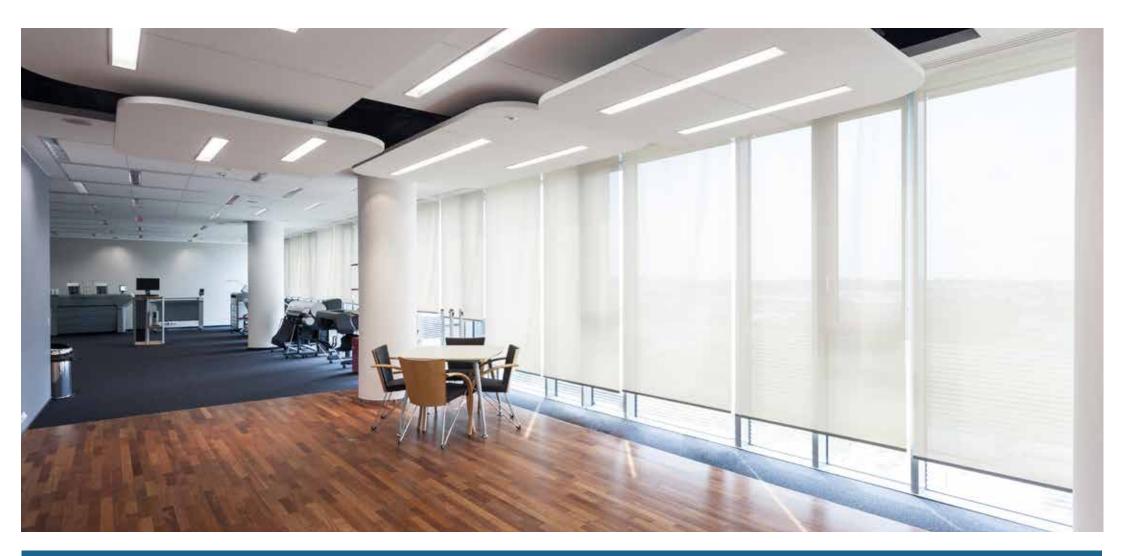
Roller Blind System







Salire[™] and Serena[®] Roller system

The roller system from Euro Systems is unique as it can be upgraded to the motorized Serena® version, without replacing any parts in the original blind, even the light gaps remain the same. Just add the motor on site and connect it to the power supply and the blind is motorized. Due to the different bracket Salire™ manual and Serena® motorized systems can be used in a large variety of situations and with different fabrics. This allows uniform appearance even with different dimensions and demands.

The Salire[™] and Serena[®] series comes with a 10 year warranty on the entire system (see warranty terms and conditions). For the fabric, a one year warranty is offered. All warranties by Euro Systems are non-depreciating

Salire™ Manual Roller Blind

Serena® Motorized Roller Blind

Special features within the Salire[™] and Serena[®] roller systems:

Commercial fabrics

With the project binder of Euro Systems architects and designers will have the largest range of commercial and sustainable fabrics to choose from. For each solar direction, glazing type and usage of the room, a special selected fabric will be available for specification. Euro Systems offers a separate and complete section of fabrics for sustainability e.g. LEED, BREEAM and Estidama projects.

The collection of technical fabrics varies in density from 0 to 10 % with excellent energy saving characteristics along with reduction in glare and heat gain..

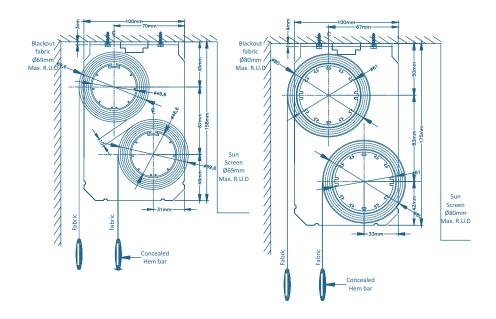


Double blinds

With our double bracket it is easy to install both a screen and blackout roller blind in the same window. This allows people to adjust light and heat according to the personal preference at the working station. This is a more economical installation than the standard bracket option for both screen and blackout blinds.

Multi-banding

With the Salire[™] system it is possible to have several blinds controlled by a single operating clutch. This solution is an economical solution where several windows in a straight line have to be covered with screen or blackout blinds. In addition these can be covered by the fascia to ensure single front by multiple blinds. Maximum area that can be covered by multi-banding is 16 m².



For the roller system multiple extra features are available Like pockets, enclosure, side channels.

Fascia

With a fascia you can cover the entire system and have a uniform design even when covering multiple blinds. The fascia is easy to attach and can also be retro-fitted on a later stage. Maximum width of a fascia is 6 m.

Guide wire

Roller blinds with stainless steel guide wires should be manufactured as a standard Salire[™] blind system. The standard brackets are prepared for adopting the SS guide wire, which should be PVC coated and 1,5 mm in diameter for interior blinds. For exterior blinds the SS guide wire has to be minimum 3,0 mm in diameter.



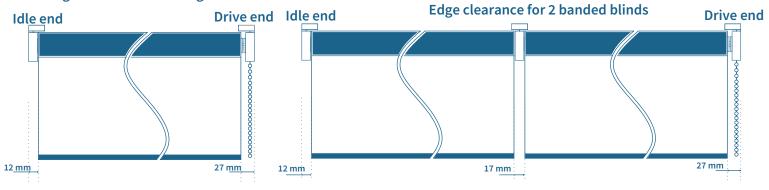
System Parameters:

Fabric: UP to 0.7 mm in thickness Fabric Weight: Up to 600 g/m Bottom bar: Up to 700 g/m

Win Hin cm	Max. R U D 46.6 mm	Max. R U D 61 mm	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400
100	58 mm	67 mm																
140	62 mm	70 mm																
160	64 mm	72 mm												Т	ube 6	1 mm	dia	
180	65 mm	73 mm					Tube -	46.6	mm d	ia								
200	67 mm	75 mm					Tube .	10.01	minu	Ia								
240	71 mm	78 mm																
280	74 mm	81 mm																
320	78 mm	84 mm																
360	82 mm	87 mm																
400	85 mm	90 mm																

Note: Roll up diameter (R.U.D); Max R.U.D is calculated with 0.7mm thick fabric







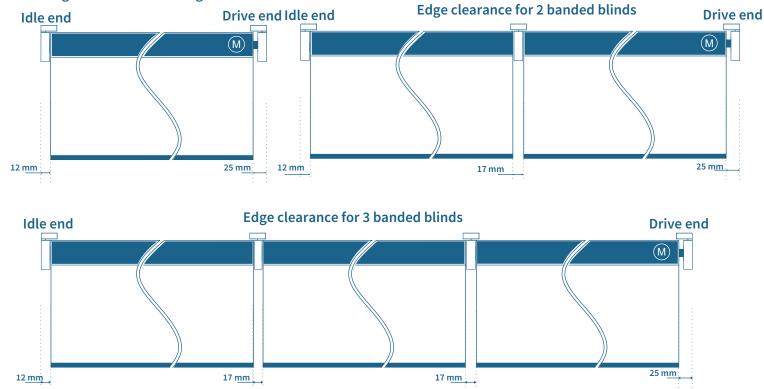
System Parameters:

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		100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	
58 mm	67 mm																	
62 mm	70 mm																	
64 mm	72 mm																	
65 mm	73 mm		Tube 46.6 mm dia											Tube 61 mm dia				
67 mm	75 mm																	
71 mm	78 mm																	
74 mm	81 mm																	
78 mm	84 mm																	
82 mm	87 mm																	
85 mm	90 mm																	
	58 mm 62 mm 64 mm 65 mm 67 mm 71 mm 74 mm 78 mm 82 mm	Korrent Korrent 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 75 mm 67 mm 78 mm 71 mm 78 mm 74 mm 81 mm 78 mm 84 mm 82 mm 87 mm 85 mm 90 mm	58 mm 67 mm 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 75 mm 67 mm 75 mm 71 mm 78 mm 74 mm 81 mm 78 mm 84 mm 82 mm 87 mm 85 mm 90 mm	Starming Starming 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 75 mm 71 mm 78 mm 74 mm 81 mm 78 mm 84 mm 82 mm 87 mm 85 mm 90 mm	Skitter Skitter Skitter Skitter	Starmin Starmin 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 75 mm 71 mm 78 mm 74 mm 81 mm 78 mm 84 mm 82 mm 87 mm 85 mm 90 mm	Strum Strum 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 75 mm 67 mm 75 mm 71 mm 78 mm 71 mm 81 mm 78 mm 84 mm 82 mm 87 mm 85 mm 90 mm	Strum Or unit 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 75 mm 67 mm 75 mm 71 mm 78 mm 74 mm 81 mm 78 mm 84 mm	Strum Orum 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 75 mm 67 mm 75 mm 71 mm 78 mm 71 mm 81 mm 78 mm 84 mm 82 mm 87 mm 85 mm 90 mm	Normal Normal 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 75 mm 67 mm 75 mm 71 mm 78 mm 71 mm 78 mm 71 mm 81 mm 72 mm 84 mm 82 mm 87 mm 87 mm 90 mm	Serial Serial 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 73 mm 67 mm 75 mm 71 mm 78 mm 71 mm 81 mm 78 mm 84 mm 82 mm 87 mm 81 mm	Normal Normal 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 73 mm 67 mm 75 mm 71 mm 78 mm 71 mm 78 mm 71 mm 81 mm 72 mm 84 mm 73 mm 84 mm 82 mm 87 mm 81 mm 90 mm	Strum Otimination 58 mm 67 mm 62 mm 70 mm 64 mm 72 mm 65 mm 73 mm 67 mm 73 mm 67 mm 75 mm 71 mm 78 mm 71 mm 78 mm 81 mm 84 mm 82 mm 87 mm 87 mm 87 mm 87 mm 90 mm	Struin Struin 58 m 67 m 62 m 70 m 64 m 70 m 67 m 73 m 67 m 73 m 67 m 75 m 71 m 76 m 78 m 81 m 78 m 84 m 82 m 87 m 87 m 80 m	Normal Otime 58 m 67 m 62 m 70 m 64 m 70 m 65 m 73 m 67 m 75 m 75 m 75 m 71 m 75 m 71 m 78 m 81 m	Struin Struin Struin 58 m 67 m 67 m 70 m 64 m 70 m 67 m 70 m 67 m 75 m 75 m 75 m 71 m 76 m 81 m	Normal Normal 58 m 67 m 62 m 70 m 64 m 72 m 65 m 73 m 67 m 75 m 75 m 75 m 71 m 76 m 71 m 78 m 71 m 79 m 71	

Note: Roll up diameter (R.U.D); Max R.U.D is calculated with 0.7mm thick fabric





Euro Systems roller system hardware features and specifications

For proper installation detailed site specific shop-drawings are necessary. Please contact Euro Systems engineering department to obtain correct shop-drawings. Can be an especially important cost saving in base building design, where large quantities may be required.

The roller system is designed, developed and fabricated to be a fully integrated unit and is produced by the manufacturer, Euro Systems, with a warranty providing that all parts and components (mechanism, blind, guide wire, side channels etc.) have been designed and tested as a compatible integrated system.

The basic configuration is an individual or two blinds controlled from a single or separate mechanism.

	Specification	Salire™	Serena®
1.	Mounting brackets The drive and idle-end assembly along with the center support systems are attached to a 2 mm steel universal mounting bracket 100 x 105 mm. The drive-end bracket requires no adjustment hence faster installations. Optional colours can be ordered.		Ø
2.	End cap Brackets can be covered with plastic end cap permanently mounted to the brackets. The end caps are made of POM plastic.		
3. A	Operationg clutch Special designed clutch ensures that it disengages to 90 % during the raising and lowering of the blind and can withstand a pull force of 18 kg; maximum recommended blind lift is 9 kg. The brake assembly with double ball bearing and self-lubricating, assures a smooth and non-jerky operation when raising and lowering the blind, can be used with either a metal or plastic ball chain.		
В	An asynchronous motor with built-in reversible capacitor start-and-run is made to be operated with 230 VAC at 50 Hz, single phased, temperature class A (Maximum temperature rating of 105°C to the reference ambient temperature of 40°C, total 145°C), thermally protected, totally enclosed, maintenance free with locking disconnect plug assembly furnished with each operator.		
4.	End plug A spring loaded plug end, made of POM plastic and is fitted with double ball bearing for alignment and strength, allows for quick and easy installation by a single individual even on large blinds.		
5.	Tube An extruded aluminium tube, T6 alloys with a 47 mm or 61 mm outer diameter, depending on fabric choice (within Euro Systems recommended weight limits). The tube is extruded with one fabric- mounting channel designed to support the blind fabric with spline. Extruded aluminium tube is used to ensure a high degree of torsional strength. The design allows for full integration of selected fabric and also provides maximum resistance to tube deflection.		

	Specification	Salire™	Serena®
6.	Mounting spline Extruded vinyl with asymmetrical locking channel and embossed fabric guide for use with 47 mm and 61 mm outer diameter tube. The spline has sufficient capacity to support the fabric and addi- tional hem weights without releasing from the tube or without extra wrap of fabric on the tube. Spline attached fabric may be installed or removed from the tube without disassembling or remov- al from the brackets.		Ø
7.	Hem bar Mill-finished hem bars in single lengths as appropriate for the blind size, concealed in a fabric hem pocket or fabric wrapped. Optional painted finishes with key way for fabrics.		Ø
8.	Optional fascia The fascia can be provided for standard, large and centre brackets. Each bracket allows the fascia to extend beyond the brackets giving the possibility to create wall-to-wall fascia, with the brackets installed behind the fascia front. The fascia can be installed as single unit covering multiple blinds (multi- banding) without joints in full length of 600 cm. The fascia is clicked on to the brackets with- out use of glue, magnets or other visible fasteners.		Ø
9.	Edge clearances Drive-end: 27mm, idle-end: 12 mm, and Intermediate: 17 mm.	Ø	
10.	Center support brackets For wall or ceiling mounted multi-banded blinds. The centre bracket shall accept continuous lengths of fascia, which will span over two or more blinds. Minimum length is 100 cm.	Ø	Ø
11.	Components Plastic components are made of strong and dimensionally stable POM material.		
12.	Multi-banding A single mechanism to operate several blinds simultaneously and assuring alignment for all blinds (within Euro Systems recommended weight limits).	Ø	Ø
13.	Double blinds A double mounting bracket assembly for drive-end, idle-end and centre bracket to offer the option of installing two blinds, front-to-back or top and bottom, with perfect alignment and minimizing installation labour. Double blind brackets have all the same features as the standard bracket, but allows screen and blackout blinds to be installed on a single bracket. With this solution two blinds fit into a smaller projection than two single blinds next to each other		

	Specification	Salire™	Serena®
14.	Guide wire Roller blinds with guide wires should be manufactured as per the Euro Systems standard. The standard brackets are prepared for adopting the guide wire, which should be a PVC coated wire and glass filled nylon plastic base or side fix units.		Ø
15.	Ball chain The ball chain is available in stainless steel or plastic. The pitch of the operating chain is designed to provide a smooth and silent operation. Each chain system has a variety of connector units to allow for child safe operation where required.		
16.	Off-set chain and fascia The ball chain drops behind the fascia without touching the backside of the fascia hence assuring a silent operation. The large bracket ensures fascia returns no less than 21,5 mm from the middle of the hardware concealing tube and mechanism.		
17.	Hardware All manual blinds are available with a universal off-set drive and left or right-hand drive. The off-set drive chain assembly places both operating chains at the same location. The distance between the centreline of the operating chain shall not exceed 13 mm.		
18.	Limit switch Internal limit switches are adjusted by two external turning screws or electronically set to allow exact setting of end stops in both raised and lowered position. Micro switches provide circuit brak- ing at the end of run. The limit switch setting cannot be disturbed by the action of the roller tube.		Ø
19.	Intelligent motors with bus line control The intelligent motor may have manual, push-button or electronic limit switch adjustment.		
20.	Brake A solenoid activated disc brake mechanism stops and holds any position. The brake automatically releases when the motor is operating.		Ø

	Specification	Salire™	Serena®
21.	Installation A single pin locks the drive end of the motor to the tube. A notched section of the tube turns the ring, which counts the turns and activates the limit switch. To remove the motors, the pin is pressed out of the tube and the motor slides out.		
22.	Sizes The motors are available in torques of 3 – 20 Nm (lifting capacity), 14 – 28 rpm speed to meet spec- ified requirements and shall not exceed 45 mm in diameter as 230 VAC motors.		Ø
23.	Connectivity Motors are available with a 30 cm long wire with a male disconnect plug (power plug). The discon- nect plug can be plugged into a compatible plug-in receptacle or a junction box wire with a female disconnect plug.		Ø
24.	Warranty The manufacturer provides warranty that the motor is free of manufacturing defects for ten (10) years from installation date. This warranty is void if the products have been improperly installed, wired or subjected to improper care. Warranty void if controlled by control systems not previously approved by Euro Systems.	Ø	 Image: A start of the start of



Pockets for Salire[™] and Serena[®] blinds

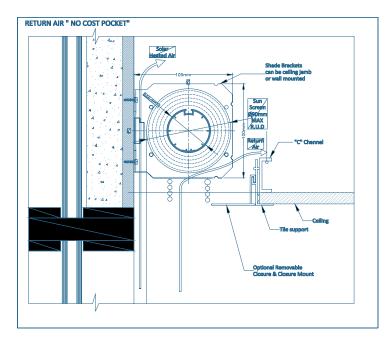
Pockets

Euro Systems offers a complete range of pockets and accessories, which allow Salire[™] and Serena[®] blinds to be integrated into the ceiling for concealment above the ceiling. Pockets are available for single and double blinds systems ensuring the least amount of space being used as possible. The pocket accessories include a wide range of removable closures that allows for visual aesthetic of the rollers and minimize reveal whilst allowing the hem bar passing through, providing clean lines and a tile support for the ceiling grid.

The standard pockets can be used for both the Salire[™] and Serena[®] roller systems either as single blinds or double blinds. The P120 pocket is for single blinds and the P150 is used for Serena[®] motorized blinds, where the demand is to hide control equipment inside the pocket along with the blind.

The P215 pocket is for use with the Euro Systems double bracket for a combination of blackout and screen fabric, whereas the P300 pocket is also for double blinds, but on separate brackets for the two roller blinds.

The standard pocket, made of extruded aluminum, can be equipped with return air holes to ensure correct venting as the ventilation is increased by greater air movement through the return plenum. This reduces the thermal stress on the glass as well as solar heat build-up at the window wall.



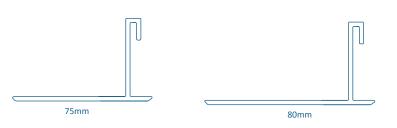
Optima pocket

Euro Systems "Optima pocket" design provides the option of concealing the blinds above the ceiling inexpensively and having the same return air capabilities of the standard pocket. By use of wall angles Salire[™] and Serena[®] brackets can be integrated to the ceiling grid, or one can simply stop the ceiling several cm from the window wall. Euro Systems aluminum closure mounts and closure angels can be integrated to provide the same trim pieces as the standard pocket.

The "Optima pocket" design can be an especially important cost saving in base building design, where large quantities may be required.

THIS DIAGRAM IS FOR EXAMPLE ONLY AND IS NOT TO BE USED AS AN INSTALLATION GUIDE!

For proper installation detailed site specific shop-drawings are necessary. Please contact Euro Systems engineering department to obtain correct shop-drawings.an be an especially important cost saving in base building design, where large quantities may be required.

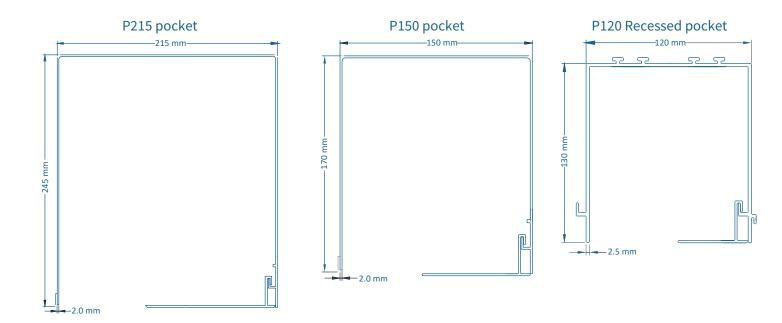


Custom pockets

Custom designed pockets from bent 2 mm aluminum with accessories are available for specific project. Size and quantity will dictate whether a custom pocket design will be extruded aluminum or bent steel. Contact your Euro Systems representative with details of your project's requirements.

Enclosure

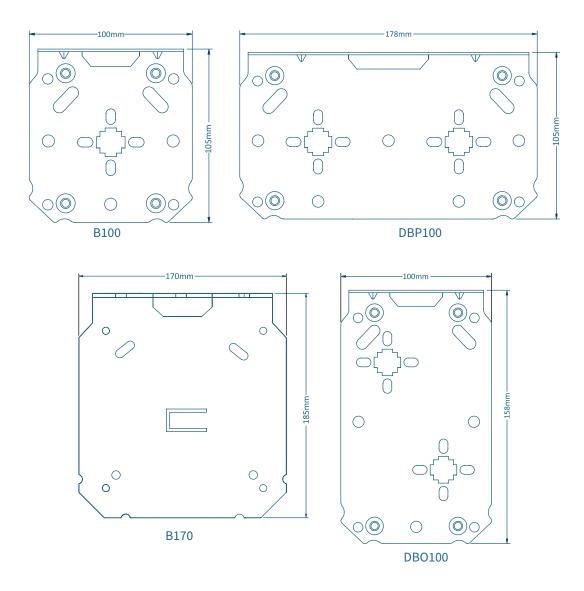
For all pockets standard or custom made, we offer enclosures made of extruded aluminum, to provide an aesthetical solution for your project, hiding the entire roller system visibility from below. All enclosures are sold separately.



Brackets

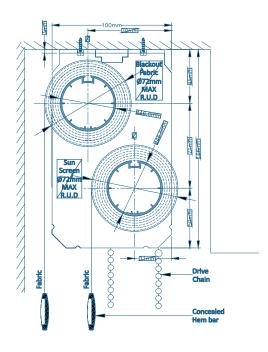
Each installation has it is own demands to the roller system selected and in order to accommodate all these differences Euro Systems has a wide range of standard brackets.

The B170 bracket is to be used for blinds with extra height (above 4 m) to ensure full capacity of the roll up diameter. The DBO100 and DBP100 brackets are for installation of double blinds (blackout and screen). The blackout blind will be with normal roll and the screen will be with inverse roll.



Salire[™] Double brackets

Double shade without fascia (ceiling fixing)



The Salire[™] roller blind series now includes an economical double blind system. It can accommodate any combination of:

- Two motorized shades.
- Two manual shades.
- One motorized and one manual shade.

The configuration is a blind system which provides a variety of light and heat control options. The versatile design allows two fabric bands on two individual tubes to be offset mounted on a single bracket with any combination of motorized or manual operation. The design eliminates the need for two separate brackets and reduces labor, installation time and cost.

The Salire[™] Double Bracket can darken a room with maximum privacy or allow views to the outside with solar protection by raising only the opaque fabric.

Features

- Fascia offered in captured square and continuous
- Full range of RAL colors.
- Suitable for home theaters, media and conference rooms and bedrooms.
- Cost effective.
- Aesthetically pleasing, strong brackets made of metal

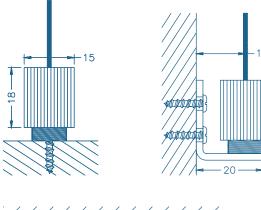
Guide wires

When a roller blind exceeds a width to height ratio of 1:6 Euro Systems provides the blinds with a guide wire to ensure correct guidance of the fabric in safe distance from window and mullions.

The guide wire solution is also used when windows are inclined up to an angle of 15 degrees to ensure correct protection against solar transmission on the entire window surface.

Guide wires can also be used on exterior blinds, but recommended is to use a zipper channel for the exterior blinds.

The standard bracket for Salire[™] and Serena[®] blinds are pre-equipped with fitting option for the guide wire solution hence the guide wire can also be added afterwards if needed without any change of existing blinds with exposed hem bar.

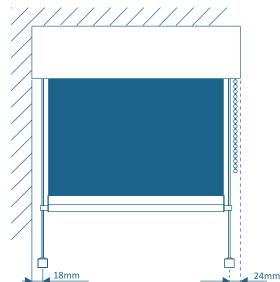


The foot for guide wire can be installed in different ways as per site conditions directly to the sill, on the recess or directly to the wall. The images show the different installation methods for the foot for guide wire. 0

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The guide wire is made of SS which should be PVC coated and 1,5 mm in diameter for interior blinds. For monumental shades like Serena[®] 170 the guide wire is 8 mm in thickness and without coating. For exterior blinds the SS guide wire has to be minimum 3 mm in diameter.

Guide wire can be used for the manual Salire[™] roller system as well as for motorized Serena[®] roller systems. Due to the guide wire installation the light gap will slightly increase to ensure free movement of the fabric along the wire. Furthermore with a guide wire solution the hem bar will be exposed to accommodate the special end caps needed for this solution.



Euro Systems AV system or room darkening

A true blackout window treatment blocks 100% of exterior light and is most often used for rooms such as nurseries, bedrooms, photographer's dark rooms, and movie/media rooms. While many blinds and window treatments tout themselves as blackout, the term is frequently misused in place of room darkening shades because there is still a "halo" of light around the edges of the window treatment.

The AV or room darkening blind consists of Salire™ or Serena® blinds in an integrated schedule of:

- Blackout fabric
- Room darkening zipper and sill channels
- Light sealing hem bar
- Pockets/recessed mountings/fascia
- Optional double blind brackets allowing blackout and screen blinds on one compact bracket

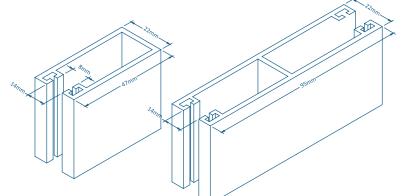
With the zipper channel mounted all natural light will be blocked from entering the room without any "halo" around the window. For AV or room darkening requirements Euro Systems recommends using a blackout fabric from our wide range of fabrics. A blackout fabric ensures no light transmission into the room, providing excellent conditions for video conferences, use of projector or a good night's sleep.



Side channel

The standard side channel is made of extruded aluminum and standard colour is white, but can be powder coated in any colour according to the RAL colour scheme.

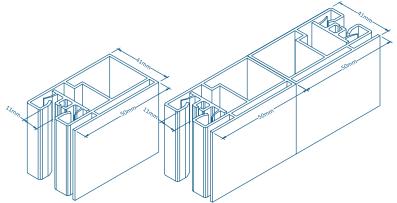
Single channel is used for control and idle end on single blinds, the dimension is 22 mm x 47 mm. Double channels are used for centre bracket with multiple- and/or multi-banded blinds, the dimension are 22 mm x 95 mm.



Zipper channel

The zipper channel is a three piece channel made of extruded aluminum. The single side channel is 36 mm x 60 mm. The double center channel is 36 mm x 120 mm. The zipper is welded onto the fabric ensuring low movement and no light penetration when combined with a blackout fabric.

The zipper ribbon is securely held in a shaped aluminum side channel which allows the blind to run freely and quietly but prevents the fabric from being pulled out of the channel. The zipper side channels are providing high wind resistance due to the welded zip that keeps the fabric firmly inside the side channels along the whole length of the blind. The zipper blinds can be installed on vertical windows, sloping windows, tilting windows, sky lights and atria.



Brush

To ensure less back light on the blind, brushes can be installed inside the side channel on both sides of the fabric.

Installations methods

Side guides and zipper channel are normally fixed directly to the mullions or window frame to ensure complete blackout or minimizing the light gaps.

There is two kinds of installations:

- Non-destructive installation (NDI)
- Standard installation



NDI

For the non-destructive installation of side guides and zipper channels Euro Systems offers two different options. The advantage of the NDI is that mullions, window frames and walls are not destructed in any way during the installation hence no visible damage and repair needed after the installation.

VHB™ Tapes

The optimal installation is done with a double gluing tape attached as small stripes on the backside of the side guide or zipper channel and then attached to the mullion or window frame. For use on painted walls it is recommended to do a test installation as the water content of wall and paint might influence the strength and durability of the bonding. For mounting on aluminum profiles the installation is extremely strong and durable.

3M[™] VHB[™] Adhesive Transfer Tape utilize the 3M[™] High Performance Acrylic Adhesive 100MP, which has excellent long term holding power with much higher adhesion strength than typical pressure sensitive adhesive systems. The 3M[™] VHB[™] Adhesive Transfer Tapes are transparent and are ideal for use in many interior and exterior industrial applications to replace rivets, spot welds, liquid adhesives and other permanent fasteners. With this installation no drilling of mullions or window frames is needed!

For the specification of NDI with VHB[™] tape please contact Euro Systems Engineering

Silicone

As an alternative to the adhesive tape silicone can be used to mount side guides and zipper channels to mullions, window frames and walls. This solution is very strong and durable. The installation method is not recommended to be used on glazing surfaces.

Down side for the silicone installation is the removal of installed side guides and zipper channels, as this procedure can damage the mullion and/or walls.

Standard installation

The single side or zipper channels can be fixed directly on the mullions with a single screw and cover cap. Alternative the single side channel can be fixed inside the window frame. The double side or zipper channel can only be fixed on the mullion/wall with screw and cover cap. The deficit of this installation is the drilling of wholes which will damage the mullions and windows frames, leaving visible marks if the product is removed. For drilling in mullions it is always required to get the approval of the building owner, which is the responsibility of the client, not Euro Systems.

Warranty Certificate



Introducing the 10 Year warranty for roller system

As we trust the quality of our components and craftsmanship for our manual roller systems (Interior use only), we give them 10 year warranty. Euro Systems warrants to original purchasers that the hardware is of dependable service and are free of manufacturing defects in materials and workmanship for a period of 10 years.

The warranty period is defined to be the period of the project for which the product was originally purchased, from the date of shipping. This warranty does not depreciate in value.

For full warranty details, please read the terms and conditions of our warranty.

Warranty terms and conditions of Euro Systems. (Interior use products)

Euro Systems (ES) warrants to original purchasers that its products are free of manufacturing defects in factory products or workmanship for the following specified warranty periods: Hardware (interior use):

- Ten year of the interior project for which it was originally purchased, from the date of shipment for the Salire™ 100 manual roller system and Serena® 100 motorized roller system

Controls, Electrical, Electronic accessories (interior use): - 2 years from date of shipment for Serena[®] products

Fabrics (interior use): As per project requirements

If any part of an ES product (except for images or artworks on fabrics) is found in the reasonable judgment of ES to be defective in factory materials or workmanship during the before prescribed warranty periods, ES will repair or replace the defective part at its option. Repair or replacement under this warranty does not include labour or costs for installation, reinstallation or removal of Euro Systems products, parts or components. This warranty extends only the original purchaser for ES products installed by ES.

This warranty does not apply if any of the following exclusions exist:

- The product has been subject to misuse, abuse, neglect, negligence, accident, or has been operated in any way contrary to the ES operating instructions or specifications.

- Damages or conditions that have resulted from improper cleaning, maintenance, care or repair of the product.

- The product has not been installed by ES technicians.

- The product has been used to perform functions or operated in a manner contrary to its design or otherwise is used in a manner contrary to or in excess of ES's specifications. Drawings or instructions.

- The product is used with electrical accessories or parts, including switches, relays or other accessory components that have not been previously approved in writing by the ES Engineering Department.

- If any electrical accessories and other components have been used in disregard to the basic wiring diagram for which they were designed.

- Failure to comply with ES's written instructions and specifications.

- Repairs made necessary from normal wear of the product or by use of parts or accessories which are either incompatible with the product or otherwise adversely affects its operation, performance or durability.

- Product used for non-interior applications or otherwise exposed to outdoor environmental conditions.

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