



VERSATILE
AND EASY-CARE
THANKS INNOVATIVE
VELCRO®
SYSTEM



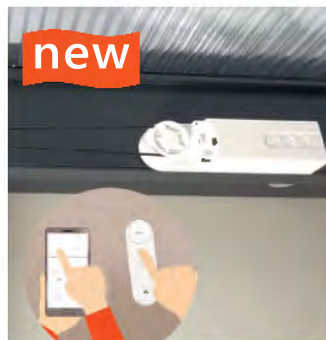
The versatile
SHADING SYSTEM all year round



HAND 
with operating rod



CORD 
with operation cord



M-CORD 
operation cord motorized



M-TRACK 
motorized



The static requirements for the installation of a shading system must be checked by the customer in advance. Our general terms and conditions at www.sunola.de apply. The warranty does not apply to field sizes outside our size specifications.



In strong wind or storm the purchaser shall be individually responsible for the adequate protection of the sunola systems.

The sunola
shading system page 4



HAND

page 11

Assembling between the rafters
internal static

Examples of use page 12

technical information page 19

Assembling under the rafters
external static page 31

Examples of use page 32

technical information page 37



CORD

page 49

Examples of use page 50

technical information page 55



M-CORD

new

page 67

Examples of use page 68

technical information page 71



M-TRACK

page 81

Examples of use page 82

technical information page 85

fabric qualities page 95



EASY VELCRO® SYSTEM
EASY TO REMOVE
EASY TO WASH

Amazingly simple velcro® system for easy handling

Sunola uses **innovative hook and loop technology**. This means that it is easy to install and also easy to clean. The fabrics can be washed to keep them in perfect condition at all times.

Sunola is functional with creates a comfortable feeling and also offers numerous customization options.

The perfect system for indoor and outdoor areas under a closed glass surface.



PROTECTION
AGAINST
HEAT &
COLD

First class protection and comfort for the year round

The Sunola system is **extremely versatile** and suitable **for all seasons**. In summer it **protects against intense sunlight and heat**, in autumn and winter **against radiant cold**.

Regardless which weather, sunola maintains the ideal temperature and creates a pleasant, comfortable atmosphere to feel good.

Available in **four different operating modes** and many attractive fabric qualities.



HAND

movable freely

- Handling with operating rod
- Assembling between as well as under the rafters possible
- Design variety - each field can be equipped individually
- For plafond and roof pitches till max. 10°



CORD

with operation cord

- Handling with operating cord
- Assembling between as well as under the rafters possible
- Several systems can be mounted side by side
- For plafond and roof pitches till max. 15°

M-CORD



operation cord motorized

new

- Motor with battery function - no electrical connection required
- Operation via Bluetooth, Wifi/ZigBee or remote control
- Assembling between as well as under the rafters possible
- For plafond and roof pitches till max. 15°



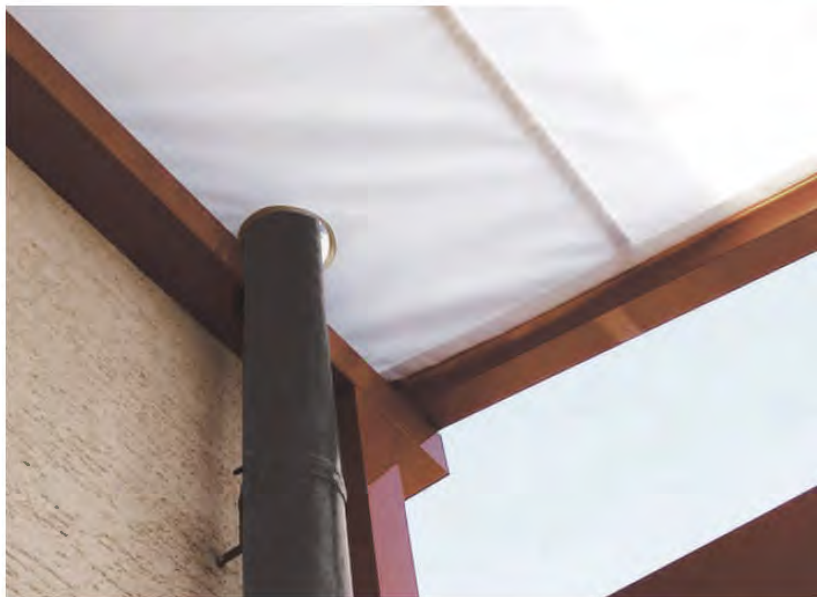
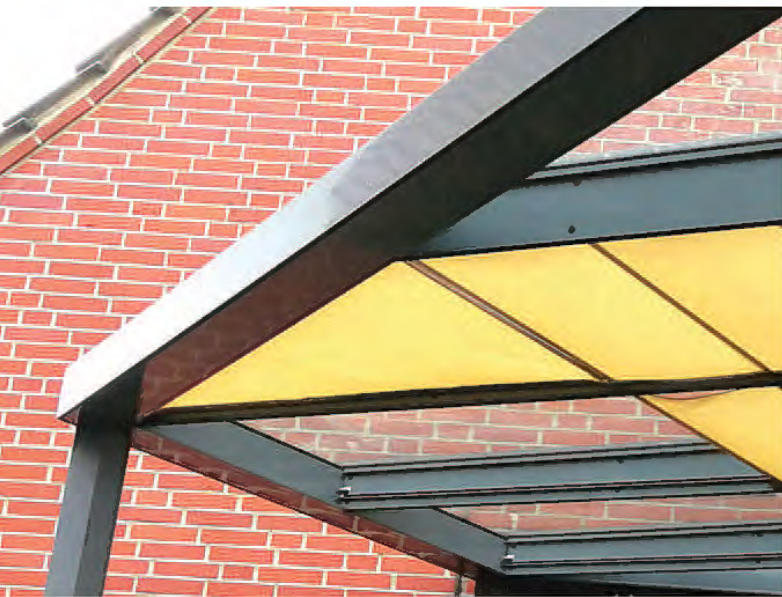
M-TRACK



motorized

- Electrical operation - suitable for higher rooms and larger system up to 24 m²
- Only suitable for wintergarden and **indoor areas**
- Roof pitch till max. 45°
- Different motor powers for different requirements





Made of measure solutions

- LED lighting remains visible
- Partial shading is possible
- Efficient shading for rooflights
- Special solutions e.g. fixed elements
- Problem solutions e.g. for downpipes



**AVAILABLE
IN MANY
ATTRACTIVE
FABRIC
QUALITIES**

- Sun protection
- Cold protection
- Glare protection
- Easy care
- UV-resistant
- Highly lightfast
- Dirt repellent
- Water repellent

HAND



with operating rod
assembling between the rafters



internal static
→ assembling between the rafters





internal static
→ assembling between the rafters





internal static

→ assembling between the rafters



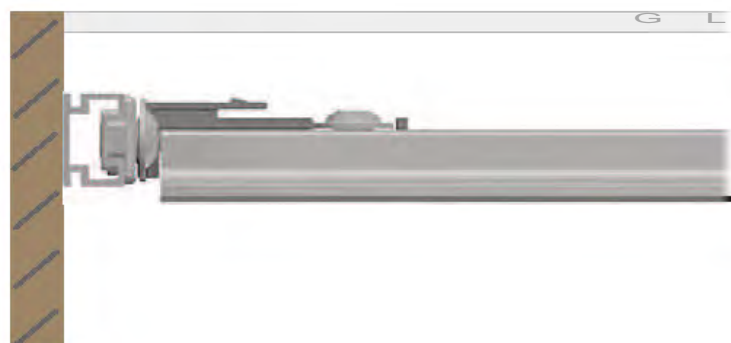


HAND



with operating rod
assembling between the rafters

technical details



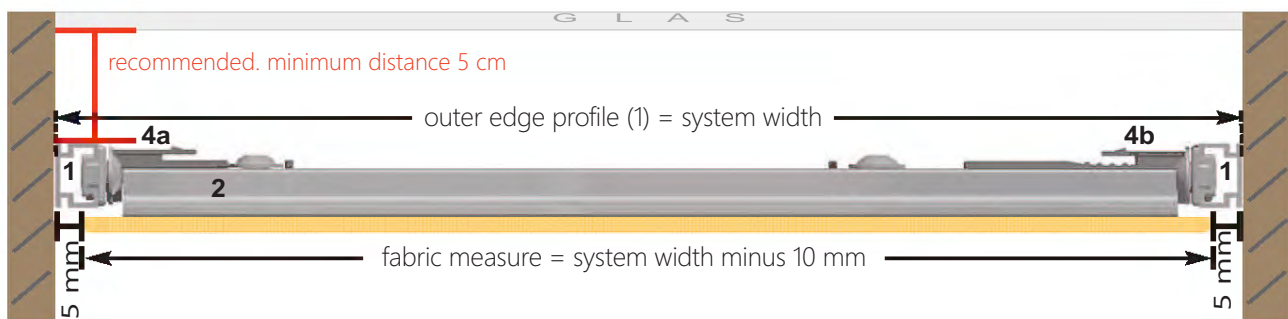
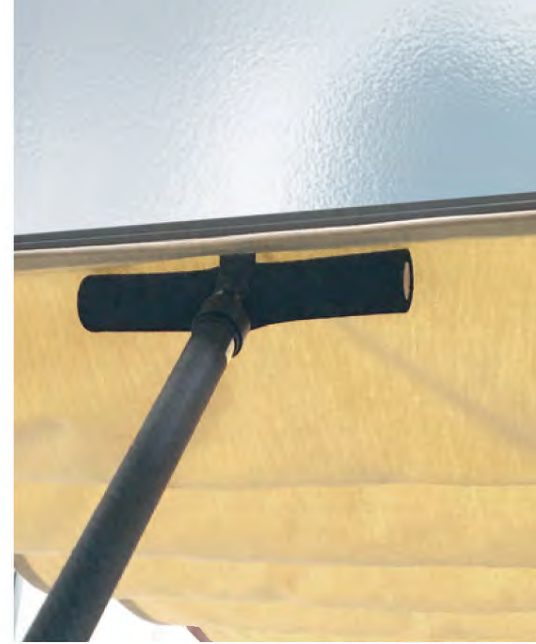
internal static

→ assembling between the rafters

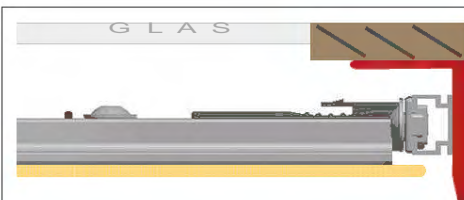
technical information

- Handling with operating rod
- Useable for terrace roof and wintergarden
- For plafond - roof pitches till max.10°
 - Please note:
A "cloud formation" of the fabric is not possible at roof pitches.
- System size:
 - system width max. 1500 mm / system length max. 6000 mm
- Available colors:
 - Aluminium profile: white, anthracite, alu look - further colors on request
 - Aluminium profile with velcro® tape: white, alu look
 - Accessories in matching colors

Used plastics are UV-resistant.



Assembly option:

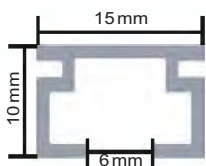
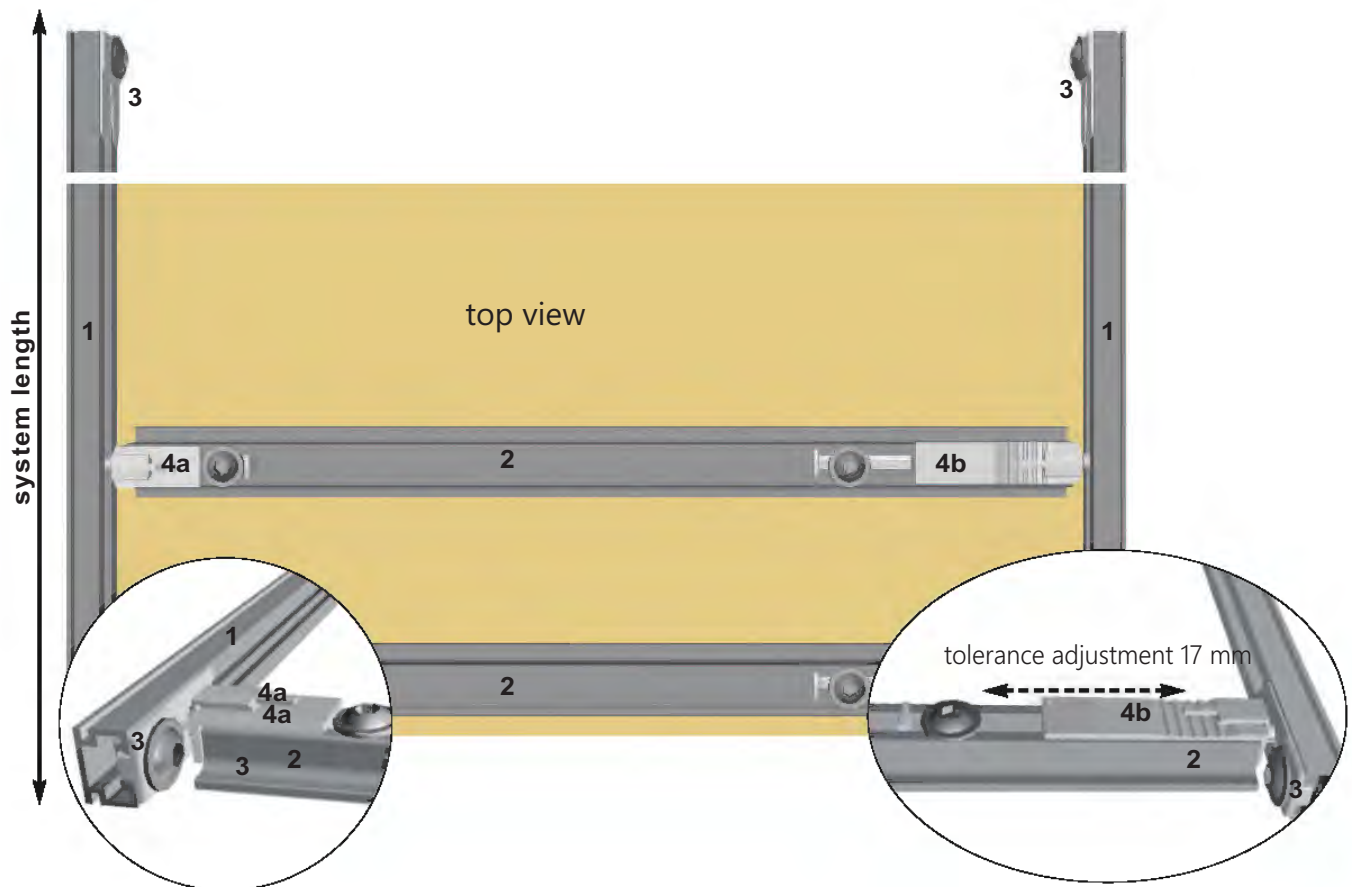


Using mounting angles, the sunola sun shading system can also be installed outside a niche or below a niche. Please pay attention to the respective installation situation.

scope of delivery

- Ready-made fabric with sewed velcro® tapes from regular distances of appr. 400 mm (the the sewing thread is uv-resistant)
- Alu profile pre-drilled (recommendation: fixing every 50 - 100 cm)
- Alu profile with velcro® tape • glider • stopper
- Stopper with magnet for locking at roof pitches

Delivery without operating rod and assembling screws.



- 1 profile with run 6 mm - fix every 50 - 100 cm
Recommendation: screws 2.9 x 13 mm stainless steel A2
- 2 alu profile with velcro® tape
- 3 stopper
- 4a glider short
- 4b glider long, moveable (to compensate small tolerances)

internal static
→ assembling between the rafters

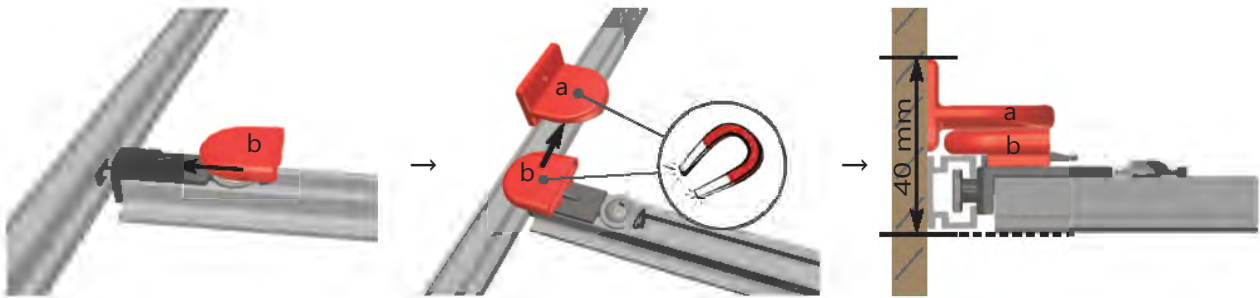
magnetic stopper

stopper set with magnet → for locking at roof pitches



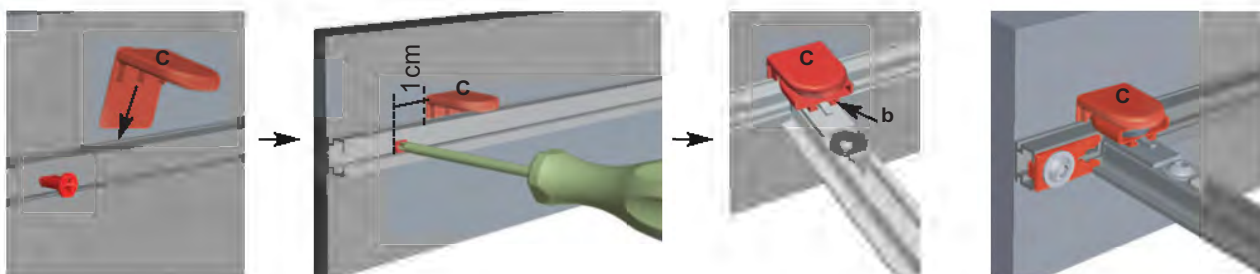
magnetic stopper

- a wall adapter with magnet
- b stopper with magnet at the alu profile with velcro® tape



Optional → stopper set with magnet flat design

- c magnetic stopper flat design



Tip: Mount the magnetic stopper (c) in the near of the endstopper for a faster opening and closing of the system.

Advantage: Low overall height, faster assembly, readjustment possible.

internal static → assembling between the rafters

mounting

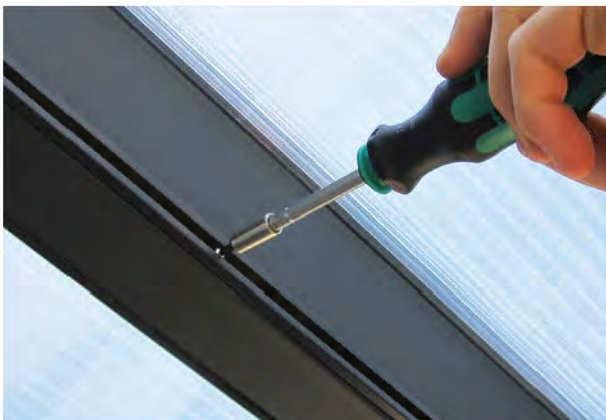
EASY
ASSEMBLY
IN JUST A FEW
STEPS



1.) Hold the lengthwise rail at the rafter, mark holes. Recommendation: every 50 - 100 cm (rail is predrilled every 50 cm).



2.) Predrill holes in the rafter.



3.) Screw on the lengthwise rail.



4.) Clip the velcro® profile with the movable glider (long) into the lengthwise rail first.

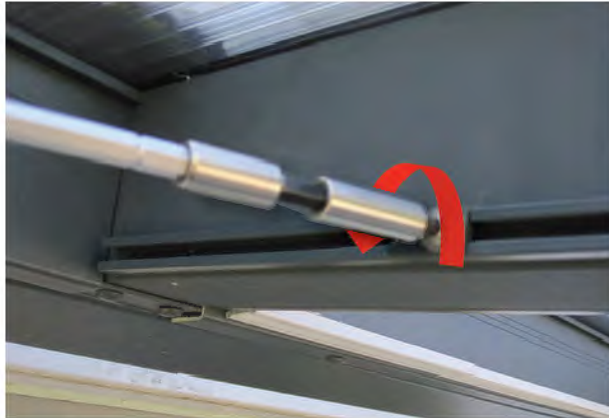


5.) Then clip the side with the fixed glider (short) into the opposite lengthwise rail. The velcro® profile turns 90° into the right position when released.

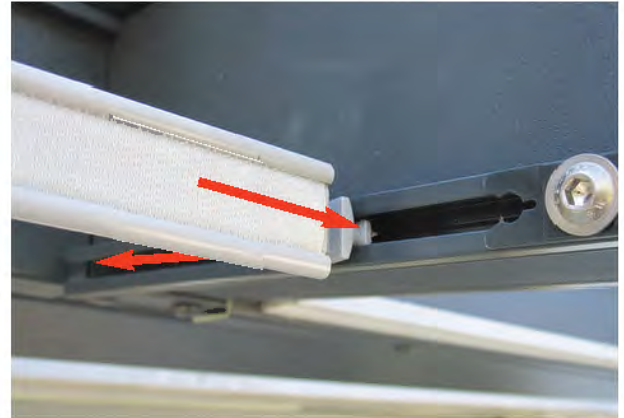


If the Velcro® profiles are to be removed, proceed it reverse! First the side with the fixed glider, then the side with the movable glider.

mounting



6.) Loose the **stopper in the lengthwise** rail at the side of the house. Then turn the opening of the stopper to the side of the house.



7.) Clip one velcro® profile in front of the stopper and slide it (upwards) to the side of the house.



8.) Press the stopper into the glider of the velcro® profile and screw it tight. Now the system is fixed at the side of the house during operating.



9.) Clip in the last velcro® profile with the magnets.



10.) Put the stack (all velcro® profiles) to the house or garden side, as desired. Put the opposing magnet (wall adapter with magnet) above the lengthwise rail.



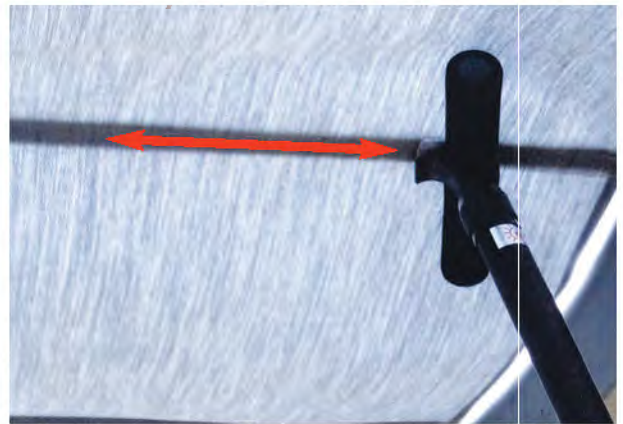
11.) Screw on the opposing magnet. Now the package is fixed here when the system will be opened.

attaching the fabric

Important: Pull the fabric in the area of the velour tape in shape before fastening, because sewing may cause wrinkles in the area of the velour tape.



a) Always start from the side (from right to left or the other way around)!



b) After attaching the fabric, press it along all velcro® strips once again with help of the operating rod.



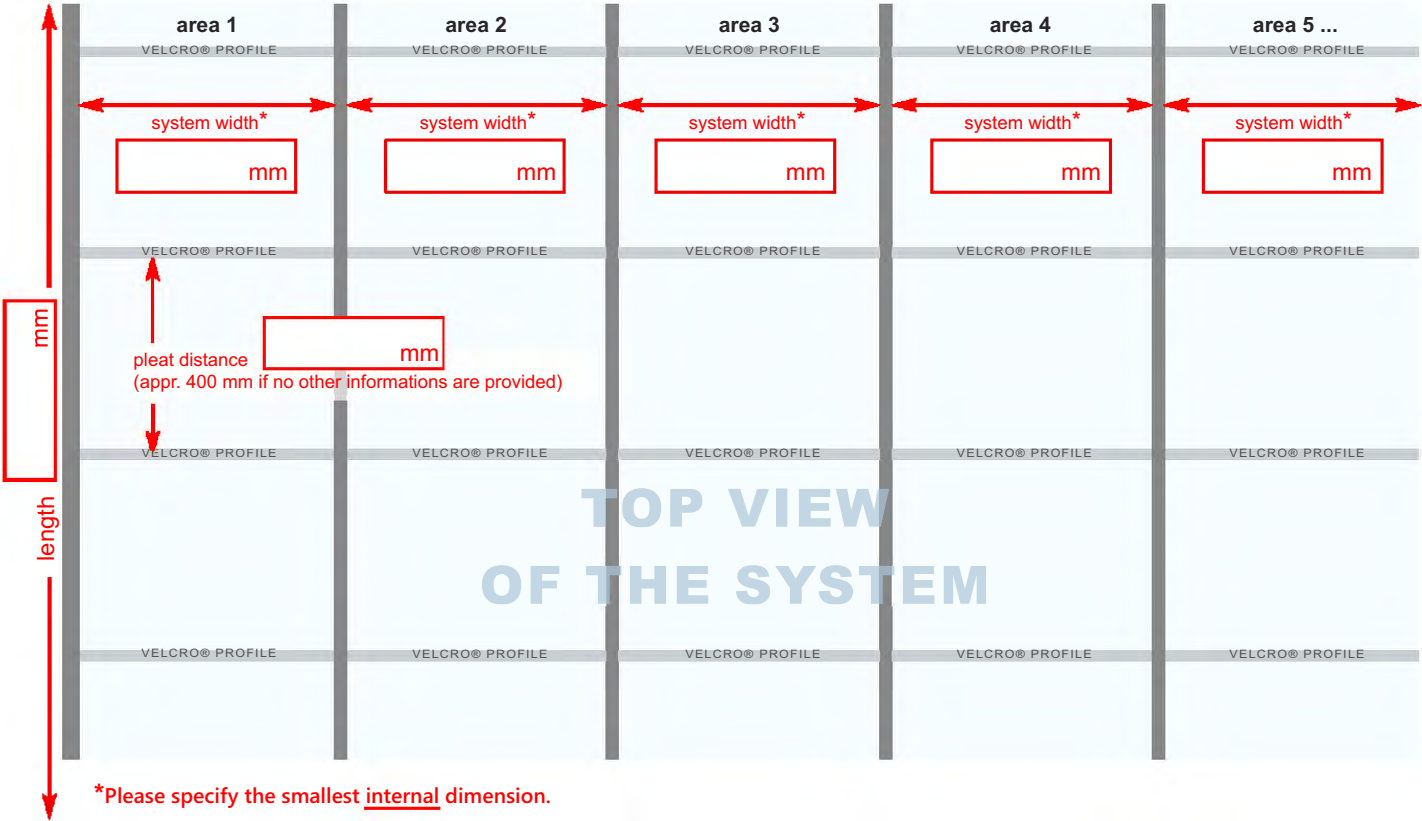
c.) Attach the (extendable) operating rod with the hook into the first velcro® profile.



d.) Pull the system until it is closed.

internal static
→ assembling between the rafters

measurements





NOTES



The static requirements for the installation of a shading system must be checked by the customer in advance. Our general terms and conditions at www.sunola.de apply. The warranty does not apply to field sizes outside our size specifications.

Each system is made to measure and cannot be returned or exchanged.

OFFER NO.

Please note if an offer is existed.

SHIPMENT ADDRESS

company

street

postal code city

contact person

shipping date

CUSTOMER

purchaser / customer no.

phone

fax

contact person

commission

pos.	quantity	system width (mm)	system length (mm)	pleat distance* (mm)	or: quantity velourtape*	fabric no.	profile color white anthracite alulook	velcro® profile col. white alulook	incination angle at roof pitch	systems should be mounted side by side yes no

*The pleat distance is appr. 400 mm if no other informations are provided.

OPTIONAL ACCESSORIES - assembling between the rafter (internal static):

operating rod extendable 105 cm - 180 cm	pcs.	assembling angles only if required	pcs.	mounting accessories for alu and wooden constructions bag á 50 screws bit + drill bit set	pcs.	wall adapter with magnet* for locking at roof pitches at several positions	sets á 2 pcs.	adapter with magnet* flat design for locking at roof pitches at several positions	sets á 2 pcs.
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*Additional adapter with magnet.
One set is included in the delivery of the sunola system.

HAND



with operating rod
assembling under the rafters



external static

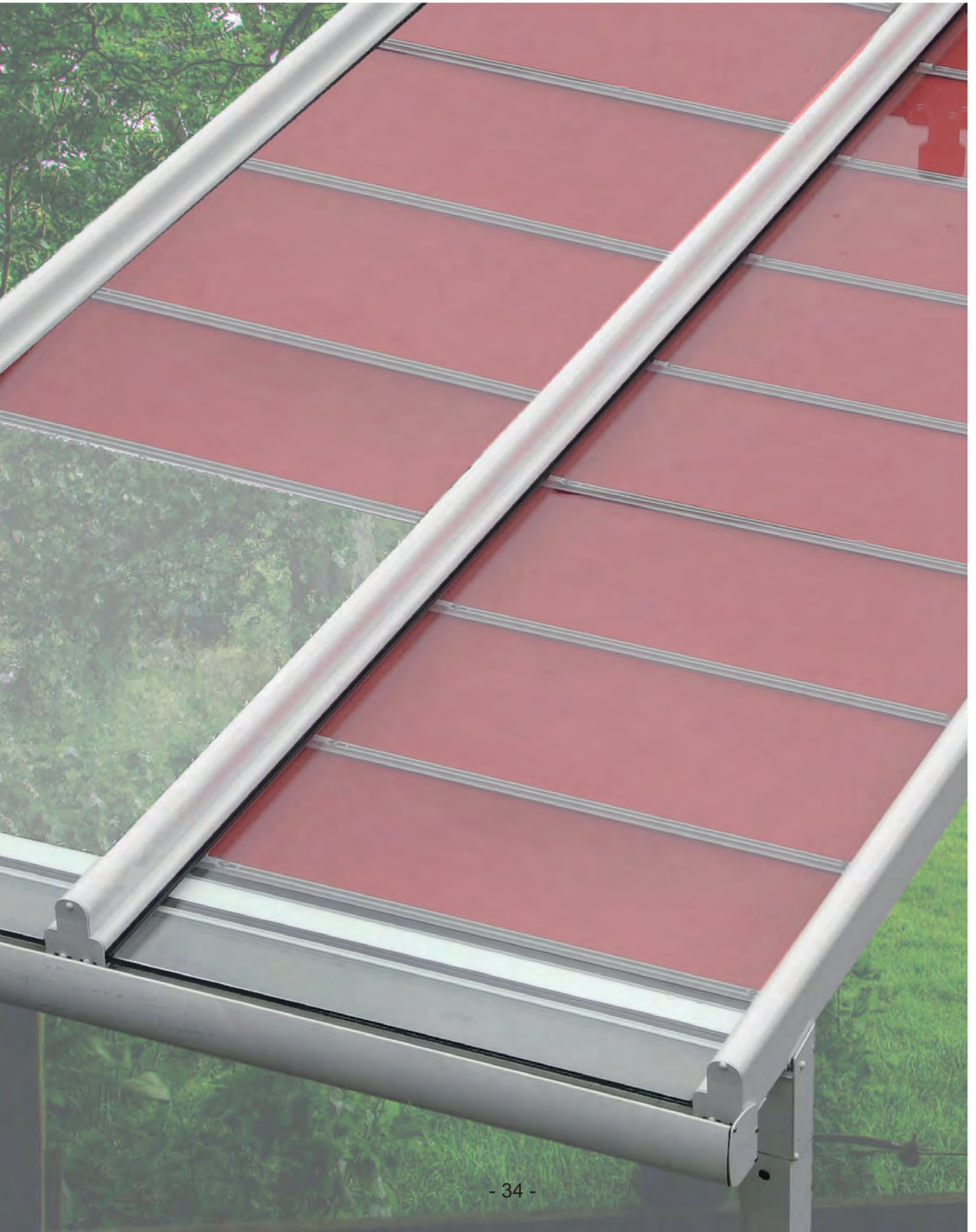
→ assembling under the rafters

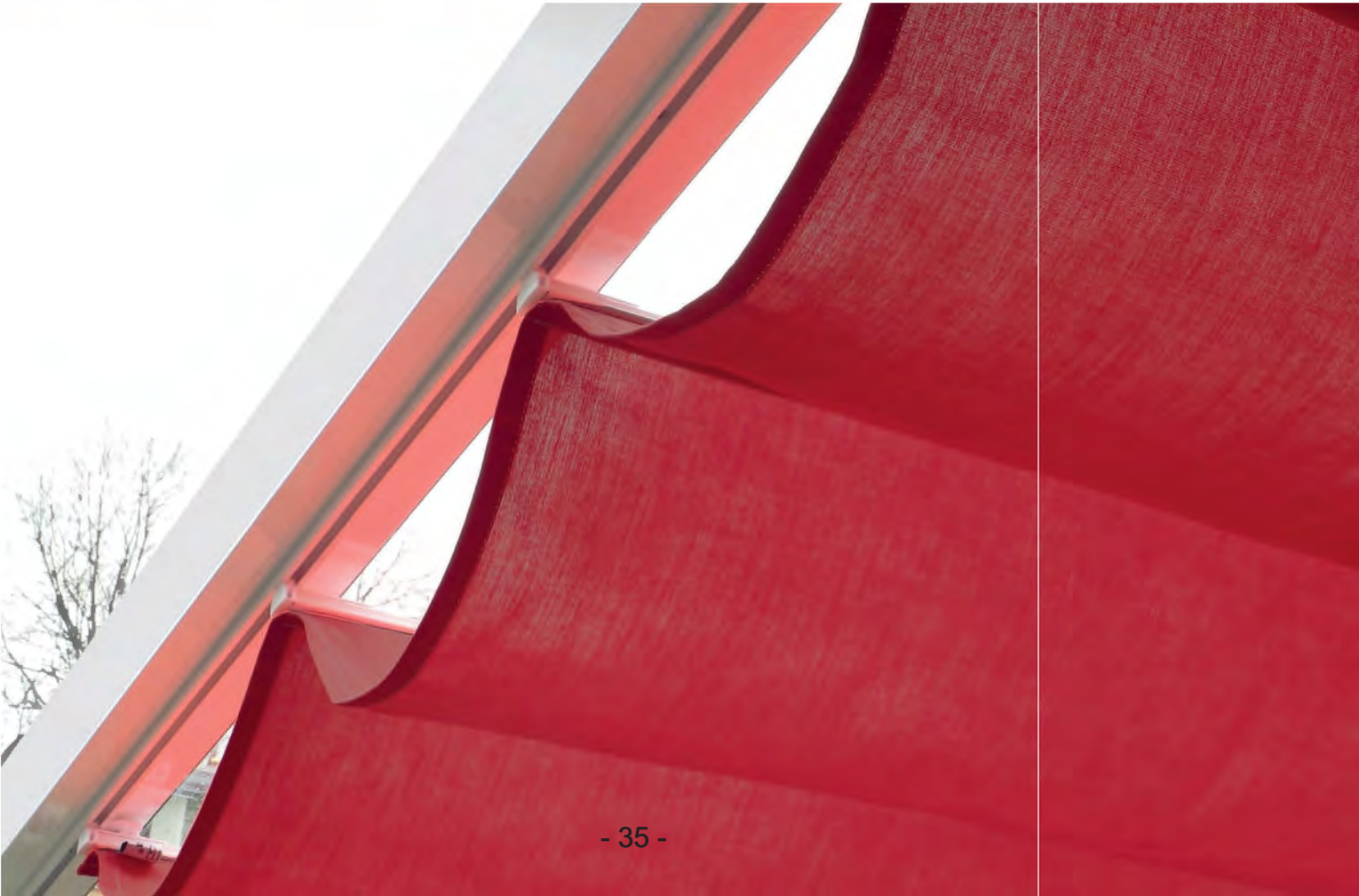




external static

→ assembling under the rafters



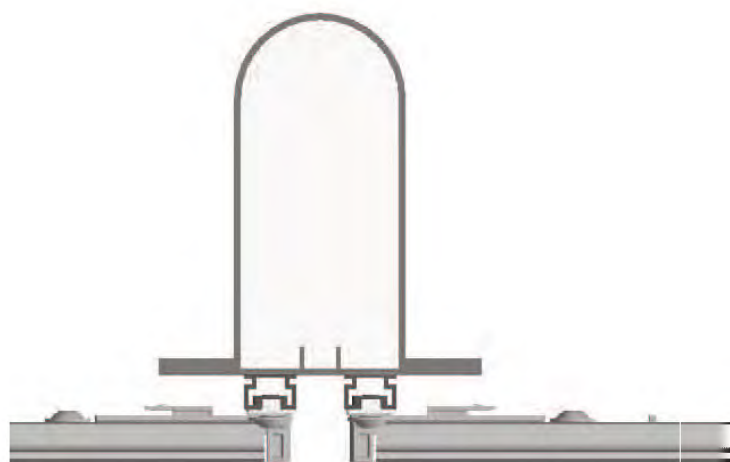


HAND



with operating rod
assembling under the rafters

technical details



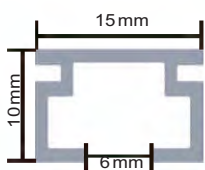
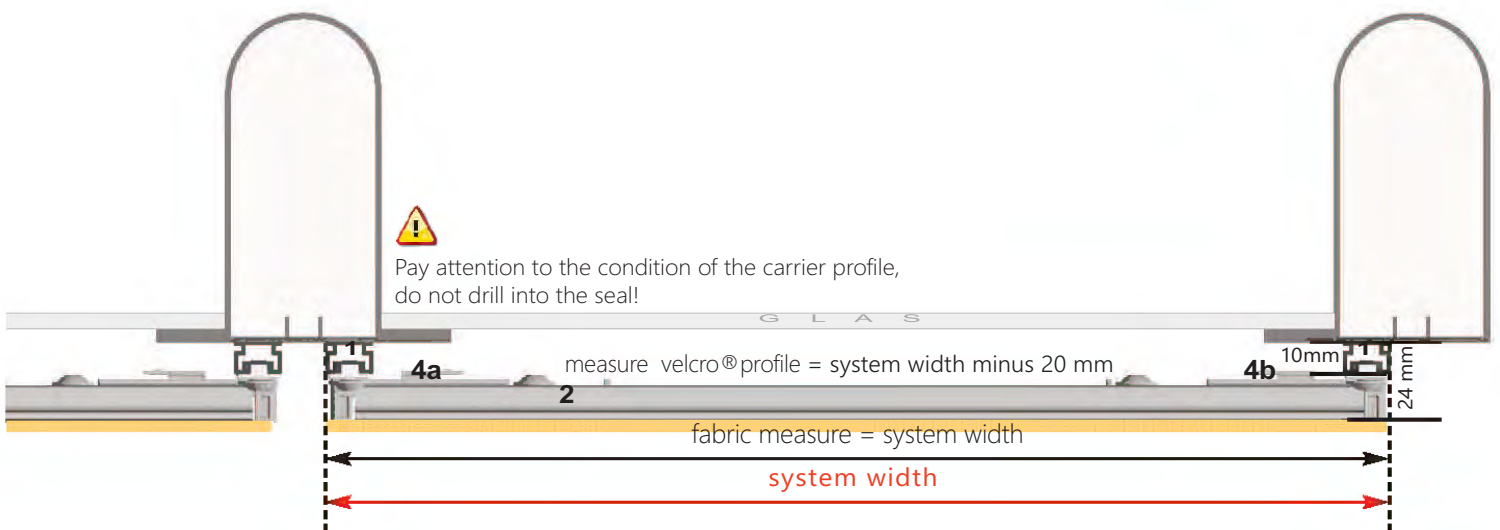
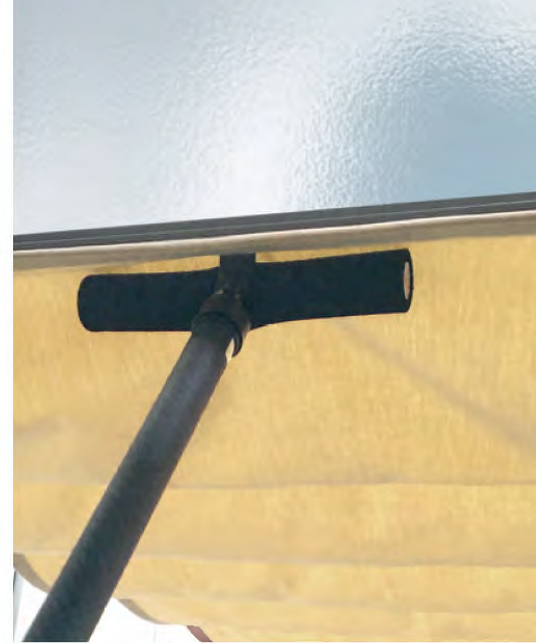
external static

→ assembling under the rafters

technical information

- Handling with operating rod
- Useable for terrace roof and wintergarden
- For plafond - roof pitches till max.10°
→ Please note:
A "cloud formation" of the fabric is not possible at roof pitches.
- System size:
→ system width max. 1500 mm / system length max. 6000 mm
- Available colors:
→ Aluminium profile: white, anthracite, alu look - further colors on request
→ Aluminium profile with velcro® tape: white, alu look
→ Accessories in matching colors

Used plastics are UV-resistant.

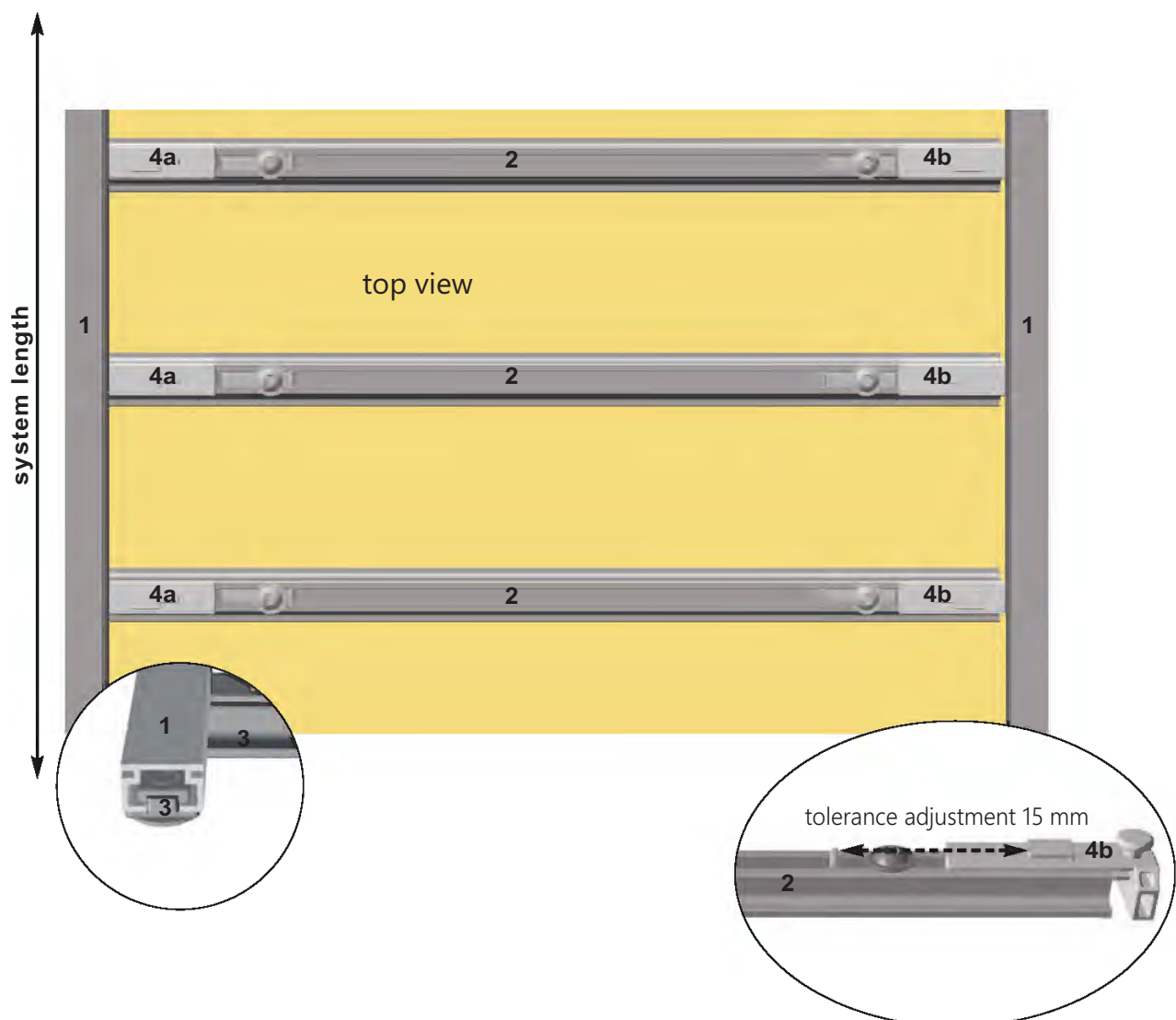


- 1 profile with run 6 mm - fix every 50 - 100 cm
Recommendation: screws 2.9 x 13 mm stainless steel A2
- 2 alu profile with velcro® tape
- 3 stopper
- 4a glider fixed
- 4b glider moveable (to compensate small tolerances)

scope of delivery

- Ready-made fabric with sewed velcro® tapes from regular distances of appr. 400 mm (the the sewing thread is uv-resistant)
- Alu profile pre-drilled (recommendation: fixing every 50 - 100 cm)
- Alu profile with velcro® tape • glider • stopper
- Stopper with magnet for locking at roof pitches

Delivery without operating rod and assembling screws.



external static
→ assembling under the rafters

magnetic stopper

stopper with magnet → for locking at roof pitches



magnetic stopper

a ceiling adapter with magnet

b stopper with magnet at the alu profile with velcro® tape



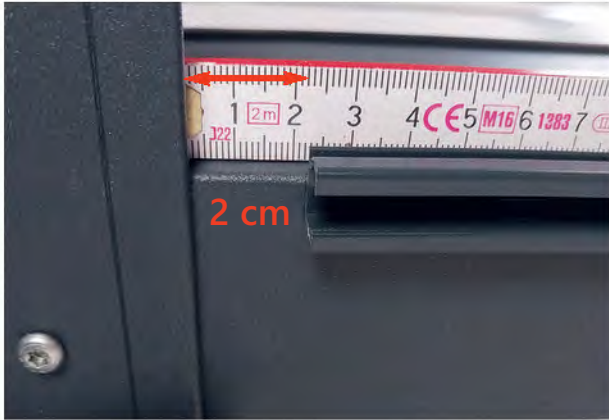
Adapter to avoid drill holes in water-bearing levels when fixing the lengthwise rails:



external static → assembling under the rafters

mounting

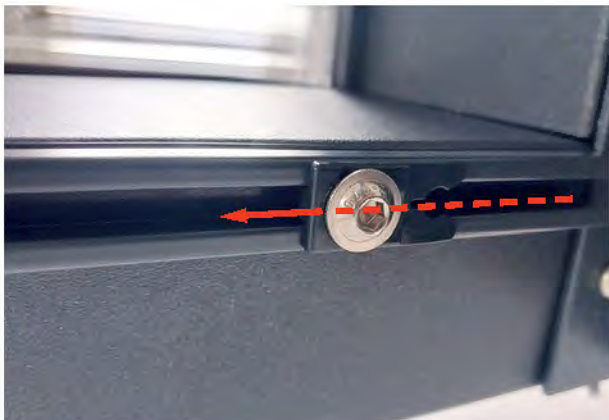
EASY
ASSEMBLY
IN JUST A FEW
STEPS



1.) Hold the lengthwise rail at the rafter, mark holes (start after 2 cm). Recommendation: every 50 - 100 cm (rail is predrilled every 50 cm).



2.) Screw the lengthwise rail under the rafter.



3.) Insert the stopper into the rail (house side or garden side = fabric stack side here) and fix with the screw.



4.) Insert **one** alu velcro® profile with glider into the lengthwise rail.



Please note that all moveable glider are mounted at one side and all fixed glider at the opposite side of the lengthwise rail.



5.) Loose the stopper screw again, push the stopper towards the velcro® profile and then fasten the screw again. Therefore the system is fixed here.

mounting



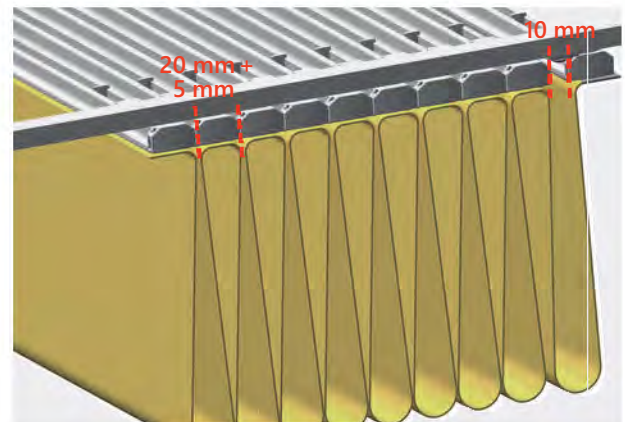
6.) Insert all other velcro® profiles on the opposite side of the system into the lengthwise rail (look at 4.).



7.) Insert the stopper at the rails ends and fix it (opposite to 3.).



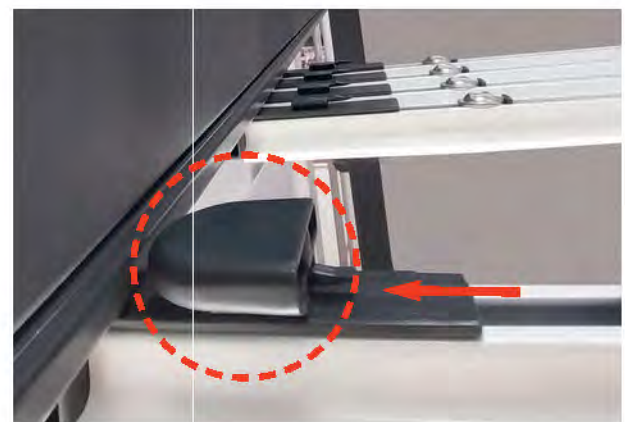
8.) Slide all velcro® profiles to the stack side.



9.) Determine of the stack dimension:
Quantity velcro® profiles á 20 mm +
5 mm interspace (for the fabric) + 10 mm stopper.



10.) Clamp one magnetic stopper at the end of the stack dimension between the rafter and the lengthwise rail and screw tight.



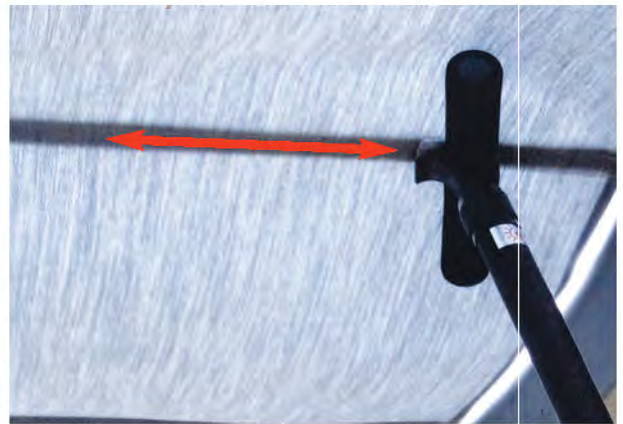
11.) Screw on the opposing magnet at the glider of the last velcro® profile. Now the stack is fixed here when the system will be opened.

attaching the fabric

Important: Pull the fabric in the area of the velour tape in shape before fastening, because sewing may cause wrinkles in the area of the velour tape.



a) Always start from the side (from right to left or the other way around)!



b) After attaching the fabric, press it along all velcro® strips once again with help of the operating rod.



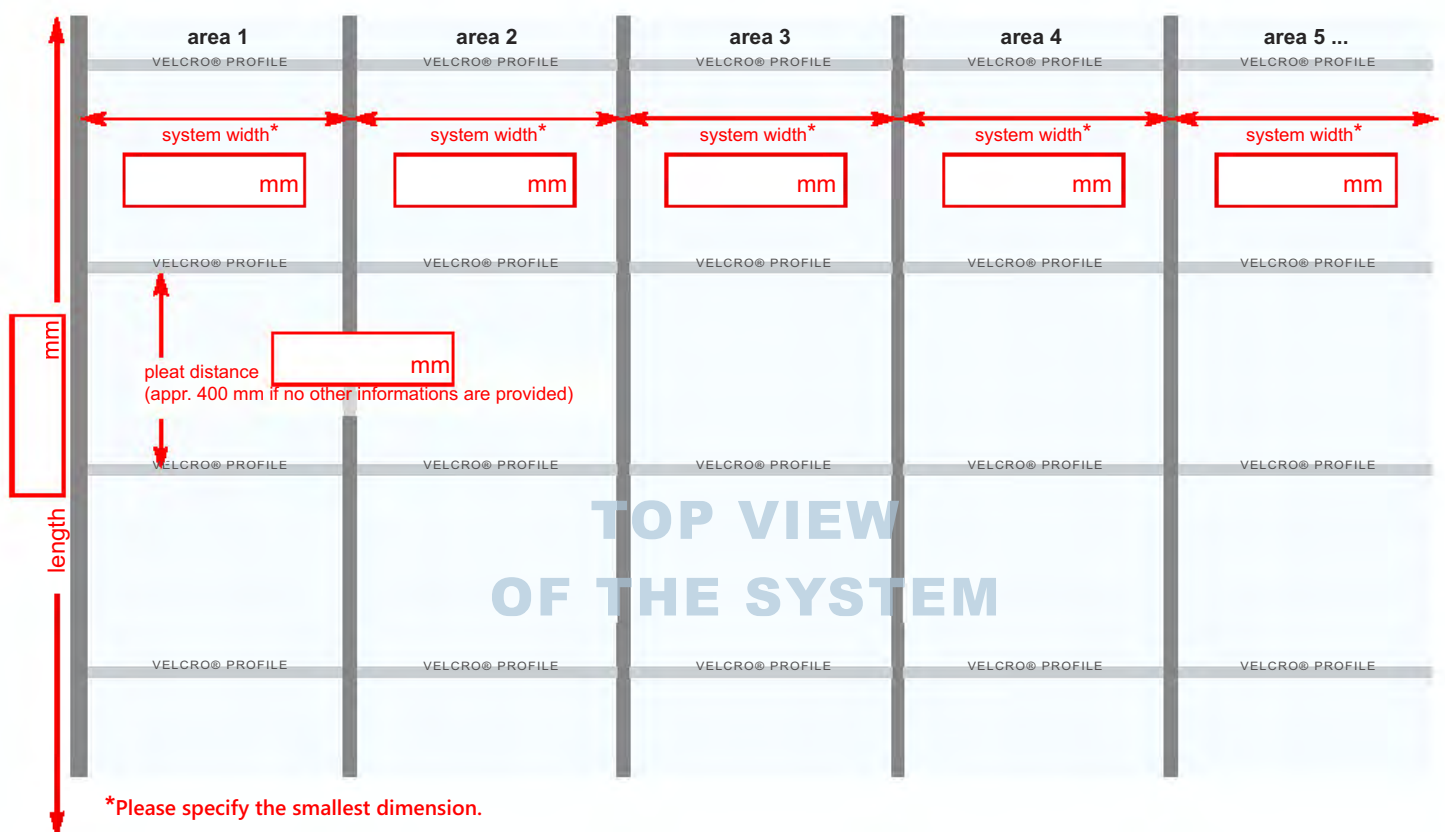
c.) Attach the (extendable) operating rod with the hook into the first velcro® profile.



d.) Pull the system until it is closed.

→ assembling under the rafters

measurements



CUSTOMER

purchaser / customer no.	company	Please note if an offer is existed.	
phone	street		
fax	postal code	city	
contact person	contact person	stamp	
commission	shipping date	date	signature

Please note if an offer is existed.































The static requirements for the installation of a shading system must be checked by the customer in advance. Our general terms and conditions at www.sunola.de apply. The warranty does not apply to field sizes outside our size specifications.

Each system is made to measure and cannot be returned or exchanged.

[illegible]

*The pleat distance is appr. 400 mm if no other informations are provided.

OPTIONAL ACCESSORIES - assembling under the rafter (external static):

operating rod extendable 105 cm - 180 cm	 pcs.	 pcs.	 pcs.	 pcs.	 pcs.
assembling angles only if required	 pcs.	 pcs.	 pcs.	 pcs.	 pcs.
mounting accessories for aluminium and wooden constructions bag 50 bit + drill bit screws	 pcs.	 pcs.	 pcs.	 pcs.	 pcs.
magnetic ceiling adapter for locking at roof pitches at several positions	 sets à 2 pcs.	 sets à 2 pcs.	 sets à 2 pcs.	 sets à 2 pcs.	 sets à 2 pcs.
adapter (mounting every 50 cm) To avoid drill holes in water-bearing levels when fixing the lengthwise rails.	 for 1 rail pcs.	 for 2 rails pcs.	 for 2 rails pcs.	 for 2 rails pcs.	 for 2 rails pcs.
stopper set with magnet and adapter For locking at roof pitches if using the adapter to avoid drill holes in water-bearing levels.	 sets à 2 pcs.	 sets à 2 pcs.	 sets à 2 pcs.	 sets à 2 pcs.	 sets à 2 pcs.

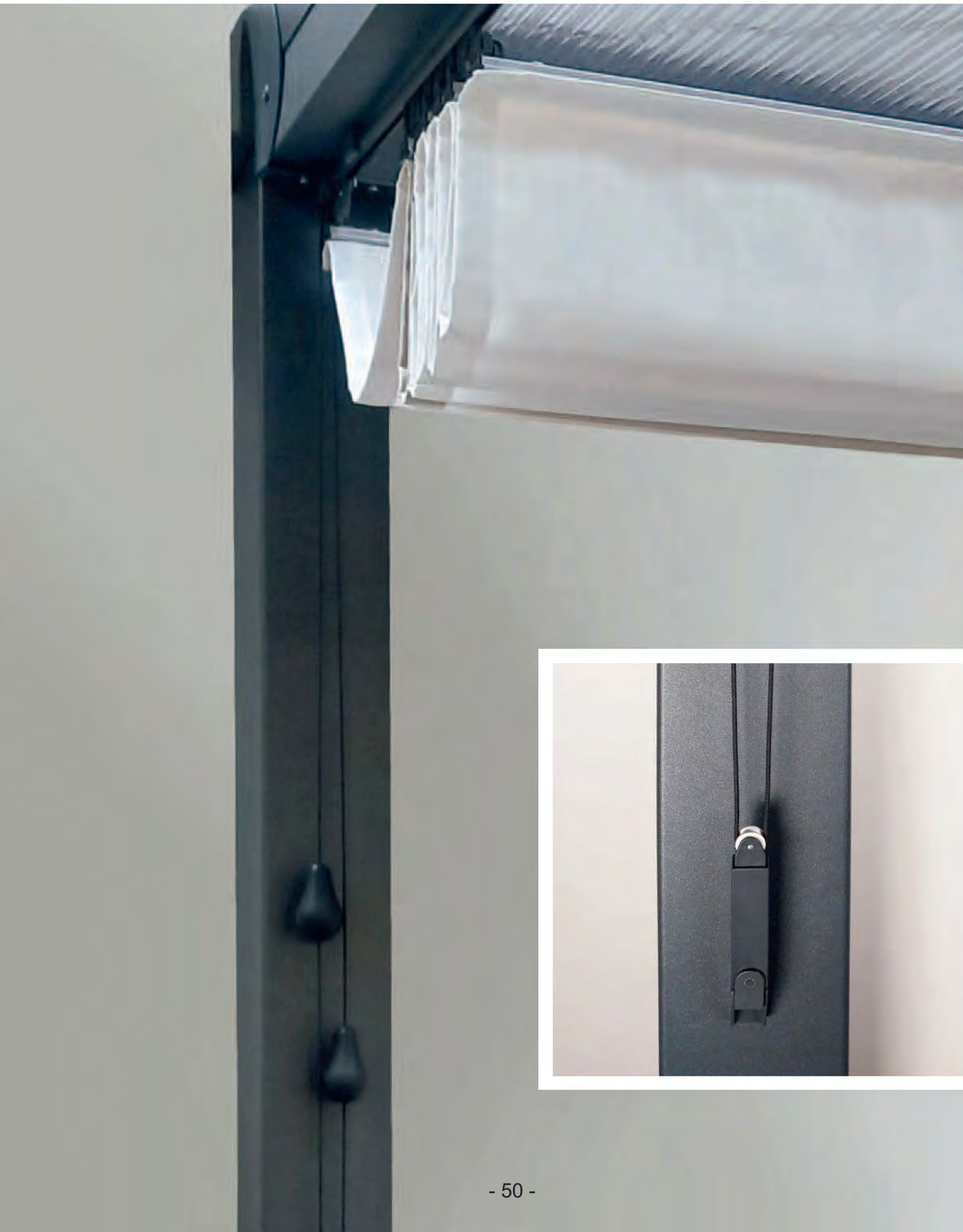
CORD



with operation cord

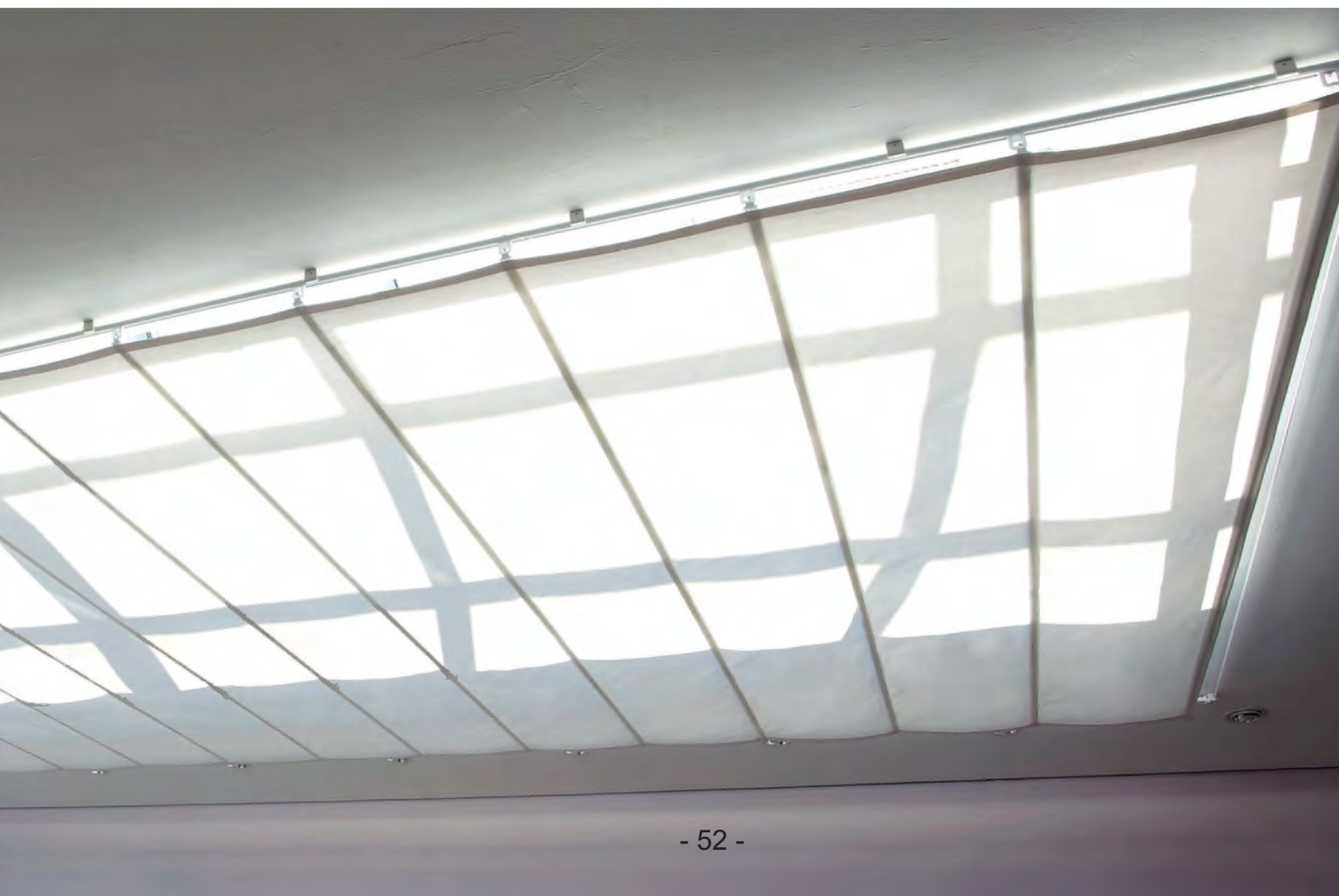
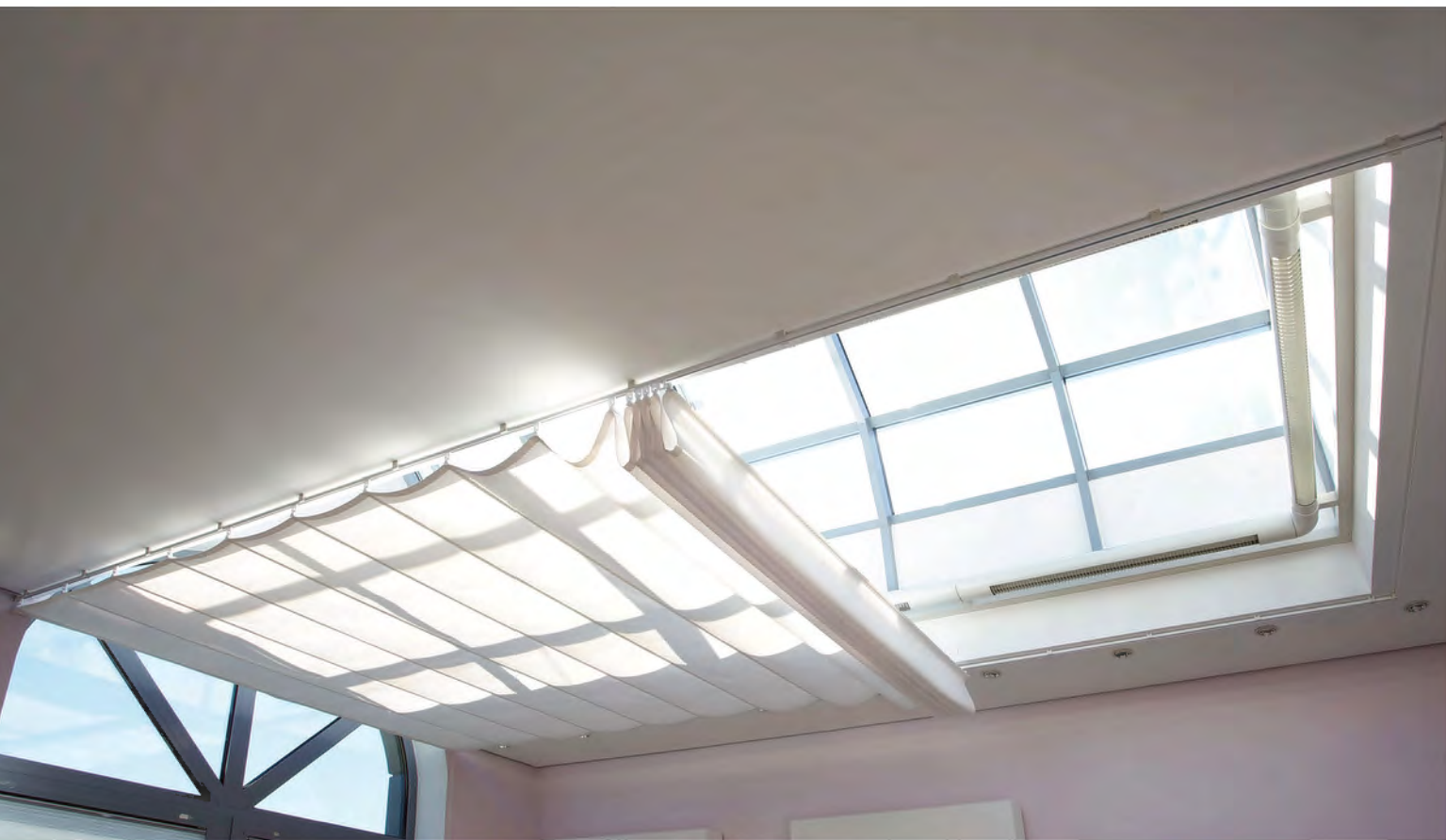


operating
with operation cord





operating
with operation cord



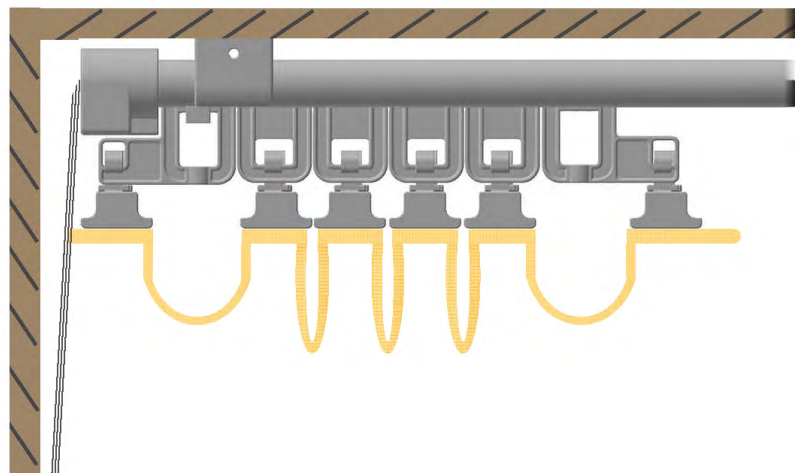


CORD



with operation cord

technical details



operating with operation cord

technical information

- Operating with operation cord
- Useable for terrace roof and wintergarden
- For plafond - roof pitches till max.15°
 - Please note:
A "cloud formation" of the fabric is not possible at roof pitches.
- System size max. 12 m²
 - system width max. 4000 mm / system length max. 6000 mm
 - An additional profile (middle profile) must be used for system widths more than 2000 mm. Optionally, the velcro® profile can be supported with a stabilising profile, if it is not possible to mount a middle profile (up to max. 2700 mm)
- Available colors:
 - Aluminium profile rod: white, anthracite, alu look - further colors on request
 - Aluminium profile with velcro® tape: white, alu look - accessories in matching colors
 - Spring tensioner: white, anthracite

Used plastics are UV-resistant.



scope of delivery

- Ready-made fabric with sewed velcro[®] tapes from regular distances of appr. 400 mm (the the sewing thread is uv-resistant)
- Aluminium profile rod with operation cord
- Operating unit
- Glider and guiding carriages
- Operating handle set for operating one CORD-system
- Ceiling clips (recommendation every 50 cm)
- Aluminium profile with velcro[®] tape and mounting hooks
- Spring tensioner

Without assembling screws.

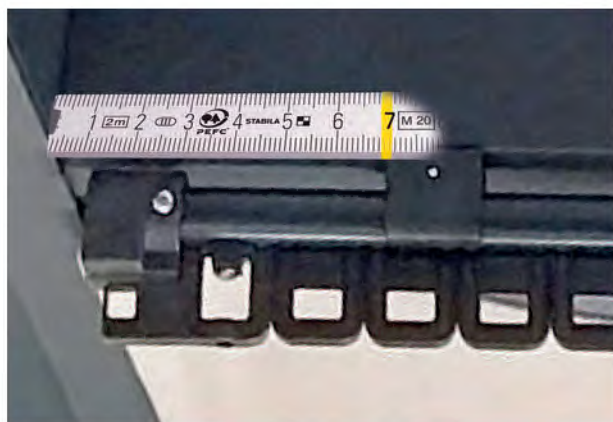


Child safety of interior privacy and sun screening: The operating lengths have to be produced and assembled in consideration of the EU Standard DIN EN13120. The static requirements for the installation of a shading system must be checked by the customer in advance. Our general terms and conditions at www.sunola.de apply. The warranty does not apply to field sizes outside our size specifications. In strong wind or storm the purchaser shall be individually responsible for the adequate protection of the sunola systems.

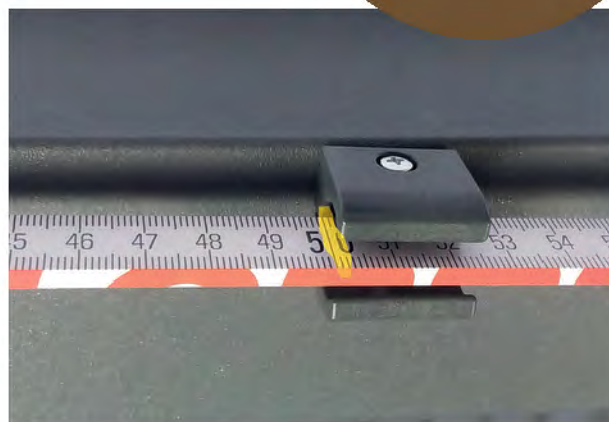
operating
with operation cord

assembling under the rafters

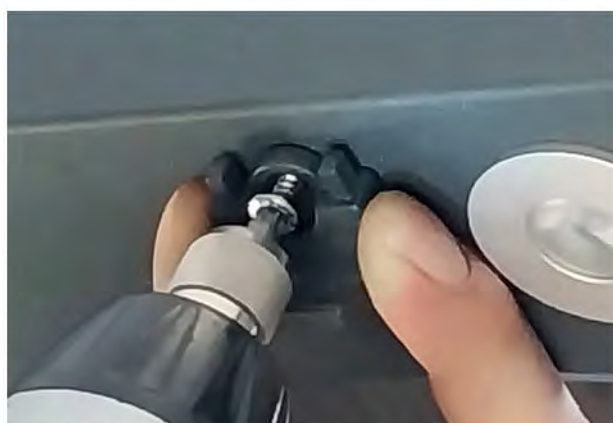
EASY
ASSEMBLY
IN JUST A FEW
STEPS



Install the first ceiling clip at a **distance of 7 cm** from the start of the system and the last ceiling clip 7 cm from the end of the system.



The ceiling clips in between are averaged and screwed on approx. **every 50 cm**.



1.) Screw one half of the ceiling clip to the ceiling.



2.) Only loosely screw the other half of the ceiling clip to the first half- **keep some play between the halves**.



3.) Insert the longitudinal profile into the ceiling clip - **the run vertical downwards!**



4.) Now tighten the ceiling clip screw.

assembling under the rafters



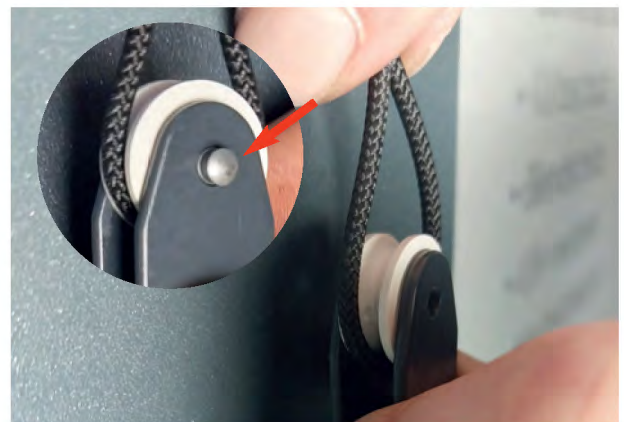
5.) Tension the system and readjust if required.



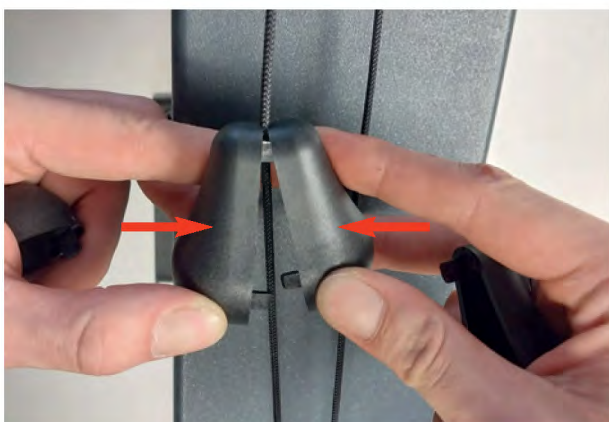
6.) Mounting spring tensioner: Apply tension to the cord, define position.



7.) Screw the spring tensioner tight accordingly.



8.) Insert deflection pulley and split the pin.



9.) Assembling the handles at the operating cord.



View of
operating cord
with operating handle
and spring tensioner

operating with operation cord

assembling under the rafters



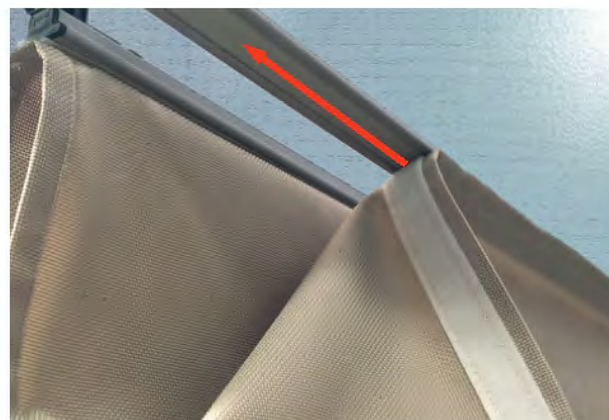
10.) Attach the velcro® profiles - Please note that the connecting hooks fixed with screws are always mounted on one side ...



... and the movable hooks all on the other side of the longitudinal profile.



11.) Attaching the fabric. **Important:** Pull the fabric in the area of the velour tape in shape before fastening, because sewing may cause wrinkles in the area of the velour tape.



Always **start from the side** (from right to left or the other way around)! **After attaching the fabric, press it along all velcro® strips once again!**



NOTES

OFFER NO.

SHIPMENT ADDRESS

CUSTOMER

purchaser / customer no.		company	
phone		street	
fax		postal code city	
contact person		contact person	
commission		shipping date	
		stamp	
		date	
		signature	

Please note if an offer is existed.

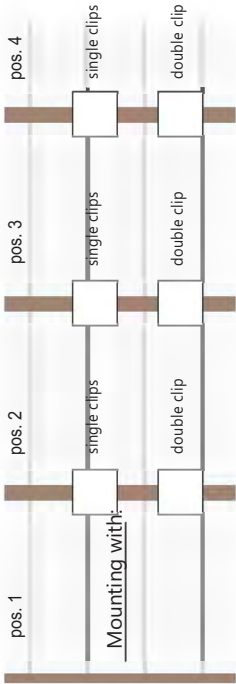


The static requirements for the installation of a shading system must be checked by the customer in advance. Our general terms and conditions at www.sunola.de apply. The warranty does not apply to field sizes outside our size specifications.

Each system is made to measure and cannot be returned or exchanged.

pos.	system width (mm)	system length (mm)	pleat distance* (mm) or: quantity velourtape*	fabric no.	profile color white anthrac. look	aluminum look	velcro® profile color white anthrac. look	operation A B C D	slack side GS HS	operating length** (mm)	incl. angle at roof pitch
					<input type="checkbox"/> white <input type="checkbox"/> anthrac. look	<input type="checkbox"/> alu look	<input type="checkbox"/> white <input type="checkbox"/> anthrac. look	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	<input type="checkbox"/> GS <input type="checkbox"/> HS		<input type="checkbox"/>
					<input type="checkbox"/> white <input type="checkbox"/> anthrac. look	<input type="checkbox"/> alu look	<input type="checkbox"/> white <input type="checkbox"/> anthrac. look	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	<input type="checkbox"/> GS <input type="checkbox"/> HS		<input type="checkbox"/>
					<input type="checkbox"/> white <input type="checkbox"/> anthrac. look	<input type="checkbox"/> alu look	<input type="checkbox"/> white <input type="checkbox"/> anthrac. look	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	<input type="checkbox"/> GS <input type="checkbox"/> HS		<input type="checkbox"/>
					<input type="checkbox"/> white <input type="checkbox"/> anthrac. look	<input type="checkbox"/> alu look	<input type="checkbox"/> white <input type="checkbox"/> anthrac. look	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	<input type="checkbox"/> GS <input type="checkbox"/> HS		<input type="checkbox"/>

Please mark if several systems should be mounted side by side:



* If no other informations are provided the pleat distance is appr. 400 mm

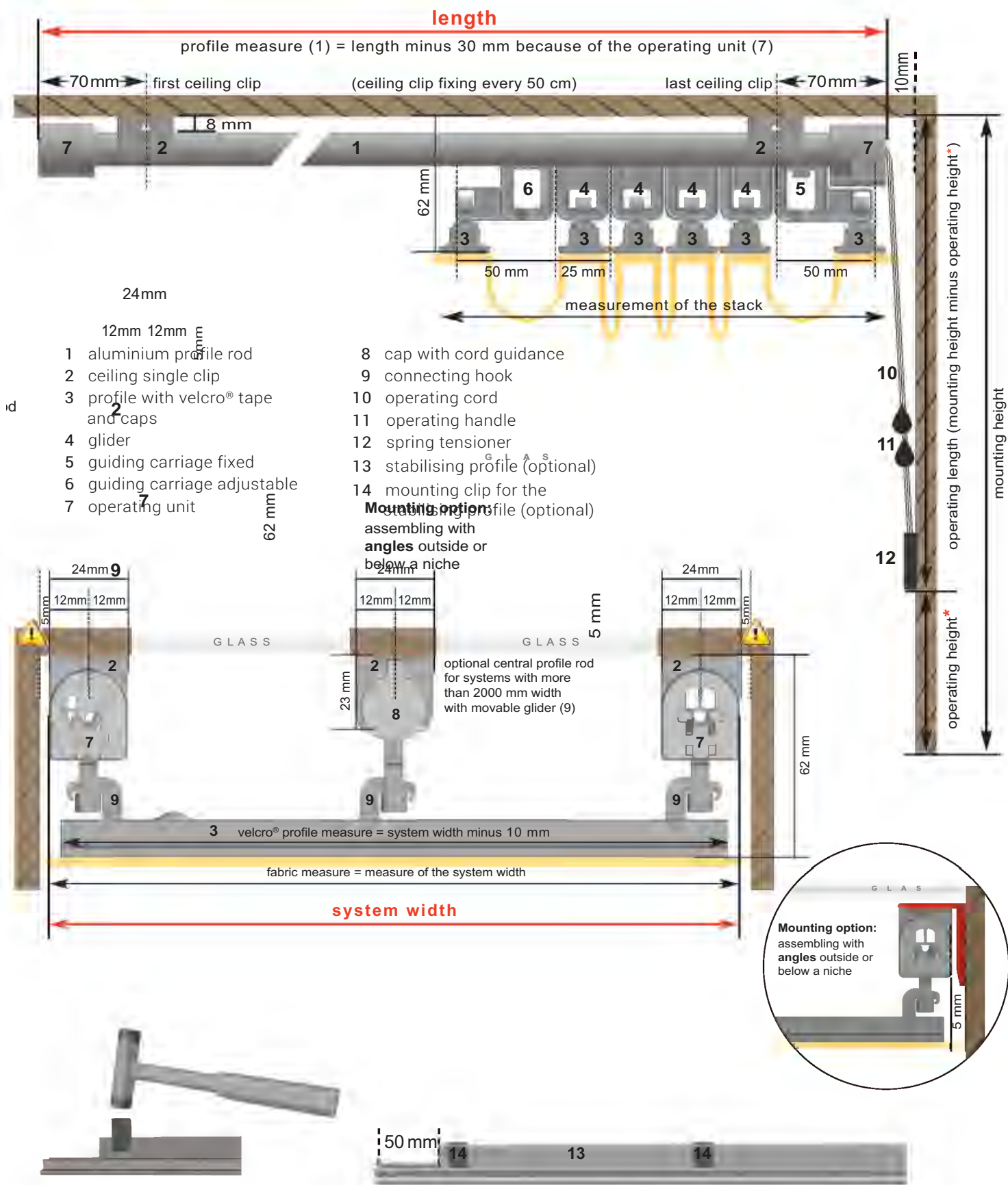
** By ordering the purchaser assures that the operator of the shading system with operating cord knows the content of the EU standard DIN EN 13120 and the possible dangers for children in case of non-compliance. In case of non-compliance of the DIN EN 13120, the purchaser and operator release the Nolle Kunststofftechnik from all claims of any kind of damages caused by the operation of the shading system with operating cord.

Optional:

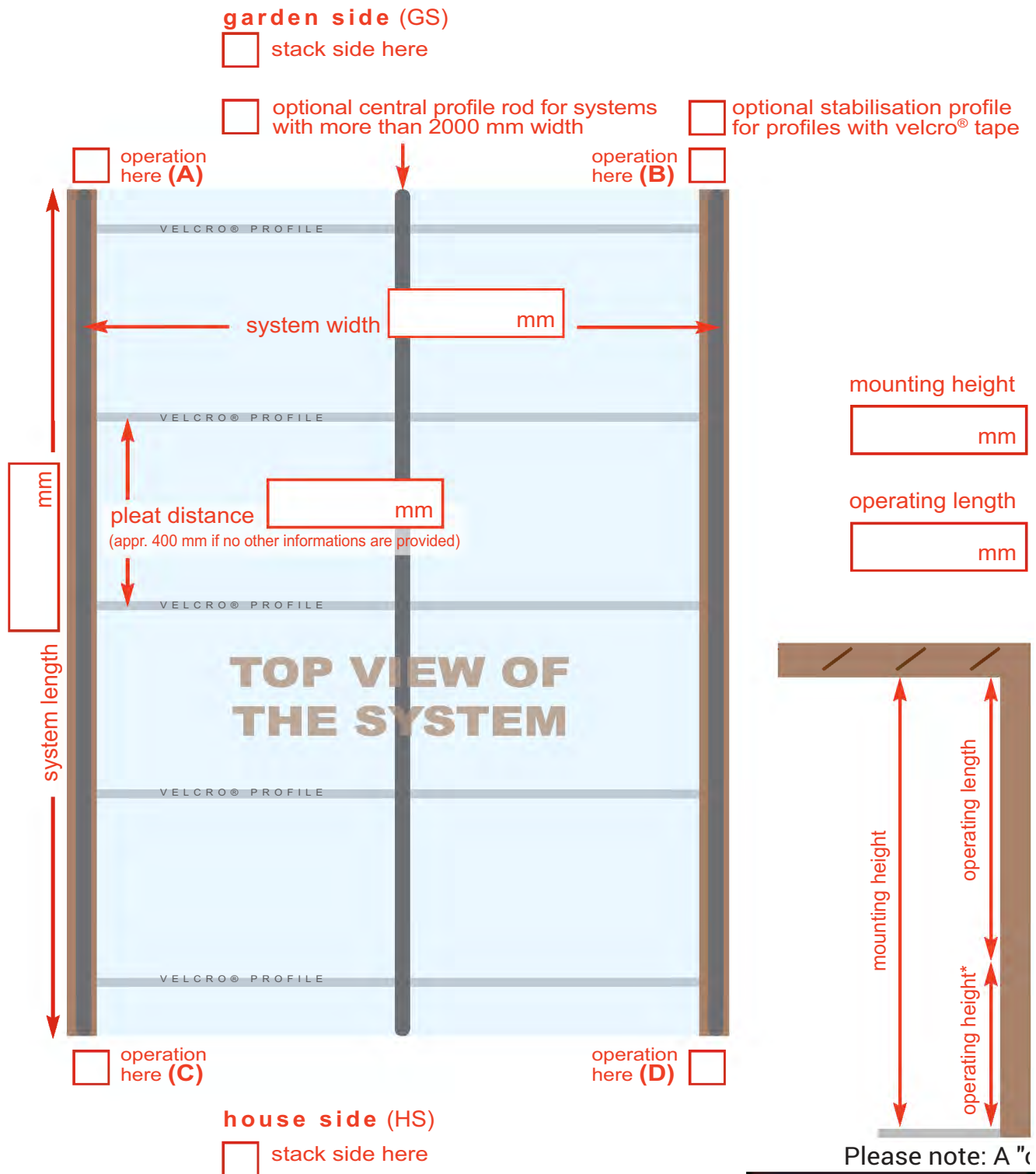
assembling angles	<input type="checkbox"/>	pcs.
stabilisation for velcro® profiles	<input type="checkbox"/> yes <input type="checkbox"/> no	

operating with operation cord

measurements single system

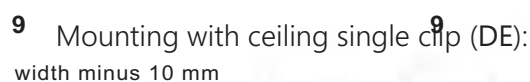


measurements single system



Child safety of interior privacy and sun screening:
The operating lengths have to be produced and assembled in consideration of the **EU Standard DIN EN13120**.

measurements several systems



measure of the system width

width

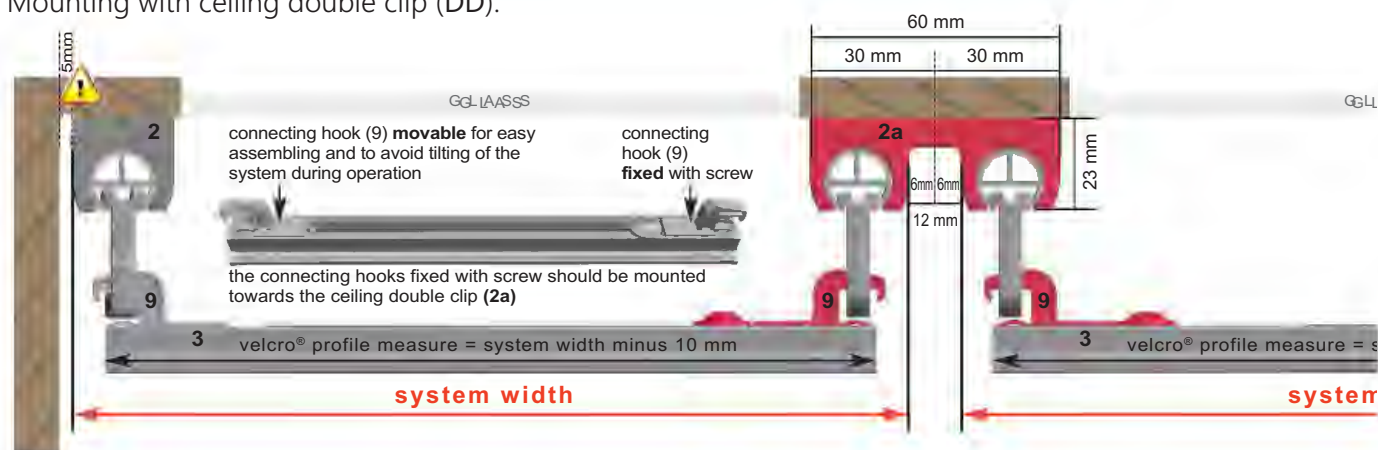
60 mm

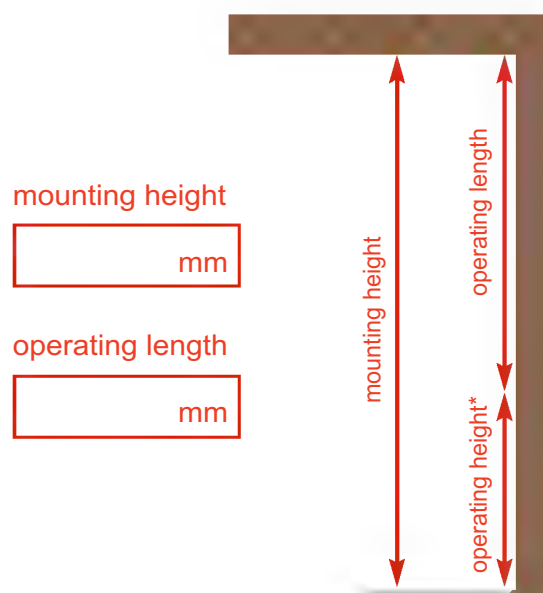
3 velcro® profile measure = system width minus 10 mm

fabric measure = measure of the system width

system width

Mounting with ceiling double clip (DD):





- 65 -

new

M-CORD

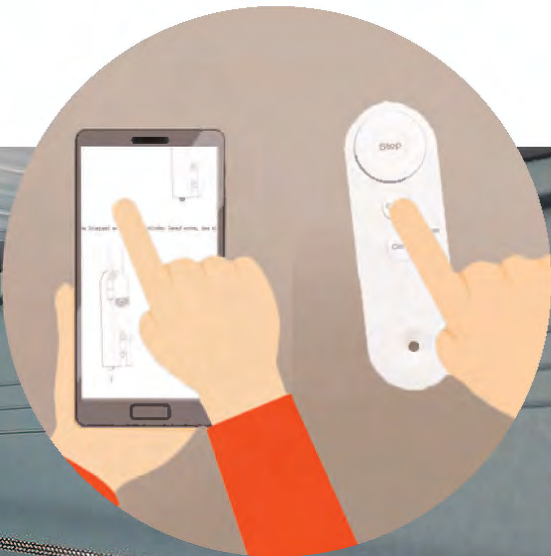


operation cord motorized



operation cord
motorized

new





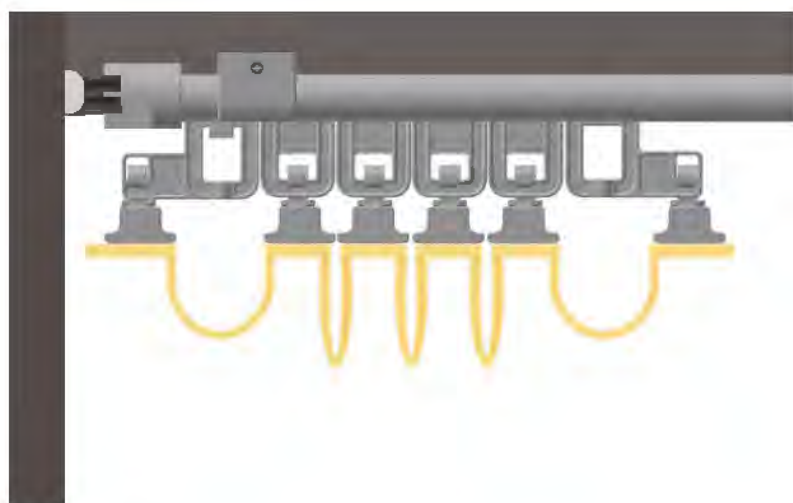
new

M-CORD



operation cord motorized

technical details



operation cord motorized

technical information

- Useable for terrace roof and wintergarden
- Electric cord pull operation
- Operation via Bluetooth, Wifi/ZigBee or remote control
- Motor with battery function - no power connection required
- Up to 2000 mm system width drive with 1 motor - more than 2000 mm operation with 2 motors
- Motor cover matching the color of the system
- Assembling between the rafters and under the rafters possible
- System length max. 4000 mm / system width max. 3000 mm
 - From a width of more than 2000 mm , an additional profile rod (middle profile) must be mounted.
- For plafond - roof pitches till max.15°
 - Please note: A "cloud formation" of the fabric is not possible at roof pitches.
- Available colors:
 - Aluminium profile tube: white, anthracite, alu look - further colors on request
 - Aluminium profile with velcro® tape: white, alu look - Accessories in matching colors
- Used plastics are UV-resistant.



scope of delivery

- Ready-made fabric with sewed velcro[®] tapes at regular distances of appr. 400 mm (the the sewing thread is uv-resistant)
- Aluminum profile tubes with pull cord, operating unit, glider and guiding carriages pre-assembled
- Wall and ceiling clips (mounting recommendation every 50 cm)
- 1 or 2 motors depending on the system size
- Aluminium profile with velcro[®] tape and mounting hooks without assembling screws

technology - drive 1 motor



technology - drive 2 motors



operation cord motorized

mounting

EASY
ASSEMBLY
IN JUST A FEW
STEPS

1.) Determine position

Important: There must be a distance of at least 5 cm between the roof and the fabric to prevent heat build-up.



When assembling over several fields, the mounting clip must be attached to the lower edge of the rafter.



2.) Predrilling (install the first mounting clip at a distance of 7 cm from the start of the system, the last mounting clip 7 cm from the system end).



3. Screw on one half of the mounting clip (all intermediate clips are averaged and attached approx. every 50 cm).



4.) Only loosely screw the other half of the mounting clip to the first half - **keep some distance between the halves.**



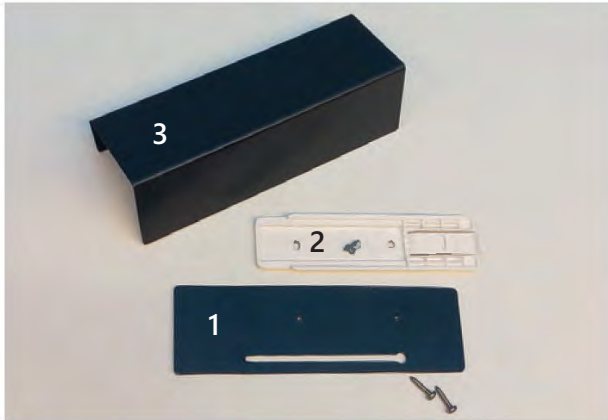
5.) Insert the longitudinal profile into the clip - **the run vertical downwards!** Then tighten the clip screw.



View of assembled profile tube with glider, operating unit and operating cord.

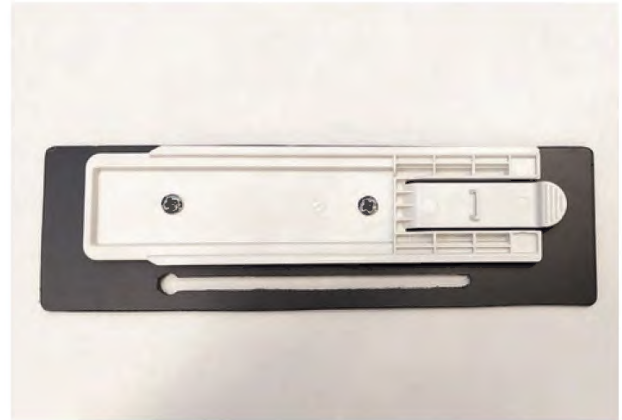
mounting

system with 1 motor



6.1) Motor installation - system with 1 motor

- 1 - mounting plate
- 2 - base plate of the motor
- 3 - motor cover cap



7.1) Screw the base plate of the motor onto the mounting plate.



8.1) Determine the position of the motor.
Place a loop of the pull cord **loosely** around the **rear roller** of the motor.



9.1) **Twist** the second loop of the pull cord and place it **loosely around the front roller** of the motor.
If necessary, adjust and tension the system.



10.1) Slide the motor onto the base plate.



11.1) Loosely screw the mounting plate with motor to the cross profile. Clamp the cover cap between the mounting plate and the cross profile. Tighten the mounting plate screws. If necessary, retighten the system (look at 12. and 13.), **continue with 14.)**

operation cord motorized

mounting

system with 2 motors

EASY
ASSEMBLY
IN JUST A FEW
STEPS



6.2) **motor installation - system with 2 motors**
The brackets for the motors can be screwed or glued on.



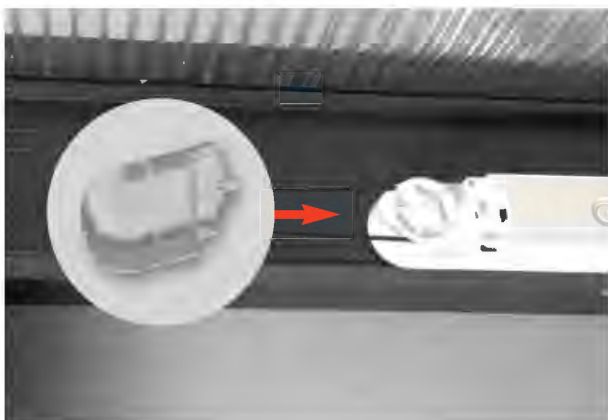
7.2) Attach brackets to the cross profile in the direction shown. **Distance to the side rails 200 mm.** The distance between the motors varies.



8.2) Slide the motors onto the brackets.



9.2) Place the pull cord loops of the system loosely around the rollers of the motors.



10.2.) Attach the caps.



Note: For systems from 2000 mm width, an additional longitudinal profile is included (without operating cord). Mount this approximately in the center according to 1.) till 5.).

mounting



12.) Pull the knotted end of the cord to tighten the operating cord.



13.) Mark the adjustment point, re-knot the cord and shorten it.



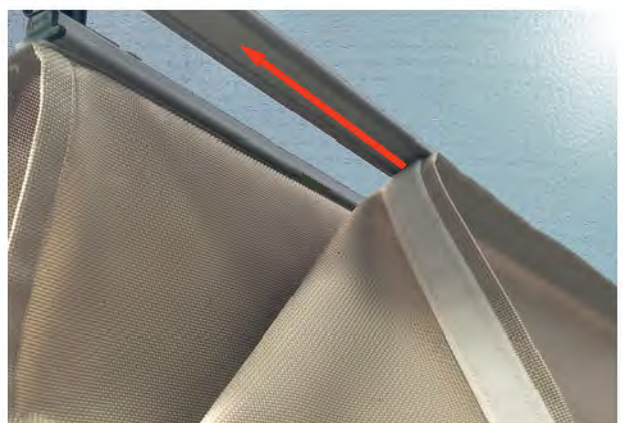
14.) Attach the velcro® profiles. Please note that the connecting hooks fixed with screws are always mounted on one side and the moveable hooks all on the opposite side of the longitudinal profile.



15.) Install the motor app or program the remote control (according to the enclosed instructions). Set, synchronize and test the system accordingly.



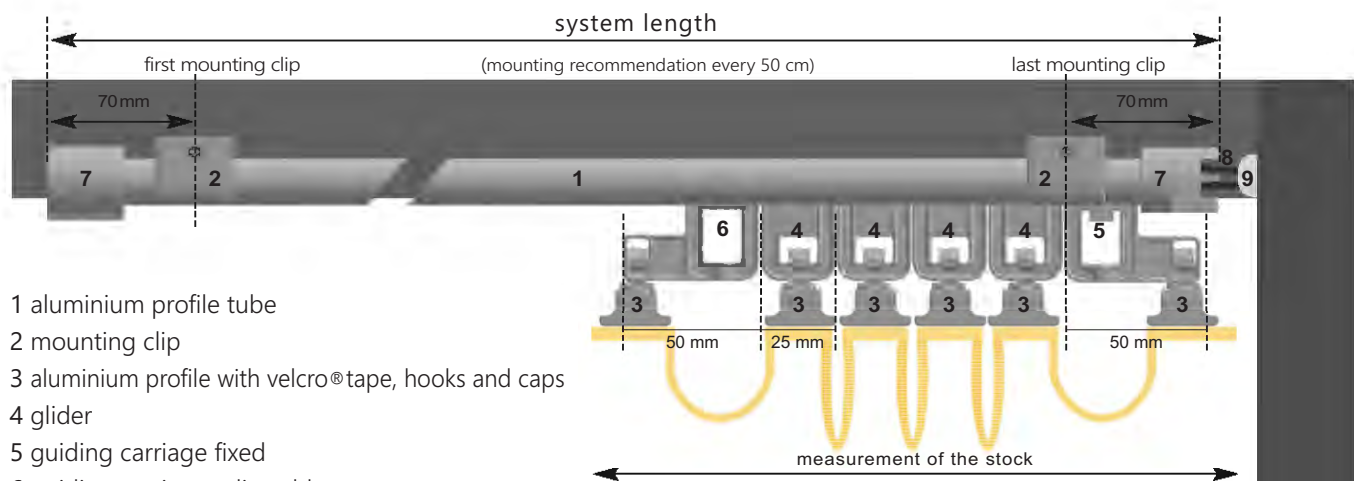
16.) Attaching the fabric. **Important:** Pull the fabric in the area of the velour tape in shape before fastening, because sewing may cause wrinkles in the area of the velour tape.



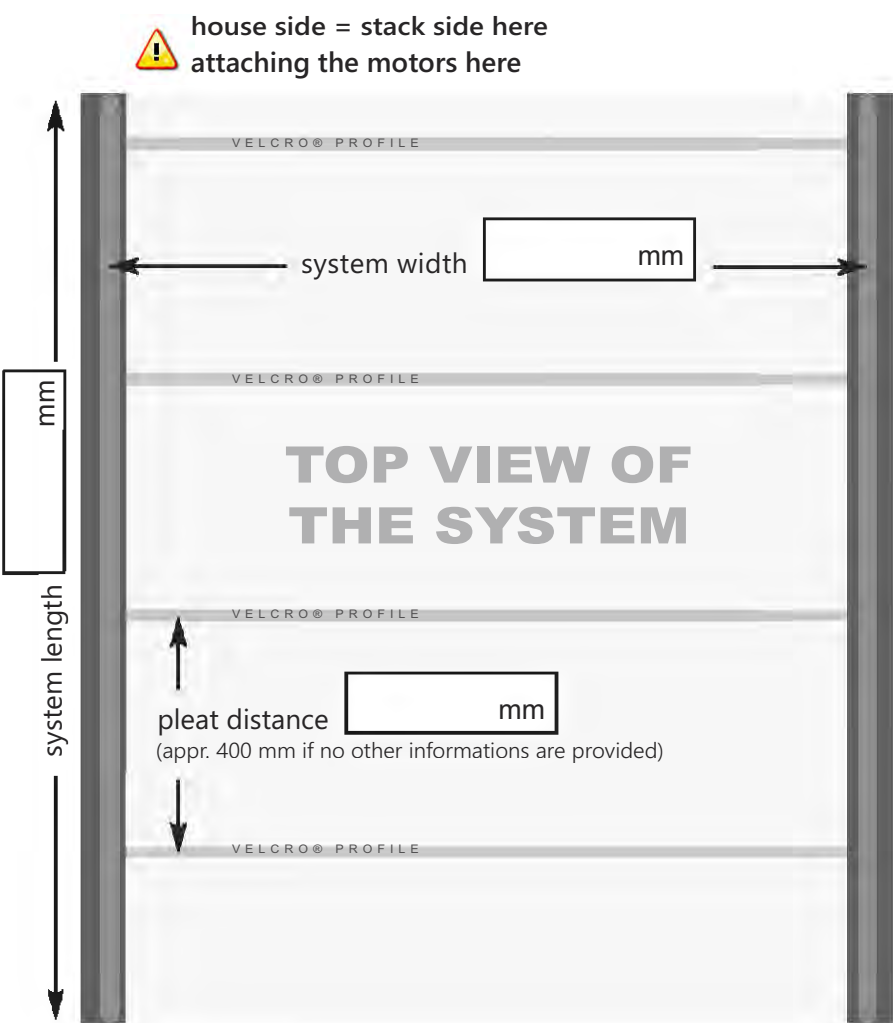
Always **start from the side** (from right to left or the other way around)! **After attaching the fabric, press it along all velcro® strips once again!**

operation cord motorized

measurements



- 1 aluminium profile tube
- 2 mounting clip
- 3 aluminium profile with velcro® tape, hooks and caps
- 4 glider
- 5 guiding carriage fixed
- 6 guiding carriage adjustable
- 7 operating unit
- 8 operation cord
- 9 motor



CUSTOMER

purchaser / customer no.

phone

fax

contact person

commission

SHIPMENT ADDRESS

company

street

postal code

city

contact person

shipping date

OFFER NO.


Please note if an offer is existed.

stamp


date

signature


NOTES



The static requirements for the installation of a shading system must be checked by the customer in advance. Our general terms and conditions at www.sunola.de apply. The warranty does not apply to field sizes outside our size specifications.



Each system is made to measure and cannot be returned or exchanged.

pos.	quantity	system width (mm)	system length (mm)	fabric no.	pleat distance* (mm) or: quantity verlourtape*	profile tube color white anthrac. alu look	velcro® profile white alu look	roof pitch angle 	operation via Blue-tooth Wifi/ Zigbee remote control
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Mounting

between the rafter under the rafter

* If no other informations are provided the pleat distance is appr. 400 mm.

Note: Depending on the size, the system is supplied with 1 or 2 motors.

M-TRACK

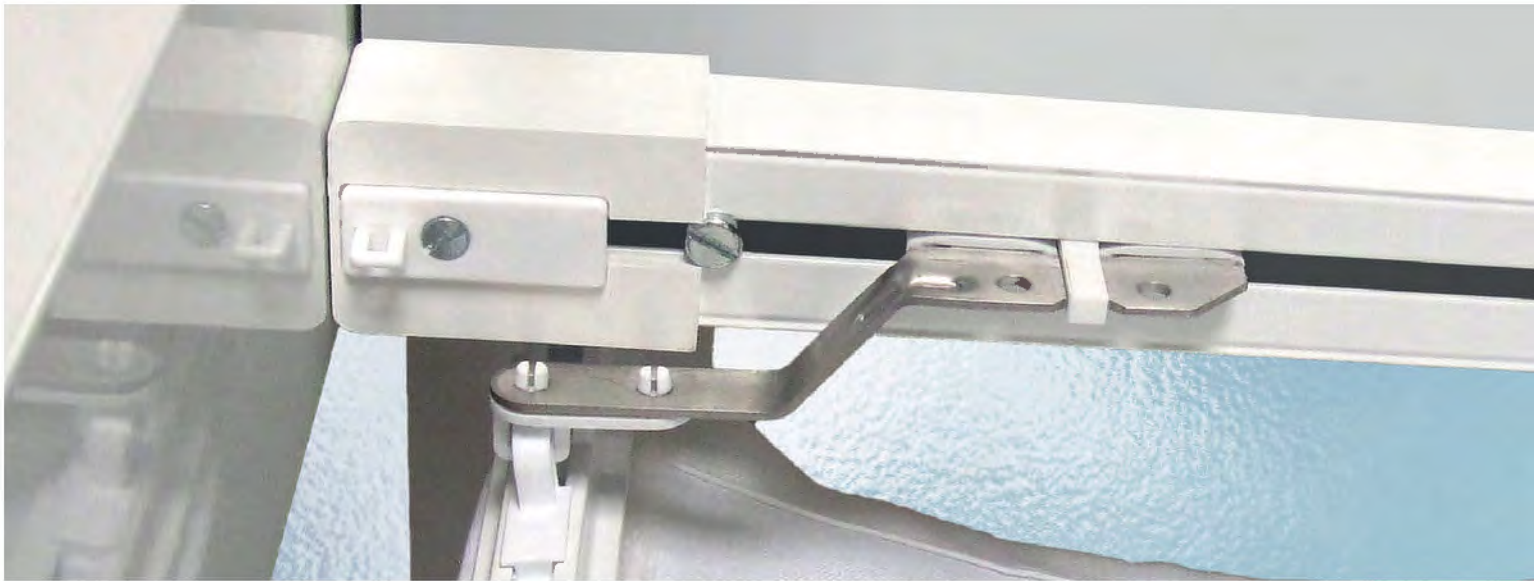


motorized



electric
operation

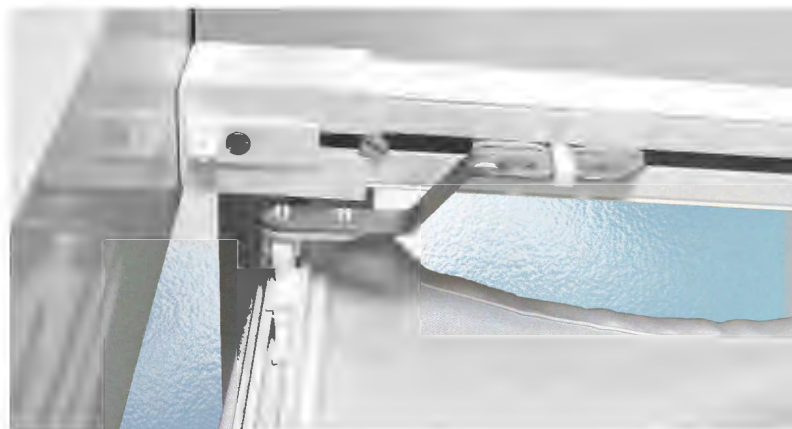




M-TRACK

motorized

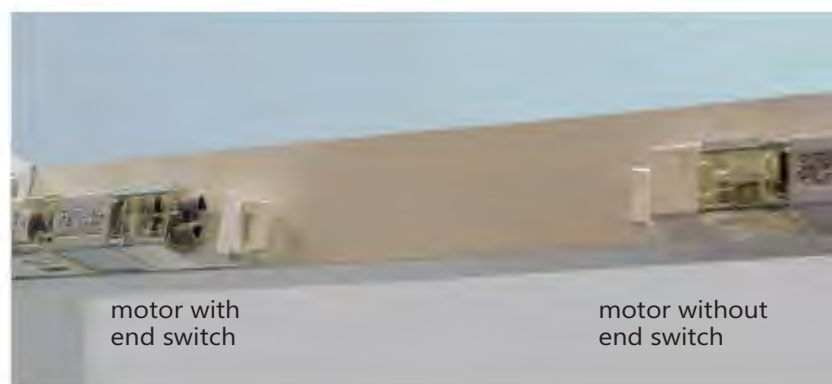
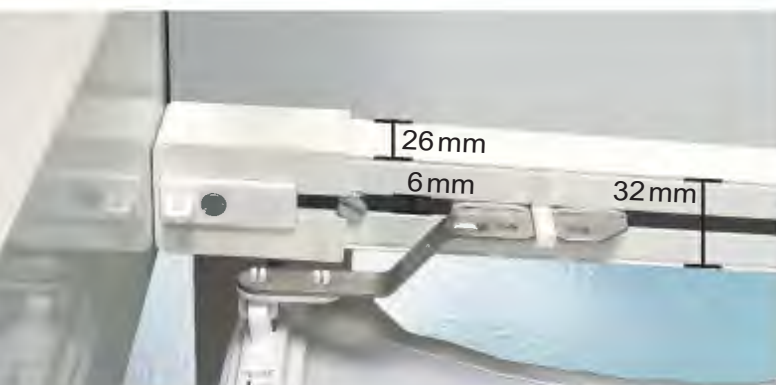
technical details



electric operation

technical information

- Operation with motor drive
 - For wintergarden and indoor areas - roof pitch up to 45°
 - Pleat distance approx. 400 mm
 - Please note:
A "cloud formation" of the fabric is not possible at roof pitches.
 - System size:
→ system width 750 mm at least - max. 1500 mm / system length max. 6000 mm
 - Straight or bent with radius 350 mm at least
 - Easy installation with quick release latch
 - Also suitable for higher rooms
 - Available colors:
→ Guiding rail: white RAL 9016, alueloxiert EV1
(further colors on request for an extra charge)
 - Aluminium profile with velcro® tape: white, alu look - accessories in matching colors.
- Used plastics are UV-resistant.



- More than 2000 mm system width, an additional guiding rail (center rail) is included.
Optionally, the velcro® profile can be supported with a stabilising profile,
if it is not possible to mount a middle guiding rail (up to max. 2700 mm).



Scope of delivery

- Ready-made fabric with sewed velcro® tapes from regular distances of appr. 400 mm (the the sewing thread is uv-resistant)
- Tandem Motor (preset)
consisting of motor with end switch + motor without end switch
- Cover profile motor side (without motor support)
- Carriage made of stainless steel - left and right - with accessories
- Glider with accessories
- Gear belt with stopper
- Aluminium profiles with velcro® tape



Please note that the motor is delivered without plug and transmitter. The motor is preset for the ready made systems. Test cable / test plug available on request.



The following motors are used: Motor tandem 230 V - 30W, 35W, 45W, 65W



The used motor depends on

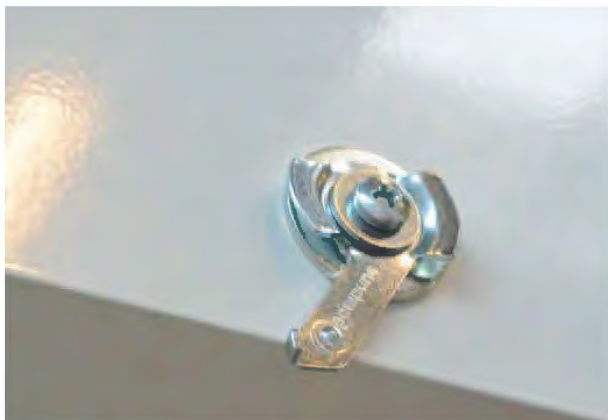
- system size
- fabric weight
- inclination

Connexions and supply lines have to be passed on site by authorized electricians according to VDE (German Electrical Engineering Association) and local EVU (electric supply company) instructions. For controls of two and more motors a group control is required. Cable laying plans and wiring diagrams for group and central controls as well as remote controls can be submitted on request. Switch off unused lines and systems before you connect the motor. Place push-buttons above a height of 1,5 m near the system. Allowed running periods and torques have to correspond with the motor's technical data. In order to avoid backing ups of condensers of running motors, parallel connexion of two or more motors at one exit is prohibited. For decoupling purposes a separate contact for each direction of rotation is required. Use only mechanically or electrically locked switches and push-buttons. Switches and controls may not permit concurrent up and down operation! The time to change the running direction from up/down to down/up has to be at a minimum of 0,5 seconds. This applies also for programmable control devices.

electric operation

mounting

EASY
ASSEMBLY
IN JUST A FEW
STEPS



1.) Mount the clamp bolt at the beam - **not too tight, the lever must be moveable!**



2.) Mount the rail. Make sure that there is a **gap to the engine side** because the cover profile must be fixed afterwards.



3.) Press the fuse till the rail edge (fuse is located at the clamp bolt).



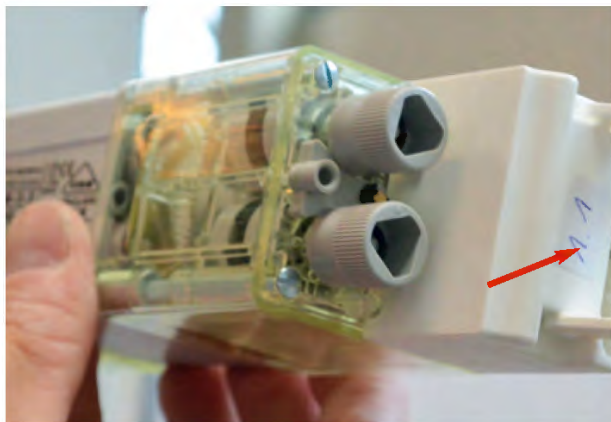
4.) Positioning the carriages. The carriages must face each other at the same height (move them up to to the marking on the rail profile).



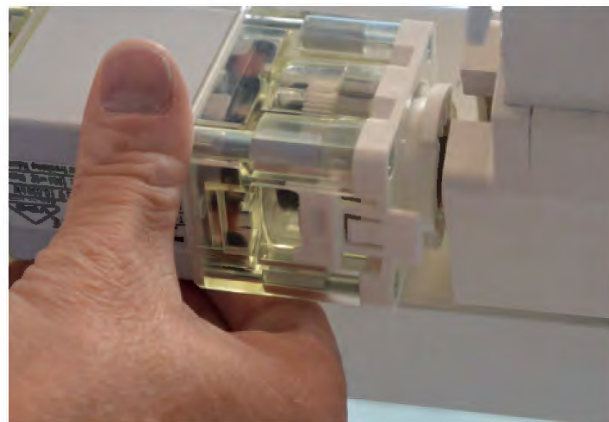
The marking point depends of the engine settings.
Recommendation: **Leave space and place the carriages in the middle of the profile.**

electric operation

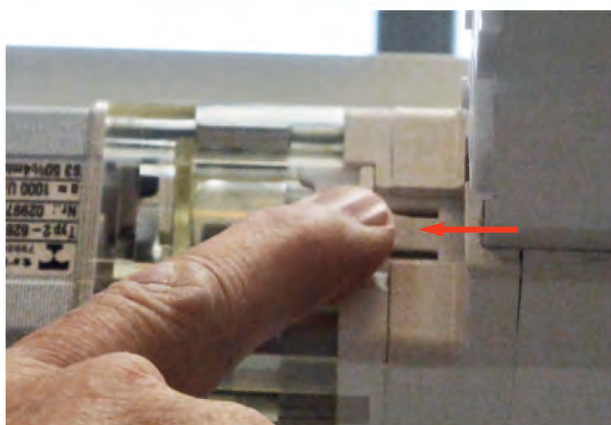
mounting



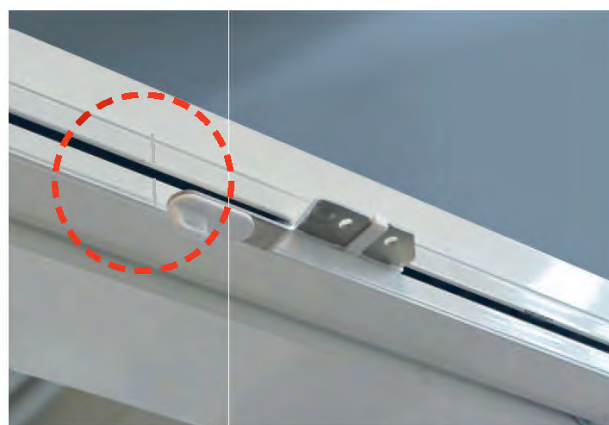
5.) Installation of the engines. The engine and the profile side are marked with the same figures (for example 1.1.)



6.) Turn the engine into the pulley of the profile. **The engine number must be visible.**



7.) Secure the engines.



8.) Review the carriage at the mark.



9.) Fix the cover profile with screws.



10.) The system can be tested with a test cable (not included) in order to adjust the motor setting if necessary (a finger's width of space should be left between the glider and the carriages).

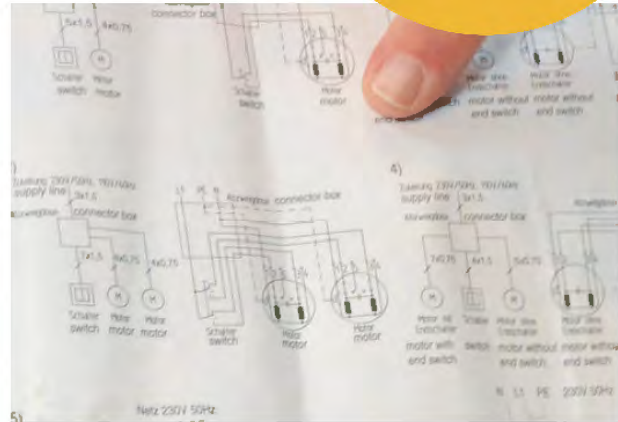
electric operation

mounting

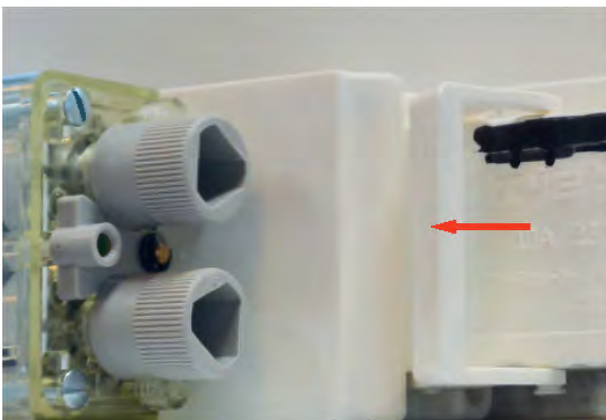
EASY
ASSEMBLY
IN JUST A FEW
STEPS



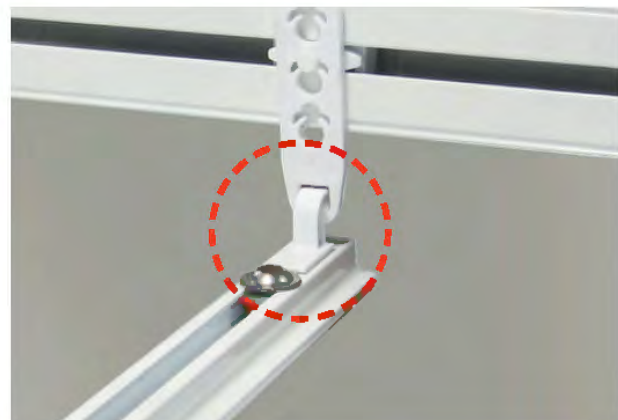
Note: The customer **must choose the kind of** operating: transmitter / remote receiver / switch



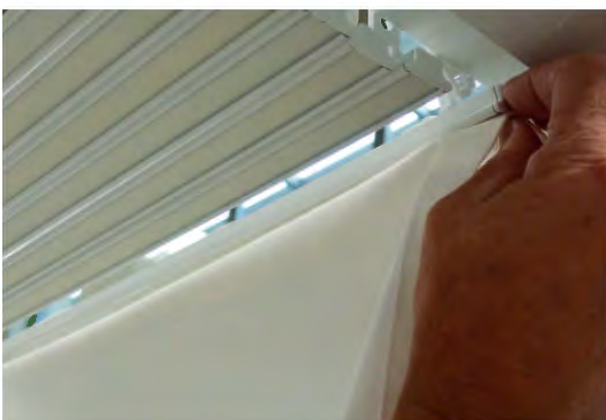
The corresponding circuit diagram is included to the engines. To an M-TRACK system applies position 4.



Important: After connecting the electrics, the bracket must be locked (press in the direction of the plug).



11.) Hook the velcro® profiles into the gliders.



12.) Attaching the fabric. **Important:** Pull the fabric in the area of the velour tape in shape before fastening, because sewing may cause wrinkles in the area of the velour tape.



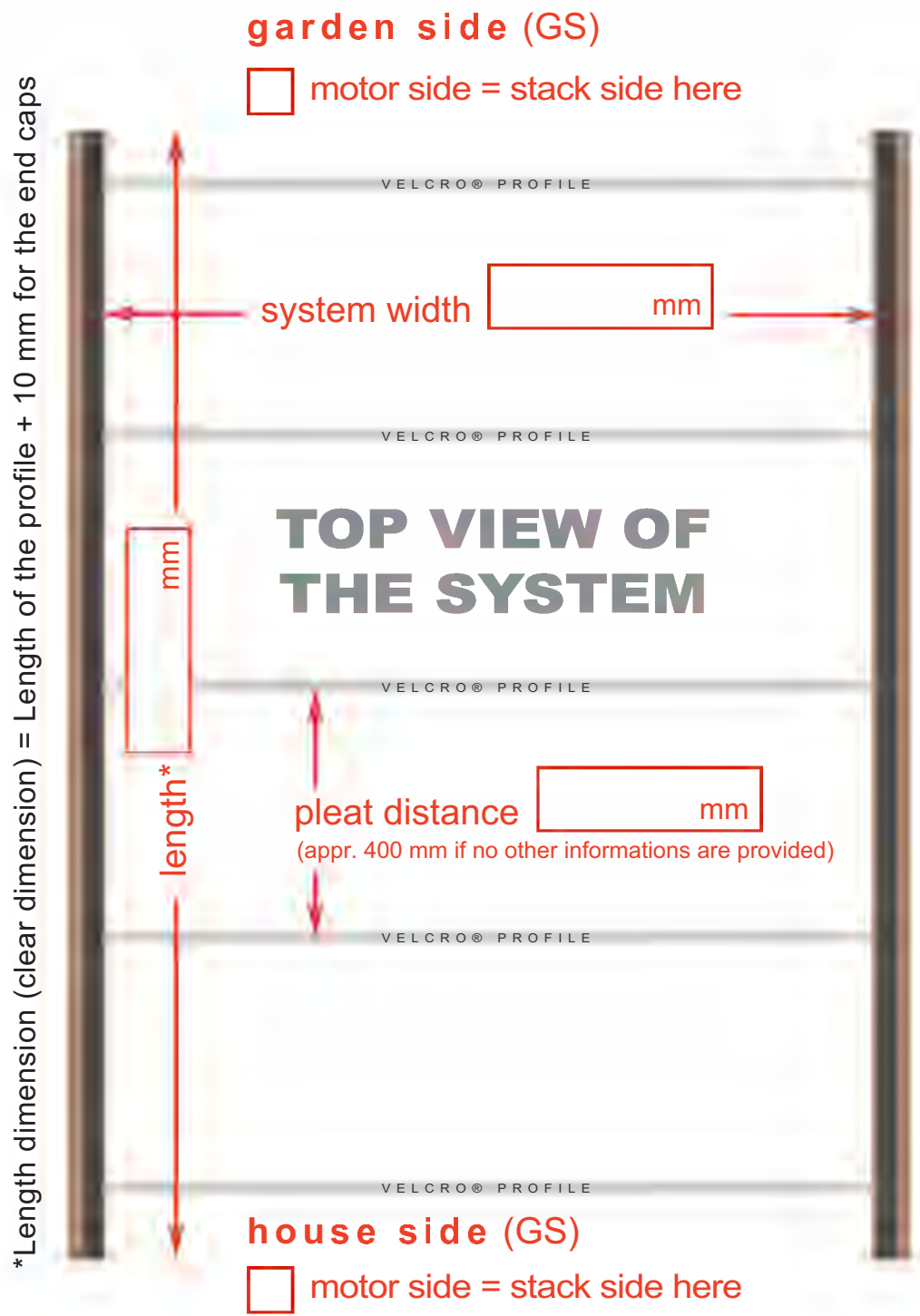
Always **start from the side** (from right to left or the other way around)! **After attaching the fabric, press it along all velcro® strips once again!**

electric
operation



electric
operation

measurements





NOTES



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Each system is made to measure and cannot be returned or exchanged.

OFFER NO.

Please note if an offer is existed.

SHIPMENT ADDRESS

company

street

postal code city

contact person

shipping date

CUSTOMER

purchaser / customer no.

phone

fax

contact person

commission

signature

date

position	quantity	system width (mm)	system length (mm)	pleat distance * (mm) or: quantity velcro® tape *	fabric no.	guiding rail color	white RAL9016	alu anodized EV1	velcro® profile color	white	alu look	motor side = stack side	GS	HS	incl. angle at roof pitch	systems should be mounted side by side	yes	no

* If no other informations are provided the pleat distance is appr. 400 mm.

OPTIONAL ACCESSORIES

transmitter	1	5/1	10/1	radio receiver	test cable / test plug	stabilisation for the velcro® profiles	yes	no

sunola® shading

our
variety
of
fabrics

season sunlike evuscreen sunout dreamlike -DS



HAND
CORD
M-TRACK

PGVS



- 100% dralon® acryl
- cotton look
- opaque
- sun protection
- UV-resistant
- light fastness
- water repellent
- easy to care
- rugged and durable
- 100% polyester
- UV-resistant and high light fastness
- dirt and water repellent
- high abrasion resistance
- easy to care
- high tear resistance
- oeko-tex
- 100% solution-dyed acrylic
- UV-resistant
- sun protection of UV radiation up to 60%
- UV-resistant
- breathable
- water repellent
- weather resistant
- no rotting
- moth resistant
- antiallergic



www.sunola.de

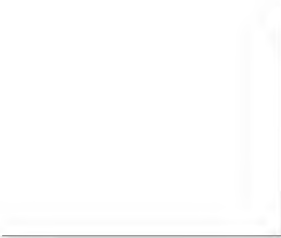
www.sunola.de

www.sunola.de

www.sunola.de

www.sunola.de

SPN 111 white



SPN 112 beige








SPN 114 grey



SPN 115 taupe



sun protection factor	EN 13758-1	UPF 50+
light and radiation parameter	EN 14501	measured value on request
temperature resistance	DIN 53361	-30 / +90 °C +/- 10°C
material	100% polyester	
width	EN 1773	240 cm +/- 2 cm
water pressure resistance	EN 20811	≥ 35 (≥ 350) mbar (mm)
water repellency	EN ISO 4920	grade ≥ 4-5 von 5 (5 = very good)
weatherproof	ISO 105-B04	grey scale grade ≥ 4-5 von 5 (5 = very good)
light fastness	ISO 105-B02	grey scale grade ≥ 4-5 von 5 (5 = very good)
type of equipment	SNC impregnation: Novel highly effective stain and water repellent impregnation, air-permeable, weather-resistant and immune to rotting.	
cleaning recommendation	<div></div> <div>Dirt can be rinsed off using a water jet (no high pressure) or washed in the washing machine at max. 30°C on the gentle cycle. We recommend reimpregnation after cleaning. Common impregnation products for tent or awning fabrics can be used. Do not brush out stains dry, as there is a risk of rubbing the dirt into the fiber. After cleaning or reimpregnation allow the fabric to air dry.</div>	
Oeko-Tex Standard 100	test no. A96-0071 (FI Hohenstein) product class IVI	
REACH regulation	(EC) Nr. 1907/2006 no SVHC substances according to Art. 59 (1) - state Jan. 2022	

The technical data mentioned are average values available at the time of preparation of this data sheet.
They only represent the technical product properties and the material composition. No guarantee is given.



season

SN 20 white



SN 36 sand



SN 06 grau



sun protection facton

UPF 50+ (AS/NZS 4399/1996)

UV-resistance

6-7 of 8 (ISO 105 B 02 2014-11 method 2)

material*

100% dralon® polyacrylic - cotton look

*The brand stands for a special fiber type,
which is defined by BISFA and ISO 2076.

finish

DIRT-LIQUID-PROTECT

cleaning recommendation



Cleaning can be carried with standard mild detergents.
After a thorough rinsing, the material must be dried.
After cleaning, reimpregnation (with tent impregnation)
may be necessary.

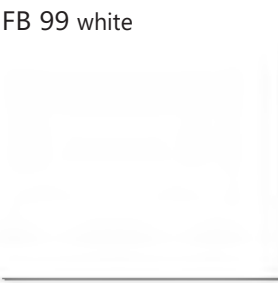
width

160 ± 2 cm


The above technical data are average values that were determided at the time this data sheet was created.
A guarantee is not provided.



sunout



The curtain quality sunout combines comfortable indoor haptics with the highly technical properties of an outdoor textile. The innovative color pigments embedded in the fiber largely prevent fading even under intense UV radiation.

sun protection factor	UPF 50+		
cleaning recommendation	 do not steam iron		
material	100 % solution-dyed acrylic		
width	FB 99 ca. 300 cm FB 98 ca. 140 cm		
weight	ca. 221g /m ²		
rapport	uni		
extremely high light fastness (more than 2500 xenon light hours or lightfastness 7-8)			
lightfastness	(grey scale)	AATCC 169-1995	>2500 h
	(blue scale)	DIN EN ISO 105-B02	grade 7-8 of 8 (8 = very good)
oeko-tex standard 100	14.0.54624 Hohenstein HTTI		



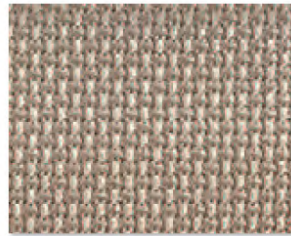
The above technical data are average values that were determined at the time this data sheet was created. They only represent the technical product characteristics. A guarantee is not provided.

vuscreen

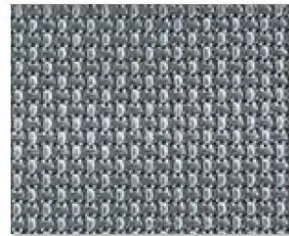
VS 01 white UPF 30+



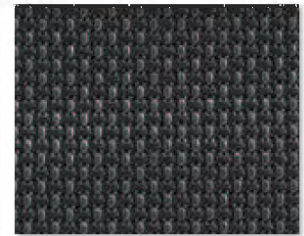
VS 02 linnen UPF 40+



VS 03 steel UPF 20+



VS 05 anthracite UPF 30+



highly flame retardant plain transparent screen fabric

sun protection factor

UPF 20+ - 45+

material

ISO 2076

100% polyester

fabric width

300 cm +/- 2 cm

flame retardent

DIN 4102 (B1)

water column

ISO 811

water permeable due to special hole formation

weather fastness

ISO 105-B04

grade ≥ 7 of 8 (8 = very good)

light fastness

ISO 105-B02

grade ≥ 7 of 8 (8 = very good)

temperature resistance

DIN 53361

-30 / +90 °C +/- 10°C

cleaning recommendation



Dirt can be rinsed off using a jet of water (no high pressure). If needed sponge down or soft brush with a small amount of mild detergent using max. 30°C (86°F) warm water to clean. Strong friction should be avoided. Then repeatedly rinse the fabric with clean water and allow to dry.

finishing

FR + SFC finishing:

Flame retardant, dirt, water and oil repellent impregnation.

Weather resistant and rotting resistant.

creases as a result of folding the fabric*

Crease can appear during the cover making process and when the fabric is folded. A dark line may become visible at the crease when viewed against the light, especially with light colours. This is because the fibres are bent when the fabric is folded, which changes the light transmitting quality of the material. This effect has no influence on the quality, functionality or working life of the fabric.

*published by BKTex, German Association of Manufacturing Technical Textiles

oeko-tex standard 100

A96-0071 (Hohenstein HTTI)


REACH regulation

(EG) no.1907/2006 no SVHC substances in compliance with Article 59 (1) - as of June 2015



Alle genannten Technischen Daten sind Durchschnittswerte die zum Zeitpunkt der Erstellung dieses Datenblattes ermittelt wurden. Sie stellen lediglich die technischen Produkteigenschaften und die Materialzusammensetzung der gelieferten Ware dar. Eine Garantie wird nicht gegeben.

dreamlike-DS

sun protection factor	DS fabrics filter at least 90% of all UVA rays and at least 99% of all UVB rays.	
material	100% Sunbrella acrylic plain weave	
width	137 cm	EN 1773
reversible	yes	
finish	water repellent & dirt repellent	
cleaning recommendation	 <p>We recommend protecting the fabric after cleaning again with an impregnating agent.</p>	
residual shrinkage at 30°C	30° C ≤ 1%	
color fastness during washing	ISO 105 C06	grade 5 of 5 (5 = very good)
weather resistance 1000 h	ISO 105 B04	grade 4/5 of 5 (5 = very good)
UV-Beständigkeit indoor	ISO 105 B02	grade 8 of 8 (8 = very good)
fire class		
California Technical Bulletin	117-203 Abschnitt 1	
NFPA 260	class 1	
NF EN 1021-1	no burning	

The specifications for this product may deviate by ± 5%.



dreamlike-DS

dreamlike-DS



DS 5404
natural



DS 5453
canvas



DS 3780
lin



DS 5422
antique beige



DS 3965
blush



DS 4000
hive



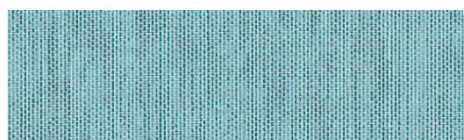
DS P101
coral



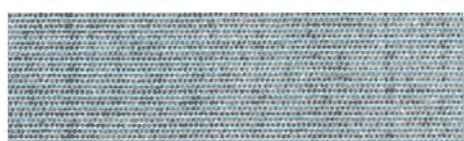
DS 3968
pepper



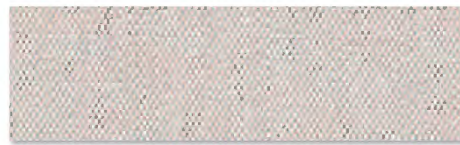
DS 5499
true blue



DS 3964
curacao



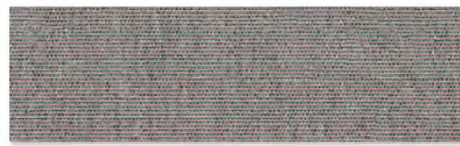
DS 3793
mineral blue



DS 3741
silver grey



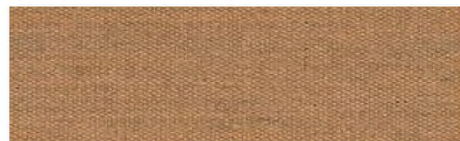
DS 3966
marble



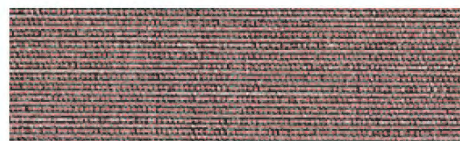
DS 3756
lead chiné



DS 3970
lichen



DS 5476
heather beige



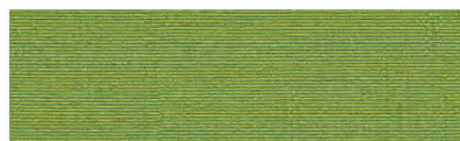
DS 3907
taupe chiné



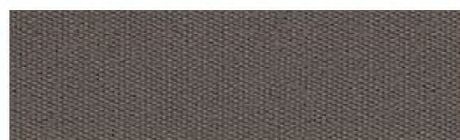
DS 3792
dark smoke



DS 3983
almond



DS 3738
macao



DS 3737
adoise



DS 3757
flanelle



notes

[illegible]



notes

[illegible]



Do you have any questions?
We will be happy to advise you!