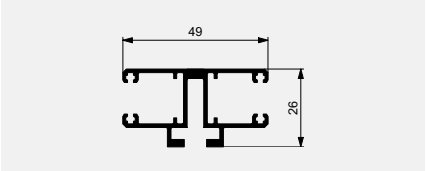
Type F



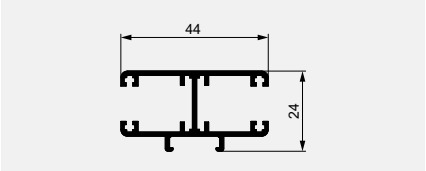
Type C



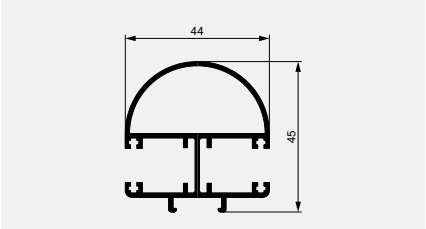
Type D



Type T



Type R



LIMIT DIMENSIONS

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

Minimum	
crank drive	550
motor drive	625
Maximum	
guide rails	4500
guide cables	5000

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

hl Opening height

Minimum	550
Maximum	4500

bk × hl Maximum surface area

Single blind	
with crank drive	11 m^2
with motor drive	20 m^2
Connected systems (max. system width 10 m)	
with crank drive (max. 4 blinds)	11 m^2
A max. of 2 blinds may be connected on each side of the gearbox.	
with motor drive (max. 4 blinds)	
motor type E	24 m^2
motor type S	21 m^2

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

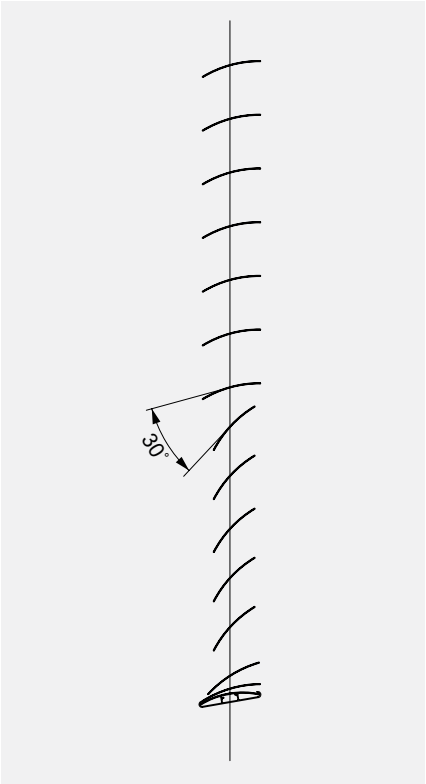
Header dimensions

Opening height (hl)	Header height (hs)*	
	Aluflex® 80	Aluflex® 60
550–1000	170	175
1001–1250	170	190
1251–1500	175	200
1501–1750	180	210
1751–2000	185	220
2001–2250	190	230
2251–2500	200	240
2501–2750	205	250
2751–3000	210	260
3001–3250	220	275
3251–3500	225	290
3501–3750	235	295
3751–4000	240	310
4001–4250	250	320
4251–4500	255	330

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

* If surface area > 12m^2 or bk > 4000, the end rail is set in type 20. Then hs = hs +10.

ALUFLEX® 90 REFLECT WITH TWO ZONES



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 the option of perforated slats and the correctly angled slats in the various zones. Natural light is put to good use, visibility is preserved, and glare is prevented, all with one product. Only available with motor type E.

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

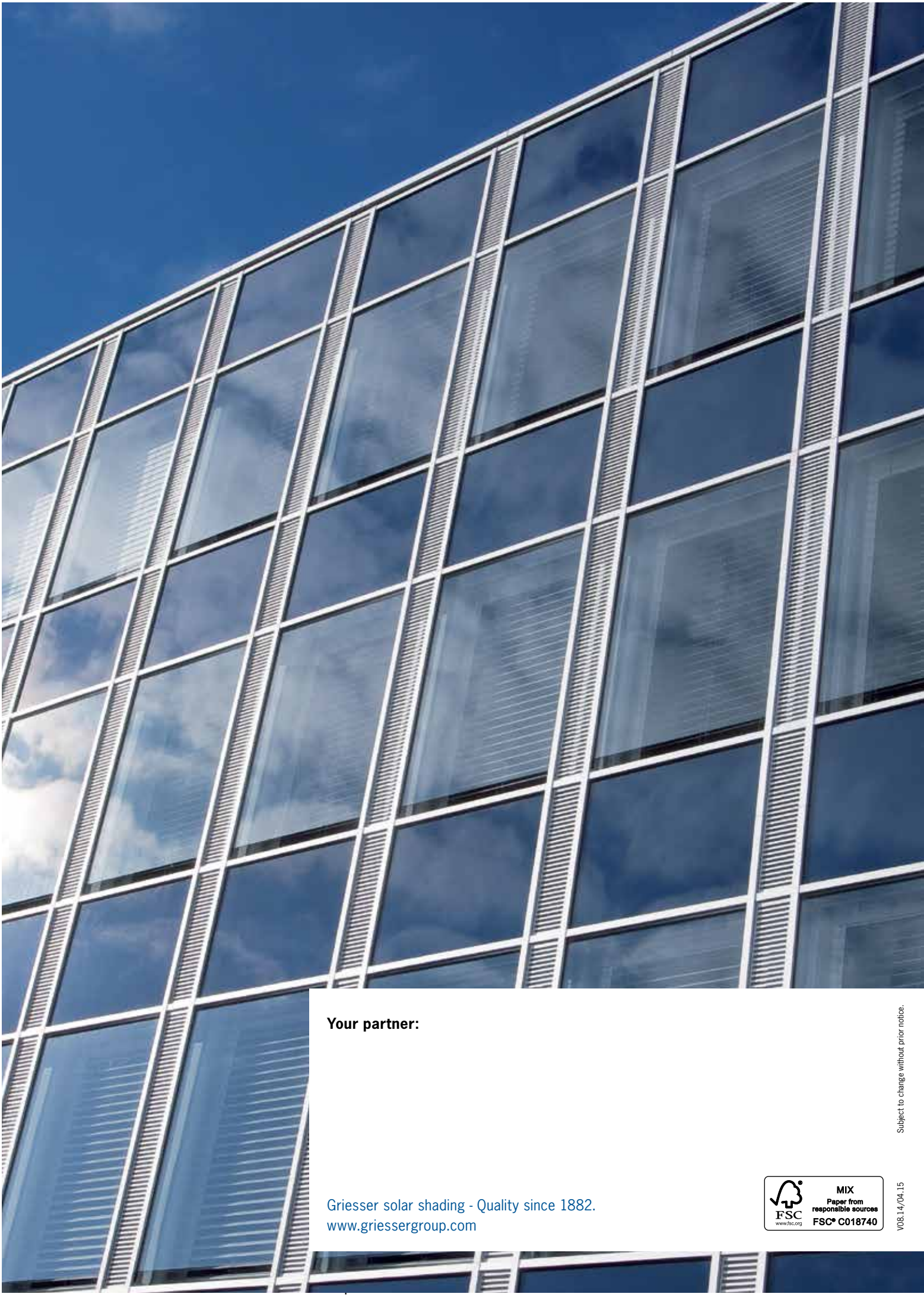
The upper zone with open slats allows daylight to be used. The diagram shows the recommended arrangement for a window with parapets. Clarification is required for the glare protection zone in windows between floors, as is illustrated in the example below.

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

Example of window between floors	
Window with hl	2700
No parapet	–
Zone C (1/3)	900
Height of glare protection (Only zone C)	900

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.



Your partner:

Griesser solar shading - Quality since 1882.
www.griessergroup.com

MIX
Paper from responsible sources
FSC® C018740

V08.14/04.15