

COR VISION SLIDING SYSTEM



ENERGY EFFICIENCY

Thermal Transmission Coefficient $Uw \ge 1.3 (W/m^2K)$

Please consult typology, dimensions and glazing

ACCOUSTIC INSULATION

Maximum glazing: 30 mm

Maximum accoustic insulation: Rw = 41 dB

CATEGORIES ACHIEVED AT TEST CENTRE

Protection against atmospheric agents

Class 4 Air permeability (EN 12207): Class 7A Water tightness (EN 12208): Wind resistance (EN 12210): Class C5

Reference test: Balcony 1.23 x 1.55 m, 1 sash + 1 fixed

SECTIONS	Frame 116 mm Tri-rails 182 mm Sash 37 mm
PROFILE THICKNESS	Door 1.7 mm
MAXIMUM DIMENSIONS	Width (L) = 2.500 mm Height (H) = 3.000 mm
MAXIMUM WEIGHT/SASH	320 Kg
Please consult regarding n	naximum weight and dimensions according to types
	Optionally drainage system and

DRAINAGE Optionally drainage system drainage grid made of states.	
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EXTRUSION ALLOY

6063 T-5

POLYAMIDE STRIP LENGTH

Polyamide 6.6 reinforced with 25% fiberglass from 16 to 24 mm

OPENING POSSIBILITIES

Sliding

Possibility of 1, 2 or 3 rails Possibility of interior and exterior corner at 90° without mullion Galandage

FINISHES

Colour powder coating (RAL, mottled, rough...)

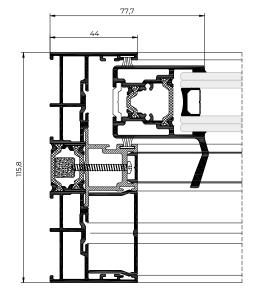
According to Qualicoat >60 micras

Wood effect powder coating

According to Qualideco standard

Anodized

According to Ewwa Euras Standard Class 15 Optionally Class 20 and 25 Optionally bicoloured







COR 70 HIDDEN SASH CC16



ENERGY EFFICIENCY

Thermal Transmission Coefficient U_w from 1.3 (W/m²K)

Please consult typology, dimensions and glazing.

ACCOUSTIC INSULATION

Maximum glazing: 35 mm.

Maximum accoustic insulation: Rw = 45 dB.

CATEGORIES ACHIEVED AT TEST CENTRE

Protection against atmospheric agents

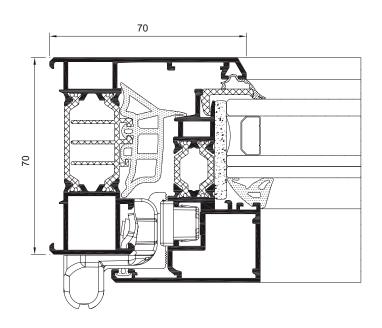
Air permeability (UNE-EN 12207:2000): Class 4
Water tightness (UNE-EN 12208:2000): Class E1500
Wind resistance (UNE-EN 12210:2000): Class C5

Reference test window 1.30 x 1.55 m. 1 Sash.

SECTIONS	Frame 70 mm Sash 69 mm
PROFILE THICKNESS	Window 1,5 mm
MAXIMUM DIMENSIONS	Width (L) = 1,600 mm Height (H) = 2,800 mm
MAXIMUM WEIGHT/SASH	150 Kg.
Please consult maximum o	dimensions according to types.
FINISHES	Colour powder coating (RAL, mottled, rough) According Qualicoat > 60 microns Wood effect powder coating According to Qualideco standard Anodized According to Ewwa Euras Standard Class 15 Optionally Class 20 and 25 Optionally bicoloured

EXTRUSION ALLOY							
6063 T-5							
POLYAMIDE	STRIP LENGTH						
	Polyamide 6.6 reinforced with 25% fiberglass : Frame 35 mm Sash 16 y 20 mm						
GASKETS							
EPDM triple	gasket						
FOAMS	FOAMS						
Perimeter polyolefin foam in glazing rebate zone							
OPENING POSIBILITIES							
INWARDS Side hung, turn&tilt, tilt and							

parallel-tilt.





ROLLER SHUTTERS technical brochure







enviroblinds external blinds & shutters the secret to low carbon comfort

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We are here to advise you from A - Z. Our team includes experts in building technology, sustainability and low energy design. Please contact us with your request or complete and



BENEFITS

ENERGY EFFICIENCY – Part L compliance

Enviroblinds external blinds are an effective passive measure to reduce the need for air conditioning and heating in a building. In winter, the foam filled slat and air buffer between the blind and the window will keep out the cold and lock in the heat. In summer the opposite applies, keeping out the solar heat so that you can enjoy a cool and comfortable environment.

EXTERNAL SHADING DEVICE

External shading is more effective than internal shading in preventing overheating. Enviroblinds external blinds prevent the solar radiation from reaching the window glazing and transferring the heat into the room.

ADJUSTABLE SHADING DEVICE

Enviroblinds external blinds are adjustable to allow you to use according to the weather and time of day. In winter raise the blinds to allow the solar heat to warm the room. In summer lower the blind to stop the solar heat from overheating the room. Less heating bills in winter and little or no cooling in summer! The height of the blind is fully adjustable and the slats that form the blind curtain are designed with optional perforations that allow natural light and ventilation into the room.

THERMAL INSULATION – improve window U-value

Enviroblinds external blinds provide a high performance shading solution with the added benefit of reducing heat loss in cold weather. When the insulated blind is closed at night, a trapped layer of air is created providing additional insulation. Existing window preformance is typically improved form U-value of 2.6 to 1.7 W/m²K (34%), new window U-value is improved from 1.8 to 1.3 W/m²K (27%).

SOUND INSULATION

Enviroblinds external blinds reduce noise levels coming from the outside to the inside of your building. Essential for busy streets and city living.

VISUAL COMFORT

Our blinds reduce glare from direct sunlight and can black out the room in a fully closed position. Great for good quality sleep or for viewing TV and computer screens without glare.

SECURITY AND PRIVACY

By providing protection to the window and concealing the view of the room, Enviroblinds external roller blinds are a valuable deterrent to burglary and vandalism. Enviroblinds external shutters made from extruded aluminium with a unique inter locking system are specifically designed for high security applications.

LIFE CYCLE PERFORMANCE

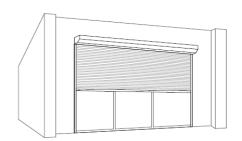
Enviroblinds external blind can compensate for its embodied greenhouse gas emissions within 6 months of operation. The blind is mainly formed of aluminium that is 100% recyclable at the end of the blind life cycle.



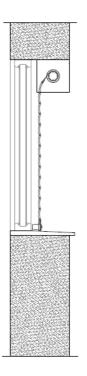
BUILT ON EXTERNAL BLINDS & SHUTTERS

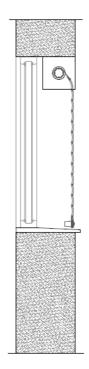
Enviroblinds built on external blinds and shutters are ideal for retrofit installations. The blind case is located on the outside of the building allowing improvement of existing windows or doors with minimum disturbance.

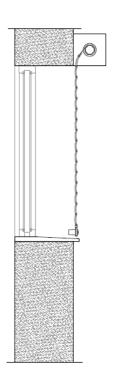
The built on external blinds improve the thermal performance of existing windows and doors by up to 44% depending on the existing specification. Typical existing window U-value improvement is from 2.6 to $1.7~\text{W/m}^2\text{K}$.



Enviroblinds built on blinds are very adaptable and versatile. They can be mounted on almost any existing substrate as external face fix or reveal fix. The blinds coil with the concave side facing the casing axle. The fixing position of the blind casing determines the visible external face of the slats; convex or concave.







REVEAL FIX CONCAVE

Built on blind with reveal fix case head detail, reveal fix side guides, concave slat face towards outside.

REVEAL FIX CONVEX

Built on blind with reveal fix case head detail, reveal fix side guides, convex slat face towards outside.

WALL FIX CONCAVE

Built on blind with wall fix case head detail, face fix side guides, concave slat face towards outside.

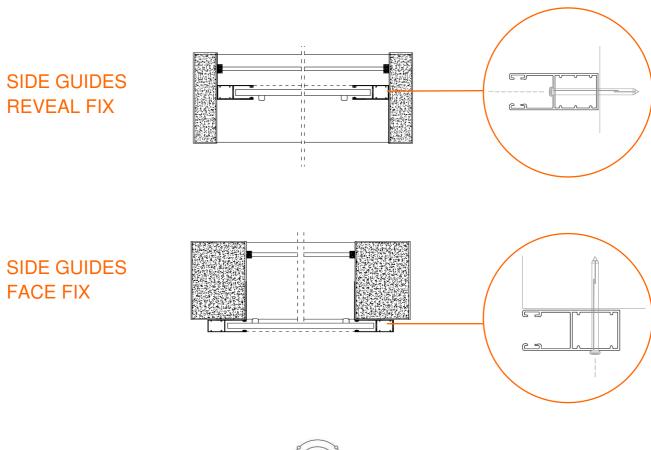


BUILT ON EXTERNAL BLINDS & SHUTTERS

Enviroblinds casing boxes which house the blind curtain, are available in three different design: 90° angle, 45° angle and curved. Boxes are made of roll formed aluminium and can be colour matched with the blind curtain and side guides to stylise and enhance the window.



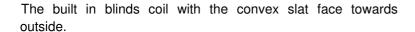
The side guides that support the slats are available as reveal fix or face fix and are made of extruded aluminium.

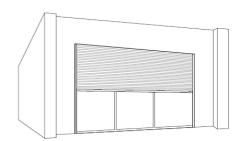


BUILT IN EXTERNAL BLINDS & SHUTTERS

Enviroblinds built in external blinds and shutters are designed for new build or replacement of the whole window system. The blind casing is located above the window and can be concealed into the wall or even exposed in matching colours to the blind curtain and window frame to stylise and enhance the window.

The built on external blinds improve the thermal performance of new windows and doors by up to 35% depending on the proposed specification. Typical window U-value improvement is from 1.9 to $1.3~\text{W/m}^2\text{K}$.

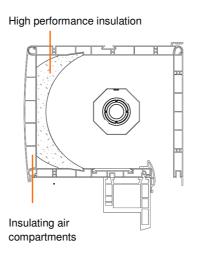


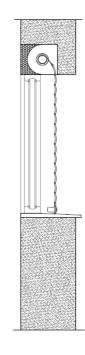


ROLLER CASING

Enviroblinds built in casing includes high performance polyurethane insulation and insulating air compartments, achieving a U-value of 1.8 W/m²K and acoustic insulation of 30dBA. The casing provides a thermal bridge break and water seals the internal components.

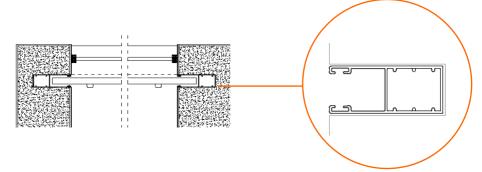
The removable back panel allows access to blind casing form inside the room.





SIDE GUIDES

Enviroblinds side guides are concealed within the wall or combined with the window frame.





SLATS

Enviroblinds external blinds are made from insulated foam filled slats and are designed to conserve energy, reduce utility bills and improve your privacy and environmental comfort. Enviroblinds external shutters are made from extruded aluminium for maximum strength and do not include the insulation, these slats are primarily for security applications.

INSULATING BLIND SLATS

Enviroblinds external roller blinds are made from aluminium double skin slats with polyurethane insulation. We also offer a high density polyurethane slat which increases the overall strength of the blind and protection to the window. Locking devices for the bottom slat are available to deter intruders from lifting the blinds.

The U-value is a measurement of heat transfer through a building element, the lower the value, the better the thermal performance. Insulated external blinds reduce the heat transfer through the window system and improve the system U-value.

- Single glazing improvement 20-44%
- Double glazing improvement 16-35%
- Triple glazing improvement 7-17%



Typical U-value improvement

Window	Window + blind

 $U 2.6 \text{ W/m}^2\text{K} \implies U 1.8 \text{ W/m}^2\text{K}$

U 1.9 W/m 2 K \longrightarrow U 1.3 W/m 2 K

SECURITY SHUTTER SLATS

Enviroblinds external roller shutters are made from extruded aluminium double skin slat with a patented inter locking system for added security. Choose either a solid slat curtain or a selection of different size cut outs in the slat curtain for light and viewing. Great for retail and other commercial applications.





Our blinds and shutters feature a bottom slat made form extruded aluminium for extra strength and a weatherproof seal. Special side caps are provided to prevent the slats from sliding together.



SLATS

SLAT DIMENSIONS

1											
C B	EB30	EB39	EB39-x	EB41	EB41-d	EB45	EB45-s	EB55	EB55-x	EB77	EB90-x
Slat thickness (A) (mm)	8.2	8.3	10	8.7	8.7	9	8.9	14	13.5	20	18
Covering height (B) (mm)	32.6	39	38	41	41	45	45	53	55	77	90
Total height (C) (mm)	39.5	44	45	48.4	48.4	50	51	61	63	84	101.2
Maximum width (mm)	3000	2500	4000	4000	4000	2900	2800	3200	4500	5000	6000
Maximum wind load width (mm)*	2600	2375	4000	3400	3400	2400	2470	3200	4500	5000	6000
Maximum height (mm)	3000	2500	3000	3000	3000	2600	2375	2800	3500	3500	5000
Maximum area (m²)	6	6.25	9	8	8	7.5	8	8.9	15.75	17.5	30
R _{SH} (m ² .K/W)**	0.003	0.004	-	0.003	0.003	0.002	0.004	0.003	-	0.003	-
ΔR (m ² .K/W)***	0.14	0.11	-	0.14	0.14	0.11	0.17	0.14	-	0.14	-

Recommended maximum width for sites with high wind load Thermal resistance of the insulated slat curtain



Additional thermal resistance of the air gap and closed blind

SLATS

ROLLED BLIND / SHUTTER CURTAIN DIAMETER

	30		39		EB39-x	41		FB41-d) -	FB45)	EB45-s		FB55	8		EB55-x			77		EB90-x	
	FB30	ì	FB39)	EB	FB41)	FB)	FB	ì	FB		FB)		EB			EB77		FB	
					1						Axle	diam	eter	1	1								
Curtain height	Ø40	09Ø	Ø40	09Ø	09Ø	Ø40	09Ø	Ø40	09Ø	Ø40	09Ø	Ø40	09Ø	09Ø	Ø70	Ø80	Ø100	Ø133	Ø100	Ø133	Ø220	Ø133	Ø170
800mm	-	-	105	110	120	-	-	-	-	100	120	125	130	-	-	-	-	-	200	225	280	-	-
1000mm	120	118	112	120	125	138	134	138	134	120	130	135	150	170	175	175	185	195	250	230	285	215	255
1200mm	120	132	123	125	130	140	146	140	146	130	140	145	160	175	180	-	-	-	230	245	295	-	-
1400mm	134	134	130	135	140	154	150	154	150	135	145	155	170	185	190	190	200	205	235	250	300	240	265
1600mm	144	144	138	143	145	156	160	156	160	145	155	170	175	195	200	-	-	-	245	255	310	-	-
1800mm	146	152	145	150	155	170	162	170	162	150	160	180	185	205	210	205	215	225	260	275	315	255	285
2000mm	158	156	150	155	165	170	172	170	172	160	165	185	195	215	220	-	-	-	265	280	325	-	-
2200mm	158	162	150	160	170	176	176	176	176	165	170	195	200	220	250	225	230	235	280	290	330	270	300
2400mm	170	170	160	165	180	186	178	186	178	170	175	200	210	230	235	-	-	-	285	295	335	-	-
2600mm	172	170	165	170	185	186	192	186	192	-	-	-	-	235	240	240	245	250	295	305	345	285	315
2800mm	172	184	_	-	-	200	192	200	192	-	-	-	-	240	250	-	-	-	300	310	350	-	-
3000mm	186	184	-	-	-	200	200	200	200	-	-	-	-	250	260	250	260	270	310	320	360	305	330
3400mm	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	270	280	285	-	-	-	315	345
3800mm	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	280	290	295	_	-	-	330	360
4200mm	-	-	-	-	-	-	-	-	-	-	-	-	ı	-	-	295	305	310	-	ı	-	345	377
4600mm	-	-	-	-	-	-	-	-	-	-	=	=	=	-	-	315	320	325	-	=	=	350	380
5000mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	330	340	345	-	-	-	375	395



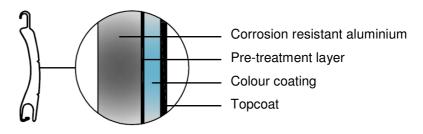
COLOURS

Enviroblinds slats and other visible aluminium components are coated with durable triple lacquered paint coating. We offer 12 standard RAL colours and a selection of imitation wood finishes. There is even a choice of a textured coating which is a popular scratch resistant and self-cleaning finish as it sheds water and dirt. In most cases the roller shutters can be perfectly matched to your door and window frames to enhance the aesthetics of your building.

We can offer the full range of RAL colours as an option.



Triple lacquered paint coating to ECCA Standard T1







Light wood



RAL5011

Steel blue











Fir green





Black grey







Grey aluminium





Bronze





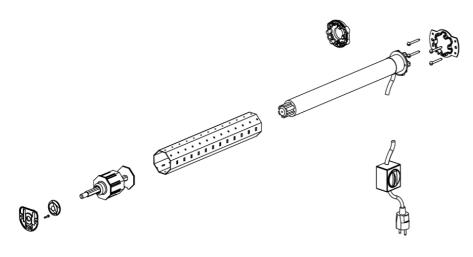
RAL9016 Traffic white

Printed colours may not be truly representative.



SYSTEMS - operation

All Enviroblinds external blinds and shutters can be operated with a motorised or manual system, or both for emergency manual operation.



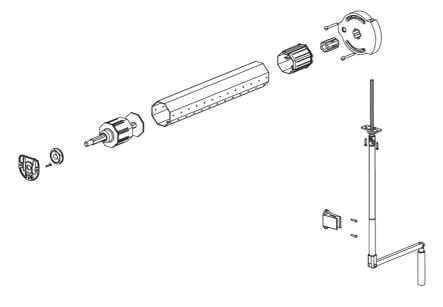
MOTORISED OPERATION

We recommend the motorised option for ease of use. You can even connect it to your home or office automation systems. A motor with operation via remote control can be programmed to open and close the blinds individually or collectively at the touch of a button. Alternatively the motor can be wired to a switch on the wall that can be used with a time switch.

A blind up to 5m²/50kg typically draws 1.1A/240W.

A blind up to $10m^2/100kg$ typically draws 1.5A/320W.

Programming blinds and shutters to open and close at different times of the day, is ideal for making it appear that your home or office is occupied, giving you extra peace of mind.



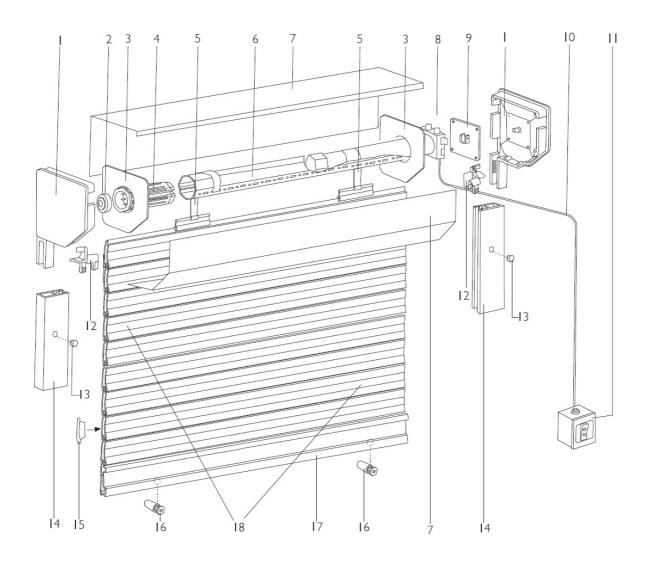
MANUAL OPERATION

Raise and lower your blind with a foldable crank which is easy to use and requires little physical effort. After use, the crank can be straightened, replaced and secured in the bracket supplied for the adjacent wall.



SYSTEMS – components

MANUAL BUILT ON BLIND



- 1) Roller casing end section
- 2) Bearing
- 3) Inside casing cap
- 4) Telescopic shaft for axle
- 5) Fixing strap
- 6) Octagonal axle
- 7) Roller casing lid 45° angle
- 8) Motor
- 9) Motor bracket

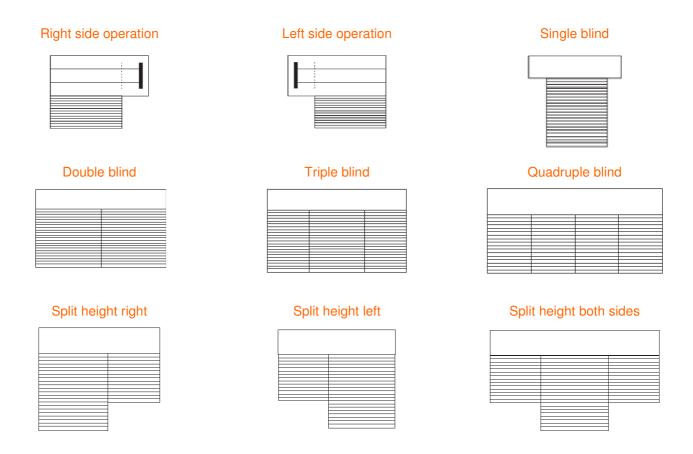
- 10) Cable
- 11) Switch
- 12) PVC lug connector
- 13) Screw caps
- 14) Side guide
- 15) Slat side cap
- 16) Blind stops
- 17) End slat
- 18) Slat curtain



SYSTEMS – installations & side guides

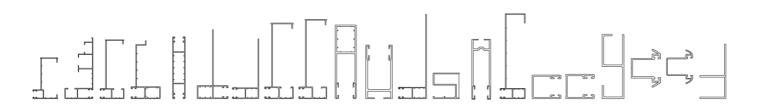
INSTALLATIONS

Enviroblinds offer installation configurations to suit most window and door arrangements. The systems can be operated on left or right side and the units are split to cover multiple or wider openings.



SIDE GUIDES

Side guides are an important part of all blinds and there are guide rails to suit all installation options. Guide rails are made of thick extruded aluminium and can be colour matched to the blind curtain. Depending on the application guide rails are installed as reveal fix, face fix or concealed fix.





QUALITY

TECHNICAL SUPPORT

We pride ourselves on the quality of our service and products. Our team of specialist technical advisors are always at hand to guide you from your initial enquiry through to delivery, installation and after sales care. We can even calculate the energy saving benefits for your project using bespoke IES VE dynamic thermal simulations.

GUARANTEE

Using state of the art technology, all Enviroblinds external blinds and shutters are proudly manufactured in the European Union and are guaranteed for 5 years against defective material or workmanship subject to correct installation and operation.*

EASY MAINTENANCE

Enviroblinds external blinds and shutters are easy to clean with a damp cloth. Opt for textured coating for a self-cleaning and scratch resistant blind. Regular cleaning is required in coastal areas.

CONTACT

Please feel free to contact us, we are happy to help!



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^{*} This guarantee is not valid for installations within 1 mile of the coastline.

SPECIFICATION DATA – VR150 ROLLER SHUTTER



External insulated roller shutters to reduce solar gain; suitable

for retrofit/new build projects where maintenance access is required from the front of the box. Ideally suited for inward opening, lifting, and sliding windows and doors.



The VR150 insulated aluminium roller shutters retract into a box above the glazing and is pin mounted onto side guides. The box is made from stripped, profiled, and folded aluminium and the side guides and end rail from extruded aluminium, all of which can be RAL colour matched to the window frame or façade. The blind curtain is comprised of foam filled laths with a choice of light and ventilation slots.

FEATURES AND BENEFITS

- Improves energy performance
- Acoustic insulation
- Protects the window
- Suitable for installation inside and outside the reveal
- Manual and motorised operation
- Option for slats with light or total blackout fabric
- Option for integrated insect screen
- Window size (maximum) 11m2 consult supplier for specific dimensions

GENERAL INFORMATION

Uniclass	Pr_30_59_84_73
CAWS	L20/610 Roller shutters/curtains L10/680 Solar shading system N10/240 Blinds L10/59 Solar shading system
Product range	Sun Protection Screen/Vertical

Product Reference	VR150
Shutter curtain	
Lath material	Option of 35mm, 39mm and 42mm slats made from double walled, foam-insulated aluminium.
	Light and ventilation slot options: -Without light (code 0) -1/3 light (code 1) -1/2 light (code 2) -2/3 light (code 3) -1/1 light (code 4) with 7 solid slats at the top and remainder with light and ventilation slots.
Finish and colour	Polyester power coated and colours available in all slat sizes:
	Traffic white - RAL 9016 White - RAL 9010 Bright grey: RAL 7038 Brown - RAL 9014 Alu Metallic - RAL 9006 Light beige — code A11 Cream white — RAL 9001 Aluminium grey — RAL 9007 Light grey — RAL 7035 Anthracite grey — RAL 7016 Golden oak — Code A83
Frames & guides	More colours available depending on choice of lath
Traines & guides	Headbox The box (square, bevelled or rounded) is made of strip, profiled, and folded aluminium, powder-coated, and RAL colour matched. The box dimensions are 137 x 137, 150 x 150, 165 x 165, 180 x 180, 205 x 205, 230 x 230 mm (based on the rolled-up size of the slat curtain). Option for bevelled box in extruded aluminium Side guides
	53 x 22mm or 45 x 22mm side de guides as standard in extruded aluminium, power-coated and RAL colour matched.
	Bottom slat The bottom lath is made of extruded aluminium with rubber seal, comes in the same colour as the box.
Operation	The operating side is always stated as viewed from the inside. Choice of operating exits at top, back, bottom and front of box.
	Manual: Crank handle operation Motorised

	Electric: Operation consists of a built-in, asynchronous tubular motor with adjustment buttons for determining the up and down position.
Wind resistance	Class 2
Product Options	Wired in motors, solar powered motors, integrated insect screens, options for enhanced security

PLEASE CONSULT US FOR ADVICE – <u>info@enviroblinds.co.uk</u> or + 44 (0) 1273 689151