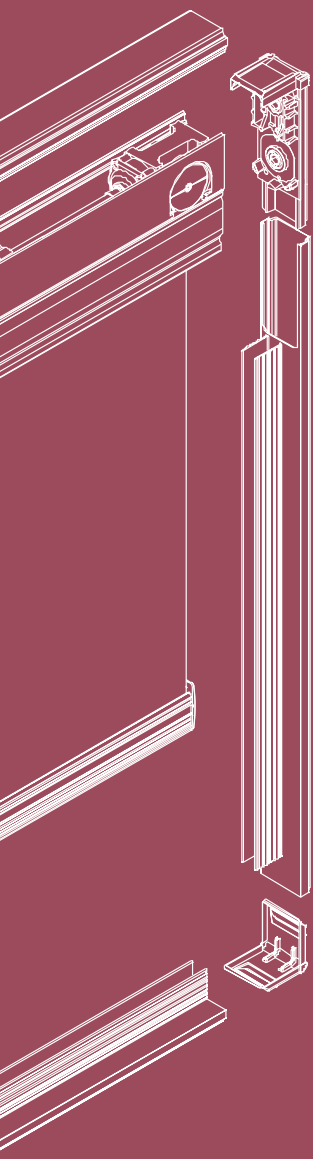
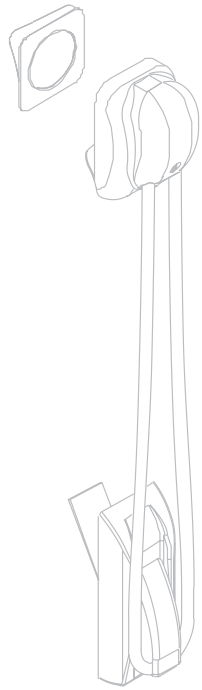


SL27C rullo

ROLLER



ScreenLine®

ScreenLine

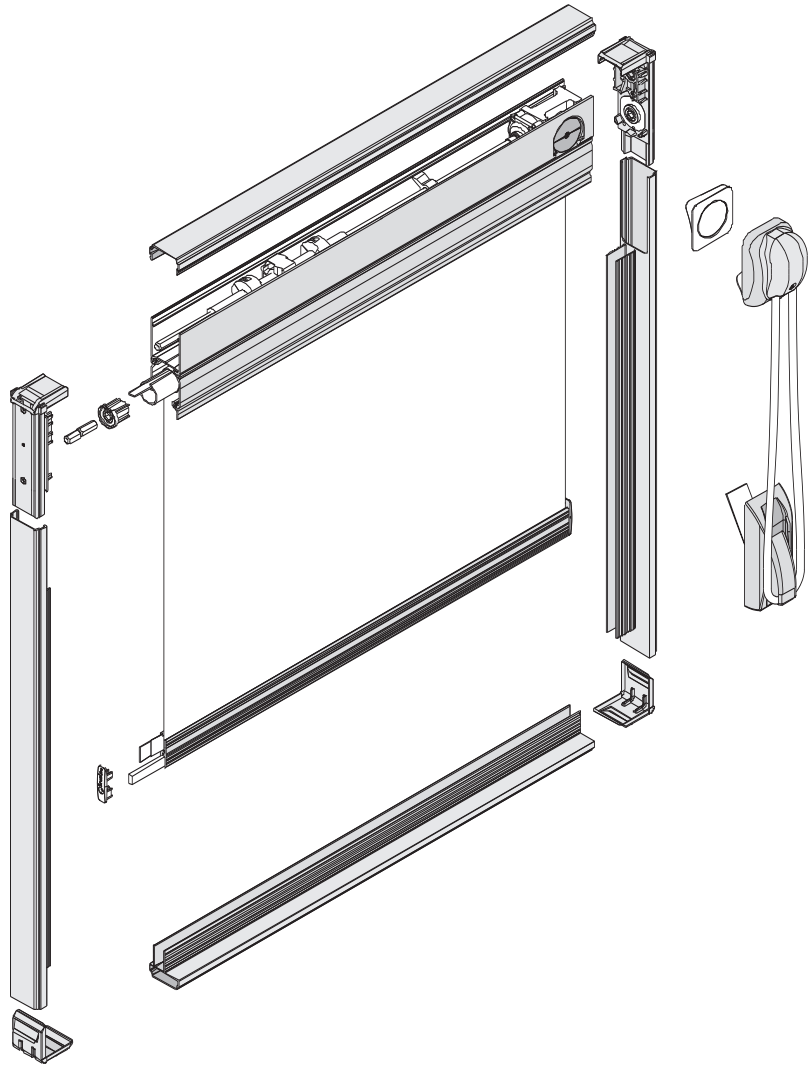
double-glazed unit 27 mm

Technical Catalogue

english

ROLLER

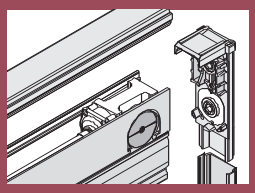
SL27C rullo



The ScreenLine® SL27 roller blind for use in double-glazed units, is manufactured in accordance with high technical specification and production standards. The roller blind operation is achieved using a rotational magnetic transmission through the glass thereby guaranteeing the unit's hermetic seal. The external magnet, fixed to the internal glass by double-sided high performance adhesive allows perfect alignment with the internal magnet. The raising and lowering operation is achieved using a continuous cord loop that drives the external magnet. The cord is held lightly under tension by a cord tensioner on the glass directly below the external magnet. A dedicated cover profile, completely encloses the fabric, and ensures the correct wrapping of the fabric on the drum. A dedicated double mechanical end stop ensures a safe stop of the blind at the extreme positions. The entire kit is completely contained within the spacer bar frame, guaranteeing the hermetical seal of the unit.

Height	300 ~ varies according to the fabric quality
Width	250 ~ 1.200 mm
Maximum area	see feasibility tables
Blind pack height	90 mm

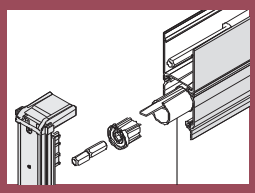
1. technical features



Magnetic drive components

Fibreglass re-inforced nylon 66 casing. Transmission gears and parts manufactured from carbon-nitride steel. Ball bearing support for both magnets and gears.
Neodymium-Iron-Boron magnets with the following technical features:

Energy produced	Bh max-Mg.0e	33-35
Residual induction	Br-Gauss	11.000 / 12.000
Coercive force	Hc-Oestered	10.000
Maximum working temperature	°C	120
Curie temperature	°C	310
Reversible temperature factor	°C	-0.12%

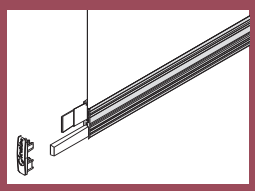


Head rail

Extruded aluminium, A6063S-T5 alloy. Dimensions: width 27 mm, height 34 mm.
Powder coated in aluminium grey colour.

Cover Profile

Extruded aluminium, A6063S-T5 alloy. Dimensions: width 8 mm, height 36 mm.
Powder coated in aluminium grey colour.

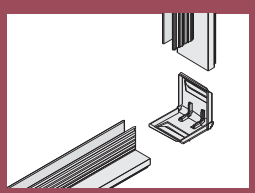


Verosol® fabric

Woven polyester fabric with an aluminium microfilm applied through an exclusive vacuum coating technique (three-chamber system). The microfilm adhesion complies with the EN-ISO 7523 regulations and the fabric is Class 1 (one) Flame-Retardant - 19 colours available.

Performance characteristic of the Verosol® fabric

Pleated Verosol Fabric	Solar reflection %	Light reflection %	Solar absorption %	Solar transmission %	Light transmission %
812	71	66	20	9	9
816	52	50	28	20	22
875	74	74	21	5	5
837	63	62	36.6	0.4	0.4



Bottom rail

Extruded aluminium A6063S-T5 alloy. Dimensions: width 6 mm, height 25 mm.
Powder coated to aluminium grey colour.

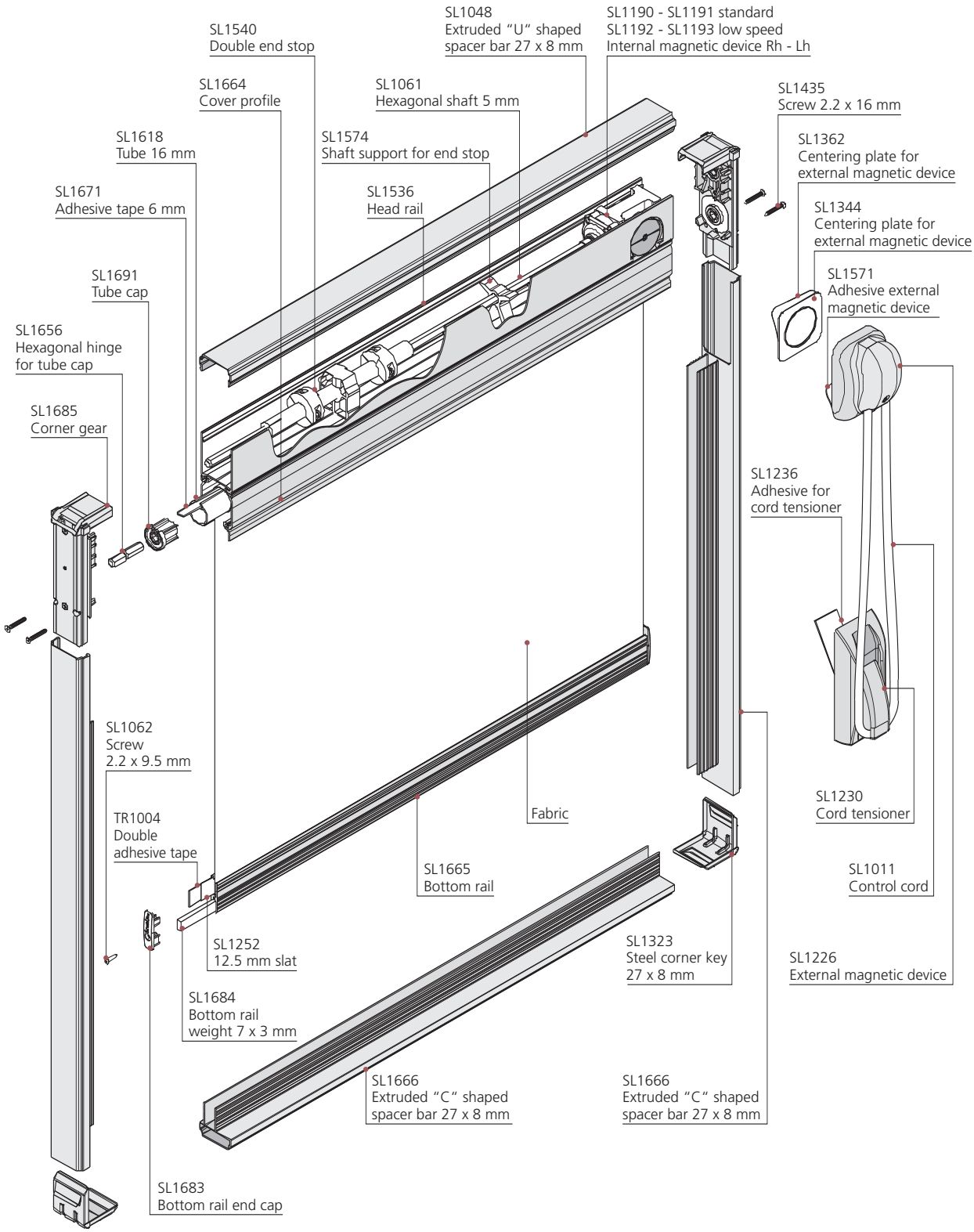
Spacer bars

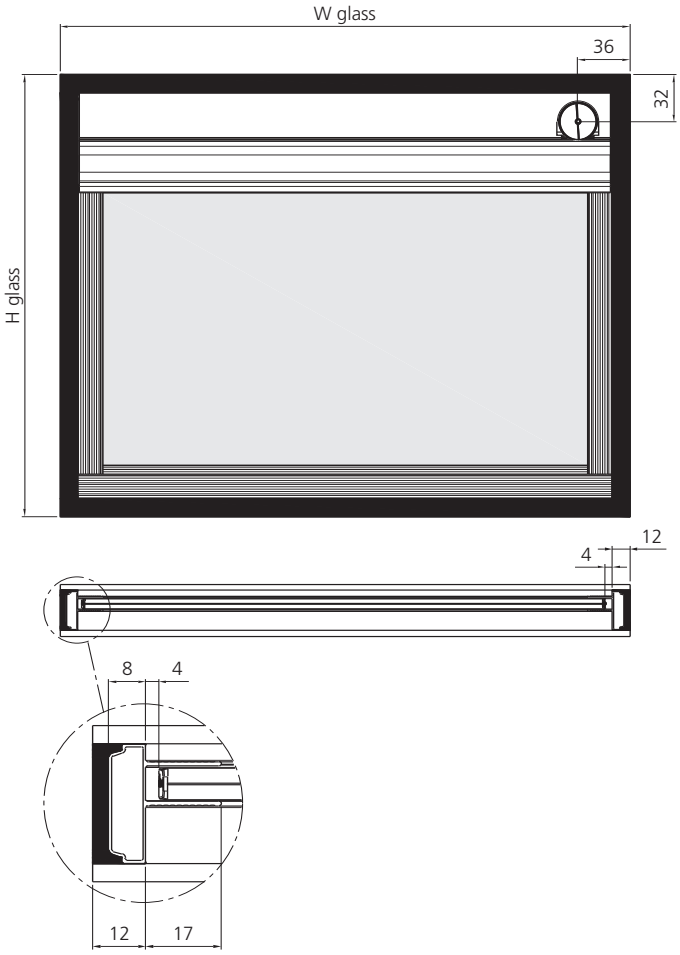
Extruded aluminium spacer bars dimension 27 x 8 mm; top spacer with "U" shaped profile with 4.2 mm projection; bottom and side spacer with "C" spacer bars with 17 mm pelmet.

SL27C rullo

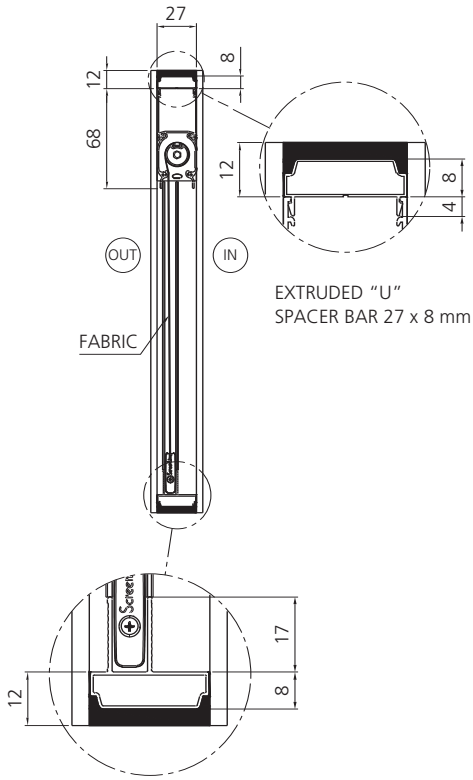
2. technical drawings

comprehensive drawing with component codes





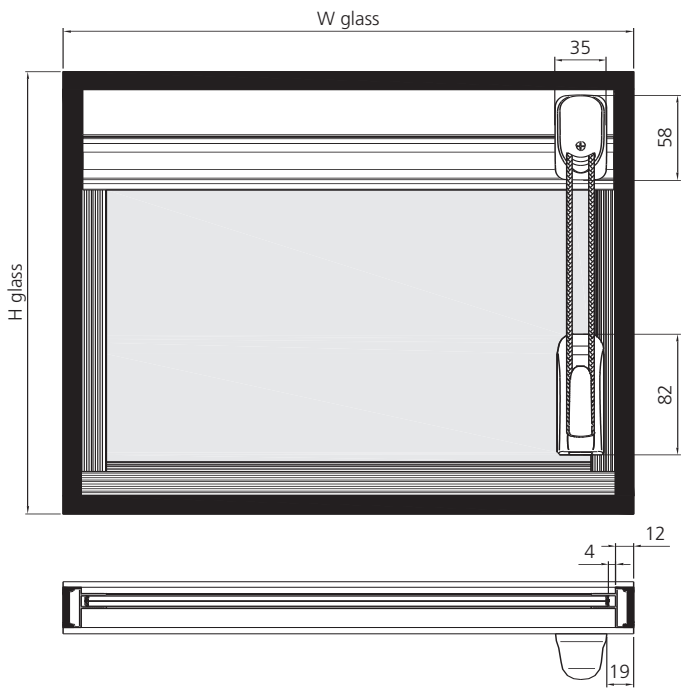
EXTRUDED "C" SPACER BAR
27 x 8 mm WITH 17 mm PELMET

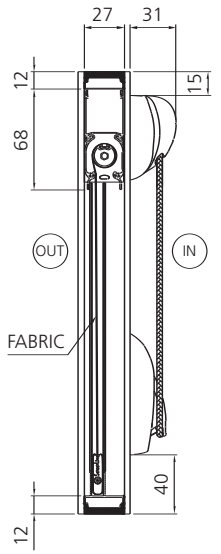


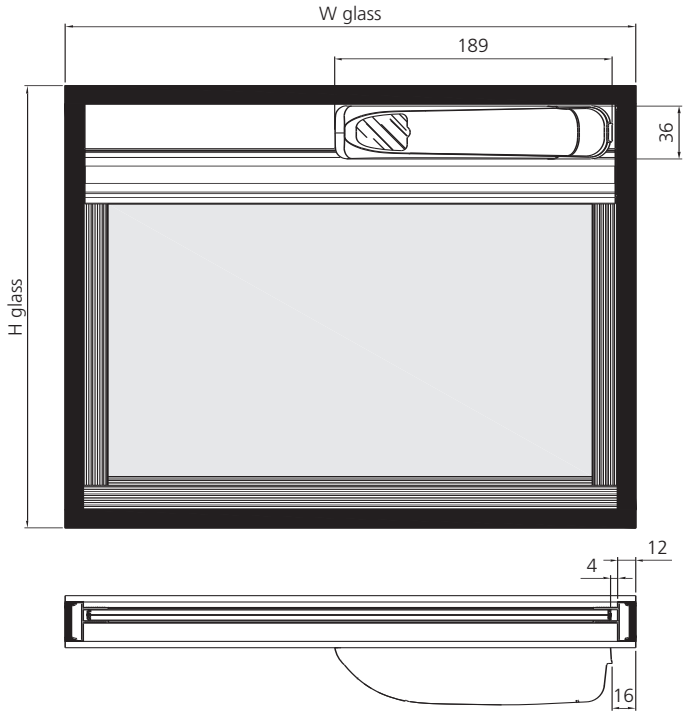
EXTRUDED "U"
SPACER BAR 27 x 8 mm

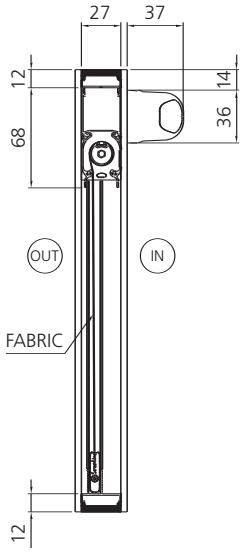
EXTRUDED "C" SPACER BAR
27 x 8 mm WITH 17 mm PELMET

rasing and lowering function

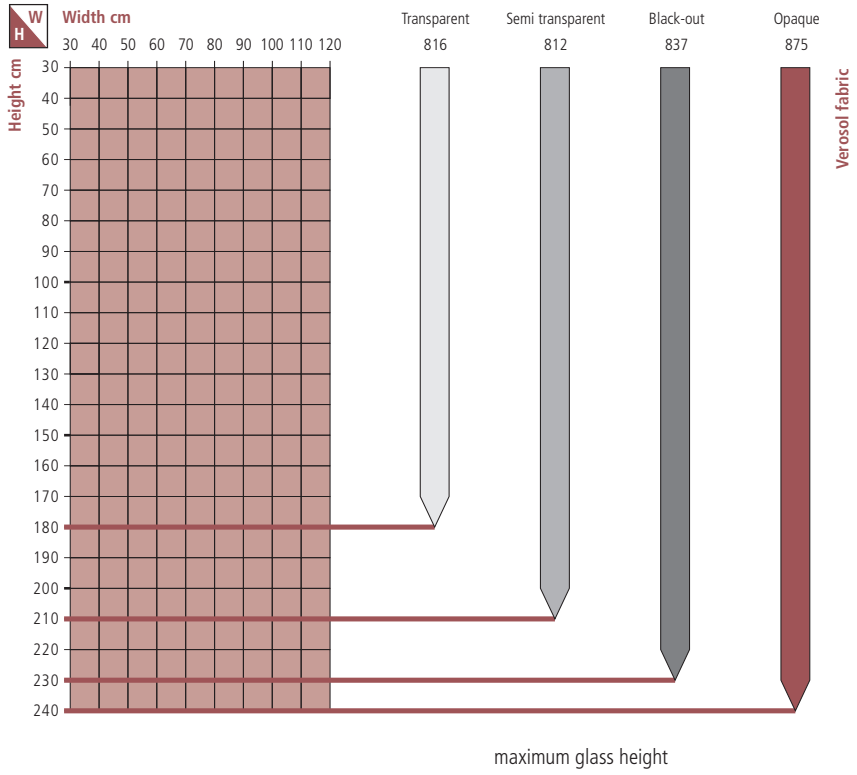


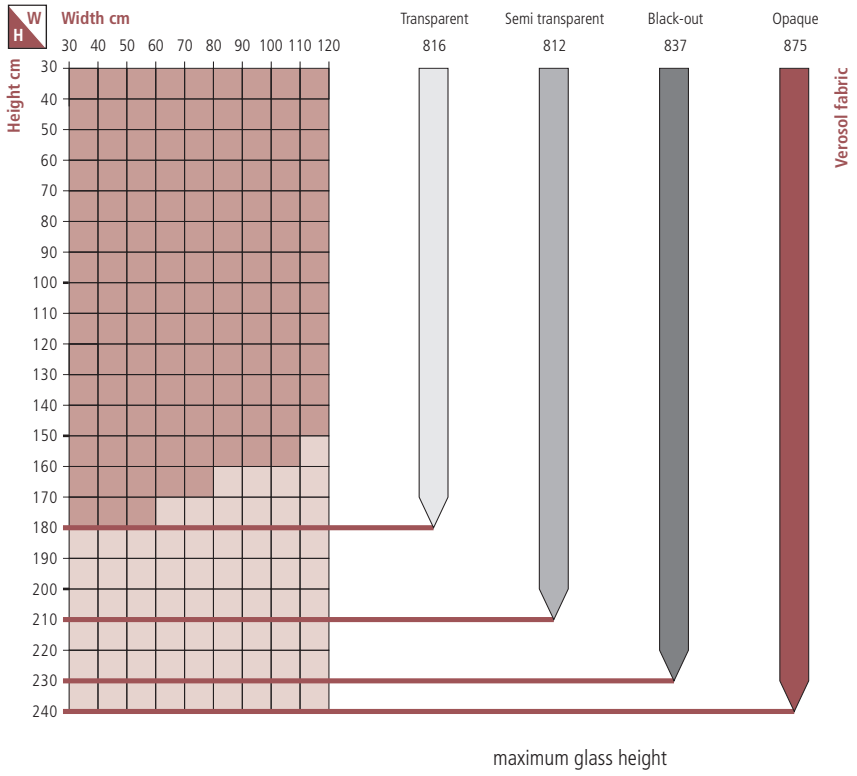






3. feasibility



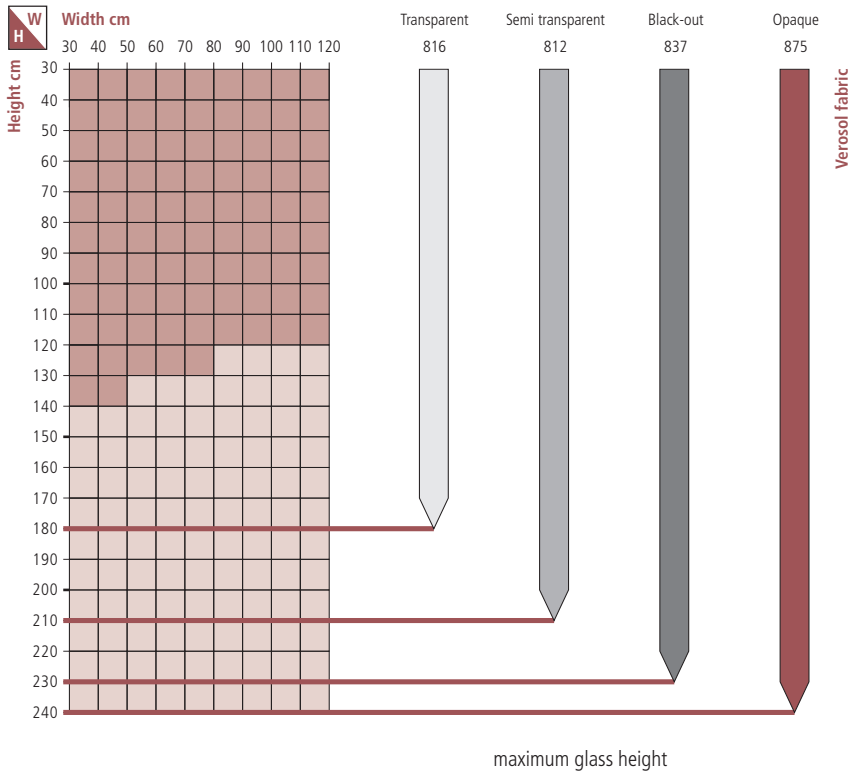


Raisable with standard speed System

Raisable with reduced speed System

SL27C rullo

feasibility



Raisable with standard speed System

Raisable with reduced speed System

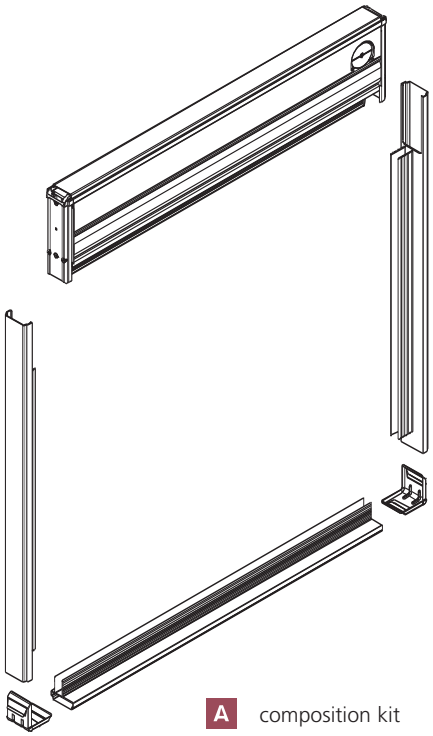
11
12

glass thickness **11 mm** Laminated 55.1 55.2 55.4 and **12 mm** Monolithic

ScreenLine® kit components

On receipt of the goods, check the integrity of the package and confirm that the components are as detailed on the Purchase Order. The kit includes: **A**

- roller blind with head rail clipped to the top spacer bar comprising an integrated magnetic control system
- 1 No. bottom "C" shaped spacer bar (width)
- 2 No. side "C" shaped spacer bars (height)
- 4 No. steel corner keys
- external magnetic control kit including aluminium centering base plate plus cord with cord tensioner, all with factory applied adhesive tape.



A composition kit

Assembly of the integral blind unit

Spacer bars preparation

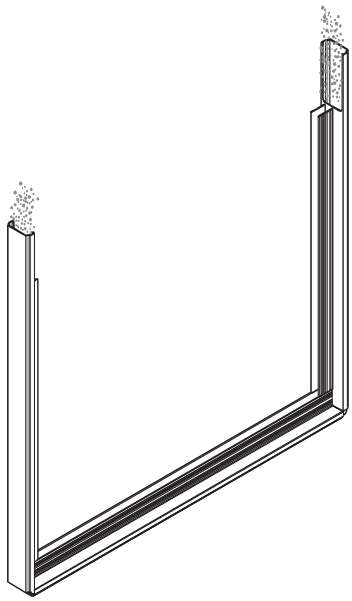
Fill the appropriate side spacer bars with requisite amount of molecular sieve. **B**

Assemble the sides and lower spacer bars, ensuring that the fin of the side C-shaped spacer bar interlocks correctly with the offset profile of the bottom C-shaped spacer bar.

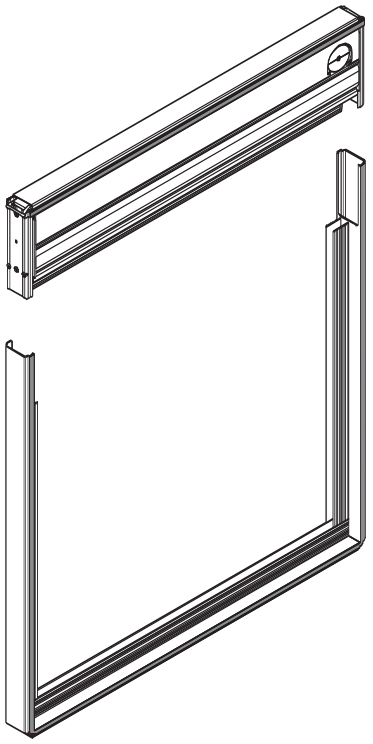
Extrude the butyl primary seal in a continuous line in accordance with EN 1279-2, on both the spacer bar clipped to the head rail and to the rest of the frame. **C**

During this operation it is recommended that the blind fabric is handled with great care, to avoid any dirt or damage to the fabric - whilst maintaining the blind in a completely raised.

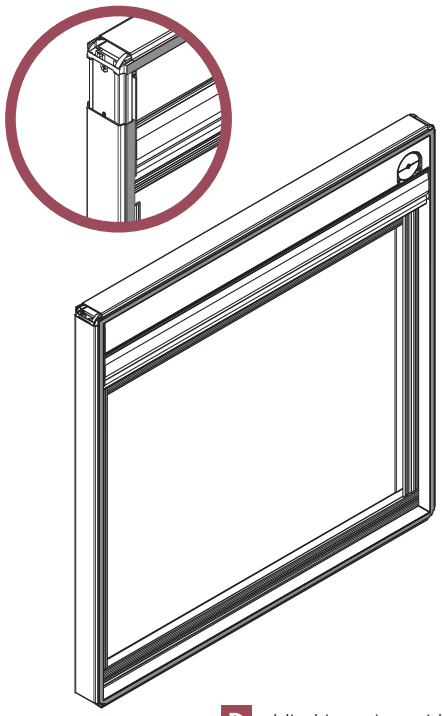
Assemble the top spacer bar and blind with the other three spacers, **D** ensuring that the "C" projections are positioned to face 2 (external). Carefully check that the bottom rail slides freely inside the lateral side guides during the raising / lowering operation.



B fill in of the spacer bars with molecular sieve



C first sealing application



D blind insertion within the spacer bars

Line assembly

After having passed the first glass through the washer, it should be positioned on its base i.e. vertically on the on the DG machine rollers / support.

Position the assembled kit on the glass keeping the head rail in the upper position. Handle the blind fabric with great care, to avoid any damage. Position the spacer frame on the first glass so that the spacer bars are equi-distant from the edges of the glass. Press to obtain a high degree of adhesion.

Now assemble the second glass and pass the completed unit through the on-line pressing system. **E**

Gas filling

Following the appropriate procedure and replace the internal air with argon.

Testing

After pressing and prior to applying the final seal, test the blind function's correctly using the cord operated external magnetic device. The double-glazed unit must be positioned vertically with the blind at the top, during this test. Special attention should be given to the bottom rail ensuring that it is correctly inserted within the guide tracks of the bottom and side spacer bars.

Second sealing

Apply the final secondary seal in accordance with EN 1279-2 **F**. Particular care should be taken at the corners to ensure there are no 'short seals' left by the automatic sealing system. On completion, position the DG unit vertically with the head rail on the bottom edge.

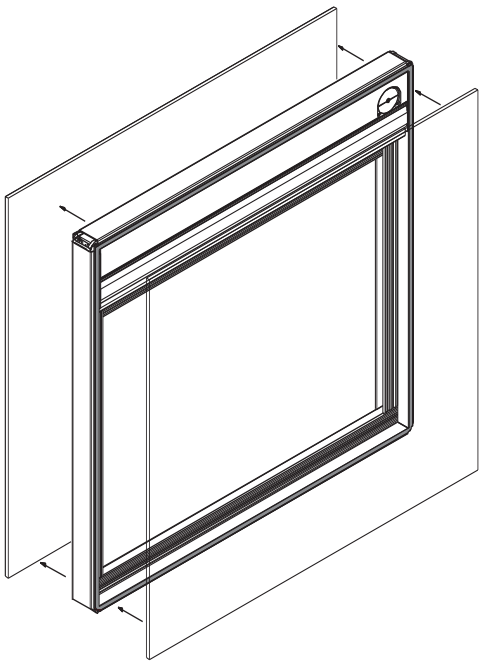
Note

The blind must be completely raised when moving the finished unit either vertically or horizontally otherwise it is possible to damage the blind if it is only partially raised. The glazing of the DG unit inside the window frame should be perfectly vertical, to allow a perfect movement of the fabric when raising / lowering.

The centering base plate should be factory applied to the DG unit, so that the on-site fitting of the external magnet ensures correct alignment of the internal and external magnets.

The glass surface should be cleaned prior to adhesion. *(See recommendations in the ScreenLine® Technical Catalogue).*

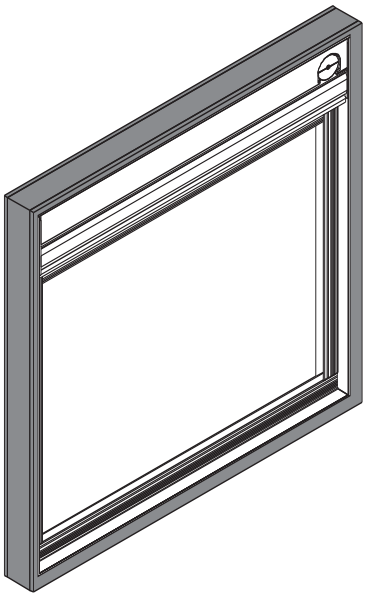
The external magnet and cord tensioner should be applied to the glass surface after glazing. Again ensuring that the glass surface is cleaned correctly to obtain good adhesion.



E glass assembly

Transport and Storage

For transport and storage procedures please check the recommendations contained in the relevant part of the ScreenLine® **Technical Catalogue**.



F double-glazed unit
second sealing

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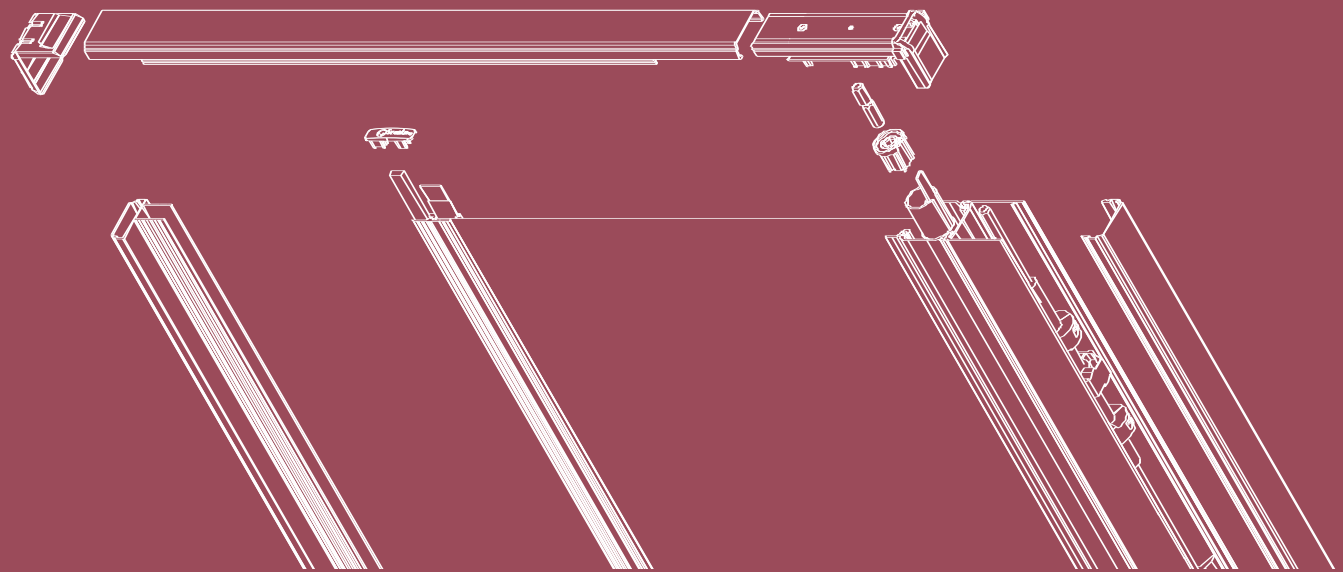

visual design: stefanosiboni.it