

Certified Laser Blocking Roller Blinds to EN 60824-4

Operation and Maintenance Manual



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Declaration of Conformity



LASERMET LIMITED

Laser Blocking Curtains, Roller Blinds & Window Blocks

Made from Lasermet Material:

BLOCK-MAT-HP2
BLOCK-MAT-HP3WW
BLOCK-MAT-HP4BB

DECLARATION OF CONFORMITY

This is to declare that the above Laser Blocking Curtains, Roller Blinds & Window Blocks have been found to comply with the requirements of the following directives:

Machinery Directive 98/37/EC

And meet the following European Standard:

EN 60825-4 : 2006 + A2 2008 Safety of Laser Products, Part 4 – Laser Guards

The relevant Protective Exposure Limits are:

Irradiated Area	PEL (T3) 10 s	PEL (T2) 100 s
4 mm ²	3.9 MW/m ²	2.2 MW/m ²
2000 mm ²	0.62 MW/m ²	0.35 MW/m ²

Supplier:

Lasermet Limited
137 Hankinson Road
Bournemouth
BH9 1HR
Dorset
United Kingdom

Country of Origin: United Kingdom

Signed:

Date: 3rd June 2013

Paul Tozer
Managing Director



Overview

All Lasermet laser-blocking roller blinds are made from Lasermet's specially developed laser blocking material and are CE marked and certified to EN 60825-4 (Safety of Laser Products Part 4: Laser Guards). (Hospitals in the UK should adhere to the requirements of the NHS Estates HBN 26 – "Facilities for surgical procedures").

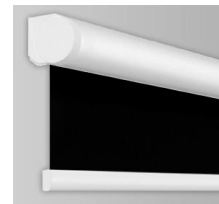
Laser Blocking Roller Blinds

Made-to-measure to fit virtually any size of window, Lasermet laser blocking roller blinds are available in standard or encapsulated variants and can be supplied for either surface or recessed mounting. The maximum size is 3.5m drop x 3.5m width.

Standard Roller Blinds

No longer
manufactured

These blinds are used in manufacturing facilities, operating theatres and laboratories wherever lasers are in use, to prevent laser radiation from escaping. When using them for non-recessed windows it is advisable to allow an extra 50 mm on the height and width, thereby ensuring that there is no possibility of laser beams passing through the window.



Encapsulated Roller Blinds

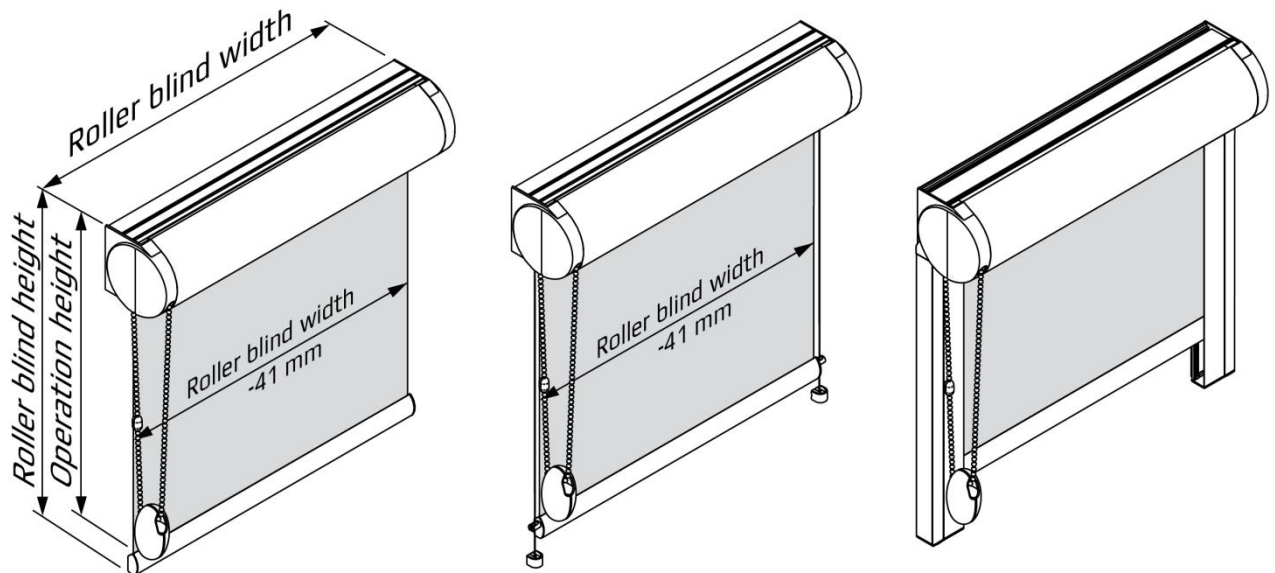
Lasermet's encapsulated roller blinds are built into a white finish aluminium frame, which encapsulates the top, both edges and bottom of the blind. This eliminates any possibility of laser beams passing round the sides of the blind, blocks out all light and provides a neat finish. They are operated by either, a chain, crank handle or electric motor.



Several options are available for the encapsulated laser blocking roller blinds as follows:-

- | | |
|-------------------------------------|--|
| Chain operated | – Simple to operate and use |
| Crank handle operated | – Ideal for installations where the blind may be difficult to reach or where chain operation is not appropriate |
| Motorised (mains 230VAC) | - Used where large heavy blinds are in operation |
| 24VDC wireless | - This is the most popular option where either single or multiple blind sets can be used. For example, a room could have 4 blinds and they could all be operated by a single switch if required. |
| 24VDC dry contact | - The low voltage provides an added level of safety, while eliminating the wireless function for sensitive environments. |
| Interlocked blind | - A maglock switch is positioned at the bottom of the blind so that when the operator switches the blind to be lowered the interlock switch is energised. Either a single channel interlock can be used or a dual channel interlock switch can be used with the ICS-6 or ICS-15 Interlock controllers. |
| Integrated interlocked blind | - The motorised blind can be connected to Lasermet's interlock controllers e.g. ICS-5, ICS-6 or ICS-15. The controller can then enable the motorised blind to close and will only permit the laser to be powered once the interlock switch has been closed confirming that the blind is down. |

Specifications: Medium Sized, Chain Operated Laser Blocking Roller Blind



Dimensions

Width: min. 0.30 m, max. 2.80 m

Height: max. 3,00 m

Max. braking capacity 5.0 kg

Manually operated blind

position.

Side-pull gear with protection against unwinding by means of a Brake mechanism.

The Brake mechanism permits the exact, steplessly adjustable positioning of the blind in any desired

Cassette profile

Tube shaft

Precision shaft

Two-profile bottom rail

Bottom rail

Plastic parts

Cord guiding

Profile guiding

Profile

Profile Dimensions

Accessories

Coupling

Round 78 x 77.5 extruded aluminium (Al Mg Si 0,5 F22) fitted on the round end cap of the brackets.

Ø27.0 / Ø36.0 of steel (0.35 mm K40).

Ø29.0 / Ø38.0 extruded aluminium (Al Mg Si 0,5 F22).

11.0 x 21.0 mm extruded aluminium (Al Mg Si 0,5 F22), also used for cord guiding and profile guiding, optional tight brushes.

Ø15.0 mm round extruded aluminium (Al Mg Si 0,5 F22)

High-quality, UV-resistant, temperature-resistant and abrasion-proofed material.

Max slope angle max. 15°. Steel cord, plastic-coated (Ø1.0 mm), in black.

The roller blind material extends 20 mm on both sides into the profile guiding.

Angle of inclination max. 15°.

Colour matches the cassette colour.

Cross section = 46 x 26 mm / Length = max. 4.00 m.

Tight brushes within the moulding for the closing profile, and closing profile of the roller blind material.

Up to 3 roller blinds of same type with a single operation. Optional Cord guiding

Operation

Operation side

Operation height

Bead stop

Colour

Bottom rail

Profile guiding

Fixing brackets

Visible plastic components

Clip fixing

Manual operation with nickel plated, steel ball chain Ø4.5 x 6.0 mm

Optional left or right.

Roller blind height x 0.75 (or individual).

By matching chain connector.

Cassette profile round 78 x 77.5 Powder coated white (RAL 9016)

Two-profile bottom rail 11.0 x 21.0 mm Powder coated white (RAL 9016)

46 x 26 Powder coated white (RAL 9016)

Galvanized, white (RAL 9016)

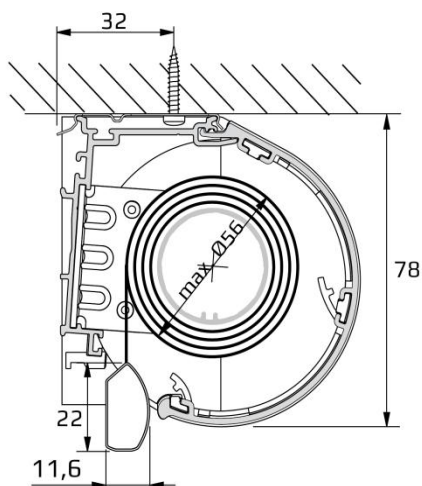
White

On wall, ceiling or reveal.

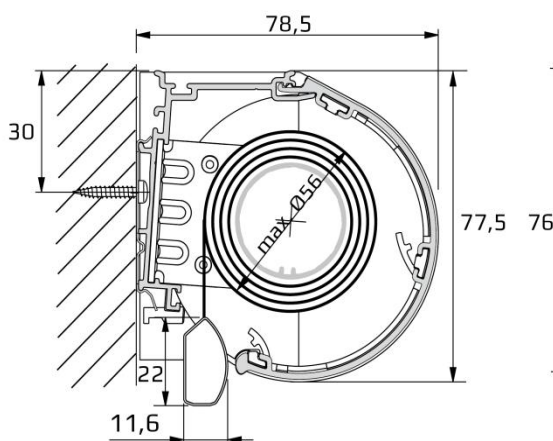
Medium Sized Roller Blind

LMRB 26 – Measuring and options.

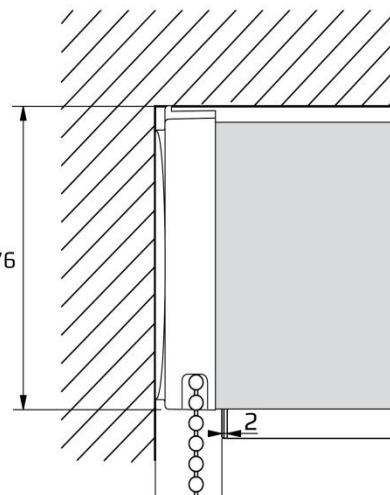
Ceiling fixing



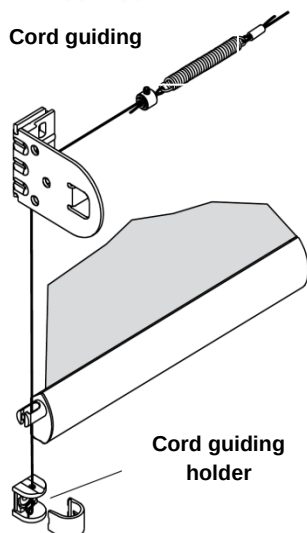
Wall fixing



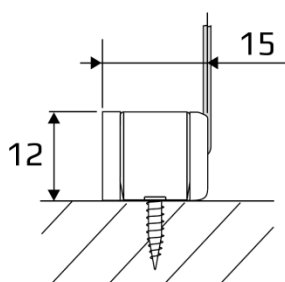
Clearance



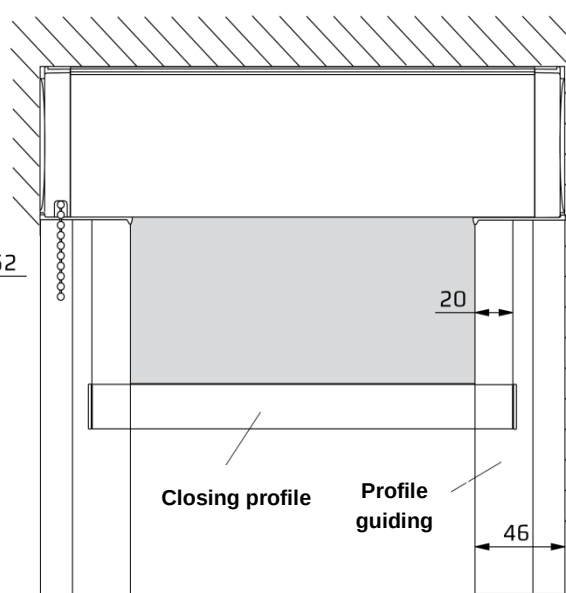
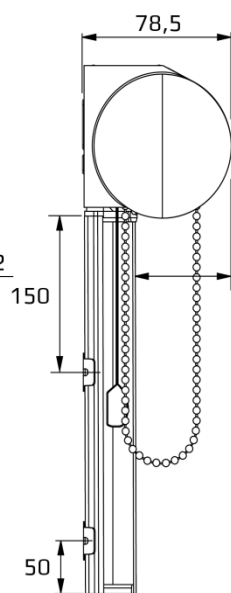
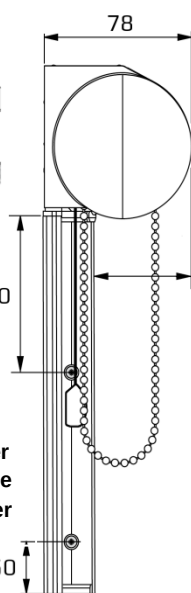
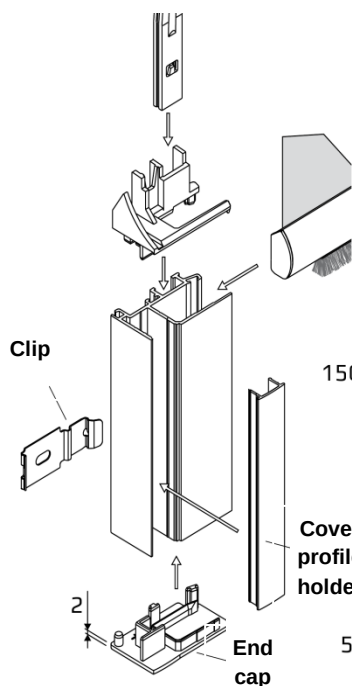
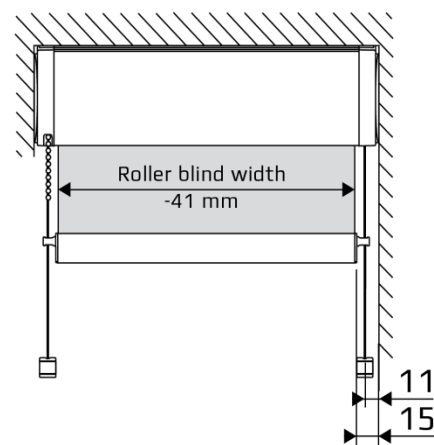
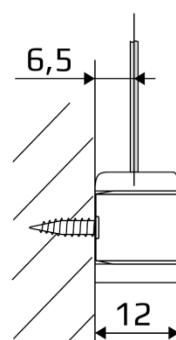
Cord guiding



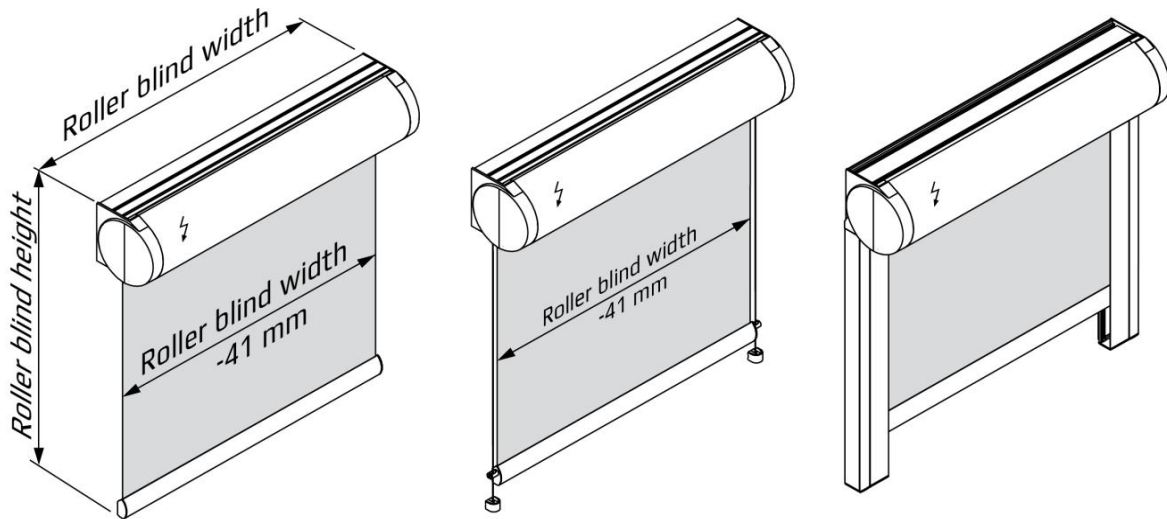
Reveal fixing



Wall fixing



Specifications: Medium Sized Motorised Laser Blocking Roller Blind



Dimensions

Width: min. 0.30 m max. 2.80 m
Height: max. 3.00 m
 max. braking capacity 3.5-4.5 kg

Roller blind with drive motor: The roller blind is wound and unwound using an electric motor. The motor can be operated via switch on the wall or by remote control and permits the exact, stepless positioning of the fabric in any desired position.

Cassette profile	Round 78 x 77.5mm extruded aluminium (Al Mg Si 0.5 F22) fitted on the round end cap of the brackets.
Tube shaft	Ø27.0 / Ø36.0 steel (0.35 mm K40)
Precision shaft	Ø29.0 / Ø38.0 extruded aluminium (Al Mg Si 0.5 F22).
Two-profile bottom rail	11.0 x 21.0 mm extruded aluminium (Al Mg Si 0.5 F22), also used for cord guiding and profile guiding, optional tight brushes.
Bottom rail	Ø15.0 mm round extruded aluminium (Al Mg Si 0.5 F22)
Plastic parts	High-quality, UV-resistant, temperature-resistant and abrasion-proofed material.
Cord guiding	Maximum slope angle 15°. Steel cord, plastic-coated Ø1.0 mm in black.
Profile guiding	The roller blind material extends 20 mm into the profile guiding on both sides . Angle of inclination max. 15°.
Profile	Colour matches the cassette colour.
Profile dimensions	Cross section = 46 x 26 mm / Length = max. 4.00 m.
Accessories	Tight brushes within the moulding for the closing profile and closing profile of the roller blind material cover.
Coupling	Up to 3 roller blinds of same type with a single operation. Optional Cord guiding

Motor Operation

Roller blind drive motor SOMFY Sonesse 30 RTS

Protection class: II, Protection index: IP 31, Rated torque: 2 Nm, Rated speed: 28 rpm,
 Rated voltage: 24 VAC, Frequency: 50 Hz, Rated current: 750 mA,
 Weight: 0.495 kg, Tube diameter: 36, 38 mm, Length: 407 mm,
 Connection: 2.5 m cable, Connecting cable: 2 x 0.25 mm².

Cassette profile	78 x 77.5 Round
Colour	Powder coated white (RAL 9016)
Two-profile bottom rail	11.0 x 21.0 mm: Powder coated white (RAL 9016)
Bottom rail	Round Ø15.0 mm: Powder coated white (RAL 9016)
Profile guiding	46 x 26 mm: Powder coated white (RAL 9016)
Fixing brackets:	galvanized, white (RAL 9016)
Visible plastic components	White

Fixing

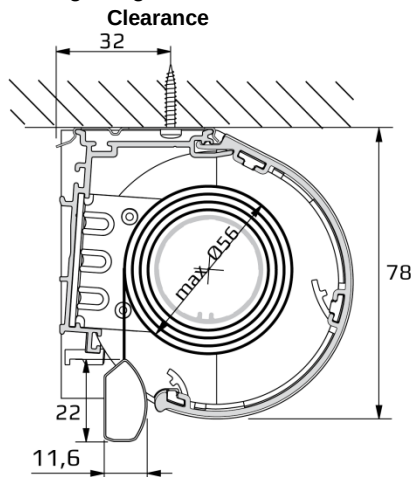
Clip fixing on wall, ceiling or reveal.

Cord guiding: the guide wire fixings (plastic) can be fitted directly on the frame or underneath.

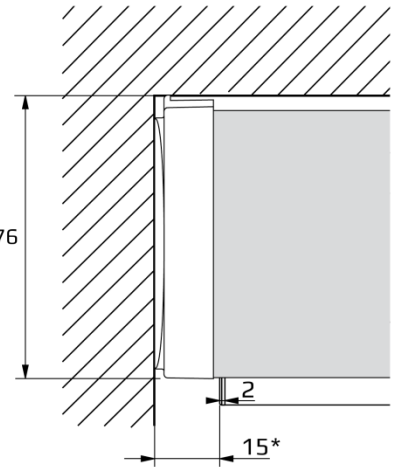
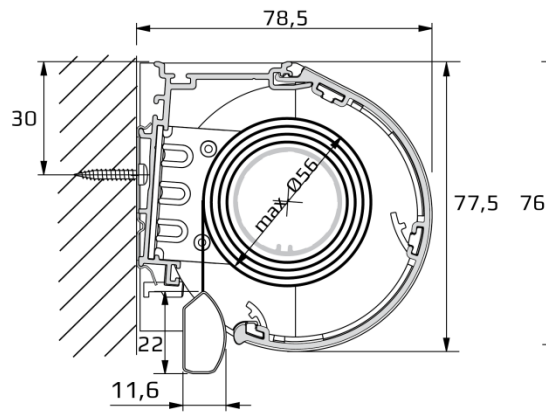
Medium Sized Motorised Roller Blind

LMRB 26 – Measuring and options.

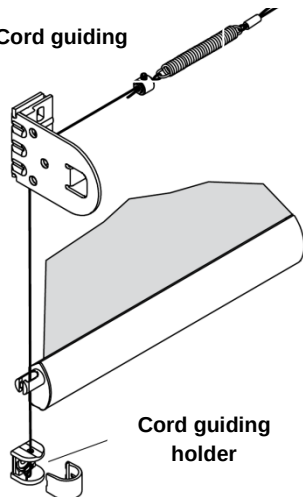
Ceiling fixing



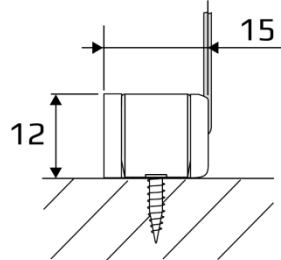
Wall fixing



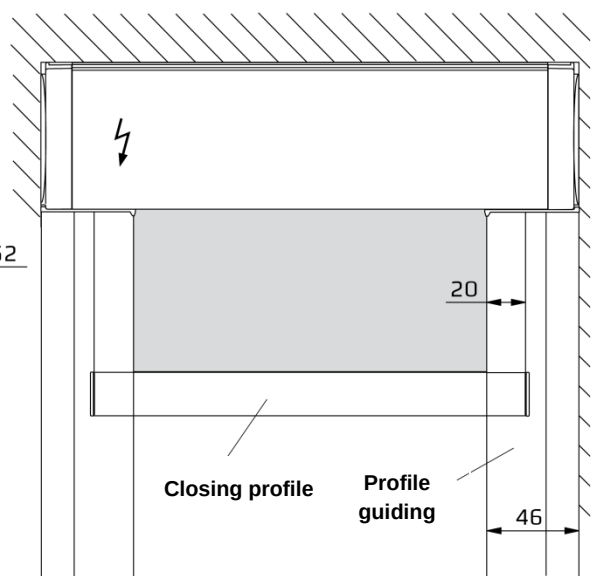
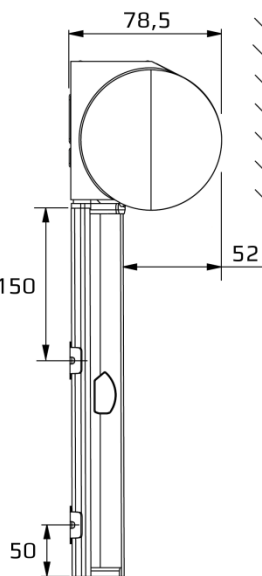
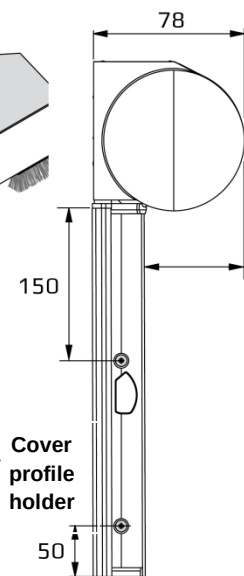
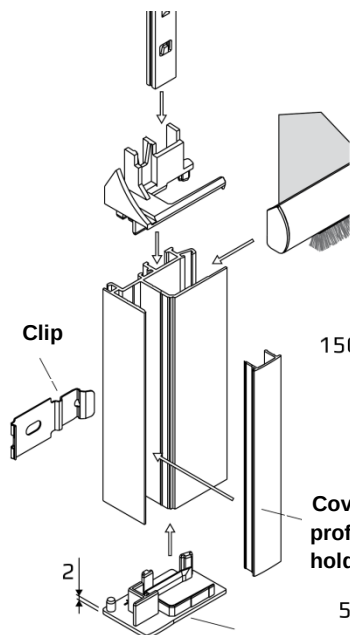
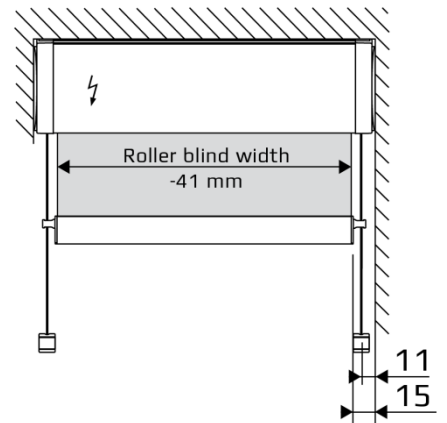
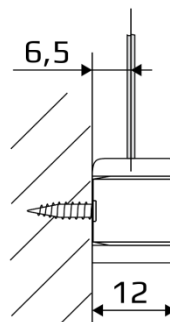
Cord guiding



Reveal fixing



Wall fixing



Specifications: Large Laser Blocking Roller Blind for operation by chain, crank or motor

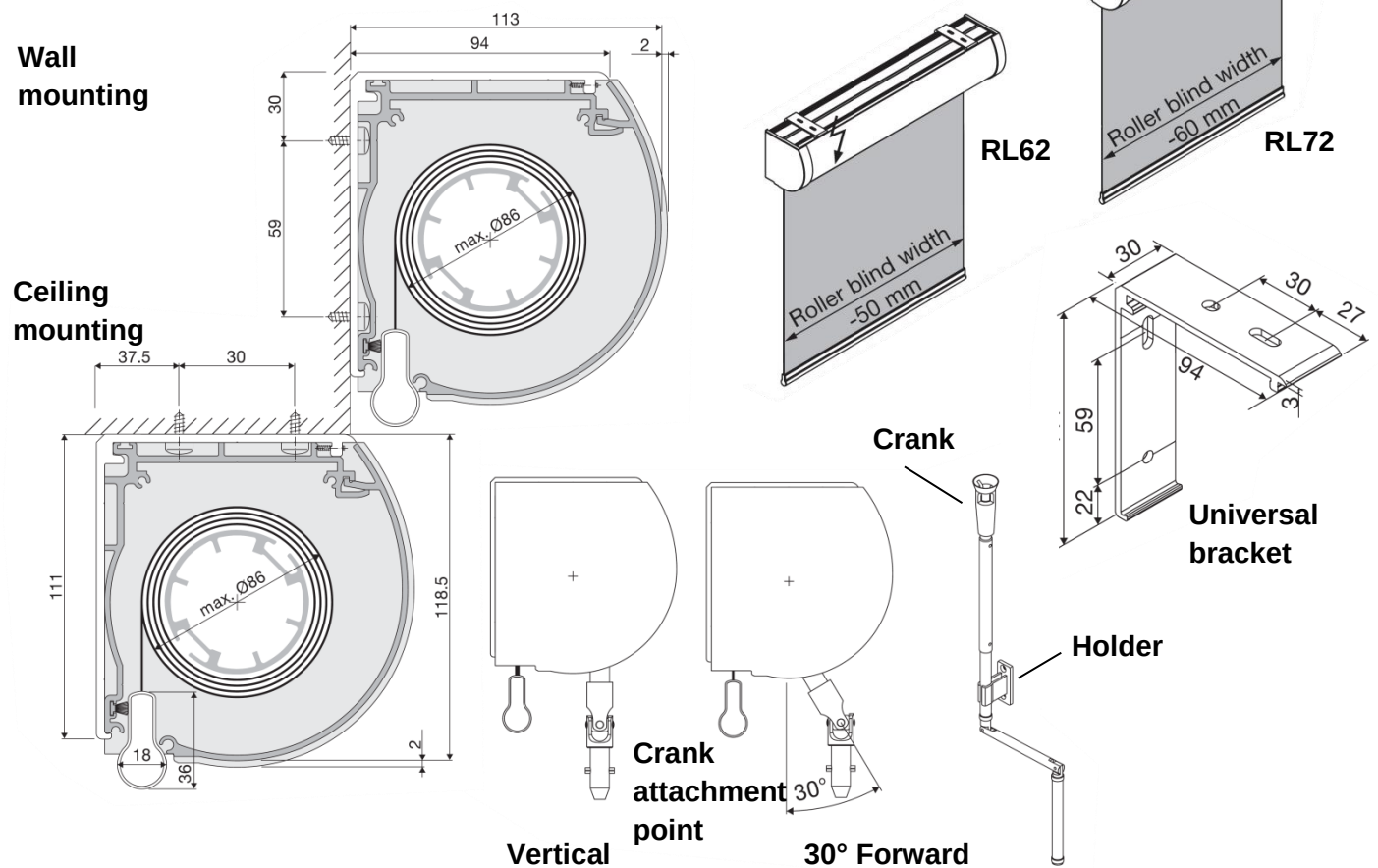
LMRB- RL12/ -RL62/ -RL72

RL12 Roller blind with round cassette profile and lateral chain operation.

RL62 Roller blind with round cassette profile and motor operation.

RL72 Roller blind with round cassette profile and lateral crank operation.

Roller blind width:	max. 4.00 m
Roller blind height:	max. 4.00 m
Hanging weight:	max. 12.0 Kg (by chain operation with lifting spring)
Operation:	Optional left or right Ø4.5 x 6 nickel-plated stainless steel ball Crank operation (white or grey) Motor operation
Operation height	Standard ball chain = Roller blind height Crank length optional 1.5 m, 2 m or 2.5 m
Colour	Profile: Standard white RAL 9016,
Mounting	Simple mounting on ceiling or wall with universal bracket



Large Laser Blocking Roller Blind for operation by chain, crank or motor

Profile guiding

The laser blocking material extends 36 mm into the profile guiding. Maximum angle of inclination 15°

Profile colour

Matches the cassette colour.

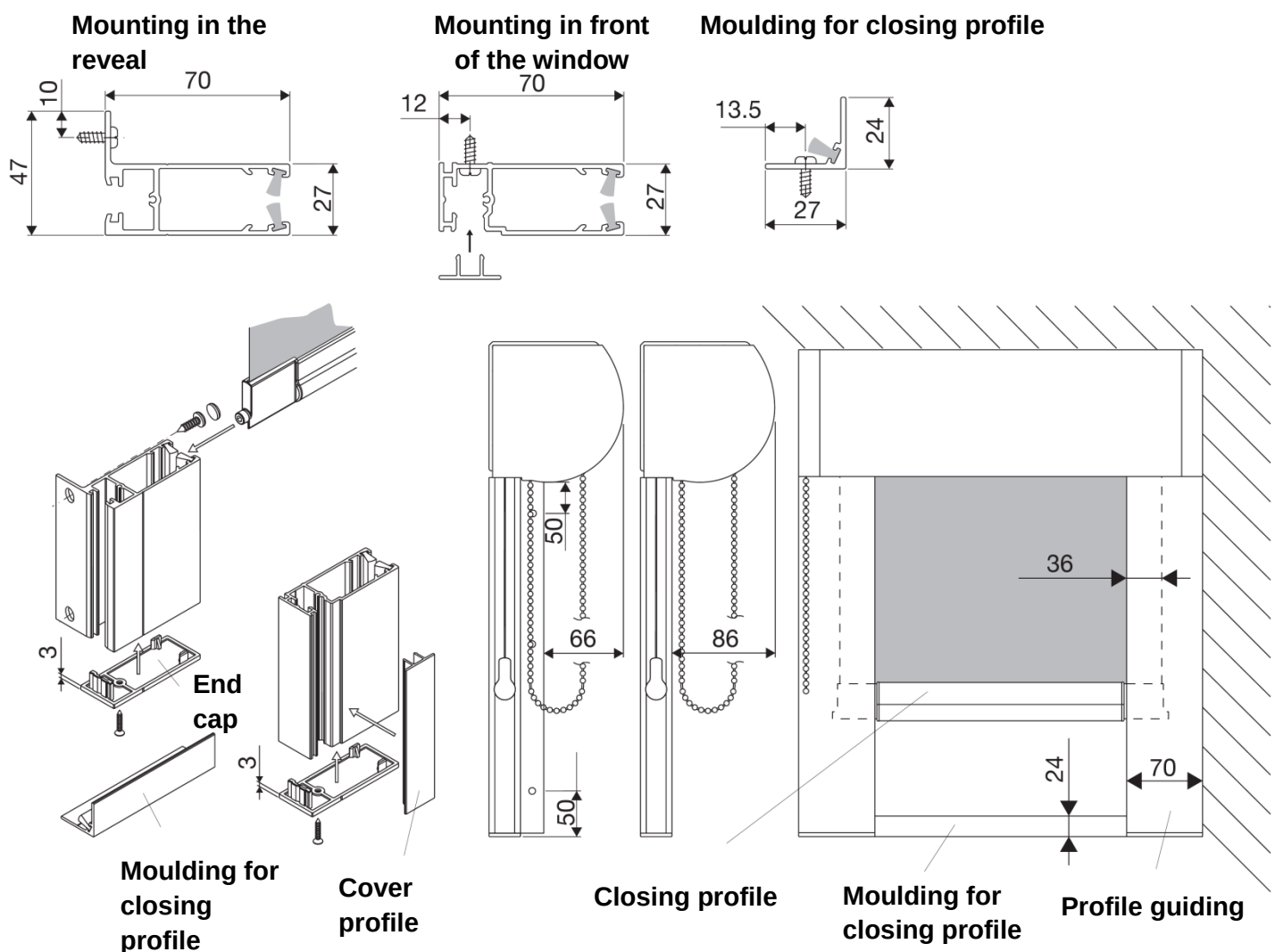
Dimensions

Cross section = 70 x 27 (47) mm / Length = max. 4.00 m.

Accessories

Tight brushes for moulding for the closing profile and closing profile of the hanging.

Note: The roller blind and the profile guiding must be mounted parallel and perpendicular.



Specification Sheet and Measurement

This sheet must be filled out for every encapsulated roller blind ordered. If there are a number of identical roller blinds then one sheet can be filled in. However, if there are any differences between the roller blinds then a separate sheet must be filled out for each one. Fax completed form to +44 (0) 1202 770730, or email to orders@lasermet.com

The shaded section is for Lasermet use only	Lasermet Job Number	
	Lasermet Purchase Order No.	

A purchase order is also required before production can begin.

Please tick one box only and then fill in the appropriate form overleaf and finally complete the table at the bottom of this page.

	Tick one box
Top fix	
Face fix	
Quantity of this size and type	

Top fix blinds are normally fitted inside a recessed window. In this case the exact aperture sizes must be quoted on form A. The blind will be made to fit within this space.

Face fix blinds are normally fitted to cover a window which is not recessed (eg viewing panel on door) or occasionally to cover an aperture (where it is not possible to fit the blind inside the aperture). In this case quote the height and width of the aperture to be covered on form B. Note that the outside dimensions of the blind casing will be substantially larger. These dimensions are shown on page 3 ("Face fix roller blinds").

Please complete the following table to ensure all options have been addressed for each blind.

For Roller Blind Operation	√	Top fix / Face fix	Left/Right operation	External Blind Width mm	External Blind Height mm	Interlocked? Yes/No
Chain Operated						
Crank Handle						
24v Wireless control			-			
24v Motorised (Dry contact)			-			
Mains Motorised 230V AC			-			
Notes / Quantity						

Form A – Top Fix blind Please give all measurements in mm		
Internal Aperture Width	Measured at top of aperture	
	Measured in centre of aperture	
	Measured at bottom of aperture	
	Smallest of above 3 measurements	
External Blind Width Including Frame (this should be the above figure less 5 mm)		
Internal Aperture Height	Measured at left side of aperture	
	Measured at centre of aperture	
	Measured at right side of aperture	
	Smallest of above 3 measurements	
External Blind Height Including Frame (this should be the above figure less 5 mm)		

Form B – Face Fix blind Please give all measurements in mm	
Width of aperture to be covered	
External Blind Width Including Frame (see “Face fix roller blinds” drgs)	
Height of aperture to be covered	
External Blind Height Including Frame (see “Face fix roller blinds” drgs)	

Face fix roller blinds

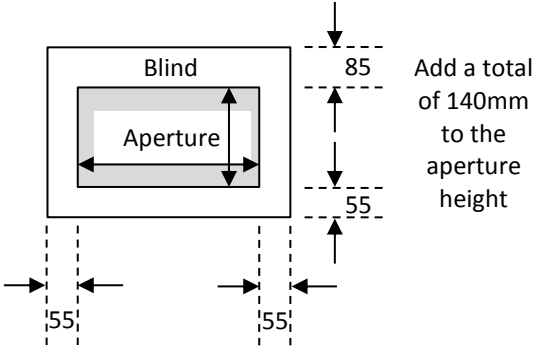
Medium or Large?

Order the Medium Roller Blind if the overall dimensions are up to 2000mm wide or up to 1500mm high

If either dimension is greater, a Large Roller Blind is required.

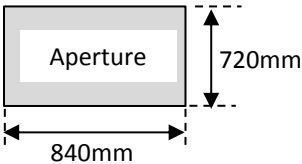
Ensure there is sufficient clearance around the aperture to accommodate the blind.

Medium Roller Blind



Add a total of 110mm to the aperture width

Worked example

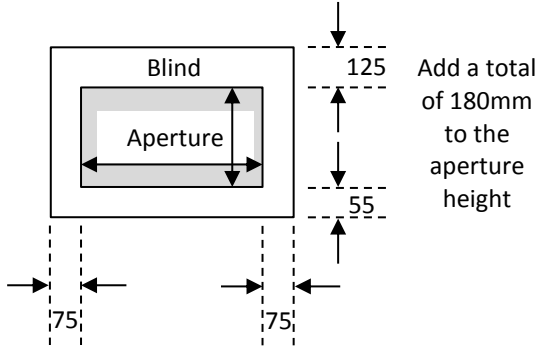


Order Face Fix Blind as follows...

720 mm	Aperture height
+ 140 mm	Blind height
= 860 mm	Total blind height

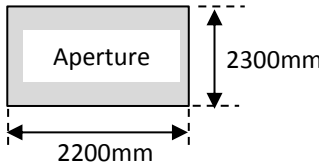
840 mm	Aperture width
+ 110 mm	Blind
= 950 mm	Total blind width

Large Roller Blind



Add a total of 150mm to the aperture width

Worked example



Order Face Fix Blind as follows...

2300 mm	Aperture height
+ 180 mm	Blind
= 2480 mm	Total blind height

2200 mm	Aperture width
+ 150 mm	Blind
= 2350 mm	Total blind width

Measuring Roller Blinds

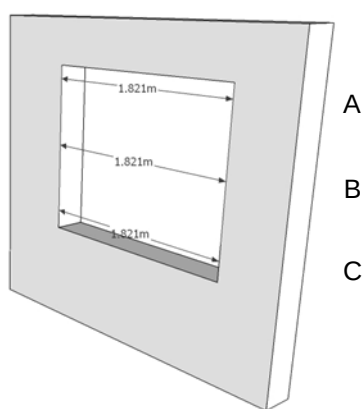
Encapsulated Top fix blind: measuring the aperture

Top fix is where the blind is attached at the top within the internal aperture

Step 1.

Measure the dimensions shown in the example below flush on the wall

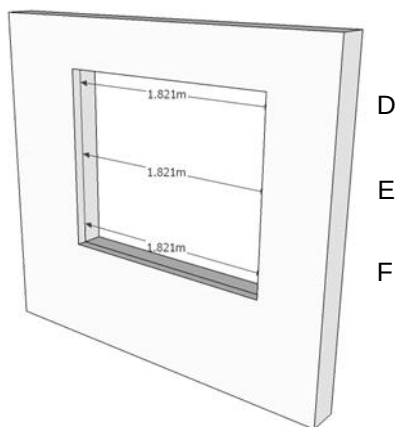
Lasermet advises that the measurements “A” (and “D”) are made at approximately 1cm down from the very top of the aperture. (This is because when the walls are plastered, there is often excess plaster at the very top of the sides of the aperture making the width slightly narrower. So measurement A may be slightly narrower than measurement B or C).



A =		mm
B =		mm
C =		mm

Step 2

Then measure the dimensions shown in the example below but 85mm in from the wall surface.

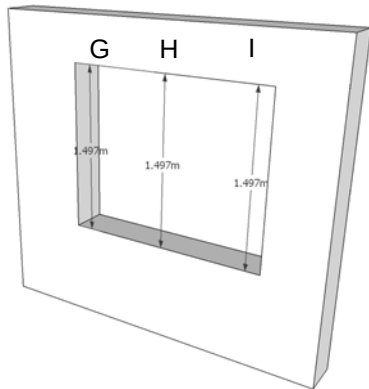


D =		mm
E =		mm
F =		mm

Smallest of the above 6 dimensions =		mm

Step 3

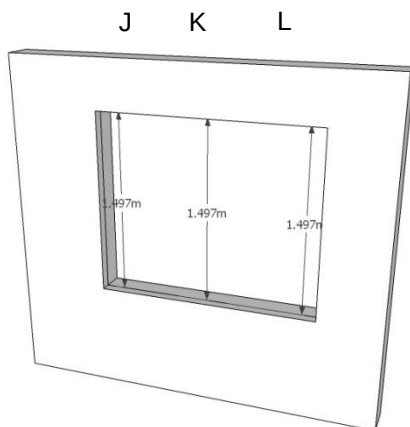
Measure the dimensions shown in the example below flush on the wall



G =		mm
H =		mm
I =		mm

Step 4

Then measure the dimensions shown in the example below but 85mm in from the wall surface.



J =		mm
K =		mm
L =		mm

Smallest of the above 6 dimensions =		mm

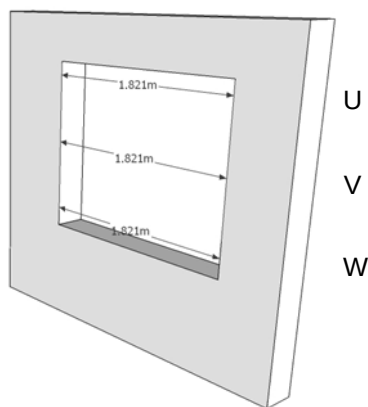
Face fix blind: measuring the aperture

If you want to have the roller blind to be face fixed then you need to measure the aperture as follows.

Please note that if there is a window sill that protrudes into the room, the roller blind will be obstructed from going any further down past the window.

Step 1

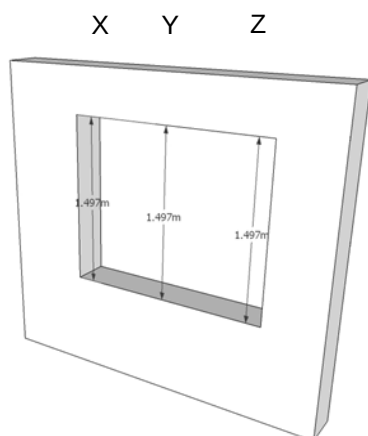
Measure the dimensions shown in the example below flush on the wall



U =		mm
V =		mm
W =		mm
Largest of the above		mm

Step 2

Measure the dimensions shown in the example below flush on the wall



X =		mm
Y =		mm
Z =		mm
Largest of the above		mm

Encapsulated Roller blind - (medium sized) - Fitting Instructions

Carefully unpack the kit and identify the components shown in Figure 1.

Fit the L shaped bracket to the framework using the face fix or top fix holes. See Figure 2

Note, the L shaped brackets should be positioned 100mm in from either end and no more than 600mm apart.

If the space is greater than 600mm 24" fit an additional bracket or brackets (supplied).

Make sure the grub screw is located at the bottom.
See Figures 2 and 3

Location of grub screw
viewed from below

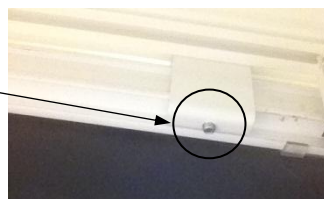


Figure 2

Locate the top of the cassette into the lip at the front of the L shaped bracket (see Figure 4).

Push the bottom of the cassette back into the bottom of the bracket and secure by turning the grub screw (using a 2mm Allen key).

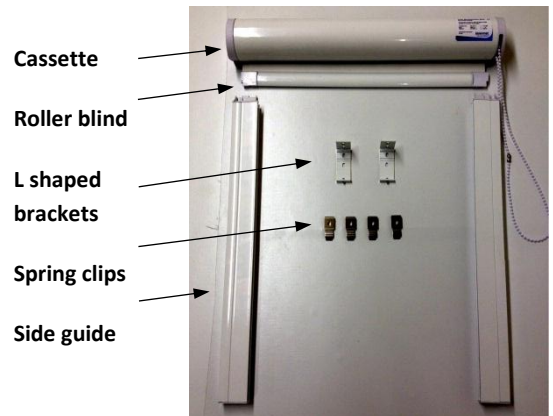


Figure 1

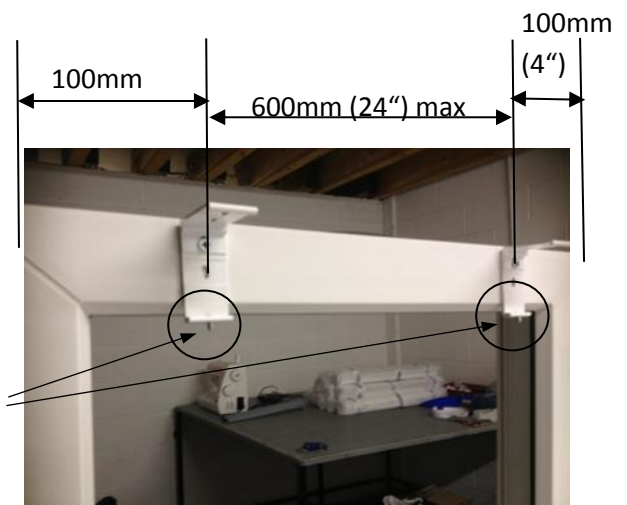


Figure 3



Figure 4

Position the side guides by offering up each guide to the cassette making sure the edge of the side guide is positioned on the outside of the cassette end cap. See Figures 5 and 6

Then draw a line down a short section of the side guide on window frame with a pencil. This is to locate the edge of where the spring clip will be fitted. (See Figure 7).

Remove the side guide and fasten the spring clips to the framework as shown in Figure 8.

Repeat this procedure with the guide on the other side.

Locate the edge of the spring clip with the edge of the side guide and snap into place. Repeat with the other side so it appears as in Figure 9.

Note the spring clips should be positioned no more than 1000mm (36") apart.

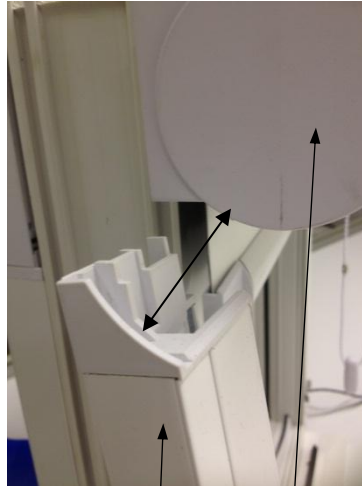


Figure 5

Side guide

Cassette end cap

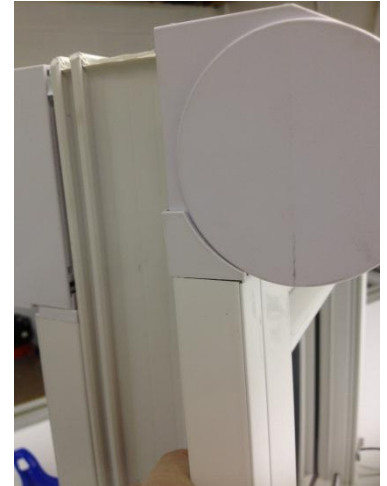


Figure 6

After positioning



Figure 7



Figure 8



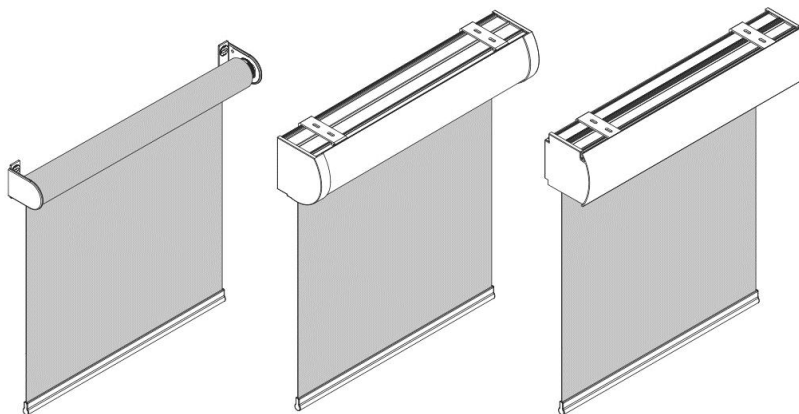
Figure 9

Mounting

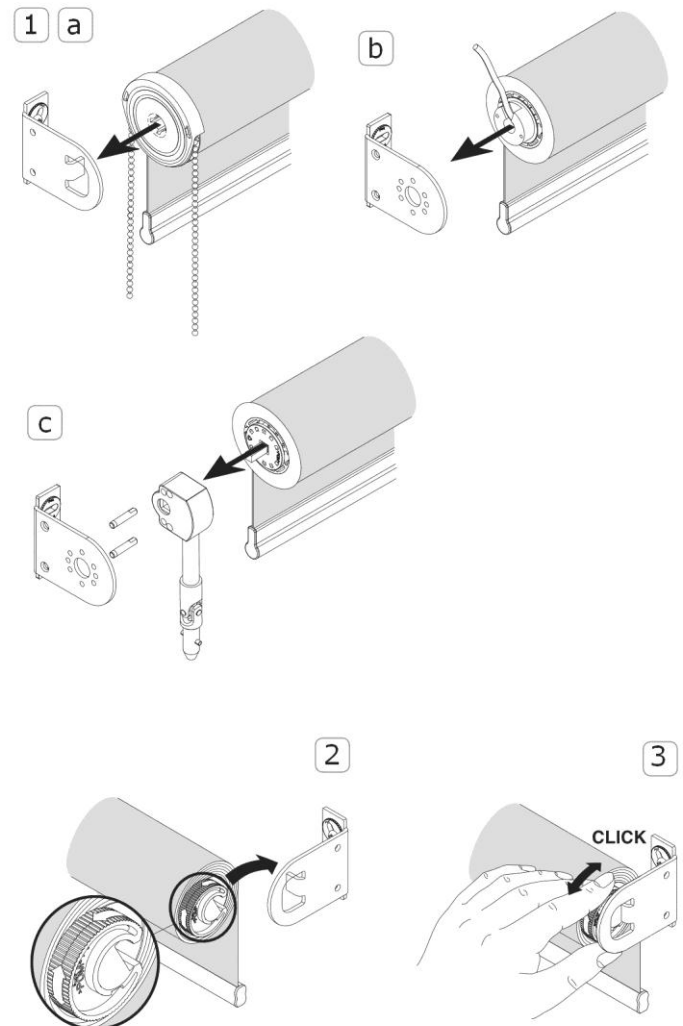
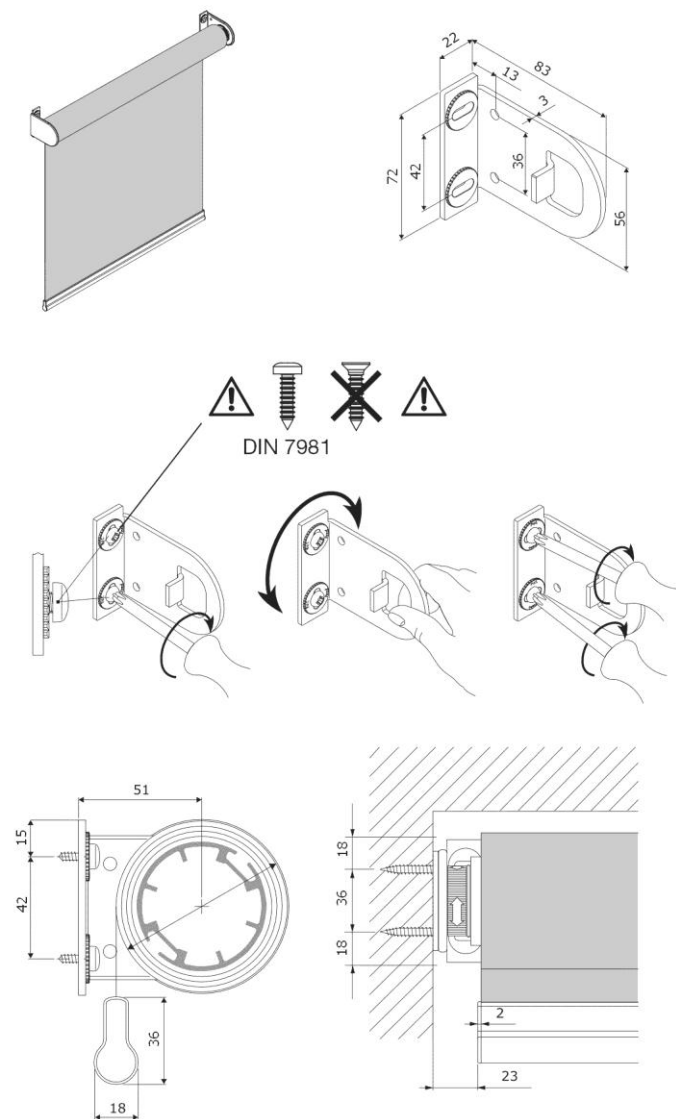
Safety notice and recommendations

Please note, blinds must be fitted by skilled personnel. Any incorrectly installed blind could result in an unsafe installation. Alterations to the blind must be approved by Lasermet. Always use appropriate screws and plugs suitable for the wall or ceiling where the blind is to be fitted.

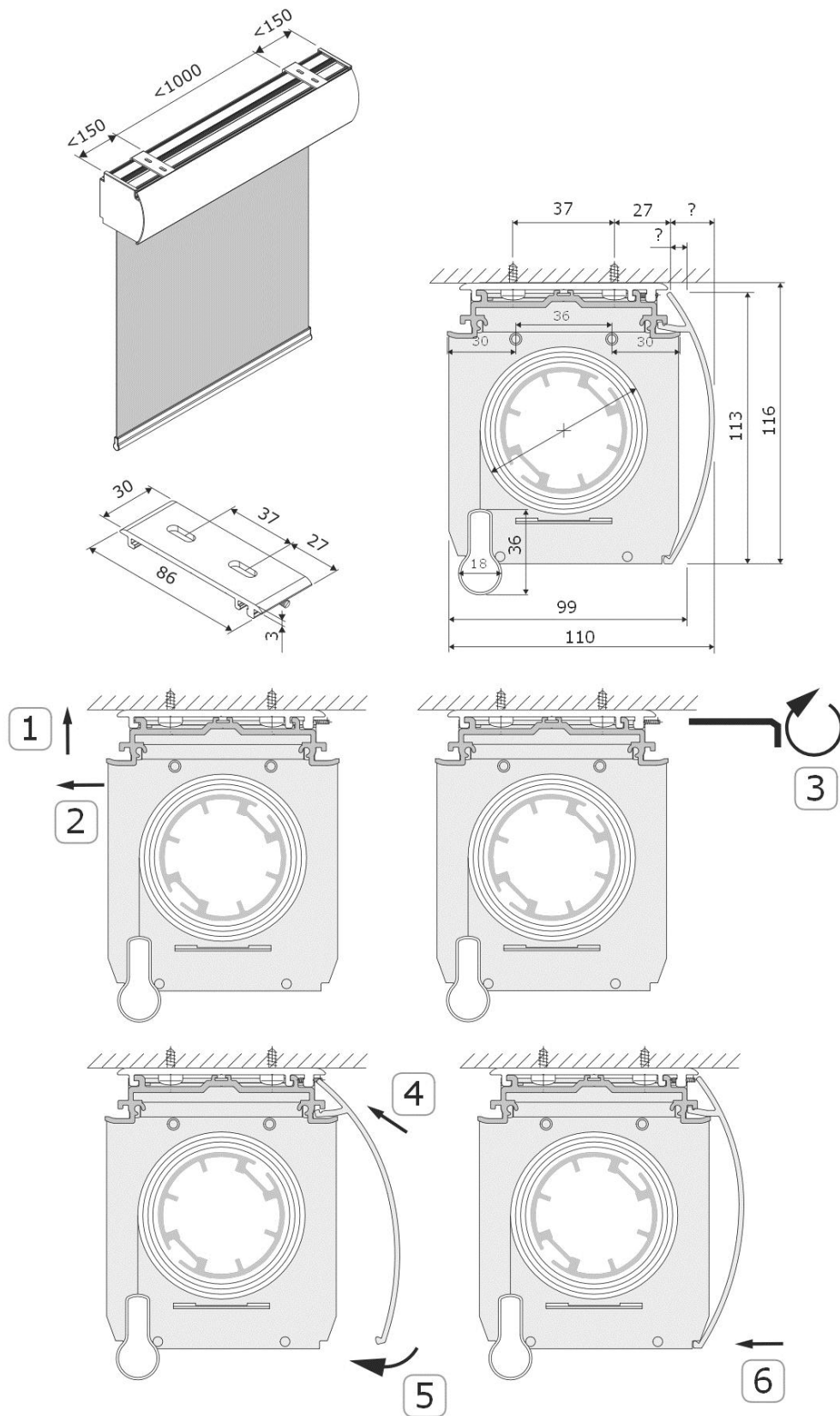
In the interest of safety, for example in hospitals, please adjust pull cords and chains to keep them out of reach of children and/or patients where appropriate and install safety devices such as cleats and cord tidies to limit access to cords.



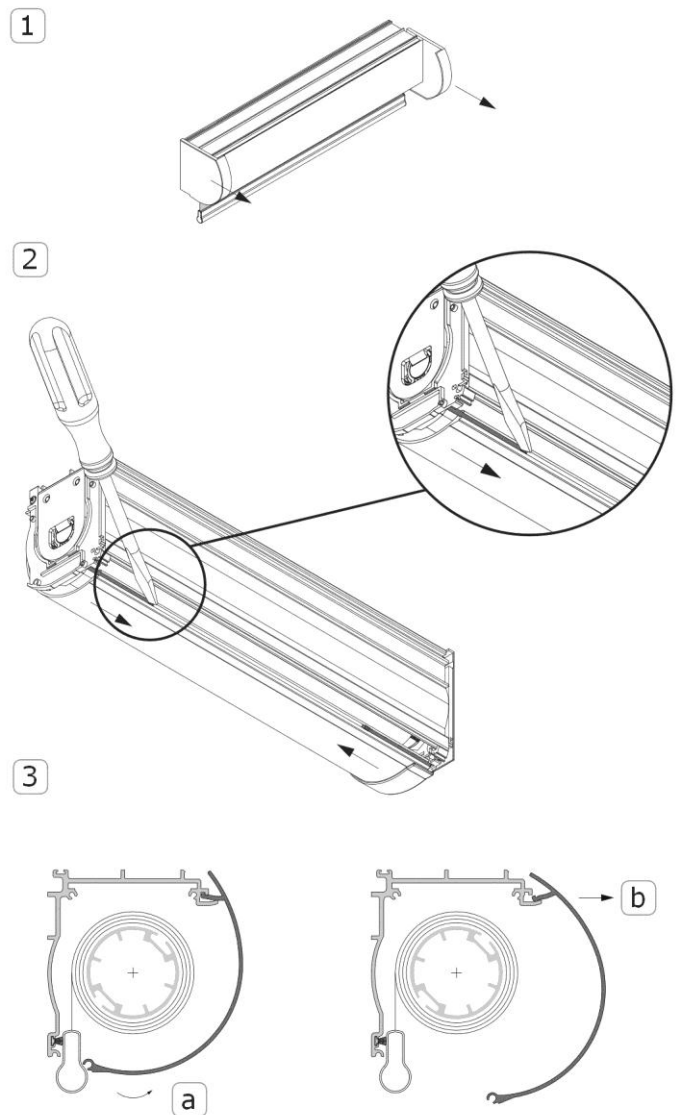
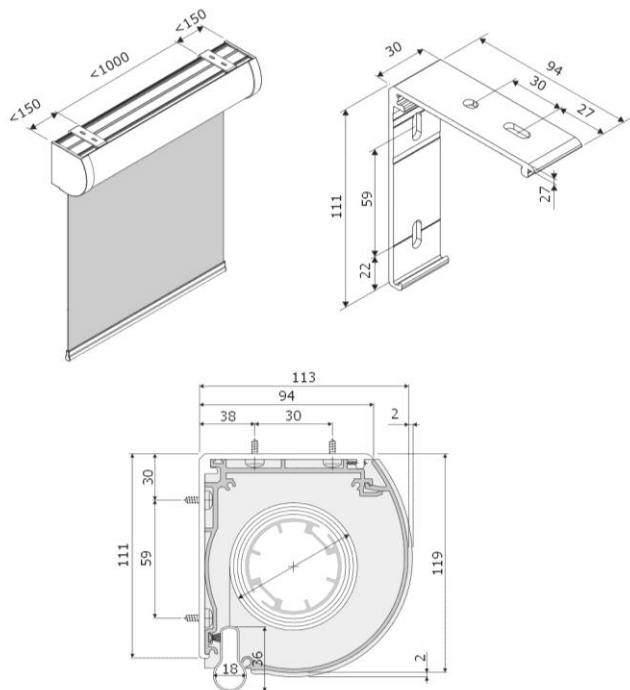
Holder



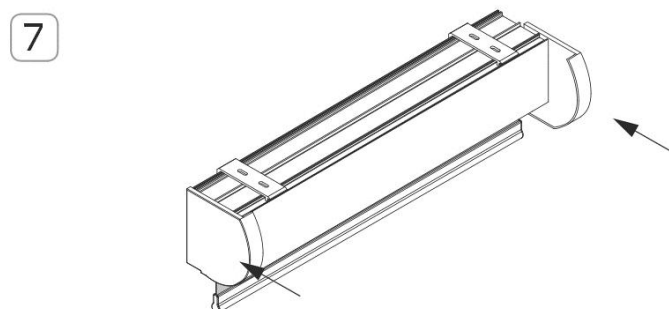
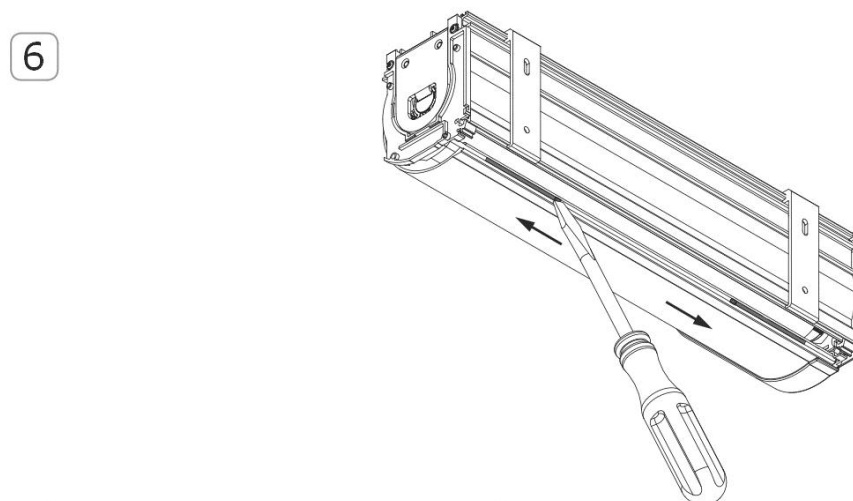
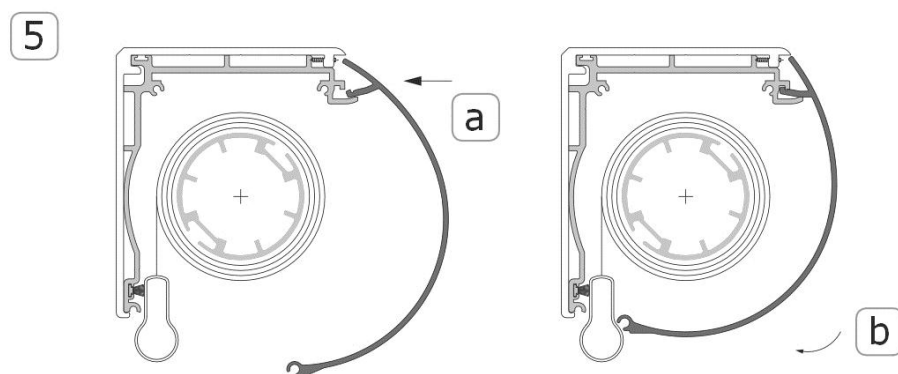
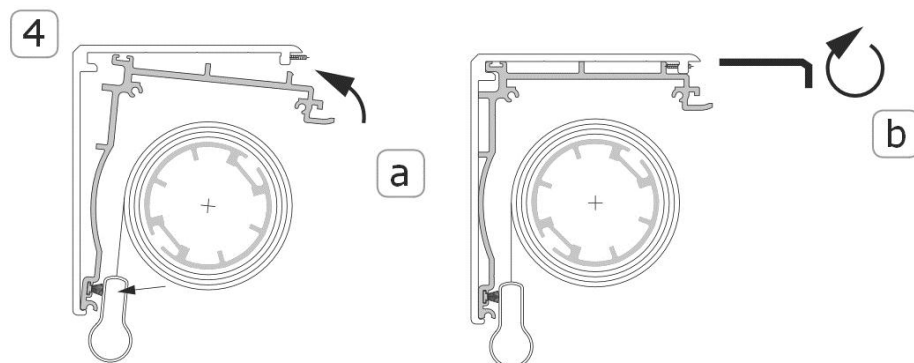
Fascia



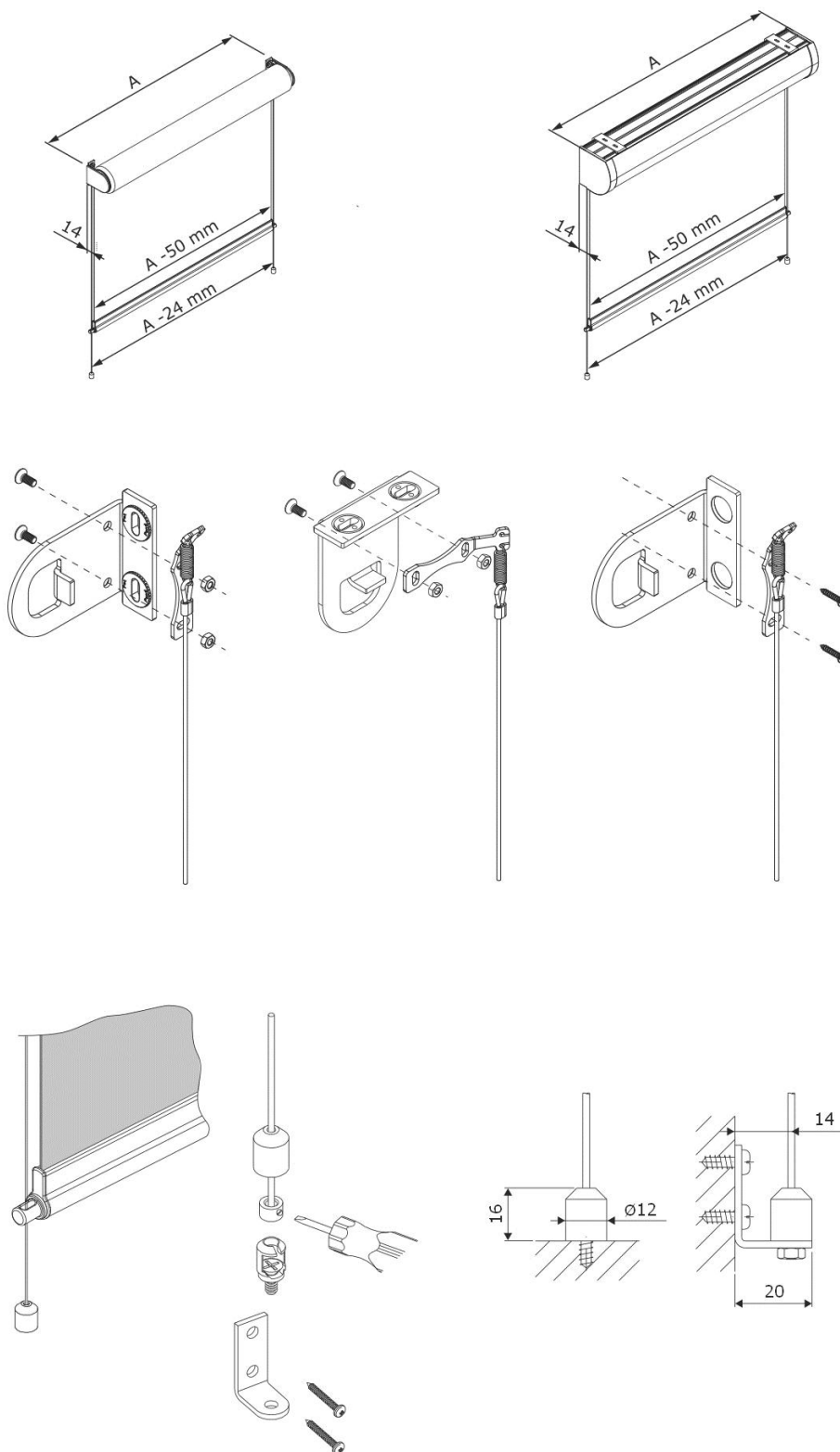
Encapsulated blind (or cassette)



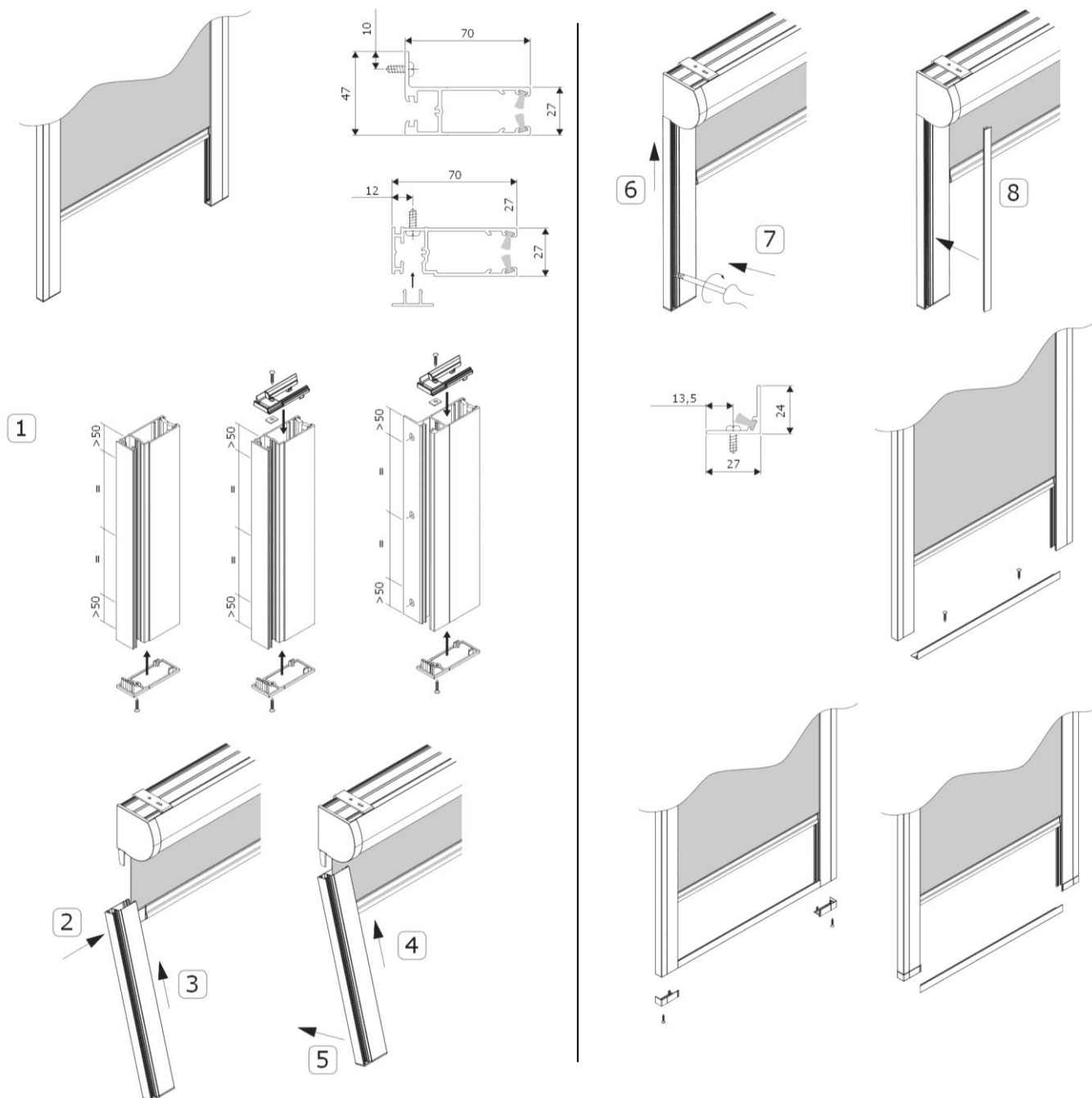
Encapsulated blind (or cassette)



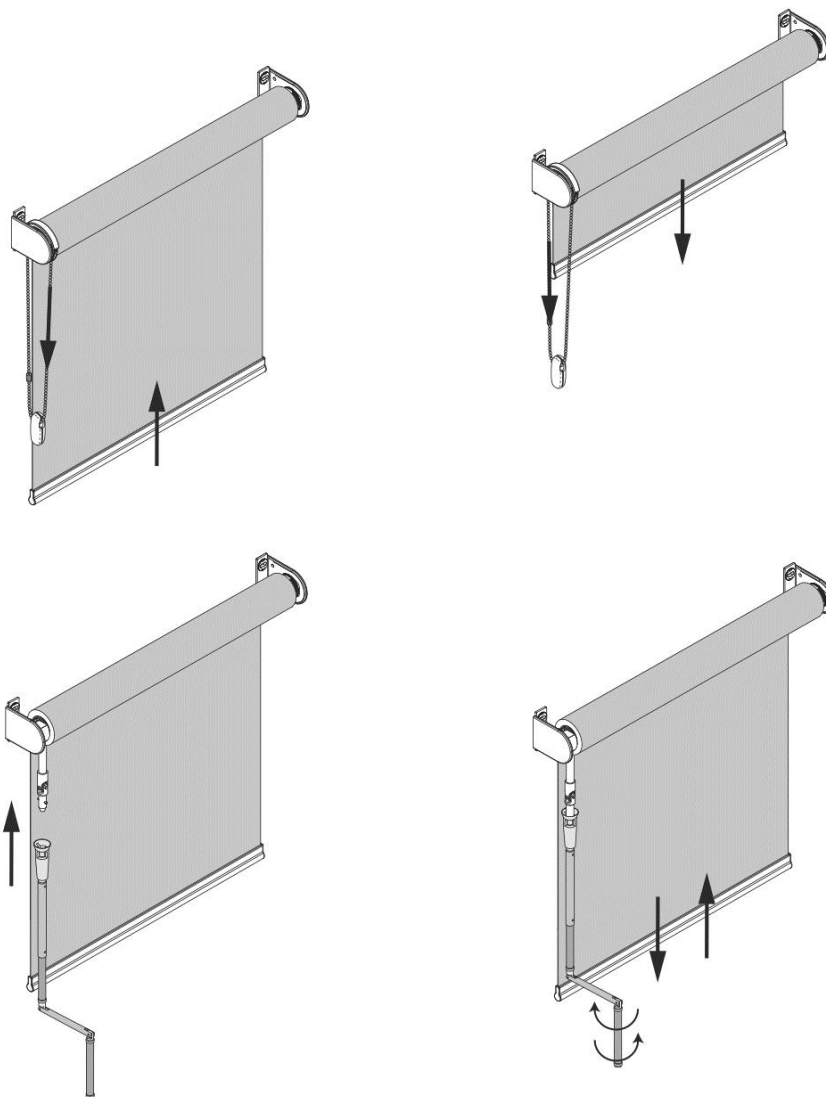
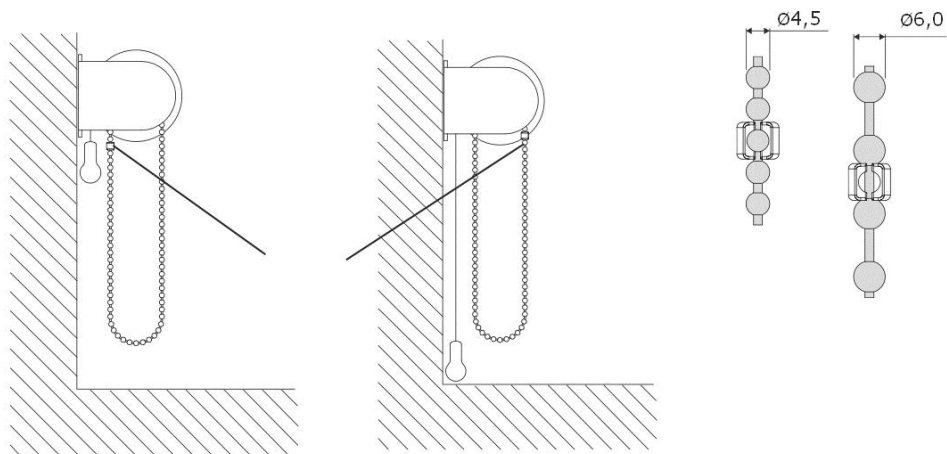
Cord guiding



Side profile



Operation



Wiring instructions for motorised blinds

You must read this before wiring up the power supply to the motor in the motorised roller blind.

Failure to observe and implement the correct wiring as shown will invalidate the warranty and will destroy the motor.

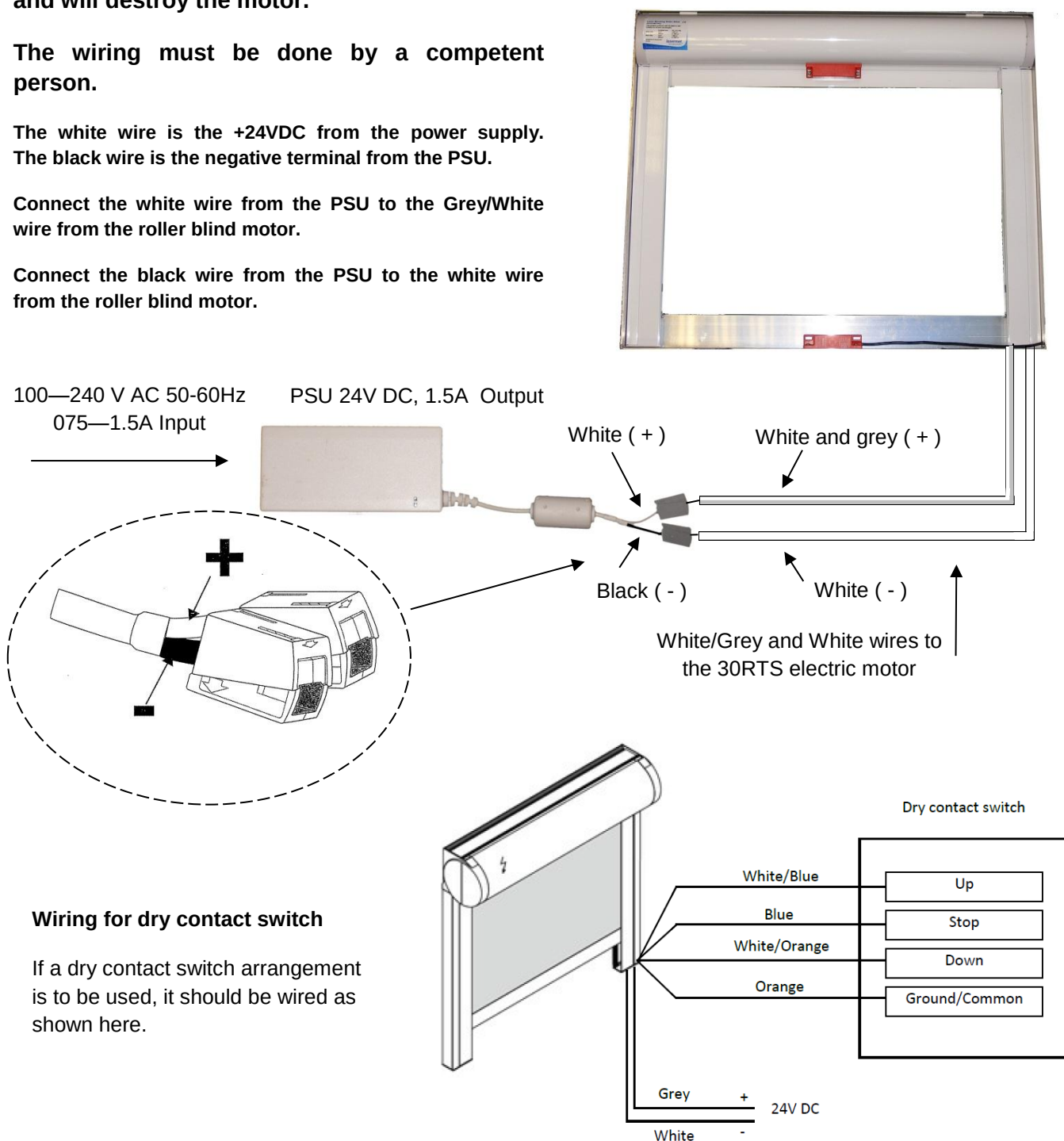
The wiring must be done by a competent person.

The white wire is the +24VDC from the power supply. The black wire is the negative terminal from the PSU.

Connect the white wire from the PSU to the Grey/White wire from the roller blind motor.

Connect the black wire from the PSU to the white wire from the roller blind motor.

If the blind is interlocked, the 4 interlock wires are coloured red, yellow, green and blue and are not connected with the motor.



Wiring for dry contact switch

If a dry contact switch arrangement is to be used, it should be wired as shown here.

Maintenance

Lasermet's laser blocking roller blinds do not require regular maintenance. There are no preventative maintenance requirements.

Cleaning

However, if the unit needs to be cleaned abrasive cleaning materials must not be used as they may cause damage.

The laser blocking material can be cleaned with soapy water (mild detergent) or it can be cleaned with Klorosept (or similar — used in hospital environments) using a soft cloth or similar. The laser blocking material has been tested with Klorosept as described below. Klorosept is therefore recognised as a safe fluid to use when cleaning Lasermet's laser blocking roller blind material.

Laser Blocking Material Test Report

In an in-house study, NaDCC solutions (Klorsept) at concentrations up to 10,000mg/l available chlorine were used to evaluate the effects of chlorine on the texture, appearance (colour), smell and weight of lasermet blocking curtain samples.

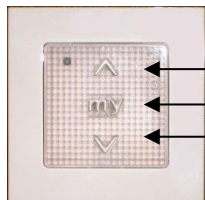
The lasermet material which was supplied by Lasermet UK was divided into 4 equal size pieces measuring 153x168mm approx and subjected to a range of test parameters as detailed below. Note: soaking of blinds is not a standard practice in hospitals but was used as an extreme worst case exposure scenario to exaggerate any possible adverse effects.

Test results

No .	Conditions	Weight before	Weight after 2 hours	Weight after 24 hours	Appearance/ Smell/ Texture after 2 hours	Appearance/ Smell/ Texture after 24 hours
1	Sample wiped (once) with 10,000mg/l solution and left to dry in air	28.1328g	28.1356g	28.1474g	No Change	No Change
2	Control Sample left to soak in Deionised water	27.8612g	28.7328g Allowed to air dry for 30 mins = 28.2938g & still drying Returned to solution	29.8128g Allowed to dry completely overnight = 27.7846g	No Change	No Change
3	Sample left to soak in 1,000mg/l solution	28.4258g	29.3188g Allowed to air dry for 30 mins = 29.0236g & still drying Returned to solution	30.8120g Allowed to dry completely overnight = 28.4274g	No Change	No Change in appearance or texture. Bitter-sweet odour from sample
4	Sample left to soak in 10,000mg/l solution	28.4198g	29.4652g Allowed to air dry for 30 mins = 29.2296g & still drying Returned to solution	31.4662g Allowed to dry completely overnight = 28.9150g	No Change in appearance or texture Slight bitter-sweet odour	No Change in appearance or texture Slight bitter-sweet odour

Programming the controller for motorised blinds

There are three buttons

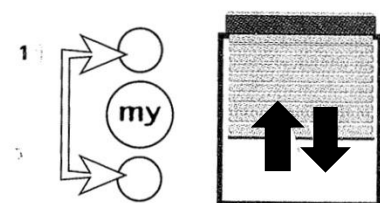


Up

"My" favourite position and Stop button

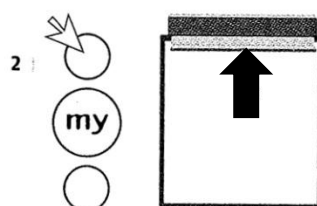
Down

1 Setting the run time

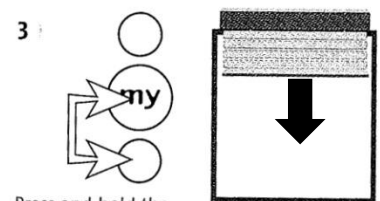


Press and hold the Up & Down buttons together for 3 seconds

The blind jogs

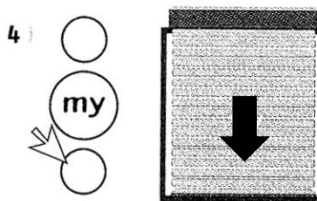


Press the Up button to raise the blind to the top limit position

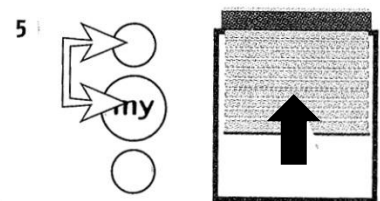


Press and hold the Stop & Down buttons together for 3 seconds

The blind will move down for 10 seconds

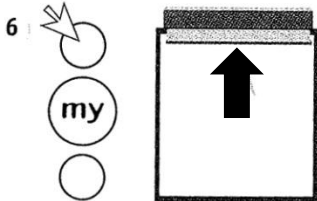


Press and hold the Down button until the blind reaches the lower limit position

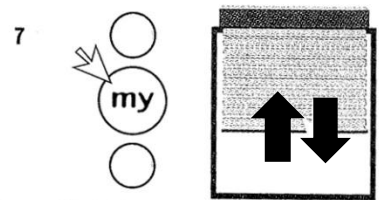


Press and hold the Stop & Up buttons together for 3 seconds

The blind will move up for 10 seconds

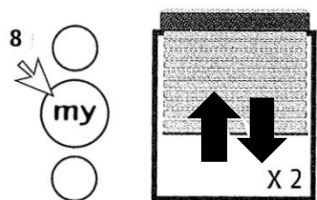


Press and hold the Up button until the blind reaches the upper limit position



Press and hold the Stop button for 3 seconds

The blind jogs



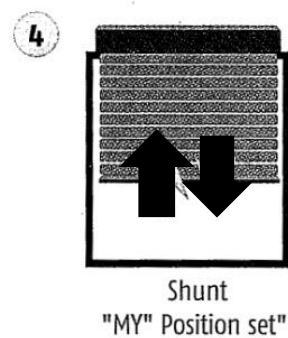
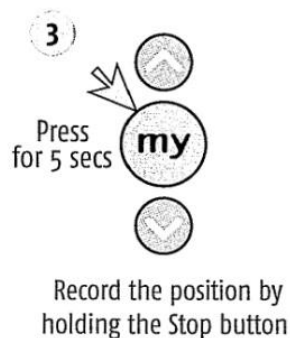
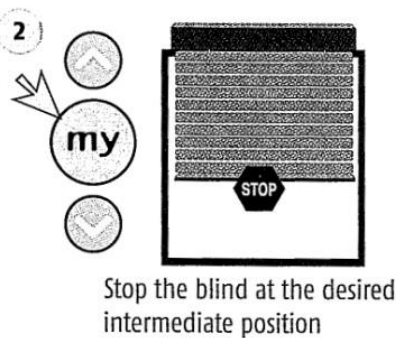
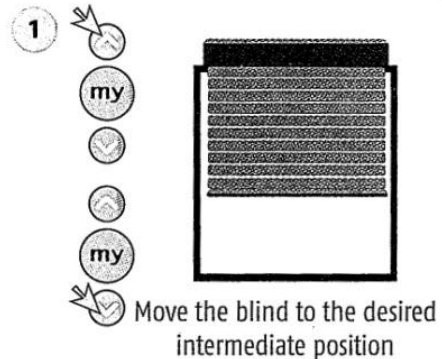
Press and hold the Stop button until the blind jogs twice

Run time set

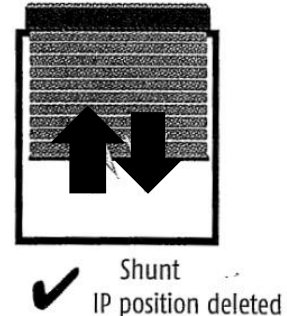
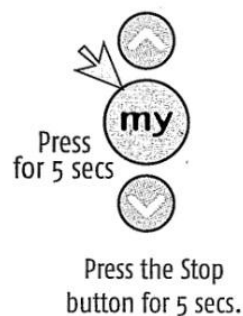
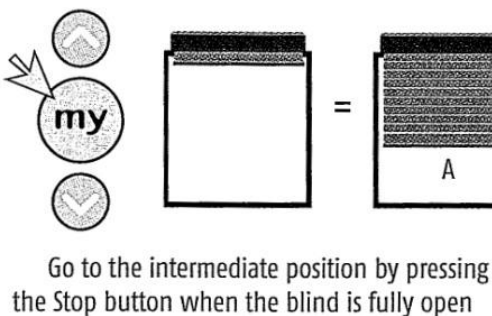
1 Setting an intermediate position

NOTE: The intermediate position is set by default to:
Roller – $\frac{3}{4}$ of the roller height.
Venetian – fully retracted position and slats tilted to 45 degrees.

"Use the Up or Down button to move the product towards the desired intermediate position".



2 Deleting the intermediate position



3 Using the intermediate position

Press the Stop button when the blind is fully open



Warranty for laser blocking roller blinds

Lasermet provide a 12 month warranty for defects in materials and manufacture, from the date of installation or delivery. This warranty covers the laser blocking material on the blind and the structure of the blind unit. Installations completed by Lasermet are covered against defects in workmanship for 12 months.

The motor has a five year warranty on electrically driven blinds. Electrical connections must be made in accordance with the installation instructions. Any failure to follow these instructions invalidates the warranty as any incorrect wiring can cause irreparable damage to the motor.

Damage or defects caused by other factors are not covered. For example, industrial contamination, incorrect cleaning, storm damage. Consequential loss is not covered under warranty. Compensation for indirect or direct loss or damage is expressly excluded. Rectification of the defects or a replacement delivery does not initiate a new warranty period. No claims, under the warranty, are valid in the case of minor, technically unavoidable deviations in colour, patterns or structure or in the case of dimensional deviations of ± 5 mm.

All roller blinds are made-to-measure units. For this reason, cancellation of orders placed and the return and or exchange of the goods are excluded. For all deliveries, payments and other legal transactions, English law takes precedence for any litigation.

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