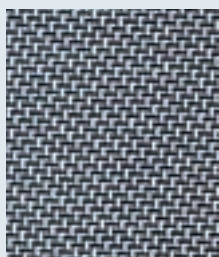


helioscreen®

ComfortScreen® Internal solar shading

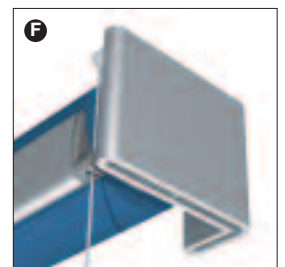
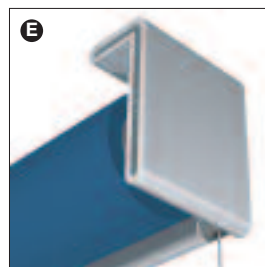
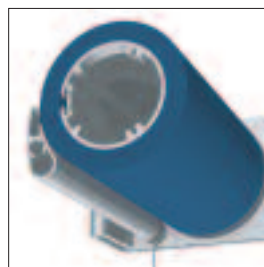
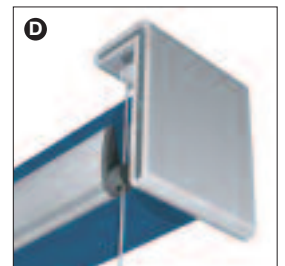
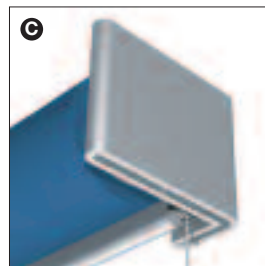
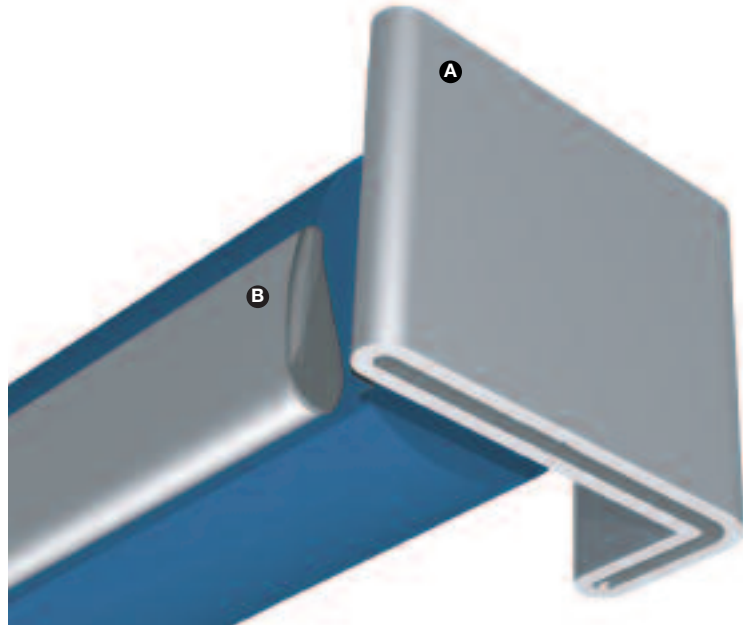


Comfortable and **functional** internal solar shading

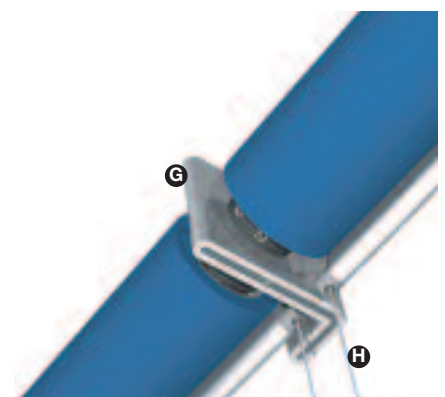
ComfortScreen® Internal solar shading

ComfortScreen® is a functional internal roller solar shade, used in multiple ways, both in residential and professional buildings. It offers good protection from harsh daylight, protects against UV-rays, and prevents your building from overheating. It is easy to operate, and the built-in space is minimal. Moreover, ComfortScreen® is particularly suited to protect both small and large window surfaces. Its discrete design and refined details offer a range of solutions for classic and contemporary interiors.

- ComfortScreen® functional solar shading can be mounted on all kinds of architectural constructions. Depending on the width, the height and the suitable type of roller tube, the brackets can be used for wall and ceiling mounting. Heights of up to 7 meters pose no problem. The roller tube and operating mechanism can be hidden in a headbox, behind an aluminium fascia panel or in an existing cove. Because of the versatile bracket, the distance between the window and the cover can be adjusted.
- The system is operated by means of a crank, motor or ball chain mechanism. In the case of manual use, a pre-stressed spring allows for a smooth and easy operation, even for blinds of large dimensions. Motor operation is performed by switch, by radio control, individually and/or in group.
- The special shape of the round bottom bar enables maximum roll up around the tube in the elevated position, so that only a minimum built-in space is required. Cable guiding can also be provided, fixed at the top to the mounting bracket and at the bottom to a stainless steel cable bracket.
- For maximum efficiency, Helioscreen's fibreglass fabrics are a must. They have excellent thermal characteristics and perform very well to control light levels and avoid glare. Systems with opaque fabrics for dimming or black-out is extra feature, but most fabrics can be used, depending on the client's preference.



- A** versatile support
- B** rounded bottom bar
- C** coupling; two covers driven by one motor
- D** cable
- E** top fix
- F** face fix
- G** unrolled with minimal distance from the window
- H** unrolled with maximal distance from the window



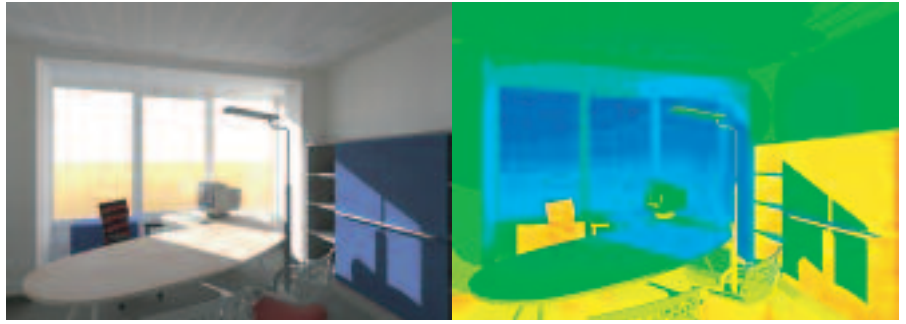
Visual comfort

Helioscreen solar shading with fibreglass fabric tempers the light inside a building. The open structure of the fabric lets diffuse daylight through, while blocking direct sun rays. Taking the circumstances into account, for example location, orientation of the building and window surface, it is possible to select the most efficient fabric, based on its photometric characteristics of transmission, reflection and absorption. Choosing an appropriate solar shading fabric provides a balanced light diffusion in the work space. It also provides an optimal lighting of the work surface, reduces or eliminates reflections on computer screens, and prevents glare or severe lighting contrasts. The view to the outside is maintained thanks to the transparency of the fabric. The Openness Factor and the colour are an important issue in this context.

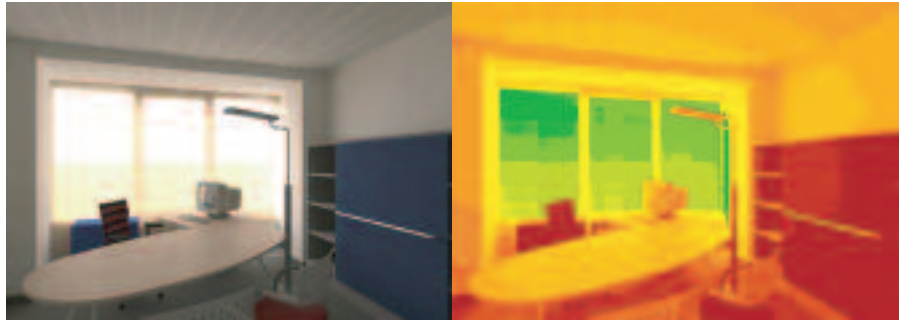
Thermal comfort

Using a fibreglass fabric on an internal roller blind has a great influence on the inside temperature. The transmission, reflection and absorption values of the fabric determine the g-value (the measure of efficiency of a blind to stop the heat), in relation to the type of glass. Internal solar shading with fibreglass can reduce solar light transmittance by up to 50%, and consequently limits heat accumulation in a building. From experience we know that the cooling load, and therefore the energy

Luminance at clear sky without solar shading

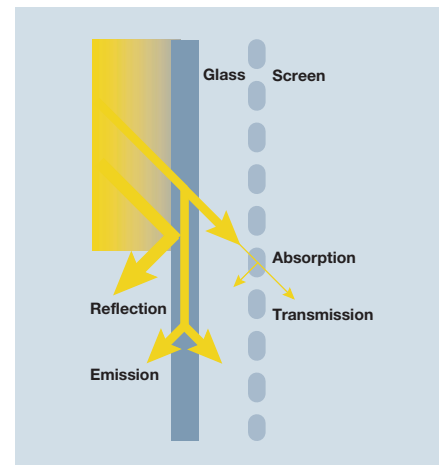


Luminance at clear sky with fibreglass solar shading



consumption of the air-conditioning installation, is largely reduced.

*Sun allowance with
fibreglass solar shading*

[illegible]

Choosing the right cover

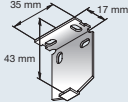

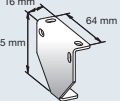
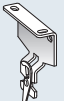
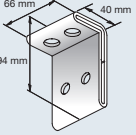
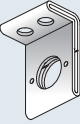
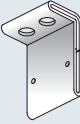
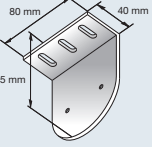
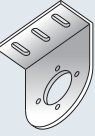
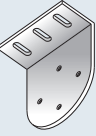
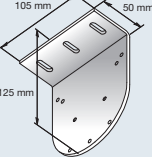
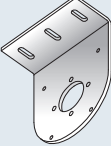
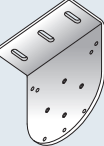
To obtain a tailor-made solution when choosing solar shading with fibreglass, some basic principles need to be taken into account. Reflection, transmission, and absorption values vary depending on fabric characteristics.

A high reflection keeps out the heat better. A high transmission keeps out less heat but lets more light in and maintains good visibility to the outside.

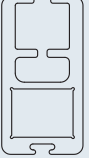


Fibreglass in a darker colour, and therefore with more absorption, best prevents glare and reflections on computer screens.

When advising its customers, Helioscreen is able to provide an architectural simulation report with building physics and daylight penetration, according to the specific parameters of the building.

Overview brackets per system

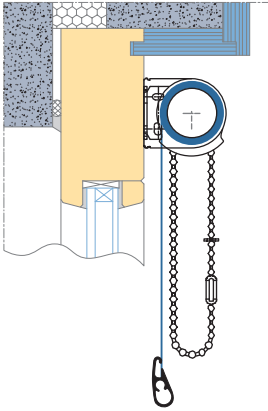
	Bracket for type of control	Bracket for coupling	Bracket for endbearing
IVB032000NSN With ballchain Roller tube 34 mm			
IVB047000NSN With ballchain Roller tube 47 mm			
IVE047000NSN Motorized Roller tube 47 mm			
IVC047000NSN Crank operated IVE063000NSN Motorized Roller tube 63 mm			
IVE085000NSN Motorized Roller tube 85 mm			

Overview bottom bars

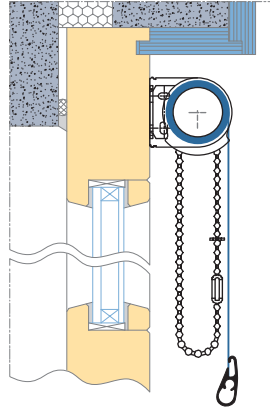
Type	
18/35 mm rectangular	
13/33 mm tear shaped	
Ø 13 mm cylindrical	

Helioscreen is often rightly regarded as the expert in the field of architectural solar shading devices. From the conception phase -including design, technical drawing and specifications- to final delivery, a team of experts is at your disposal to conceive and implement the best possible solution. No matter if the solution is standard or tailor-made.

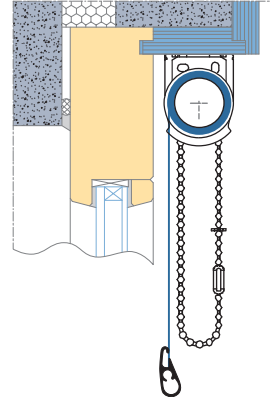




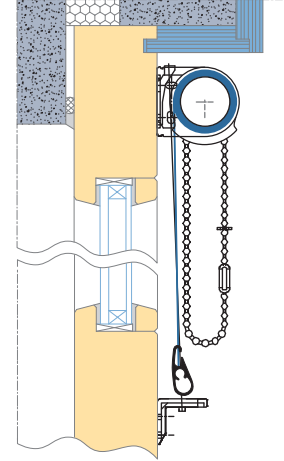
*ComfortScreen® with ball chain
Roller tube 34 mm face fix*



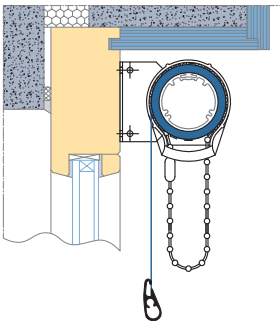
*ComfortScreen® with ball chain
Roller tube 34 mm face fix*



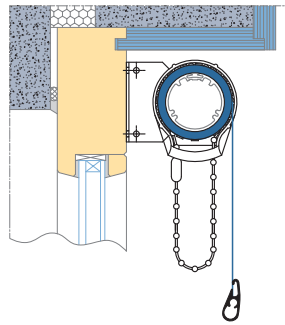
*ComfortScreen® with ball chain
Roller tube 34 mm top fix*



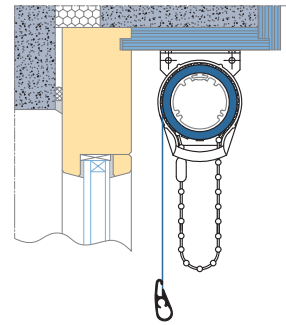
*ComfortScreen® with ball chain
Roller tube 34 mm face fix with
side guiding*



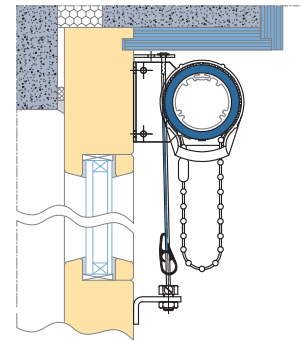
*ComfortScreen® with ball chain
Roller tube 47 mm face fix*



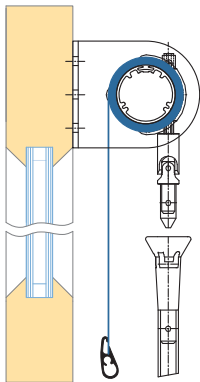
*ComfortScreen® with ball chain
Roller tube 47 mm face fix*



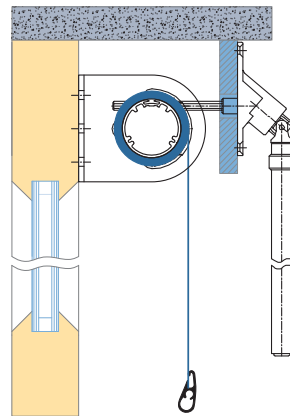
*ComfortScreen® with ball chain
Roller tube 47 mm top fix*



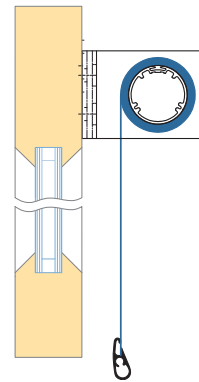
*ComfortScreen® with ball chain
Roller tube 47 mm face fix with
side guiding*



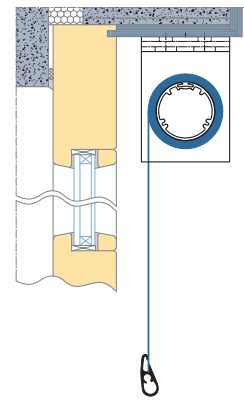
*ComfortScreen® with crank
operation
Roller tube 47 mm face fix*



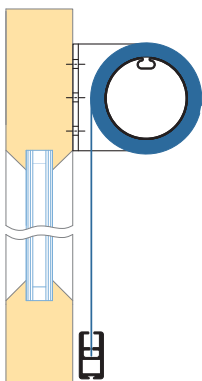
*ComfortScreen® with crank
operation
Roller tube 47 mm face fix*



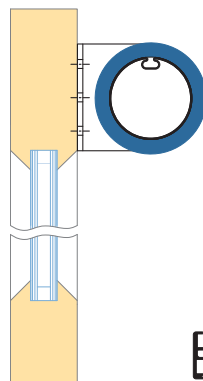
*ComfortScreen® motorized
Roller tube 47 mm face fix*



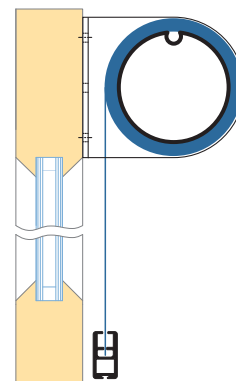
*ComfortScreen® motorized
Roller tube 47 mm top fix*



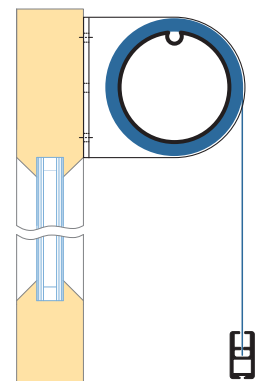
*ComfortScreen® motorized
Roller tube 63 mm face fix*



*ComfortScreen® motorized
Roller tube 63 mm face fix*



*ComfortScreen® motorized
Roller tube 85 mm face fix*



*ComfortScreen® motorized
Roller tube 85 mm face fix*

ComfortScreen® internal solar shading

Order ref	Application	Roll down to the window mounting		Roll down Fixation mounting		Headbox Ø mm	Tube mm	Guiding	Bottom bar mm	Width max. mm*	Drop max. mm*	Bottom bar option

Ball chain operated

IVB032000NSN	without headbox	wall	ceiling	wall	ceiling	-	34	without	13/33 of Ø13	2300	3100	18/35
IVB032000NSC	without headbox	wall	-	-	-	-	34	cable	13/33 of Ø13	2300	3100	18/35
IVB032000NPN	fascia panel	wall	ceiling	wall	ceiling	-	34	without	13/33 of Ø13	2300	3100	18/35
IVB032000NPC	fascia panel	wall	-	-	-	-	34	cable	13/33 of Ø13	2300	3100	18/35
IVB032063TPN	with headbox	wall	-	-	-	63	34	without	13/33 of Ø13	2300	3100	18/35
IVB032063TPC	with headbox	wall	-	-	-	63	34	cable	13/33 of Ø13	2300	3100	18/35
IVB047000NSN	without headbox	wall	ceiling	wall	ceiling	-	47	without	13/33 of Ø13	2800	4200	18/35
IVB047000NSC	without headbox	wall	ceiling	-	-	-	47	cable	13/33 of Ø13	2800	4200	18/35
IVB047080ASN-II	with coverplate	wall	ceiling	-	-	80	47	without	13/33 of Ø13	2800	4200	18/35
IVB047080ASN-I	with headbox	wall	ceiling	wall	ceiling	80/80	47	without	13/33 of Ø13	2800	3500	18/35
IVB047080ASC-I	with headbox	wall	ceiling	-	-	80/80	47	cable	13/33 of Ø13	2800	3500	18/35

Crank operated

IVC035000NSN	without headbox	wall	ceiling	-	-	-	35	without	13/33 of Ø13	2200	2200	18/35
IVC035000NSC	without headbox	wall	ceiling	-	-	-	35	cable	13/33 of Ø13	2200	2200	18/35
IVC035080ASN	with headbox	wall	ceiling	wall	ceiling	80/80	35	without	13/33 of Ø13	2200	2200	18/35
IVC035080ASC	with headbox	wall	ceiling	wall	ceiling	80/80	35	cable	13/33 of Ø13	2200	2200	18/35
IVC047000NSN	without headbox	wall	ceiling	-	-	-	47	without	13/33 of Ø13	2800	2800	18/35
IVC047000NSC	without headbox	wall	ceiling	-	-	-	47	cable	13/33 of Ø13	2800	2800	18/35
IVC047080ASN	with headbox	wall	ceiling	wall	ceiling	80/80	47	without	13/33 of Ø13	2800	2800	18/35
IVC047080ASC	with headbox	wall	ceiling	wall	ceiling	80/80	47	cable	13/33 of Ø13	2800	2800	18/35

Motorized

IVE047000NSN	without headbox	wall	ceiling	wall	ceiling	-	47	without	13/33 of Ø13	2800	2800	18/35
IVE047000NSC	without headbox	wall	ceiling	wall	ceiling	-	47	cable	13/33 of Ø13	2800	2800	18/35
IVE047080ASN	with headbox	wall	ceiling	wall	ceiling	80/80	47	without	13/33 of Ø13	2800	2800	18/35
IVE047080ASC	with headbox	wall	ceiling	wall	ceiling	80/80	47	cable	13/33 of Ø13	2800	2800	18/35
IVE063000NSN	without headbox	wall	ceiling	wall	ceiling	-	63	without	13/33 of Ø13	3500	5000	18/35
IVE063000NSC	without headbox	wall	ceiling	-	ceiling	-	63	cable	13/33 of Ø13	3500	5000	18/35
IVE063095ASN	with headbox	wall	ceiling	wall	ceiling	95/95	63	without	13/33 of Ø13	3500	5000	18/35
IVE063095ASC	with headbox	wall	ceiling	wall	ceiling	95/95	63	cable	13/33 of Ø13	3500	5000	18/35
IVE085000NSN	without headbox	wall	ceiling	wall	ceiling	-	85	without	18/35	4400	7000	13/33 of Ø13
IVE085000NSC	without headbox	wall	ceiling	wall	ceiling	-	85	cable	18/35	4400	7000	13/33 of Ø13
IVE085110ASN	with headbox	wall	ceiling	wall	ceiling	110/110	85	without	18/35	4400	6400	13/33 of Ø13
IVE085110ASC	with headbox	wall	ceiling	wall	ceiling	110/110	85	cable	18/35	4400	6400	13/33 of Ø13

* When combining max width and drop, the technical specifications should be taken into account.

Helioscreen, a source of information

Helioscreen fosters optimal, in-depth communication with its clients. All our information is available in leaflets or catalogues. Our digital information is almost inexhaustible: website, software programs simulating and calculating the effect of solar shading on the energy balance or on daylight penetration in a building, product specifications, and digital technical drawings.



helioscreen

Comfortable and functional solar shading

SmartScreen® • IntegraScreen® • ComfortScreen® • DrapeScreen® • ScreenOpac®

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