External Venetian Blinds

HunterDouglas® External Venetian Blinds enhance **natural daylighting**, reduce glare and regulate thermal gain to **ensure comfort** and **increased productivity**. The blinds can be raised and lowered depending on weather conditions and their tilt angle can be regulated to keep direct sunlight out and let natural daylight in creating **complete user flexibility**.

HunterDouglas

WINDOW COVERINGS

HunterDouglas

Technical Information Catalogue

External Venetian Blind Systems

English Version 2.0

External Venetian Blinds

Complete Flexibility

EFFECTIVE AND FLEXIBLE

The Venetian Blind is possibly the quintessential solar blind. It can be lowered and raised while the slats can be tilted for optimal visual conditions: that is total flexibility. As an external application it is sturdy yet discrete and one of the most effective methods of solar shading.

Available in a range of slat widths and an endless variety of colours, it can add to the building aesthetics without overpowering it.

PROVIDING COMFORT

HunterDouglas® External Venetian Blinds enhance natural daylighting, reduce glare and regulate thermal gain to ensure comfort and increased productivity. The blinds can be raised and lowered depending on weather conditions and their tilt angle can be regulated to keep direct sunlight out and let natural daylight in.

By keeping out direct sunlight external blinds can keep out 90% of total solar radiation on the window, contributing to comfortable working conditions and considerably reducing cooling loads.

CONTENT

ENERGY & LIGHT

HunterDouglas® External Venetian Blinds are designed to improve indoor environmental quality and conserve energy. These systems help create built environments that are comfortable, healthy, productive, and sustainable. Our engineering and production processes minimise embodied environmental impact while meeting the highest standards for commercial, hospitality, industrial, institutional, and commercial applications. In order to obtain the optimal shading performance for a building and its occupants our project support team can analyse, visualise and optimise window covering solutions for specific project solutions.

Innovative Products Make Innovative Projects

alu

HunterDouglas

Effective and flexible, the HunterDouglas® External Venetian Blinds offer a choice of slat types and colours mounted in durable, powerful operating systems. They are a versatile and reliable choice to control light and heat in a wide range of manual and motorised applications.

External Venetian Blinds

FEATURES

- Heavy duty operating mechanisms
- Side guides, lift tapes and ladders designed to prevent vibration due to wind
- Choice of cable guiding or various aluminium side guiding channels
- Head rail fixed to ceiling or supported by side guiding channels
- Choice of manual crank operation or motorised operation
- Slats widths: 50, 60, 80, 88 and 100 mm
- Flexible slat types for compact stacking, beaded slat types for strength and rigidity
- Wide standard colour range, any colour available on request
- Optional perforation: to maintain exterior views even when blinds are fully closed (please note: advised for non-corrosive environments only)
- Optional lowering at 40° slat angle (normal lowering in closed position)
- Optional SlowMotion motor for more accurate tilting to exact angles
- Dual Light Control option: upper and lower blind sections at different angles
- Quick raise option for emergency exit situations
- Optional reinforcements for extra wind stability.

Sustainable Comfort

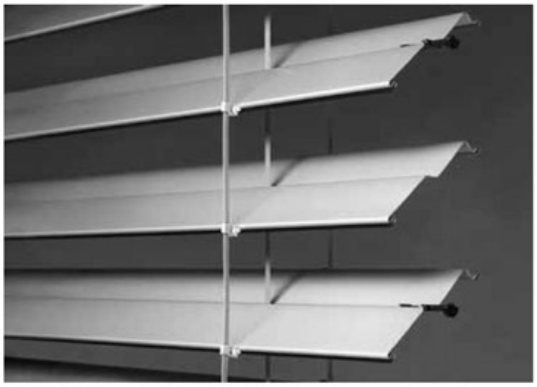
HunterDouglas® External Venetian Blinds contribute to sustainable comfort in many ways:

- High performance sun control system
- Optimal light control with individual operation
- Retractable for outward view and natural daylighting when shading is not required
- Reduce solar heat gain by 90% - creating considerable energy savings in cooling
- Use solar heat in winter - creating energy savings in heating
- Tilt slats to balance shading, daylighting and outward view
- Reduce glare on screens and workspaces
- Automated options for optimised comfort and energy savings
- Recycled content rate of 92% for HD5050 alloy

Materials

SLATS

- All slats are pre-coated with Anorcoat® conversion coating system
- Colour coated with stove enameled polyester paint with painted edges in the length of the slats
- 50F mm rollformed aluminium slats, thickness 0.2 mm, alloy EN AW-5182
- 60 / 60F mm rollformed aluminium slats, thickness 0.45 mm / 0.4 mm, alloy HD5050
- 80 / 80F mm rollformed aluminium slats, thickness 0.4 mm, alloy HD5050
- 88 mm rollformed aluminium slats, thickness 0.45 mm, alloy HD5050
- 100F mm rollformed aluminium slats, thickness 0.4 mm, alloy HD5050
- Optional Luxacote® colour coating with stove enameled polyurethane paint
- Optional alloy AA3005 with Luxacote® colour coating (not for 50F slat) for more corrosive environments



LADDER CORDS

- Ladder cords for 50F slats consist of UV and weather resistant high tenacity polyester material (colour: grey and black).
- Ladder cords for 60(F), 80(F) and 100mm slats consist of UV and weather resistant Aramid-reinforced high tenacity polyester material (colour: black).
- Ladder cords (ball tapes) for 88mm slats consist of UV and weather resistant high tenacity polyester material (colour: grey). Slats individually connected to the tape by special clips in the bead of the slat (colour grey).

LIFT TAPE

- Made of durable UV and weather resistant pre-shrunk polyester (6 x 0.28 mm, colour gray and black).
- Alternative: 88 KV-ELV types with integrated lift tape made of durable UV and weather resistant plastic (dymetrol), 15.2 x 1.27 mm (colour: black).

Product selection

Choosing the right system for the application means making a series of system choices. Depending on the project situation certain features may become a priority; in most cases the following steps can be followed.

SLAT TYPE

A slat type is normally selected on aesthetics, system width and available installation space. Available system depth on the façade (inside window, between window and façade) will determine maximum slat width. Necessary stacking space above the window may be reduced by choosing a compact flexible slat type but this will also reduce the maximum system width.

SIDE GUIDING

External Venetian Blinds are available with various options in side guiding, from discrete cable guiding via the slim standard aluminium side channels to the more sturdy aluminium side channels that need less fixing points and can also support the weight of the head rail if required.

OPERATION SYSTEM

All External Venetian Blind systems can be operated manually with a crank or with a motor. Crank operation requires an open connection for the crank rod through the façade. Motorised systems use a 230V IP54 (splash proof) motor that is placed inside the head rail. Both operation options can be used to control a group of coupled systems; in this case motor operation will allow the largest total system surface. Motorised systems allow automated or centralised controls and wind protection.

SYSTEM DIMENSIONS

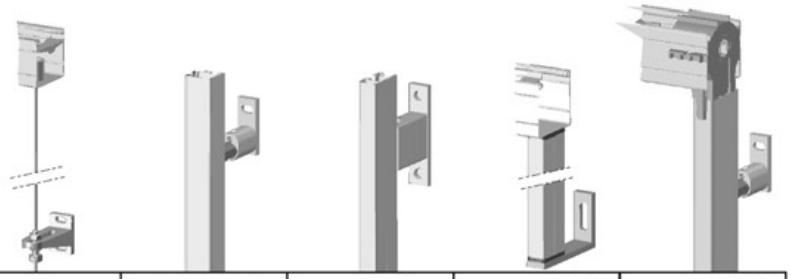
Maximum system width and height are limited by the combination of slat type, side guiding, operation type and potential group installation. A system type can be selected on functional and aesthetical requirements and must then be checked for maximum system dimensions.

ACCESSORIES

Based on the installation situation at hand and dependent on the selected system type, the suitable bracket types and possibly pelmets can be chosen and added to the order.

COLOUR

Dependent on the selected slat type there is a choice of standard available colours. Please refer to colour swatch. Any slat colour is available on request. Bottom rail and side channels can be silver anodised or powder coated to match the slats with proviso for a slight colour deviation.

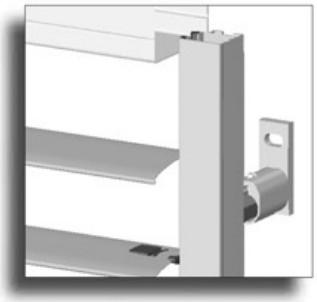


		system A	system AS	system ASK	system ASS	system V88AS
BRACKETS	(re)adjustable brackets	x	x			x
	larger distance possible to the wall			x		
	mounting with 1 bracket (at the bottom)	x			x	
	mounting on the wall	x	x	x	x	x
	mounting on the side		x			
	mounting at the bottom	x				
	less brackets per height			x		
CHANNELS	applicable for small mounting spaces (narrow window frame)			x	x	
	small light gap			x	x	
	possible mounting 'free hanging blind'			x		
	two-sided channel for coupled blinds		x	x	x	
	round channels possible (design)			x	x	
	no lift tapes visible					x
	no holes in the slats					x

Side guiding options

TYPE A: CABLE GUIDING

- Stainless steel cable ø3 mm with transparent nylon jacket
- Visually discrete
- Requires tensioning point at bottom of system but no fixings along the sides



TYPE AS: STANDARD SIDE CHANNEL GUIDING

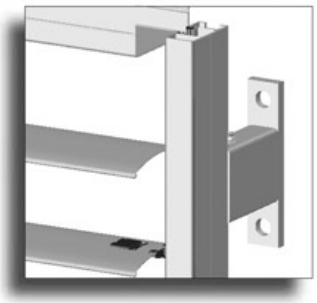
- Slim aluminium extruded side channels
- Simple adjustable wall brackets
- Side channels fixed to side or back
- Double sided channel for adjacent systems
- Head rail fixed to ceiling

TYPE ASC: "CLICK" SIDE CHANNEL GUIDING

- Head rail pre-assembled including pelmet
- Mounted as complete pre-installed system via clip-on side guiding channels
- Click brackets can be pre-fitted to façade mullion profiles for quick installation on site
- Reduced light gap between side channel and slats
- No light gap between side channel and façade
- Available for 60 and 80 mm slats (flexible or beaded) and for 88 mm slat
- Motorised operation only

TYPE ASS: PUSH-ON SIDE CHANNEL GUIDING

- Heavy duty side channels, square with slim front appearance or round
- Side channels to a height of 1800 mm fixed between head rail and bottom bracket
- Reduced light gap between side channel and slats
- Quick installation, reduced drilling in façade



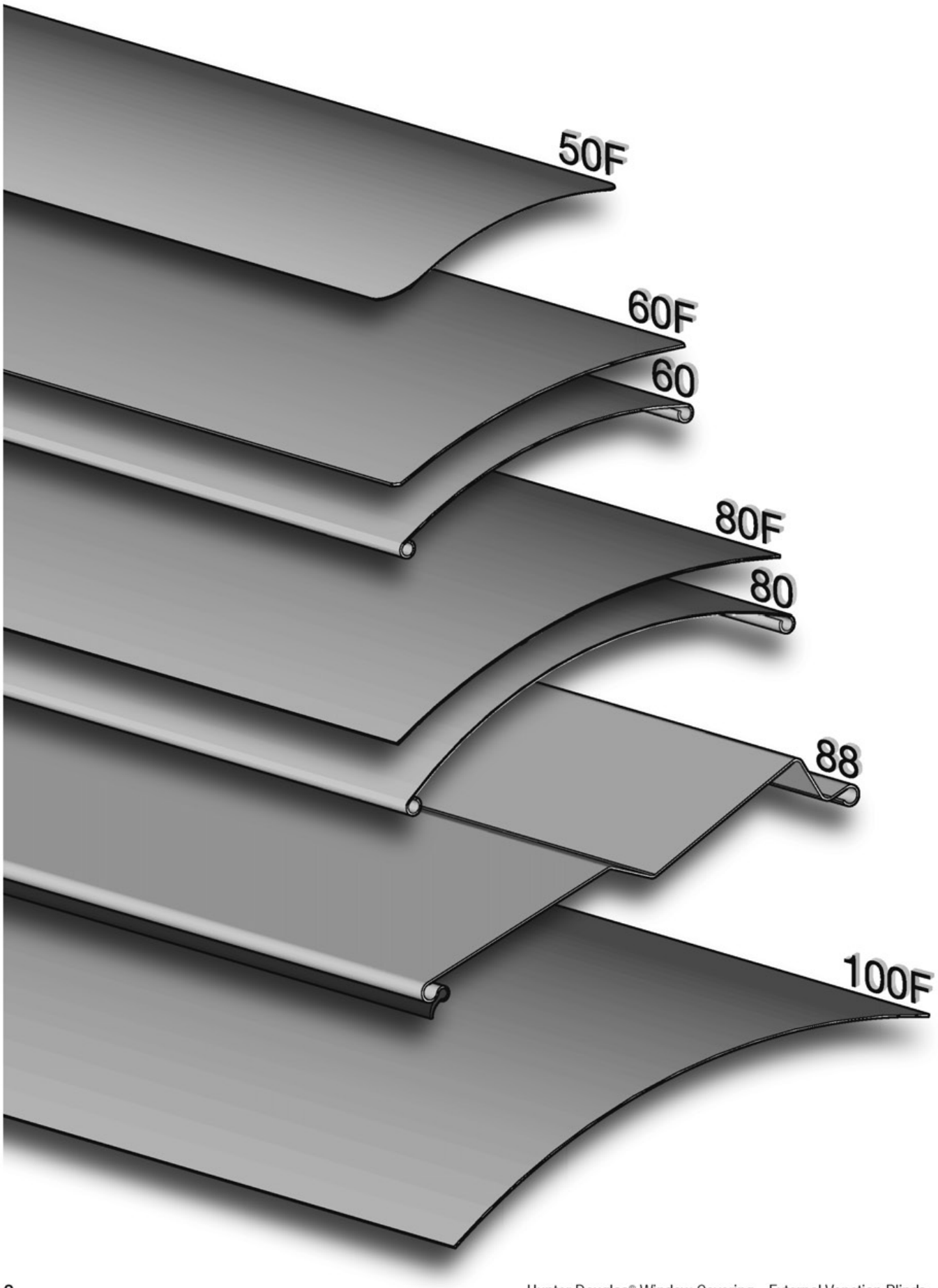
TYPE ASK: CLAMP-ON SIDE CHANNEL GUIDING

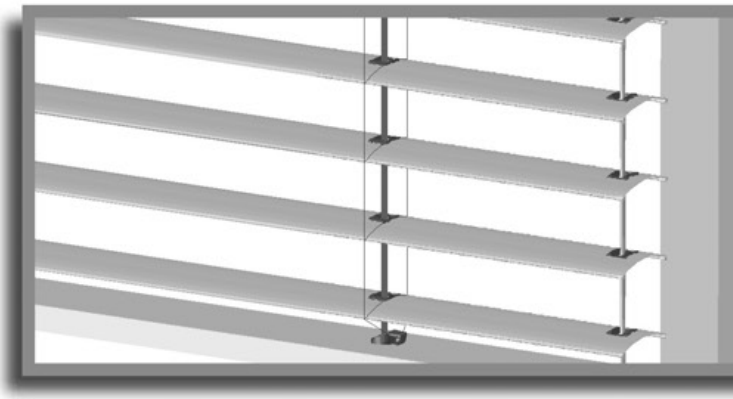
- Heavy duty side channels, square with slim front appearance or round
- Brackets with clamp-on connection, suitable for fixation on threaded rods in façade mullions
- Heavy duty brackets with clamp-on connection
- Head box can be supported by side channels up to width of 2500 mm (option)
- Reduced light gap between side channel and slats
- Larger distance from façade (up to 500mm) possible

TYPE V-AS: INTEGRATED LIFT TAPE GUIDING

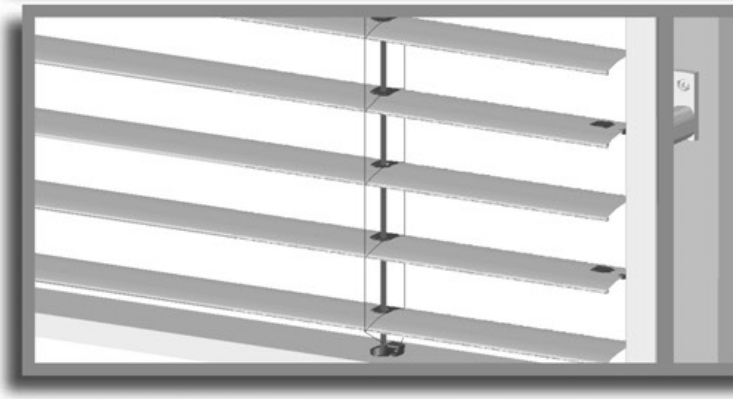
- 88 mm slat only
- Crank or motor operation
- Lift tape integrated in side channel
- No lift tape holes in slats; improved privacy and obscuration
- Bottom rail secured against lifting by wind or hand

Type overview

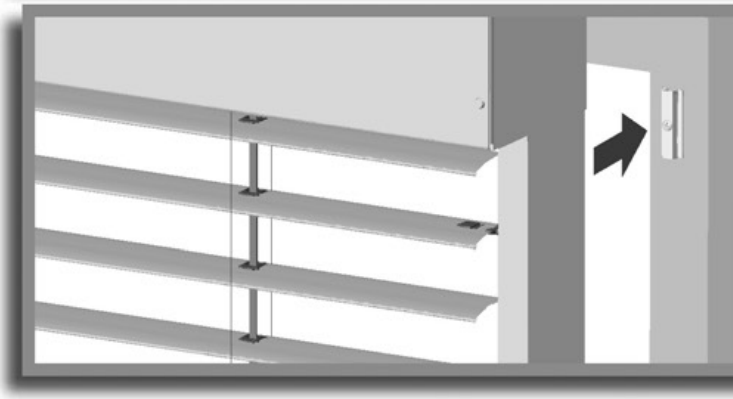




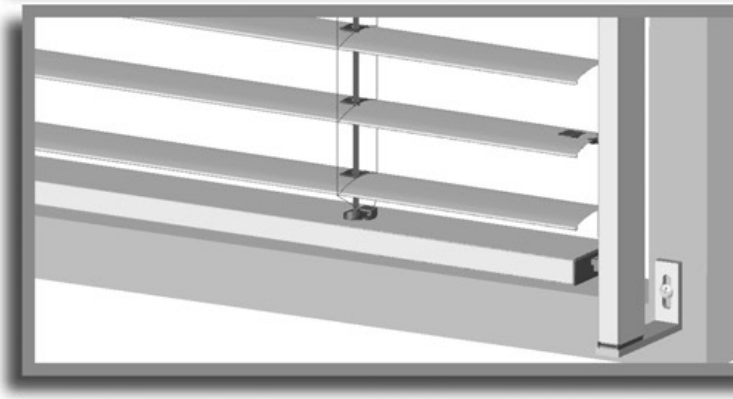
Cable guiding



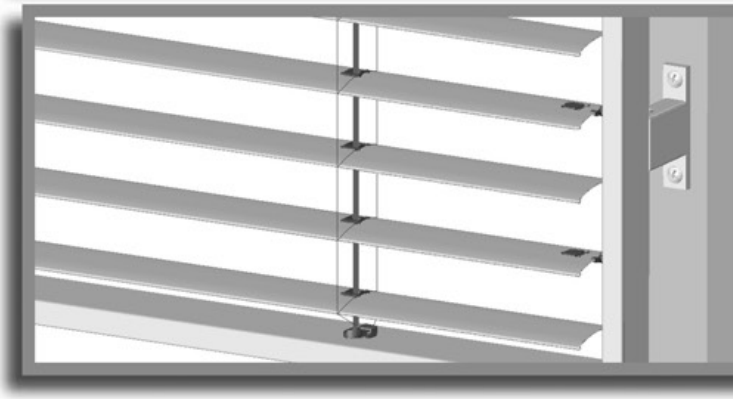
Standard side guiding channels



Click



Push on side guiding channel

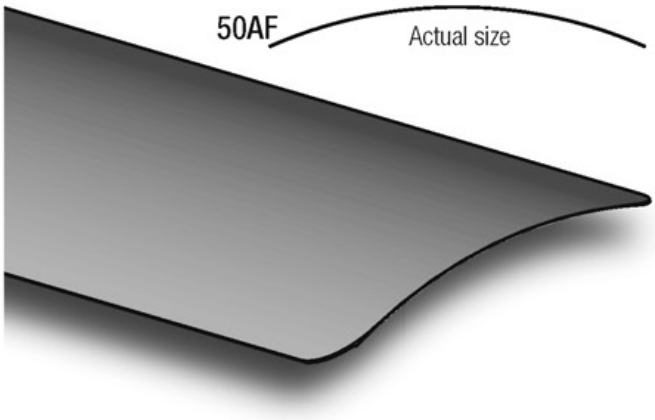


Channel with clamping brackets

EVB EL50AF

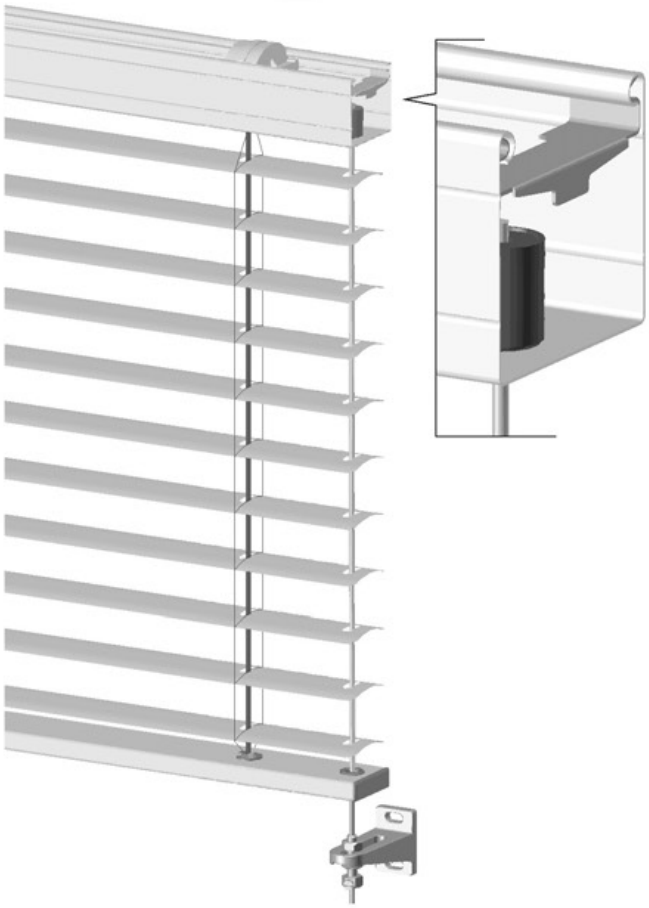
MOTOR OPERATED EXTERNAL VENETIAN BLIND
50 MM SLATS WITH SIDE GUIDING CABLES

EL50AF: flexible 50 mm slats



Description

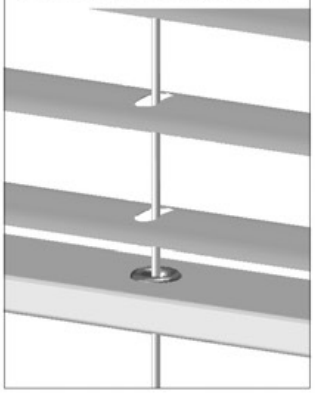
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats closed
- Roll formed coil coated flexible slats 50 mm of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 50 x 15 mm
- Tensioned stainless steel cable Ø 3 mm with transparent nylon jacket
- Black bottom rail end caps, lift tape and polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



CABLE SIDE GUIDING

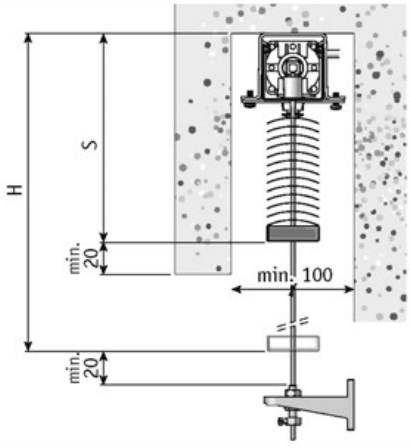
INTERMEDIATE GUIDING

For blind widths over 2.5 m.



GUIDE CABLE BRACKET

SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 50 AF	51	400	400	16
Group	EL 50 AF		800	400	20

STACKING HEIGHT (MM) (intermediate blind heights on page 77

Blind height H	Stacking height S	Blind height H	Stacking height S
1000	127	3000	177
1500	140	3500	192
2000	152	4000	207
2500	165		

OPTIONS EVB EL50AF

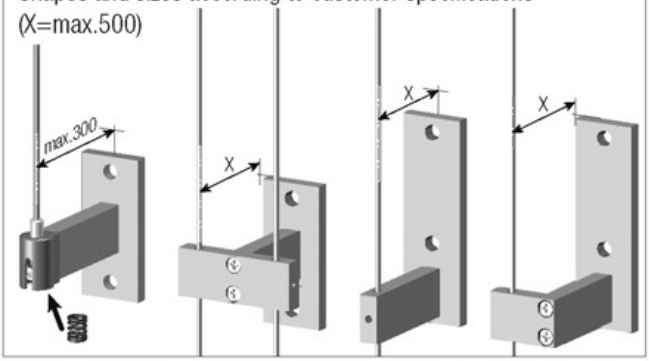
GUIDE CABLE BRACKETS

3 sizes (X, mm);
27 - 73
67 - 133
124 - 173

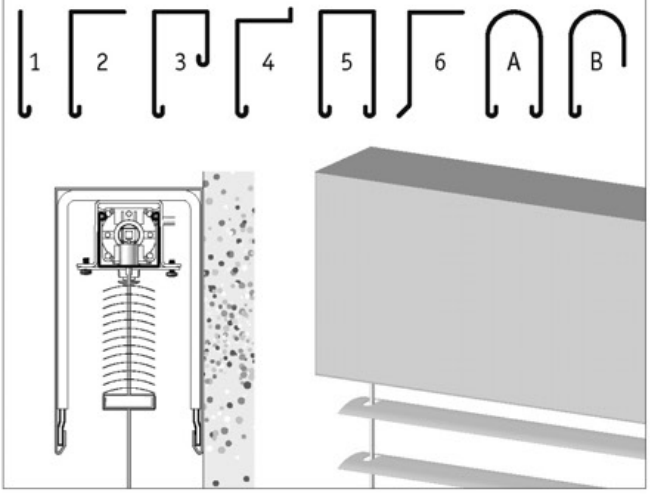
GUIDE CABLE BRACKETS, IDEFIX

HEAVY DUTY CABLE BRACKETS

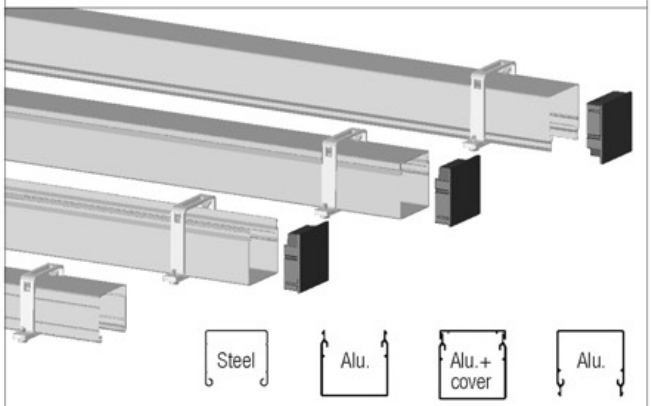
Shapes and sizes according to customer specifications
(X=max.500)



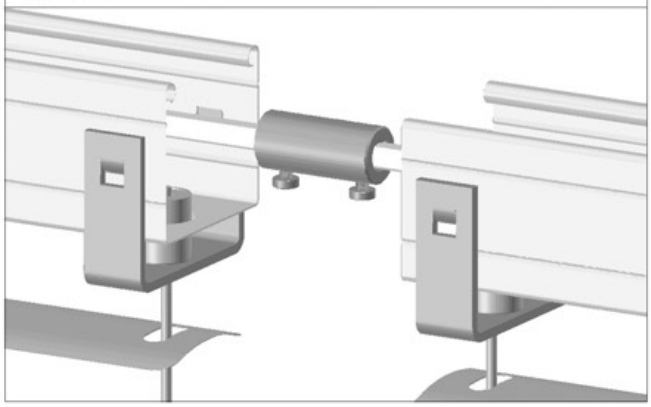
PELMET



HEAD RAIL



COUPLING



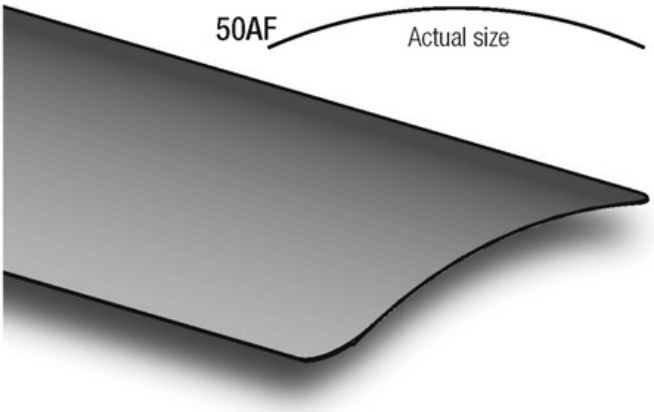
FURTHER OPTIONS (Additional information on page 73)

- Slow motion motor for more precise slat tilting
- Lift tape and ladder cords in grey
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

EVB K50AF

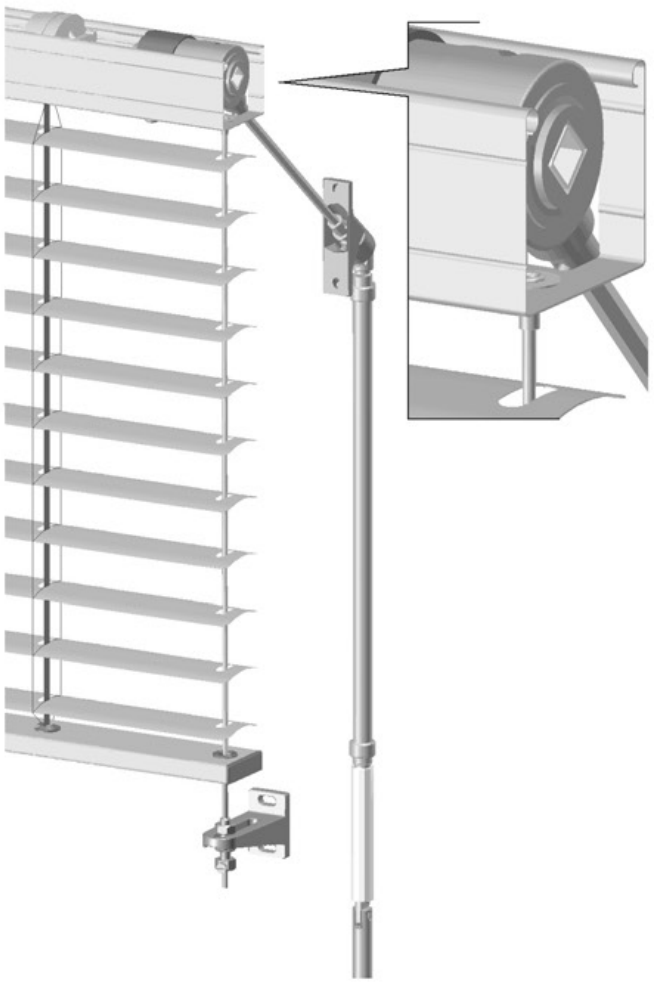
CRANK WAND OPERATED EXTERNAL VENETIAN BLIND
50 MM FLEXIBLE SLATS WITH SIDE GUIDING CABLES

K50AF : flexible 50 mm slats



Description

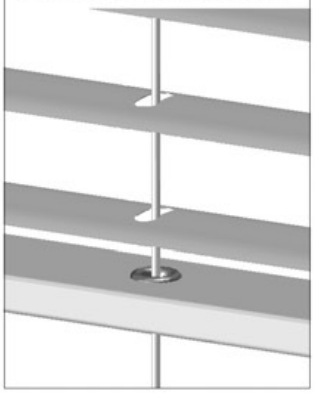
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats closed
- Roll formed coil coated 50 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 50 x 15 mm
- Tensioned stainless steel cable Ø 3 mm with transparent nylon jacket
- Black bottom rail end caps, lift tape and polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size, intermediate cables and controls



CABLE SIDE GUIDING

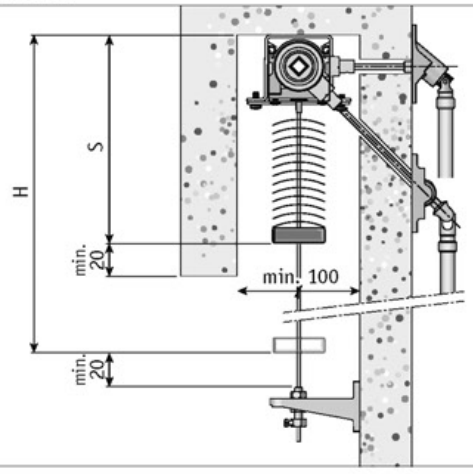
INTERMEDIATE GUIDING

For blind widths over 2.5 m.



GUIDE CABLE BRACKET

SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	K 50 AF	45	400	400	12
Group	K 50 AF		800	400	16

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S	Blind height H	Stacking height S
1000	117	3000	167
1500	130	3500	182
2000	142	4000	197
2500	155		

OPTIONS EVB K50AF

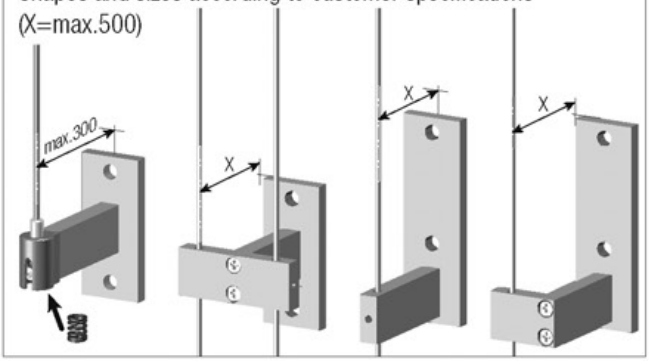
GUIDE CABLE BRACKETS

3 sizes (X, mm);
27 - 73
67 - 133
124 - 173

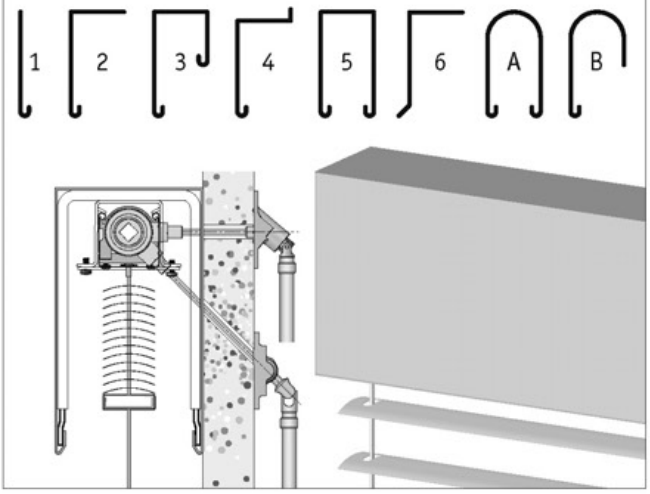
GUIDE CABLE BRACKETS, IDEFIX

HEAVY DUTY CABLE BRACKETS

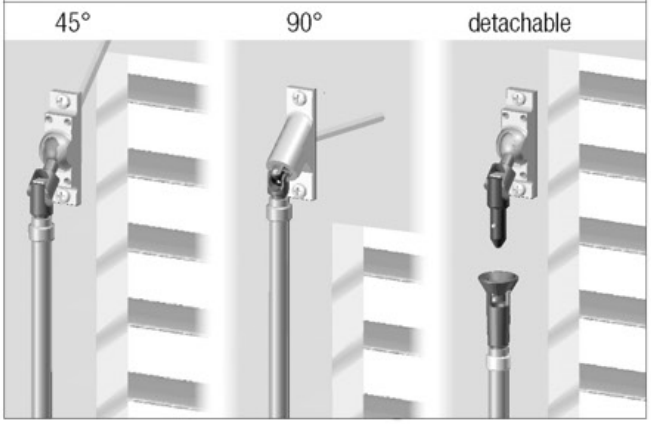
Shapes and sizes according to customer specifications
(X=max.500)



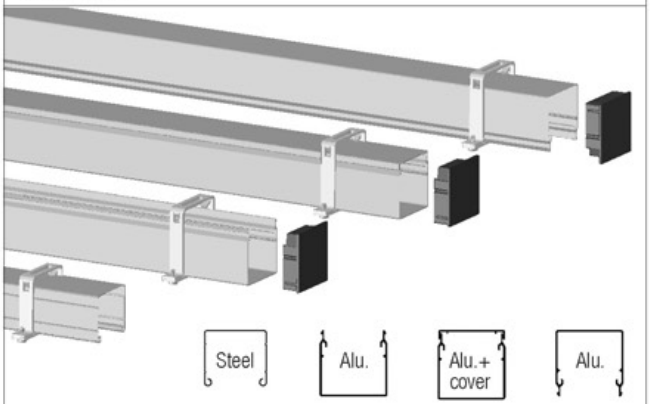
PELMET



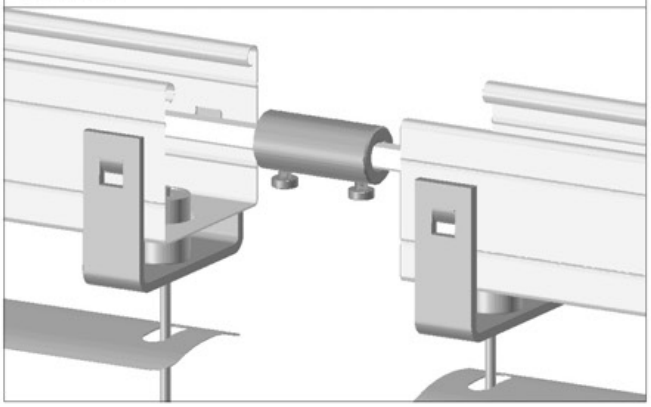
CRANK WAND



HEAD RAIL



COUPLING



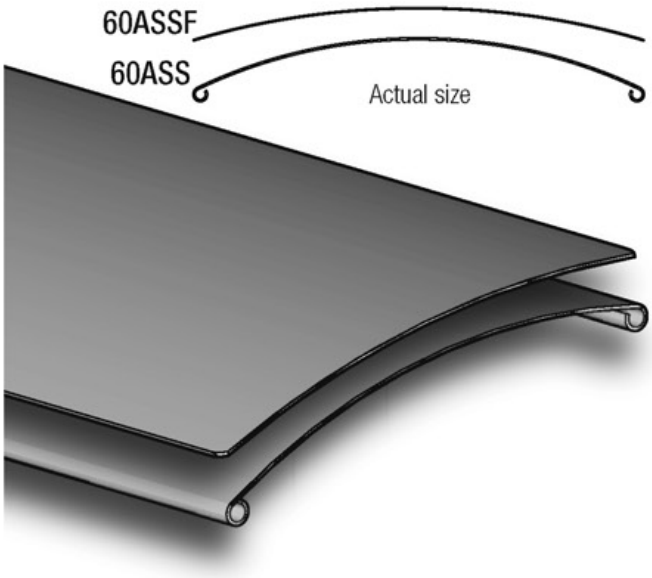
FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Lift tape and ladder cords in grey
- Perforated slats
- Additional guiding cable(s)

EVB EL60A, EL60AF

MOTOR OPERATED EXTERNAL VENETIAN BLIND
60 MM SLATS WITH SIDE GUIDING CABLES

EL60A : beaded 60 mm slats
EL60AF : flexible 60 mm slats



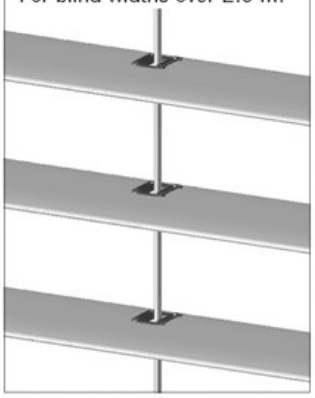
Description

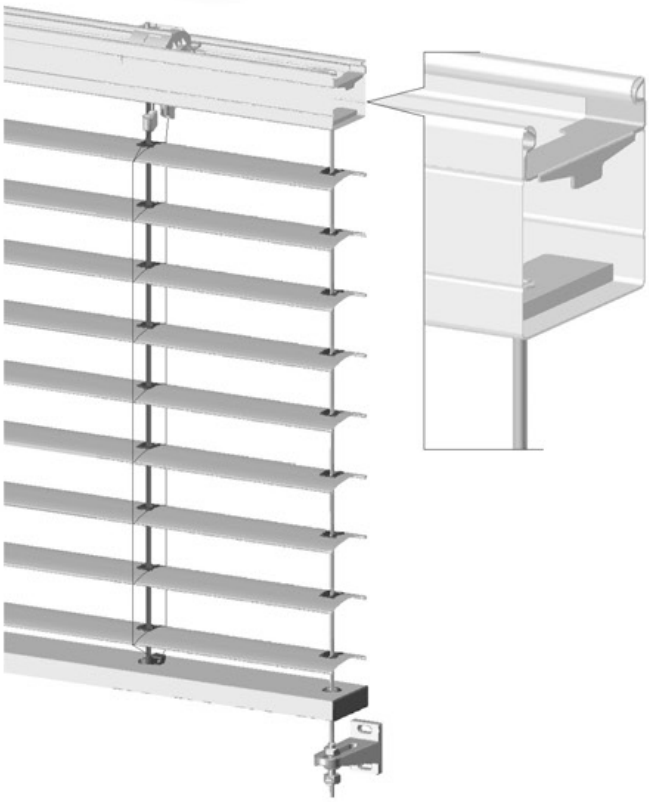
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Tensioned stainless steel cable ø 3 mm with transparent Nylon jacket
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

SIDE GUIDING PROFILE

INTERMEDIATE GUIDING

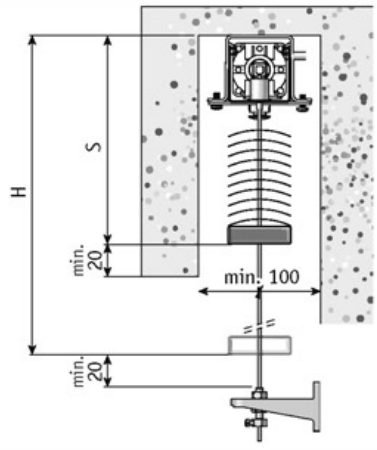
For blind widths over 2.5 m.





GUIDE CABLE BRACKET

SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 60 A	51	500	450	16
	EL 60 AF	51	500	400	16
Group	EL 60 A		1000	450	20
	EL 60 AF		1000	400	20

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S 60A	Stacking height S 60AF	Blind height H	Stacking height S 60A	Stacking height S 60AF
1000	183	142	3000	340	225
1500	222	164	3500	380	242
2000	260	185	4000	420	256
2500	297	205	4500	460	

OPTIONS EL60A, EL60AF

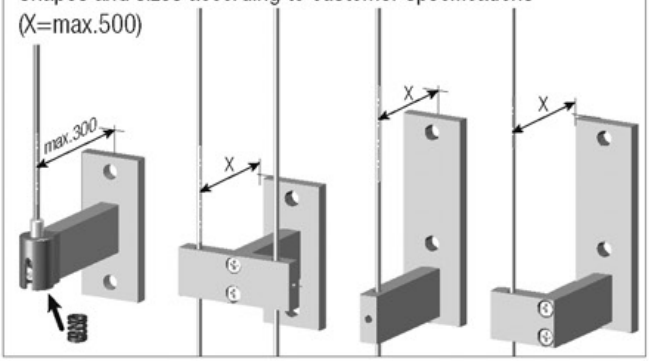
GUIDE CABLE BRACKETS

3 sizes (X, mm);
27 - 73
67 - 133
124 - 173

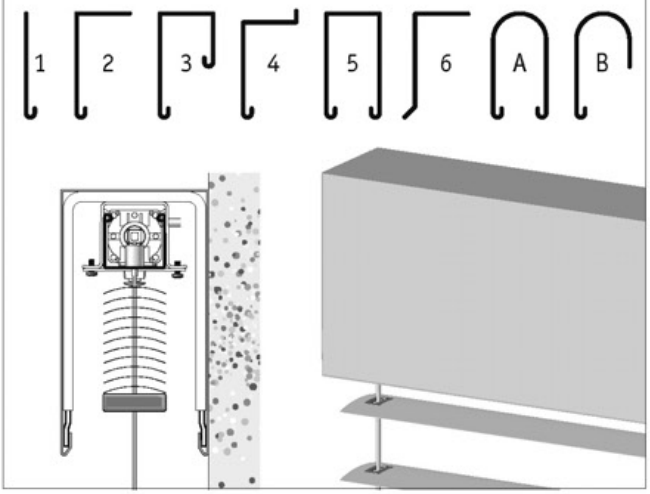
GUIDE CABLE BRACKETS, IDEFIX

HEAVY DUTY CABLE BRACKETS

Shapes and sizes according to customer specifications
(X=max.500)



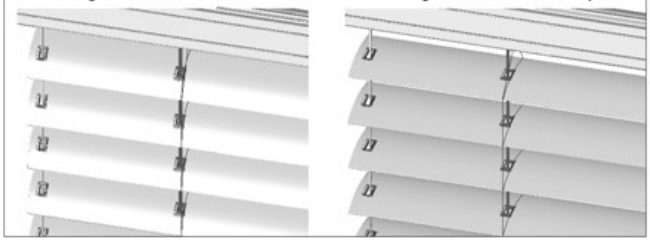
PELMET



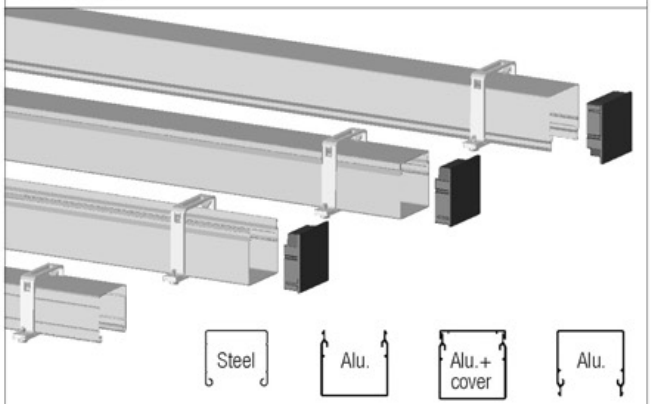
40° TIMER

Standard;
lowering with closed slats

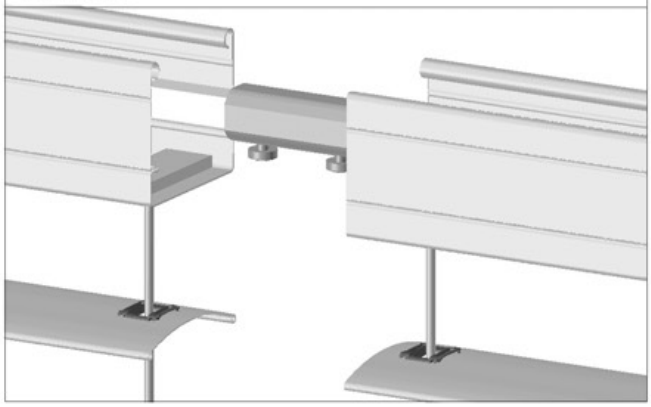
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Quick raise system for emergency situations (EL60AN, EL60AFN)
- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

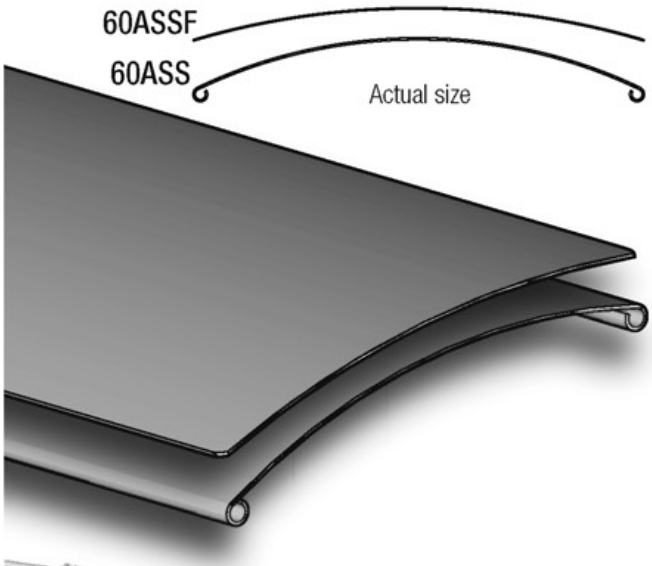
EVB K60A, K60AF

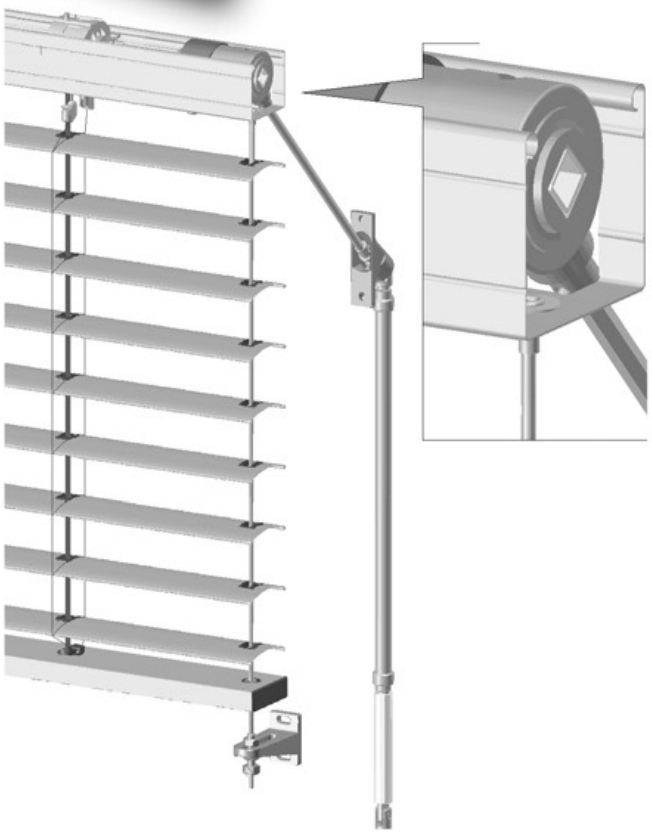
CRANK OPERATED EXTERNAL VENETIAN BLIND
60 MM SLATS WITH SIDE GUIDING CABLES

K60A : beaded 60 mm slats
K60AF : flexible 60 mm slats

Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Tensioned stainless steel cable ø 3 mm with transparent Nylon jacket
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

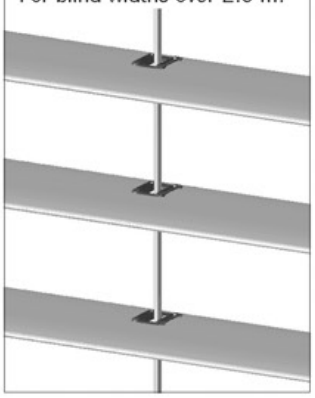




SIDE GUIDING PROFILE

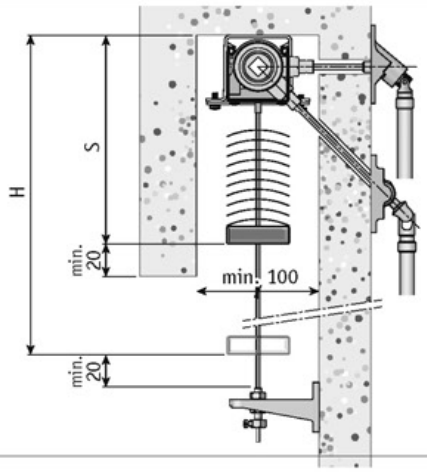
INTERMEDIATE GUIDING

For blind widths over 2.5 m.



GUIDE CABLE BRACKET

SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	K 60 A	45	500	450	12
	K 60 AF	45	500	400	12
Group	K 60 A		1000	450	12
	K 60 AF		1000	400	12

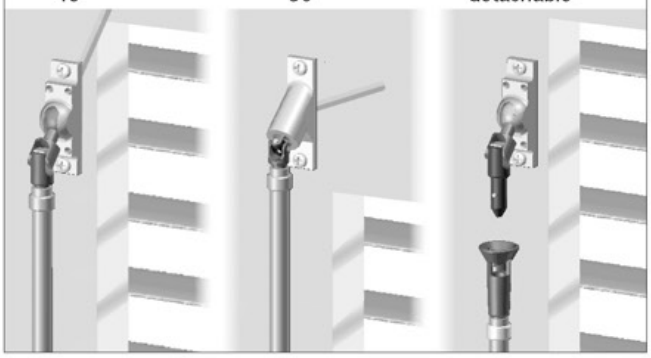
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S 60A	Stacking height S 60AF	Blind height H	Stacking height S 60A	Stacking height S 60AF
1000	173	132	3000	330	215
1500	212	154	3500	370	232
2000	250	175	4000	410	246
2500	287	195	4500	450	

OPTIONS K60A, K60AF

CRANK WAND

45° 90° detachable



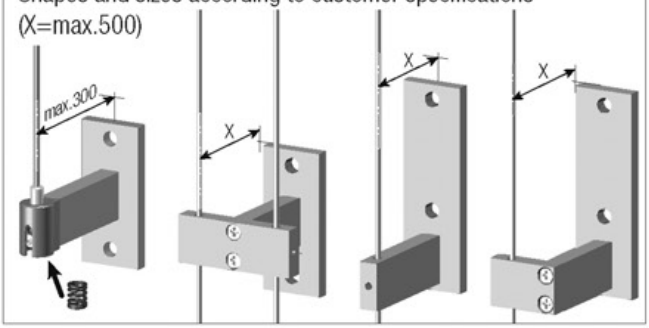
GUIDE CABLE BRACKETS

3 sizes (X, mm);
27 - 73
67 - 133
124 - 173

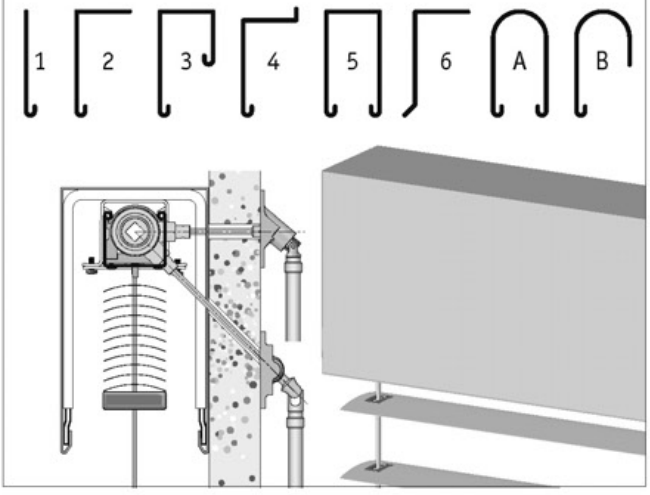
GUIDE CABLE BRACKETS, IDEFIX

HEAVY DUTY CABLE BRACKETS

Shapes and sizes according to customer specifications
(X=max.500)



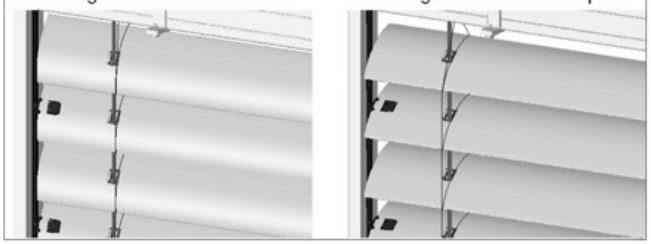
PELMET



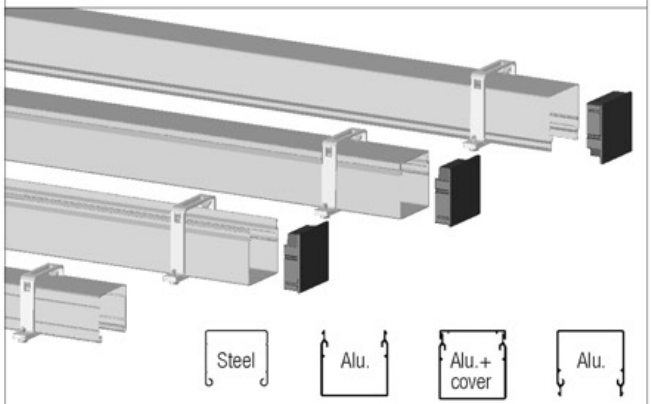
40° TIMER

Standard;
lowering with closed slats

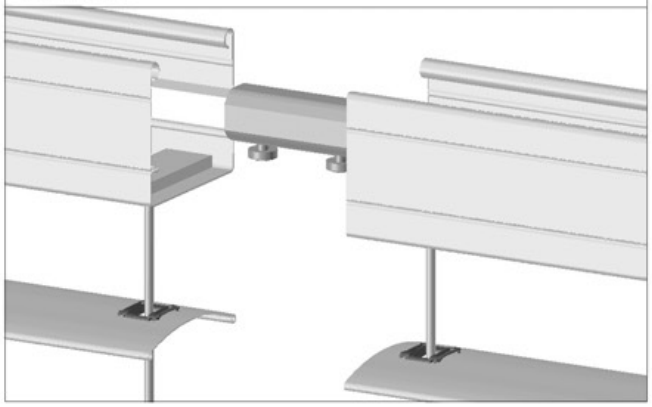
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Spindle stop
- Perforated slats
- Additional guiding cable(s)

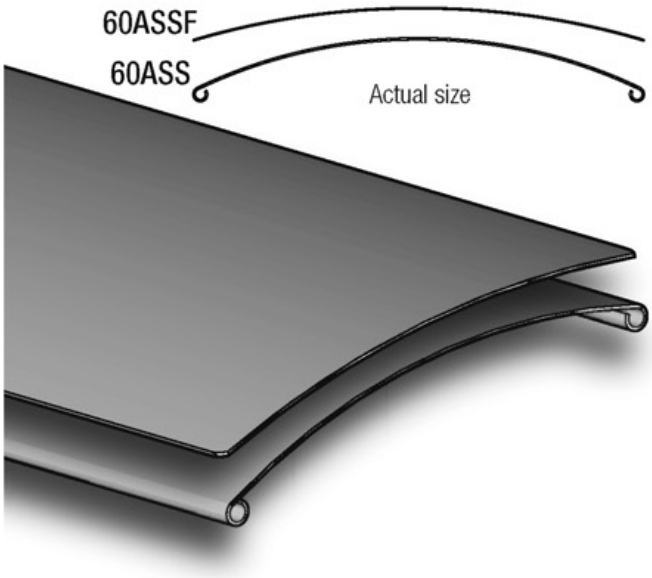
EVB EL60AS, EL60ASF

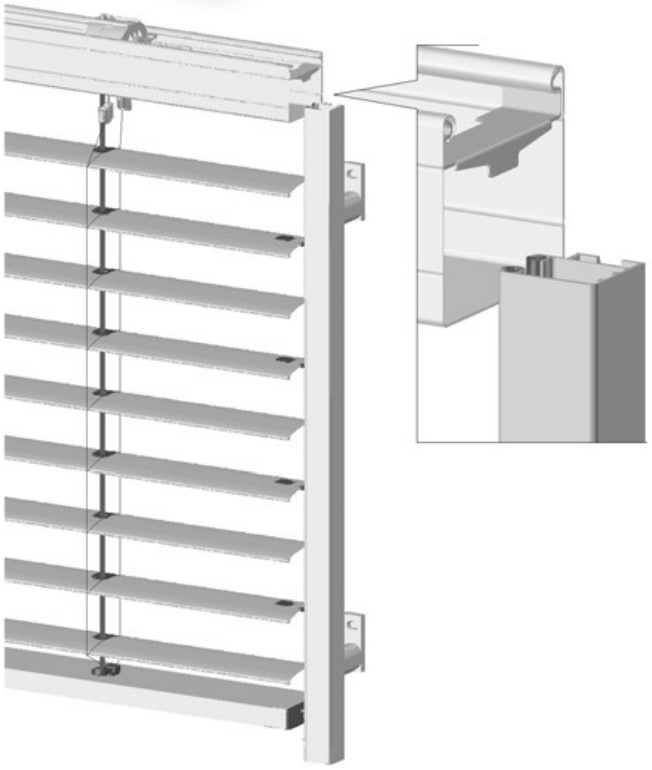
MOTOR OPERATED EXTERNAL VENETIAN BLIND
60 MM SLATS WITH STANDARD SIDE GUIDING CHANNELS

EL60AS : beaded 60 mm slats
EL60ASF : flexible 60 mm slats

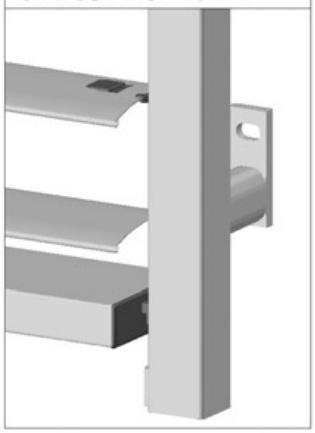
Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Extruded side guiding channels 27 x 24 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



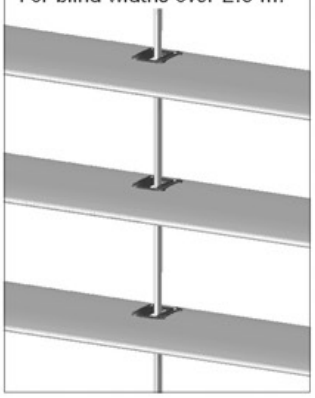


SIDE GUIDING PROFILE

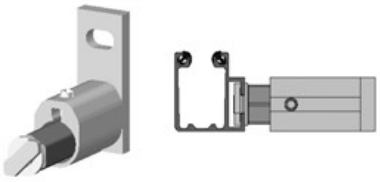


INTERMEDIATE GUIDING

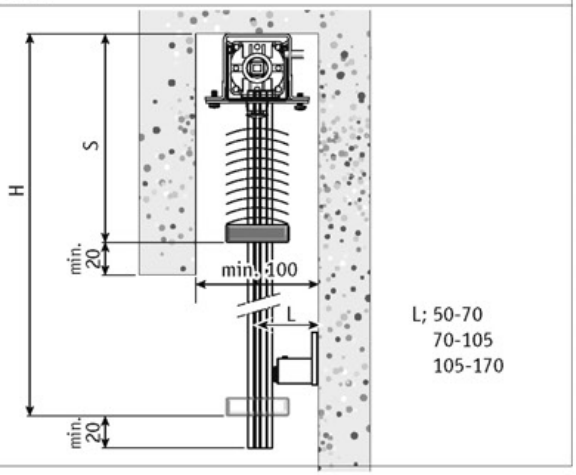
For blind widths over 2.5 m.



SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 60 AS	58	500	400	16
	EL 60 ASF	58	300	400	12
Group	EL 60 AS		1000	400	20
	EL 60 ASF		1000	400	20

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

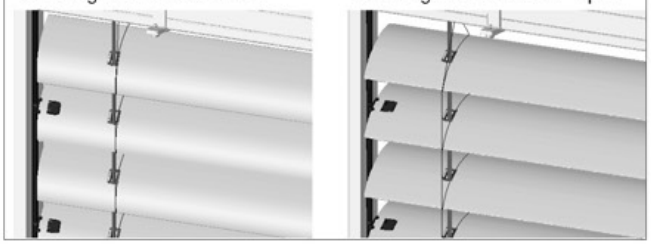
Blind height H	Stacking height S 60AS	Stacking height S 60ASF	Blind height H	Stacking height S 60AS	Stacking height S 60ASF
1000	183	142	3000	340	225
1500	222	164	3500	380	242
2000	260	185	4000	420	256
2500	297	205			

OPTIONS EL60AS, EL60ASF

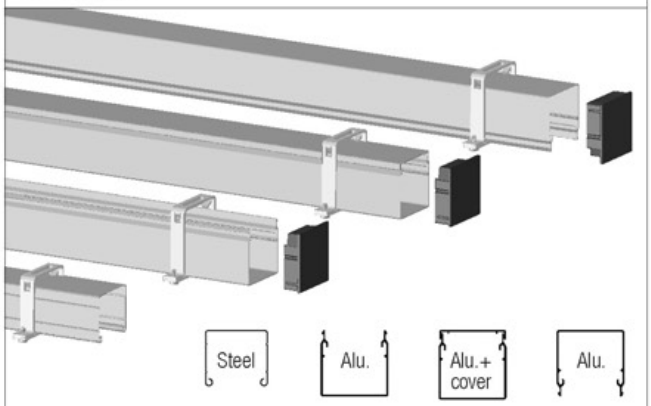
40° TIMER

Standard;
lowering with closed slats

40° Timer;
lowering with slats 40° open

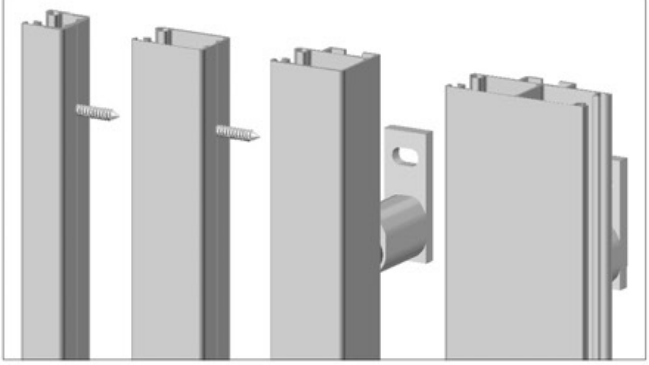


HEAD RAIL

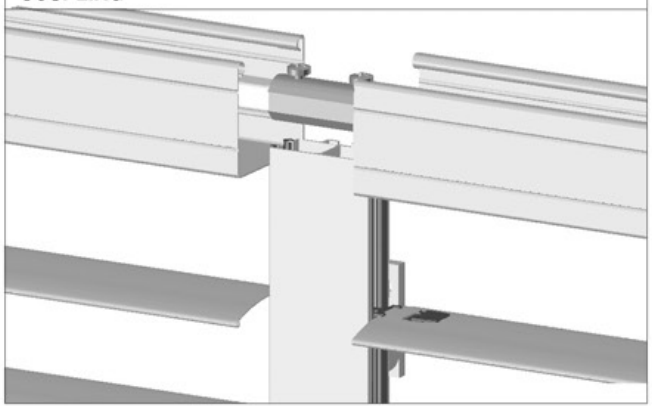


SIDE TRACK BRACKETS

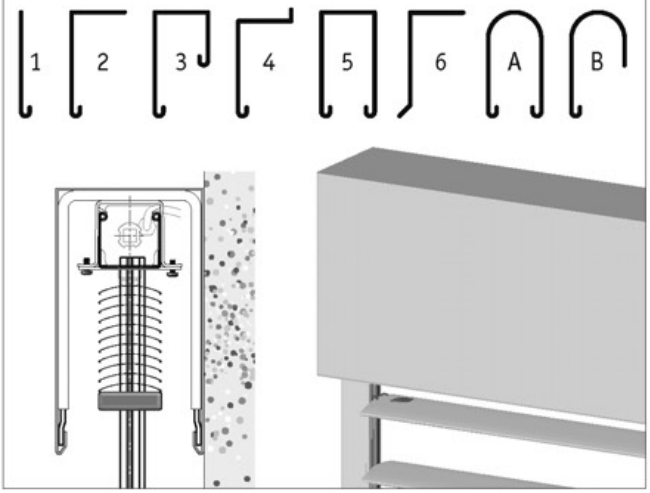
SIDE TRACKS



COUPLING



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Quick raise system for emergency situations (EL60ASN)
- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation
- Lockable bottomrail, to use in case of an emergency

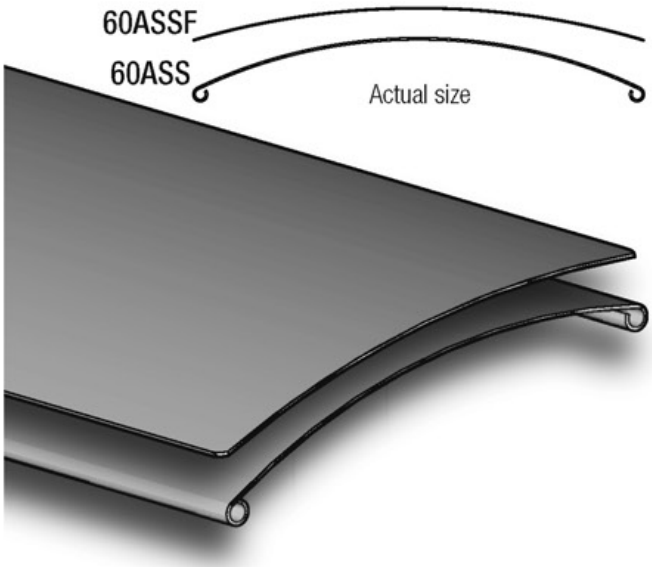
EVB K60AS, K60ASF

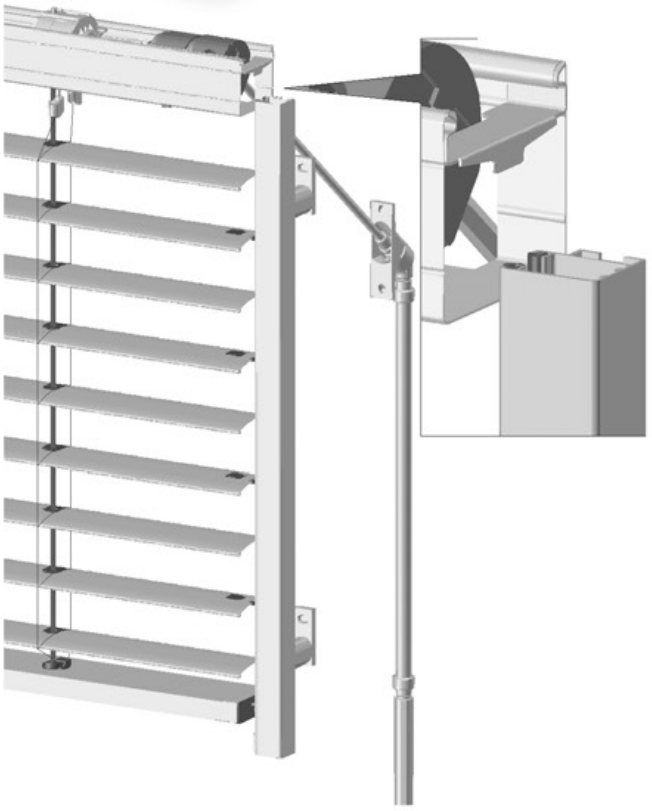
CRANK OPERATED EXTERNAL VENETIAN BLIND
60 MM SLATS WITH STANDARD SIDE GUIDING CHANNELS

K60AS : beaded 60 mm slats
K60ASF: flexible 60 mm slats

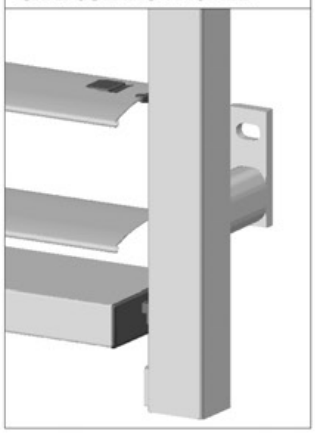
Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Extruded side guiding channels 27 x 24 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



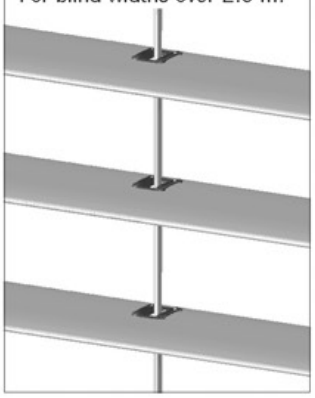


SIDE GUIDING PROFILE

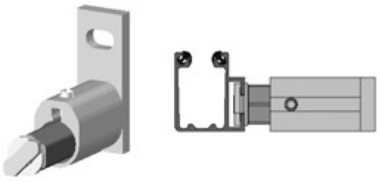


INTERMEDIATE GUIDING

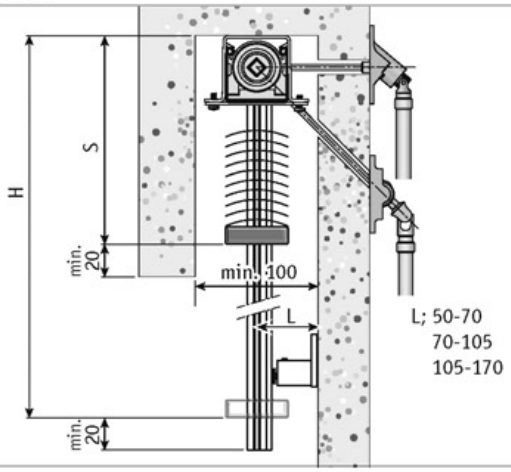
For blind widths over 2.5 m.



SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

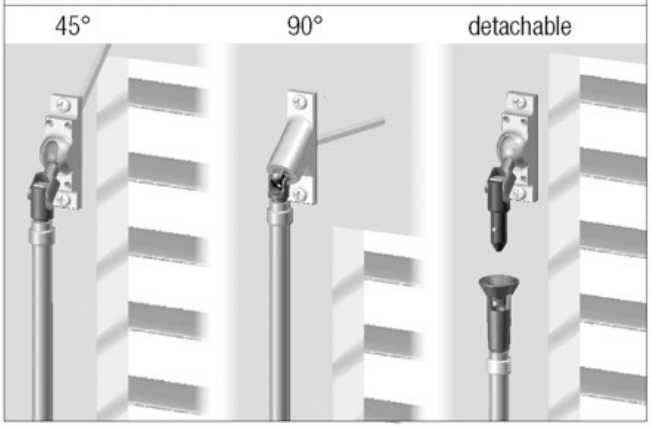
		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m²)
Single	K 60 AS	52	500	400	12
	K 60 ASF	52	300	400	12
Group	K 60 AS		1000	400	12
	K 60 ASF		900	400	12

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S 60AS	Stacking height S 60ASF	Blind height H	Stacking height S 60AS	Stacking height S 60ASF
1000	173	132	3000	330	215
1500	212	154	3500	370	232
2000	250	175	4000	410	246
2500	287	195			

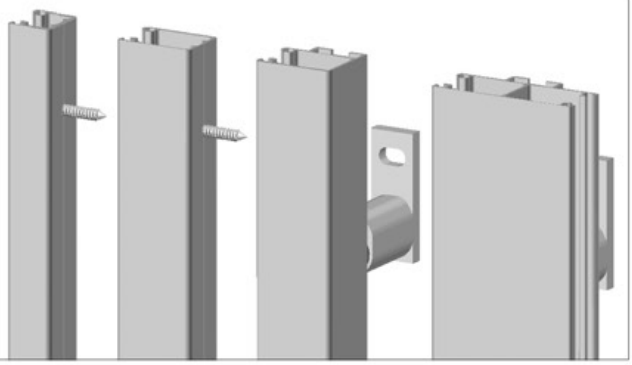
OPTIONS K60AS, K60ASF

CRANK WAND

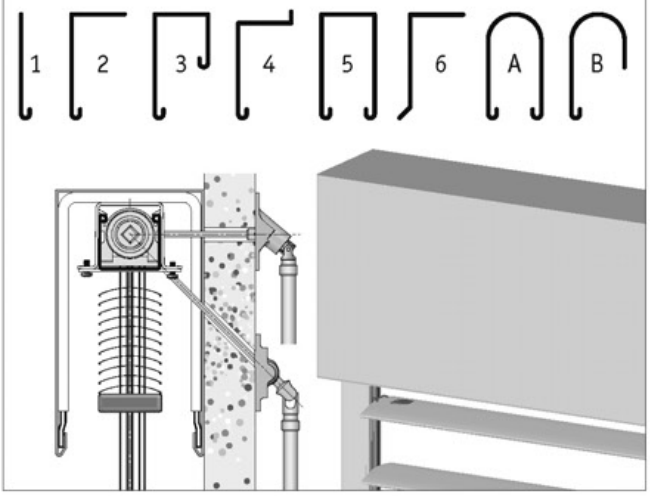


SIDE TRACK BRACKETS

SIDE TRACKS



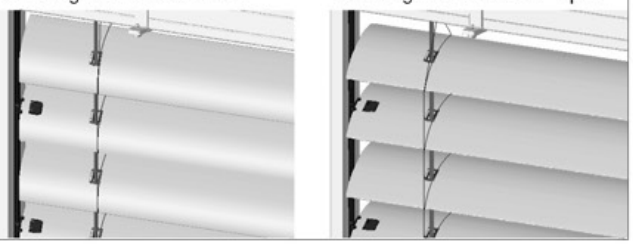
PELMET



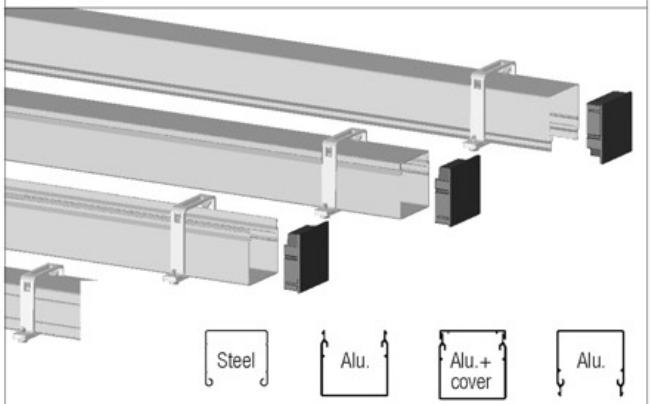
40° TIMER

Standard;
lowering with closed slats

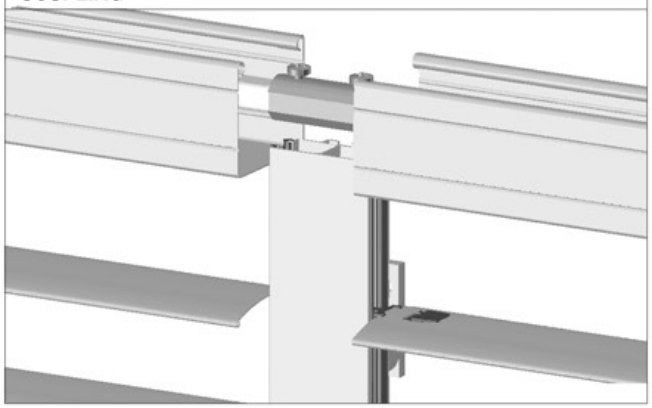
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



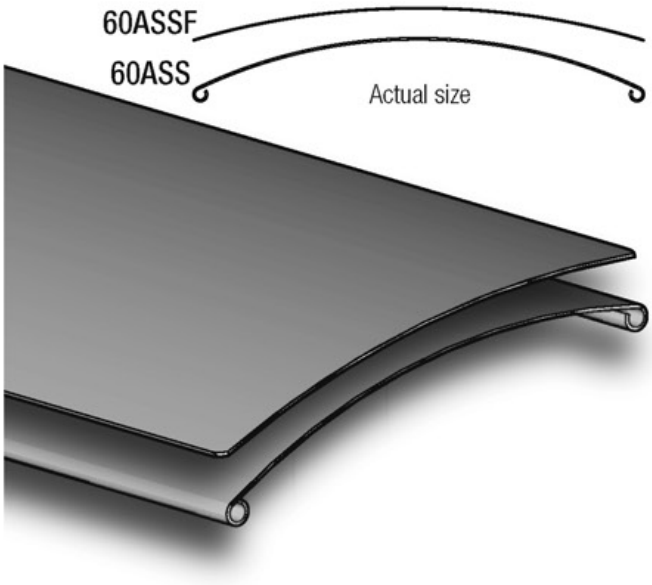
FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Spindle stop
- Perforated slats
- Additional guiding cable(s)
- Lockable bottomrail, to use in case of an emergency

EVB EL60ASC, EL60ASCF

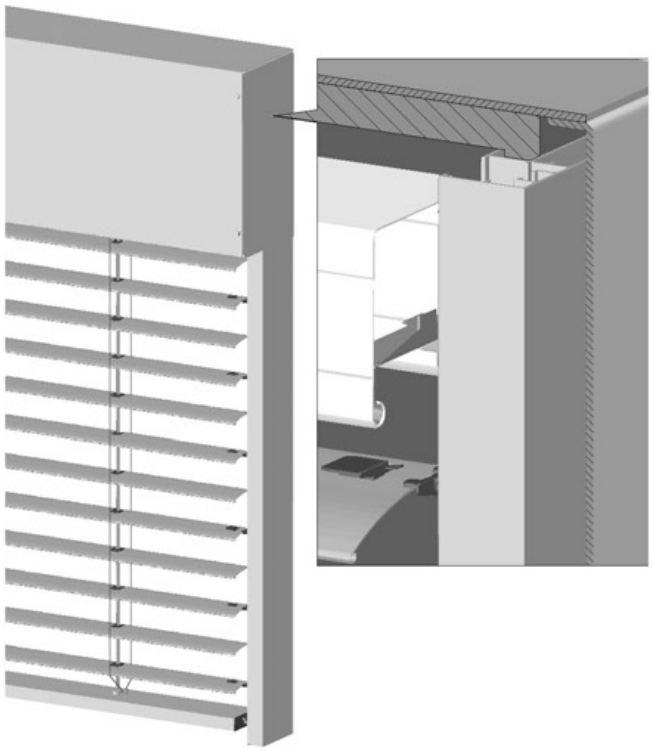
MOTOR OPERATED EXTERNAL VENETIAN BLIND "CLICK"
60 MM SLATS WITH CLIP-ON SIDE GUIDING CHANNELS

EL60ASC : beaded 60 mm slats
EL60ASCF : flexible 60 mm slats

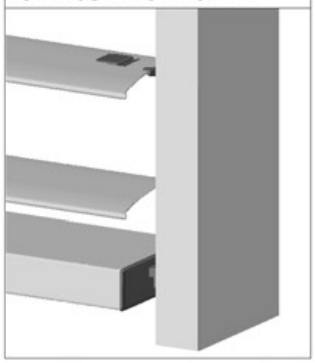


Description

- Easy to mount "CLICK" blind pre-installed in customised natural anodised or powder coated aluminium pelmet
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Extruded side guiding channels 81 x 25 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



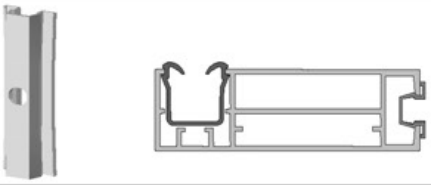
SIDE GUIDING PROFILE



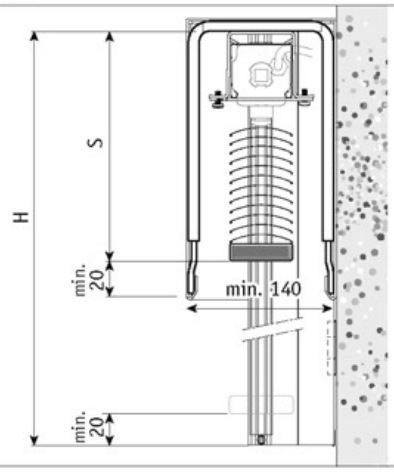
INTERMEDIATE GUIDING

For blind widths over 2.5 m.

SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

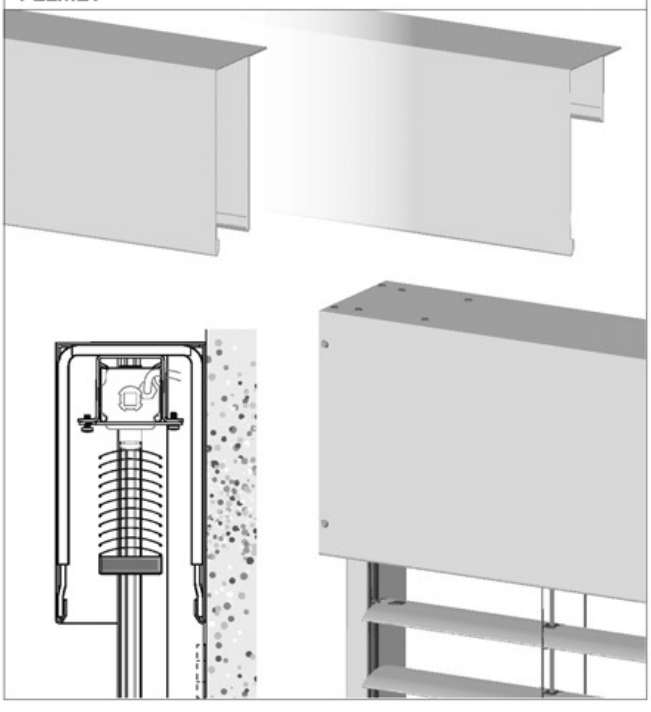
	Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
EL 60 ASC	78	350	400	12
EL 60 ASCF	78	350	400	12

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S 60ASC	Stacking height S 60ASCF	Blind height H	Stacking height S 60ASC	Stacking height S 60ASCF
1000	193	152	3000	350	235
1500	232	174	3500	390	252
2000	270	195	4000	430	266
2500	307	215			

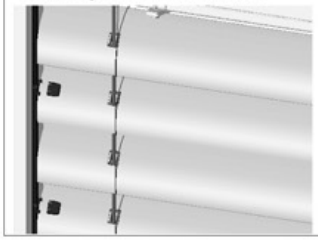
OPTIONS EL60ASC, EL60ASCF

PELMET

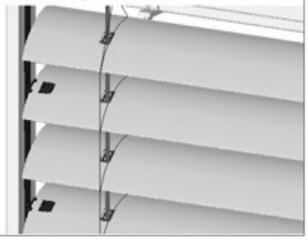


40° TIMER

Standard;
lowering with closed slats



40° Timer;
lowering with slats 40° open



FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

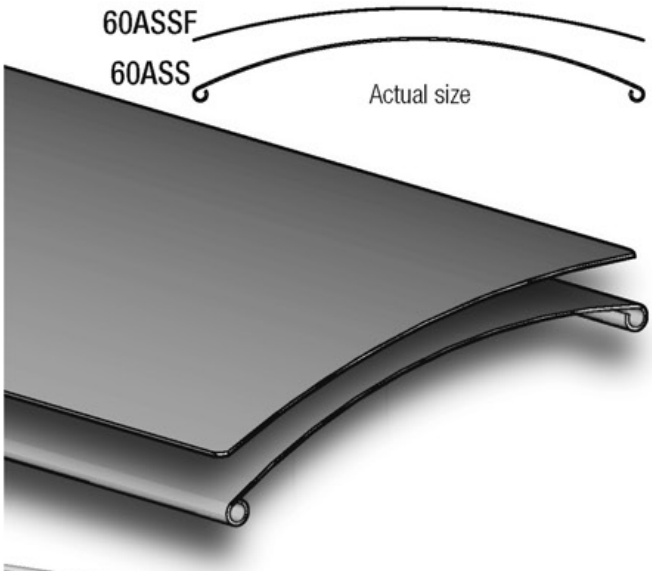
EVB EL60ASS, EL60ASSF

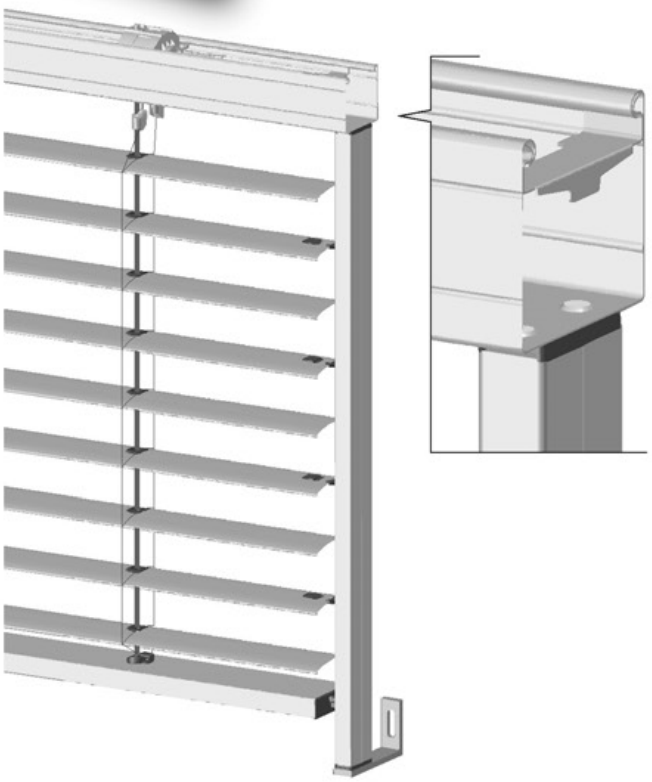
MOTOR OPERATED EXTERNAL VENETIAN BLIND
60 MM SLATS WITH PUSH-ON SIDE GUIDING CHANNELS

EL60ASS : beaded 60 mm slats
EL60ASSF : flexible 60 mm slats

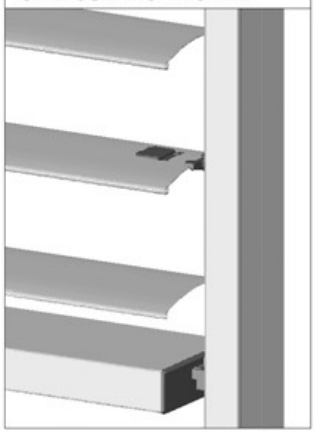
Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



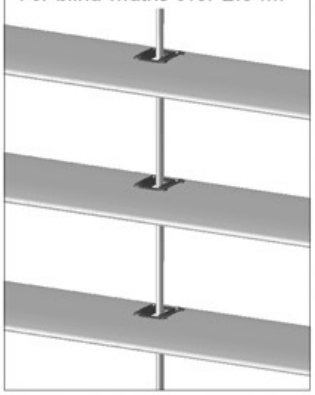


SIDE GUIDING PROFILE

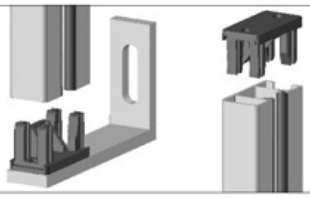


INTERMEDIATE GUIDING

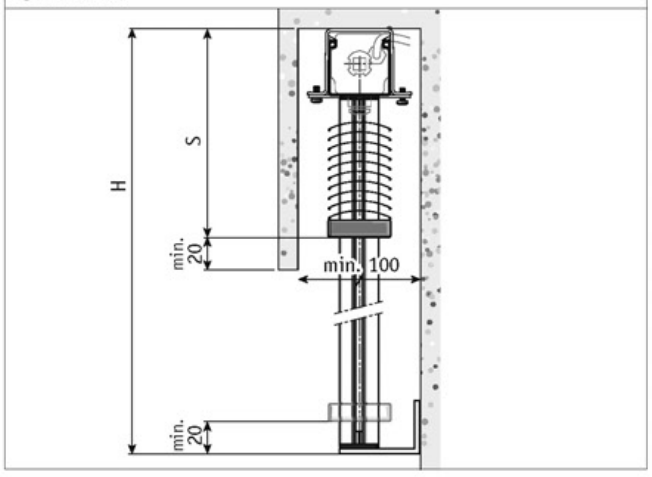
For blind widths over 2.5 m.



PUSH-ON BRACKET



SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 60 ASS	56	300	250	7
	EL 60 ASSF	56	300	250	7
Group	EL 60 ASS		1000	250	20
	EL 60 ASSF		1000	250	20

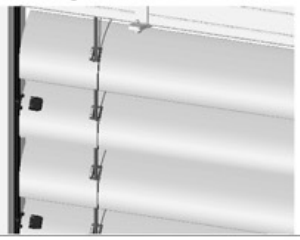
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S 60ASS	Stacking height S 60ASSF	Blind height H	Stacking height S 60ASS	Stacking height S 60ASSF
1000	183	142	2000	260	185
1500	222	164	2500	297	205

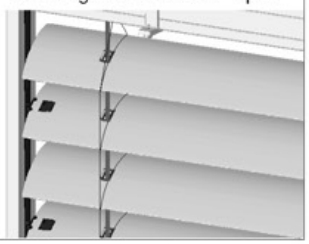
OPTIONS EL60ASS, EL60ASSF

40° TIMER

Standard;
lowering with closed slats

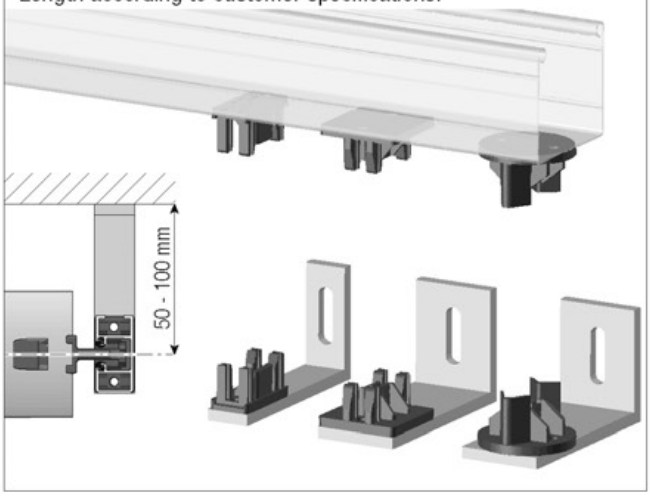


40° Timer;
lowering with slats 40° open

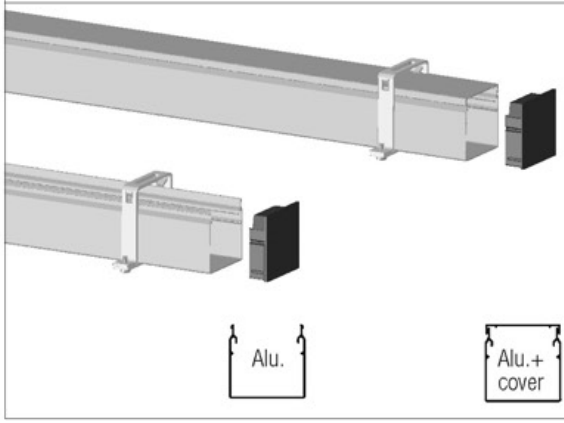


SIDE TRACK BRACKETS

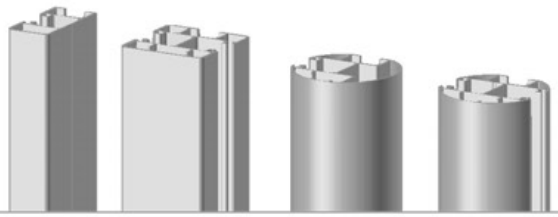
Length according to customer specifications.



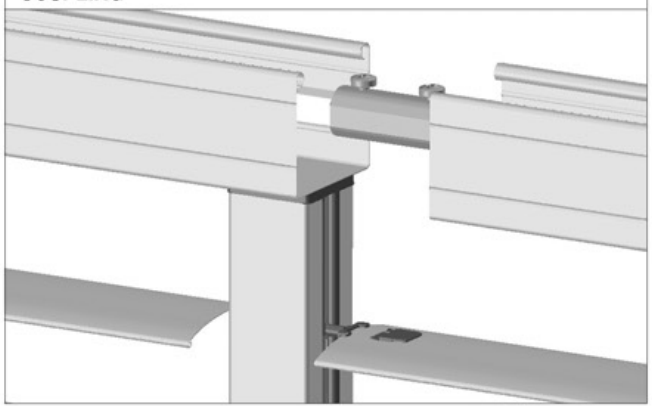
HEAD RAIL



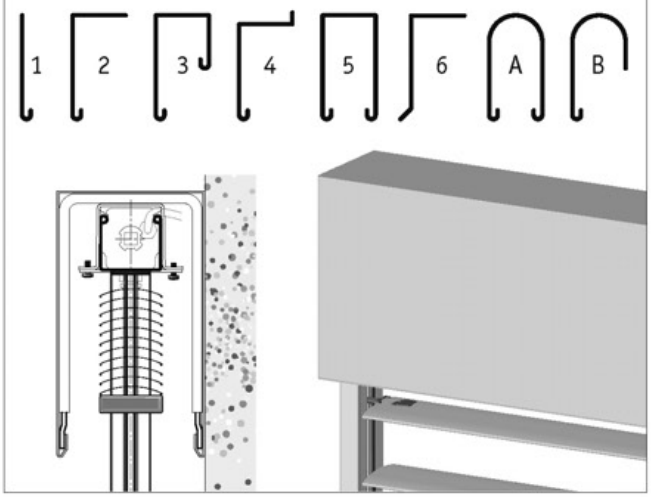
SIDE TRACKS



COUPLING



PELMET



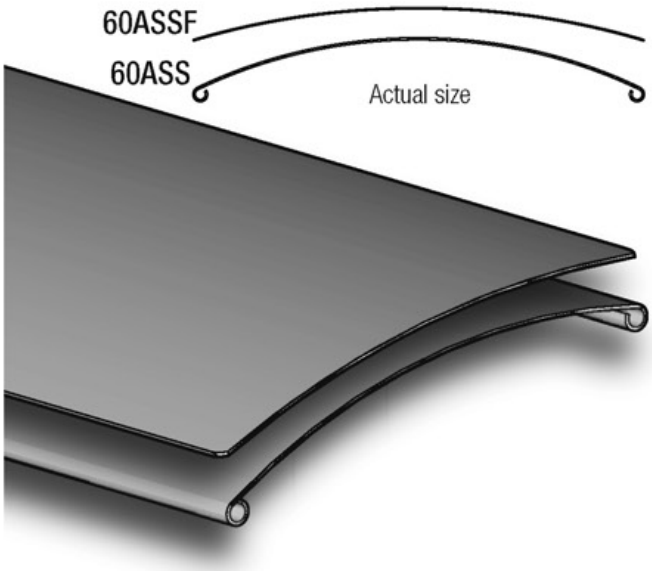
FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

EVB K60ASS, K60ASSF

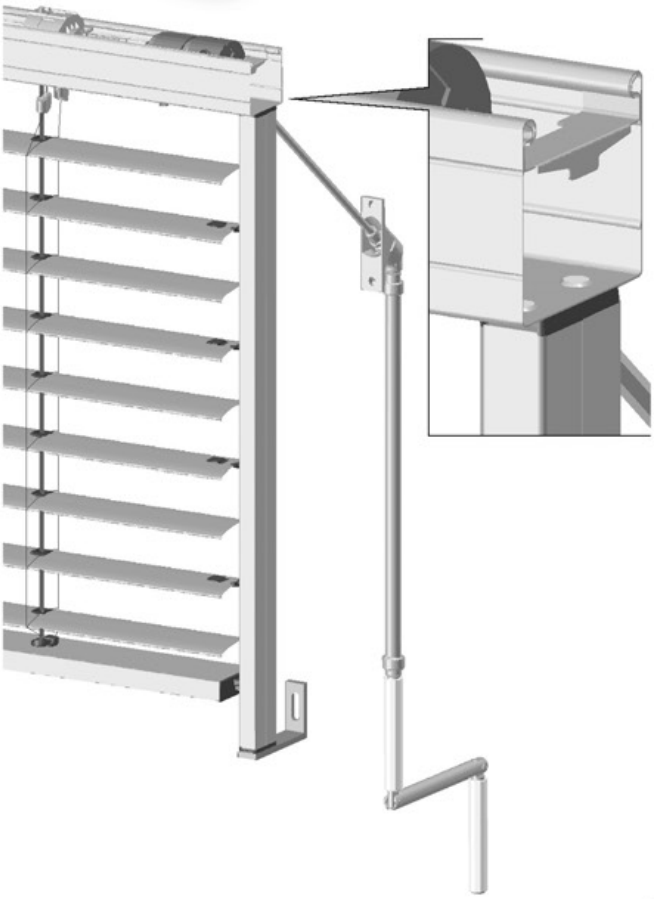
CRANK OPERATED EXTERNAL VENETIAN BLIND
60 MM SLATS WITH PUSH-ON SIDE GUIDING CHANNELS

K60ASS : beaded 60 mm slats
K60ASSF : flexible 60 mm slats

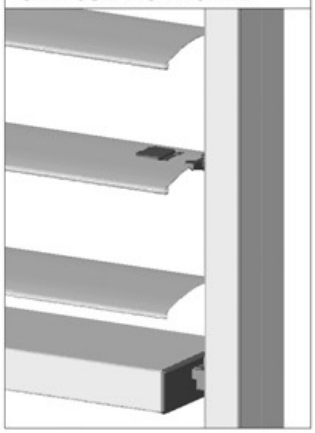


Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

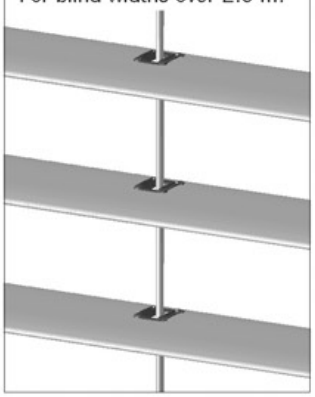


SIDE GUIDING PROFILE

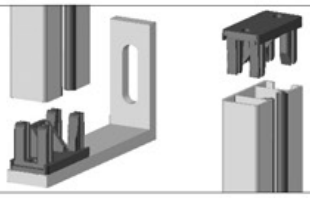


INTERMEDIATE GUIDING

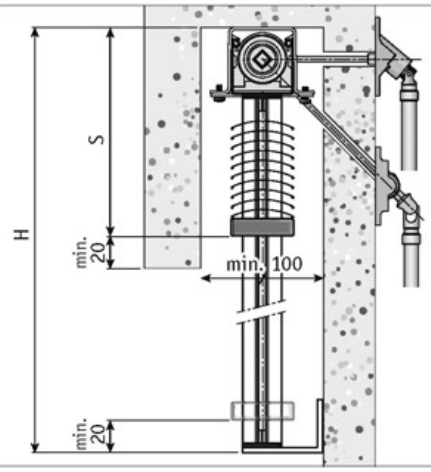
For blind widths over 2.5 m.



PUSH-ON BRACKET



SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	K 60 ASS	50	300	250	7
	K 60 ASSF	50	300	250	7
Group	K 60 ASS		1000	250	12
	K 60 ASSF		1000	250	12

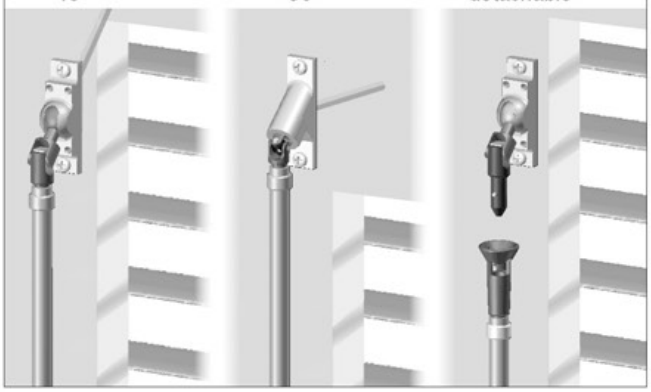
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S 60ASS	Stacking height S 60ASSF	Blind height H	Stacking height S 60ASS	Stacking height S 60ASSF
1000	173	132	2000	250	175
1500	212	154	2500	287	195

OPTIONS K60ASS, K60ASSF

CRANK WAND

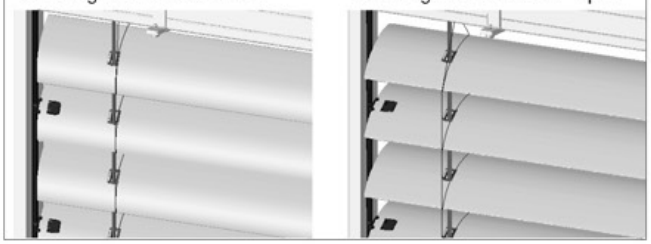
45° 90° detachable



40° TIMER

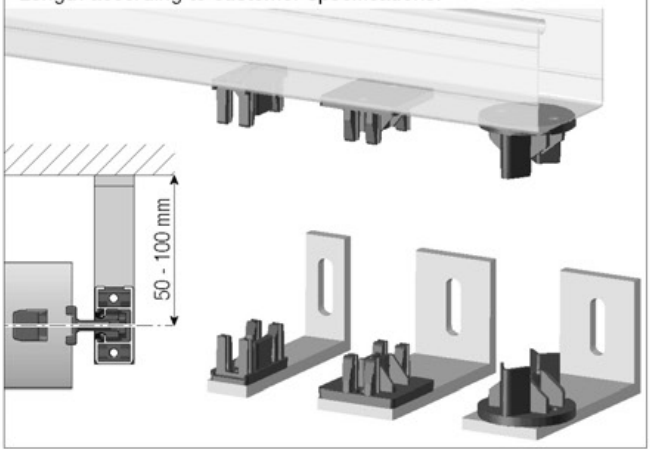
Standard;
lowering with closed slats

40° Timer;
lowering with slats 40° open

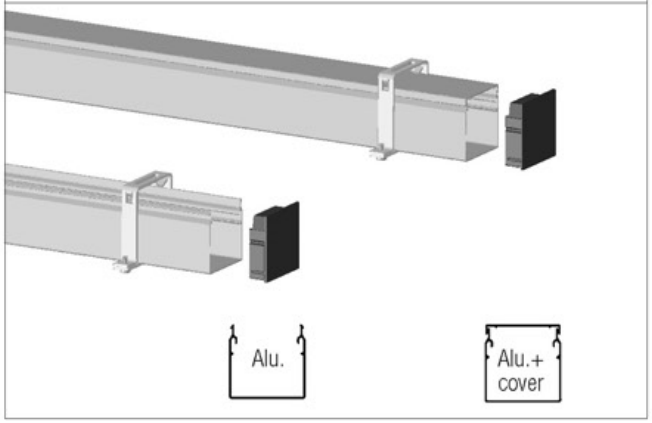


SIDE TRACK BRACKETS

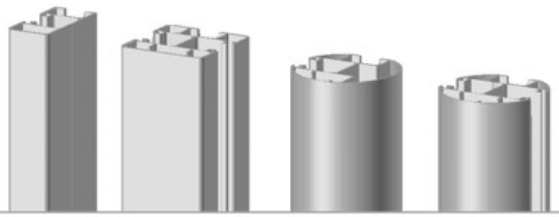
Length according to customer specifications.



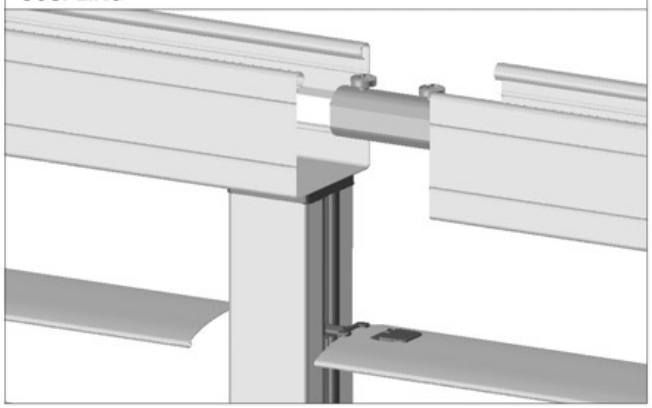
HEAD RAIL



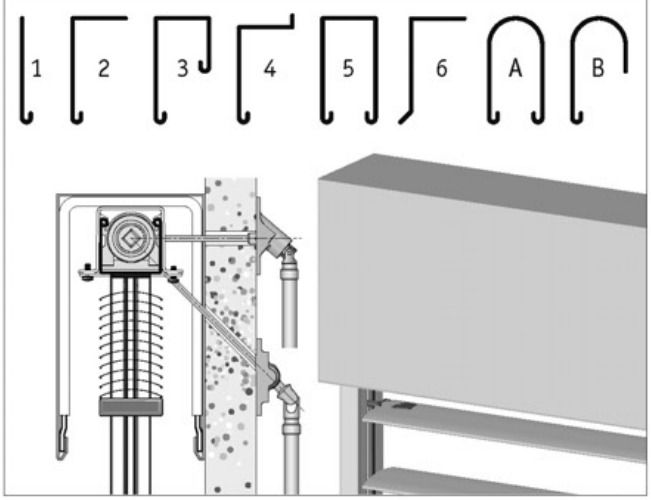
SIDE TRACKS



COUPLING



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Spindle stop
- Perforated slats
- Additional guiding cable(s)

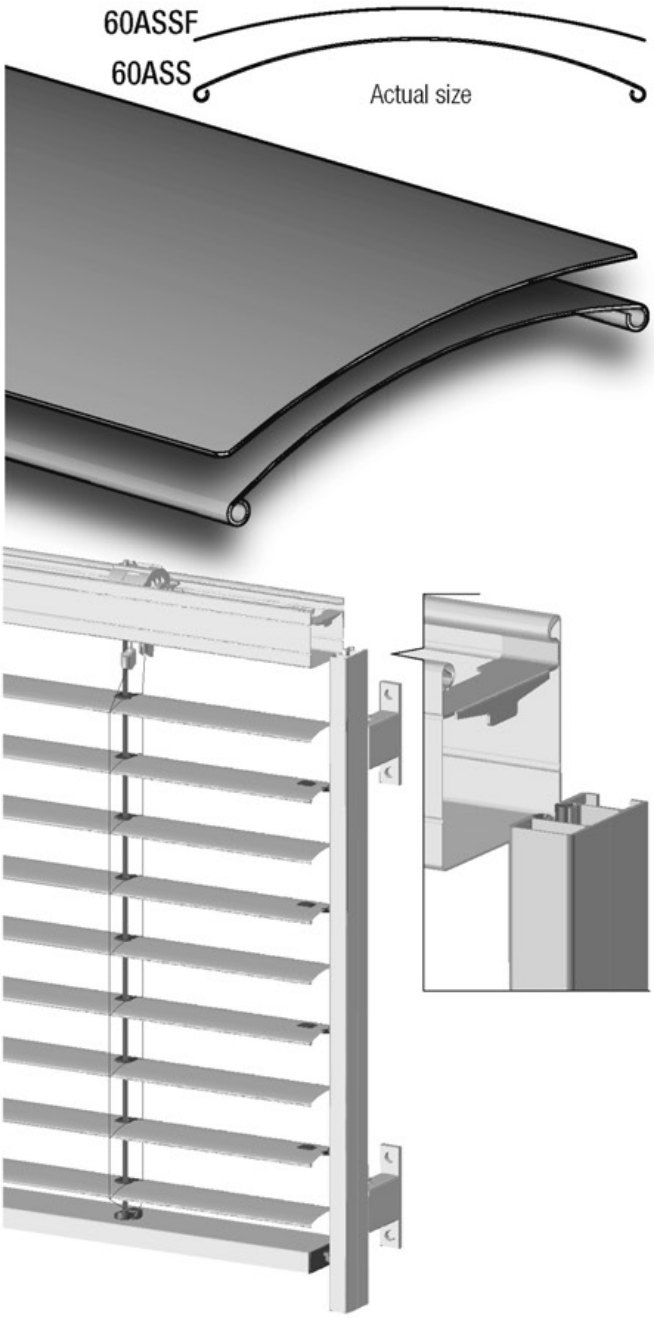
EVB EL60ASK, EL60ASKF

MOTOR OPERATED EXTERNAL VENETIAN BLIND
60 MM SLATS WITH CLAMP-ON SIDE GUIDING CHANNELS

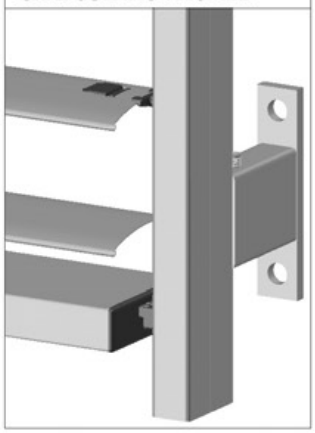
EL60ASK : beaded 60 mm slats
K60ASKF : flexible 60 mm slats

Description

- Installation on or in between side tracks
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

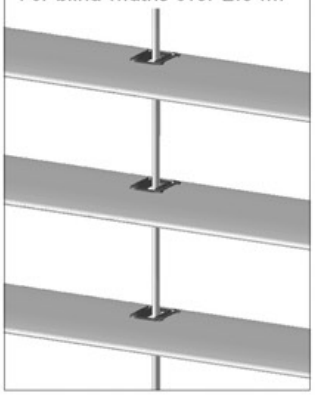


SIDE GUIDING PROFILE

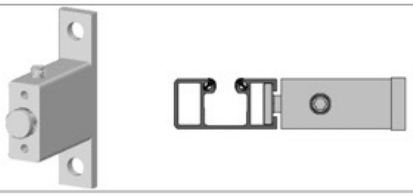


INTERMEDIATE GUIDING

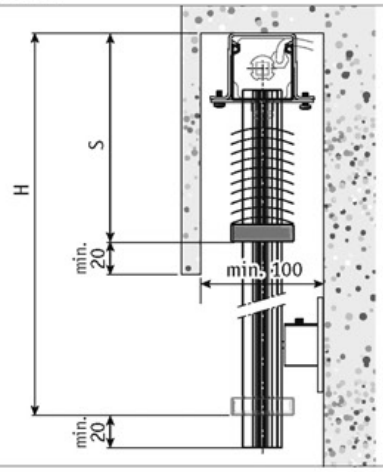
For blind widths over 2.5 m.



SIDE TRACK BRACKETS



SIDE VIEW



SIZE LIMITATIONS

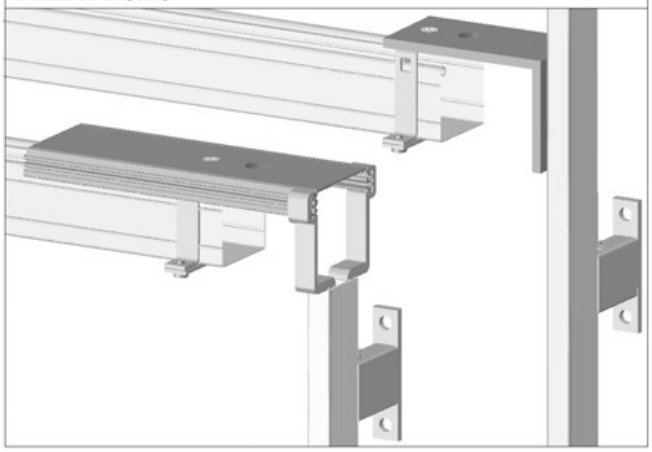
		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m²)
Single	EL 60 ASK	56	500	400	16
	EL 60 ASKF	56	300	400	12
Group	EL 60 ASK		1000	400	20
	EL 60 ASKF		1000	400	12

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S 60ASK	Stacking height S 60ASKF	Blind height H	Stacking height S 60ASK	Stacking height S 60ASKF
1000	183	142	3000	340	225
1500	222	164	3500	380	242
2000	260	185	4000	420	256
2500	297	205			

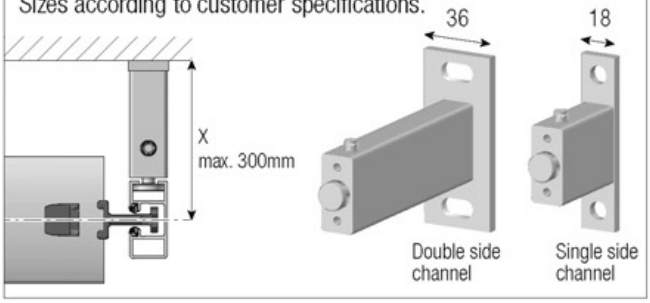
OPTIONS EL60ASK, EL60ASKF

FREE HANGING

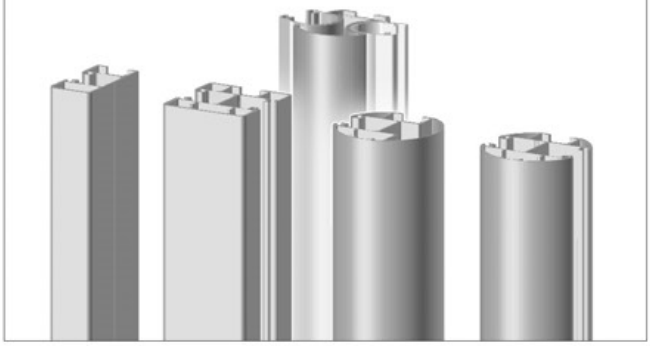


SIDE TRACK BRACKETS

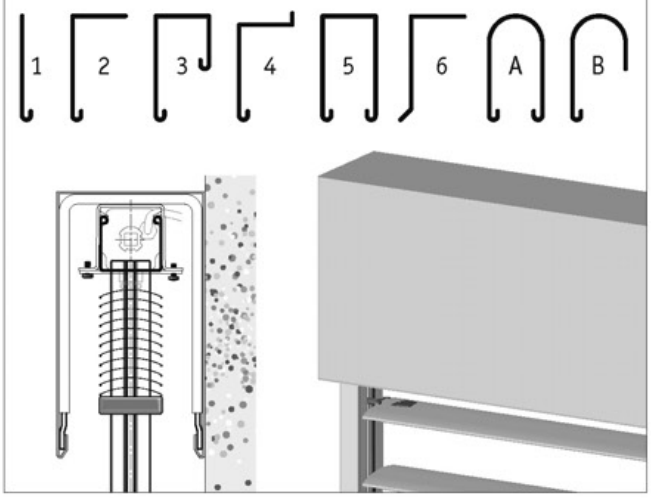
Sizes according to customer specifications.



SIDE TRACKS



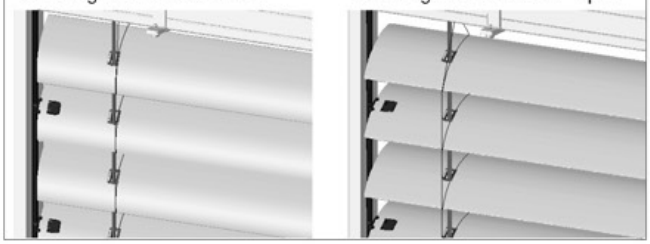
PELMET



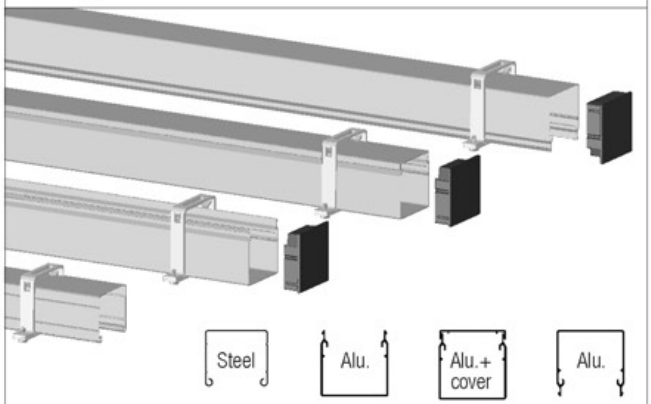
40° TIMER

Standard;
lowering with closed slats

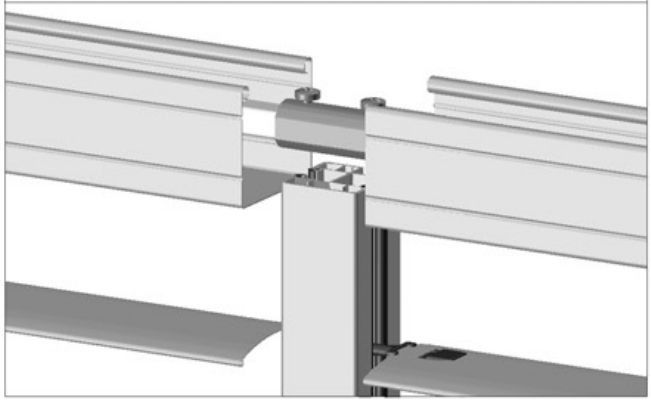
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Quick raise system for emergency situations (EL60ASKN)
- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- Additional guiding cable(s)
- Free hanging system
- For possible motor controls see separately available documentation

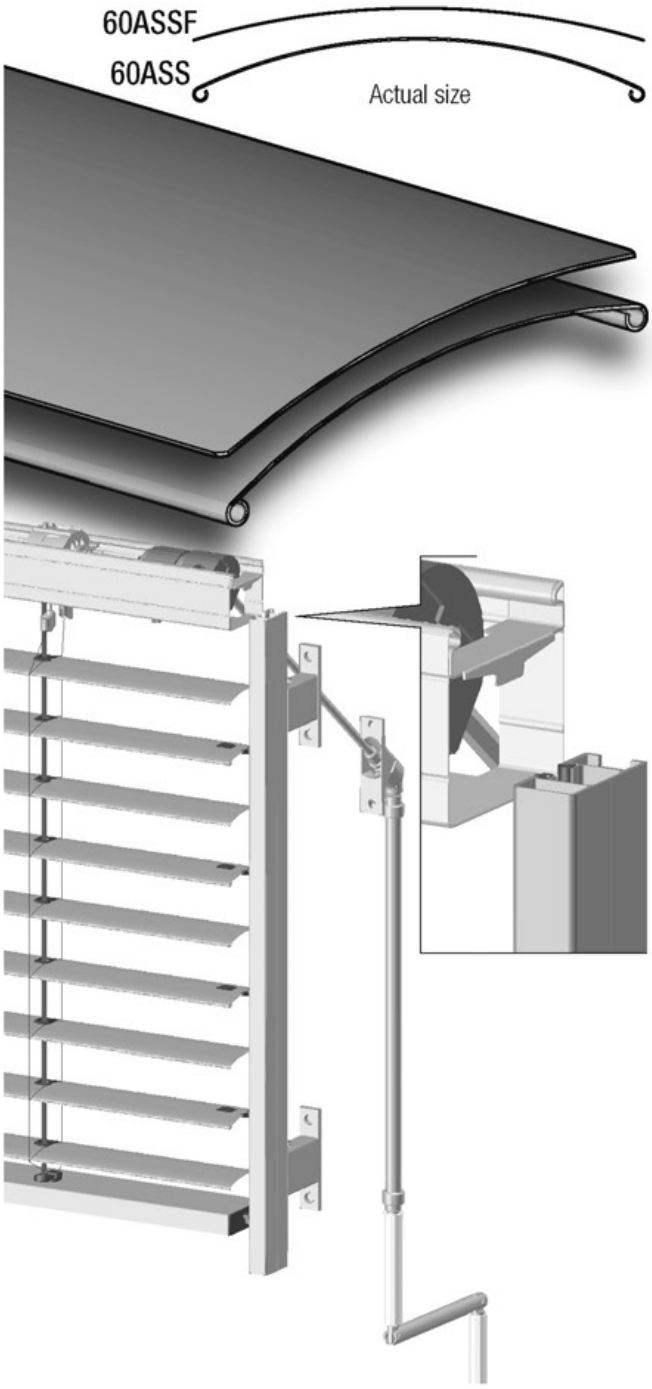
EVB K60ASK, K60ASKF

CRANK OPERATED EXTERNAL VENETIAN BLIND
60 MM SLATS WITH CLAMP-ON SIDE GUIDING CHANNELS

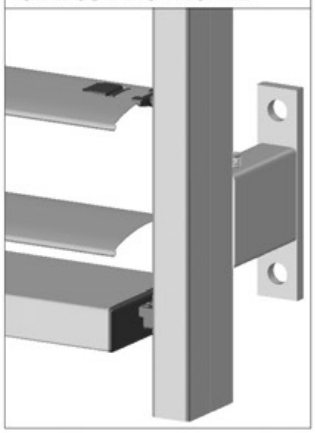
K60ASK : beaded 60 mm slats
K60ASKF : flexible 60 mm slats

Description

- Installation on or in between side tracks
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 60 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 60 x 19 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

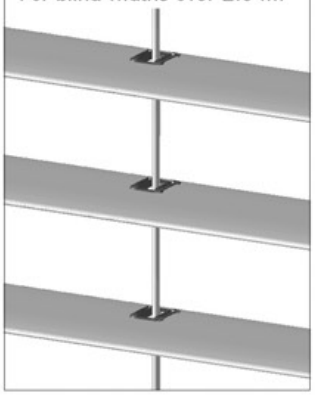


SIDE GUIDING PROFILE

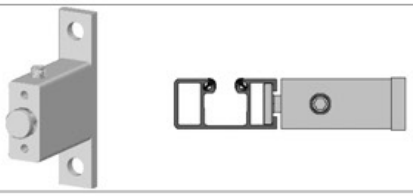


INTERMEDIATE GUIDING

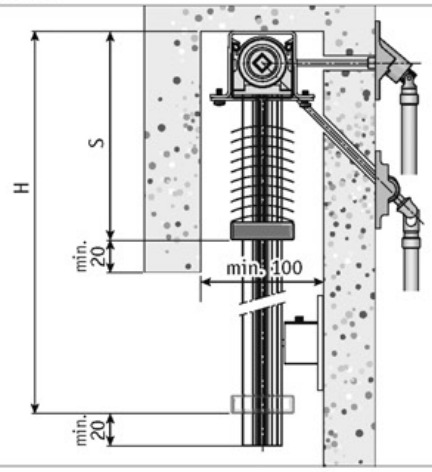
For blind widths over 2.5 m.



SIDE TRACK BRACKETS



SIDE VIEW



SIZE LIMITATIONS

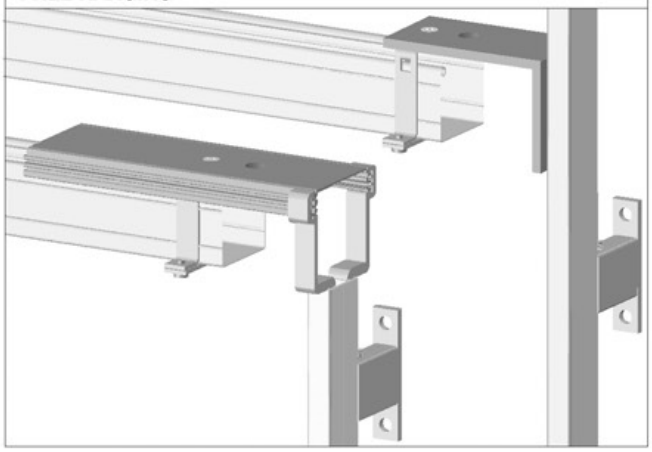
		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	K 60 ASK	50	500	400	12
	K 60 ASKF	50	300	400	12
Group	K 60 ASK		1000	400	12
	K 60 ASKF		1000	400	12

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S 60ASK	Stacking height S 60ASKF	Blind height H	Stacking height S 60ASK	Stacking height S 60ASKF
1000	173	132	3000	330	215
1500	212	154	3500	370	232
2000	250	175	4000	410	246
2500	287	195			

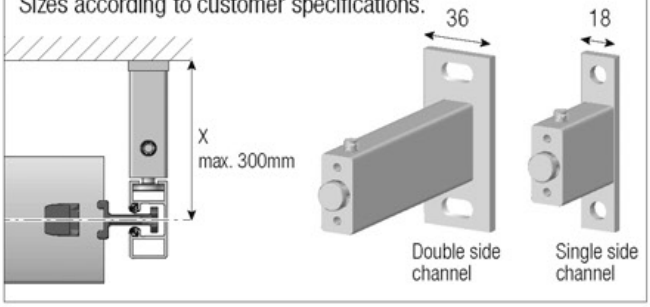
OPTIONS K60ASK, K60ASKF

FREE HANGING

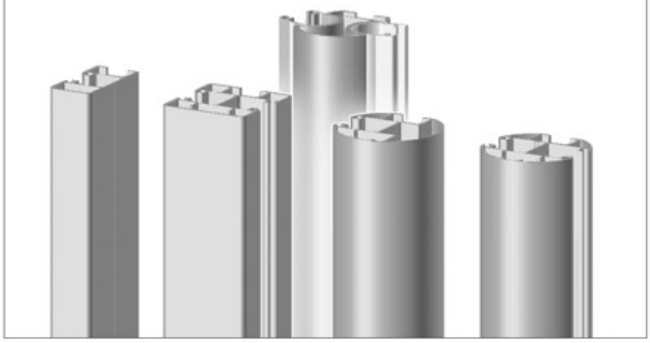


SIDE TRACK BRACKETS

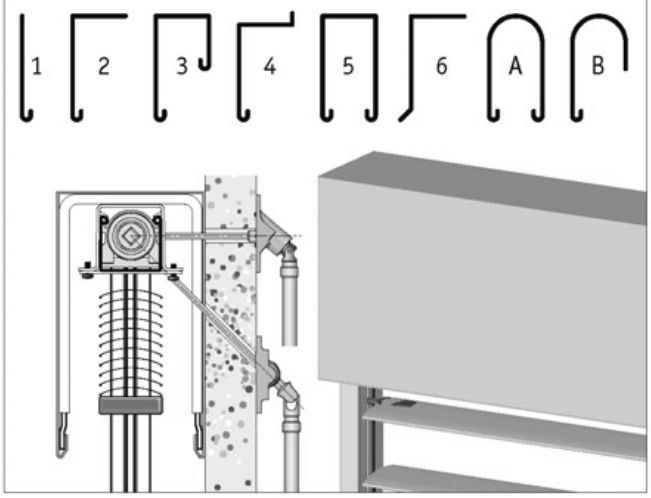
Sizes according to customer specifications.



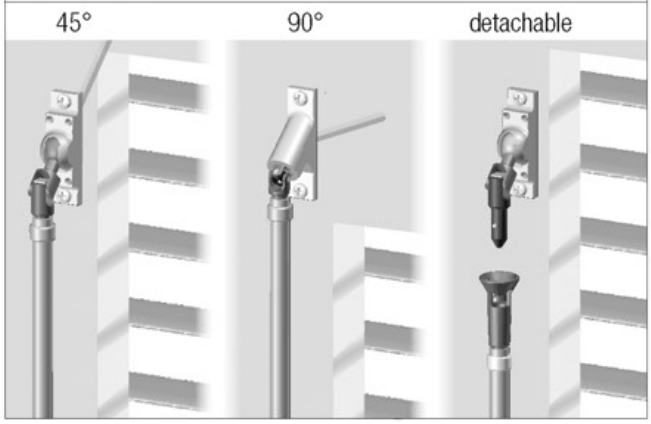
SIDE TRACKS



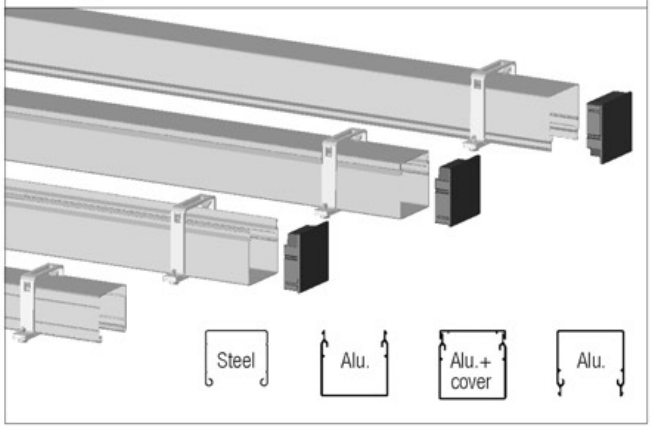
PELMET



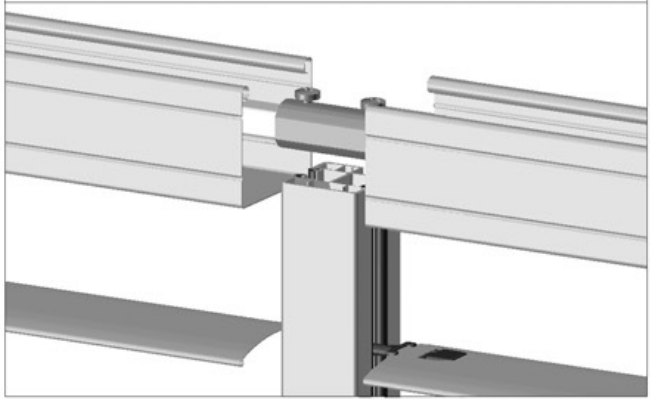
CRANK WAND



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Spindle stop
- Perforated slats
- Additional guiding cable(s)

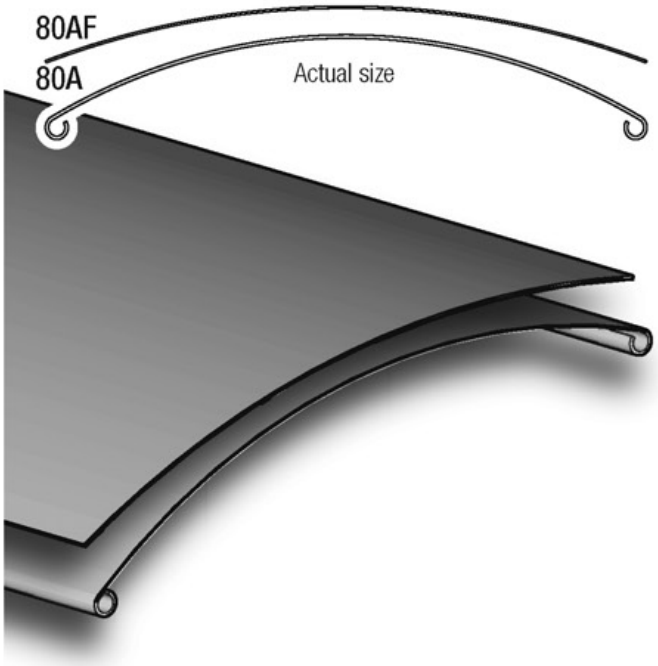
EVB EL80A, EL80AF

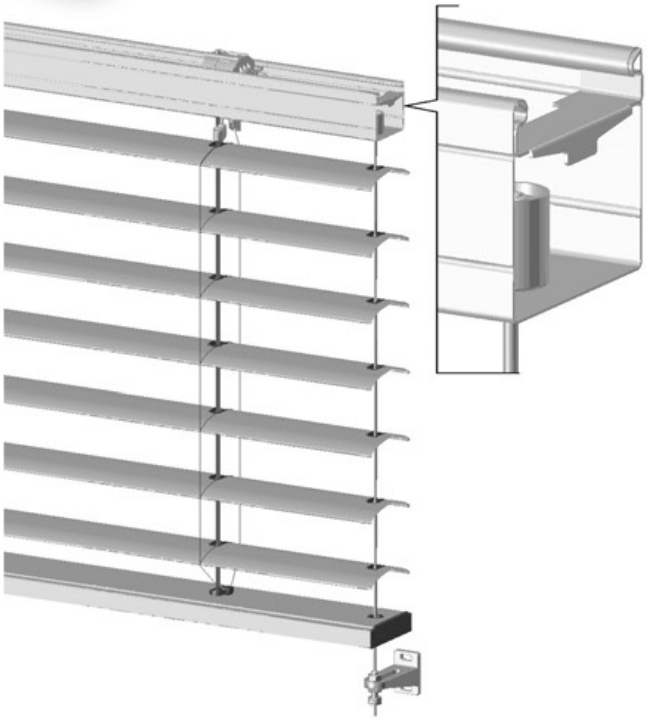
MOTOR OPERATED EXTERNAL VENETIAN BLIND
80 MM SLATS WITH SIDE GUIDING CABLES

EL80A : beaded 80 mm slats
EL80AF : flexible 80 mm slats

Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Tensioned stainless steel cable ø 3 mm with transparent Nylon jacket
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

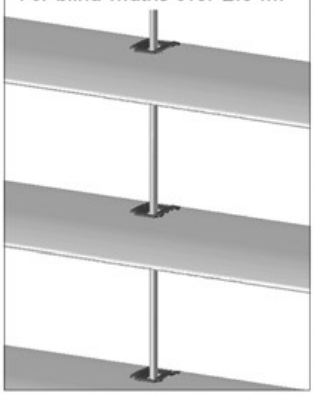




CABLE SIDE GUIDING

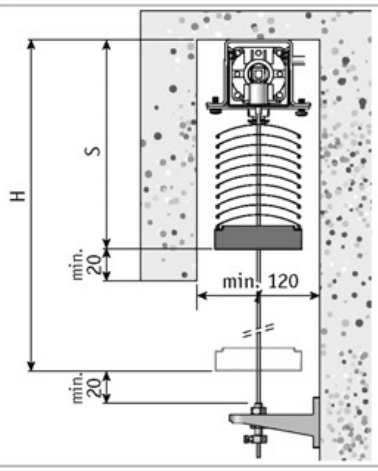
INTERMEDIATE GUIDING

For blind widths over 2.5 m.



GUIDE CABLE BRACKET

SIDE VIEW



SIZE LIMITATIONS

		width min. (cm)	width max. (cm)	height max. (cm)	surface max. (m²)
Single	EL 80 A	51	500	450	16
	EL 80 AF	51	500	400	16
Group	EL 80 A		1000	450	20
	EL 80 AF		1000	400	20

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height	Stacking height S 80A	Stacking height S 80AF	Blind height	Stacking height S 80A	Stacking height S 80AF	Blind height	Stacking height S 80A	Stacking height S 80AF
1000	173	133	2500	263	185	4000	354	222
1500	202	155	3000	294	197	4500	387	
2000	234	172	3500	324	210			

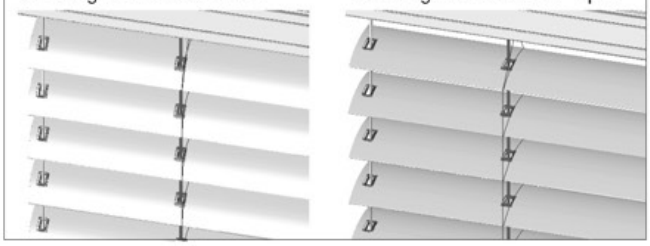
OPTIONS EL80A, EL80AF

INSERT

40° TIMER

Standard;
lowering with closed slats

40° Timer;
lowering with slats 40° open



GUIDE CABLE BRACKETS

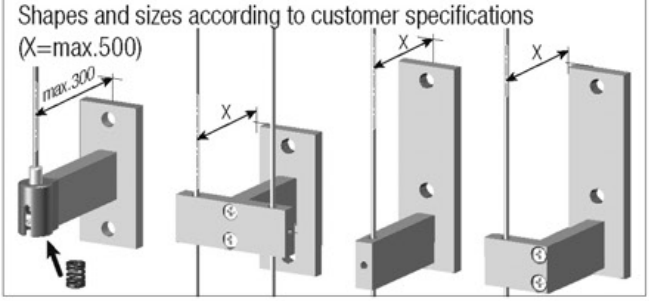
3 sizes (X, mm);

27 - 73
67 - 133
124 - 173

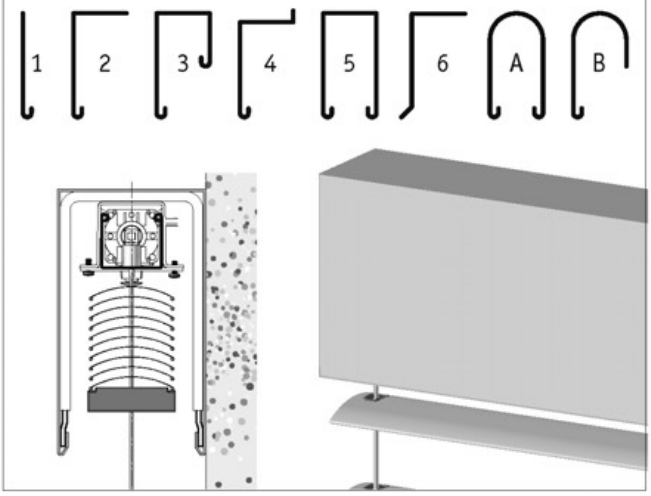
GUIDE CABLE BRACKETS, IDEFIX

HEAVY DUTY CABLE BRACKETS

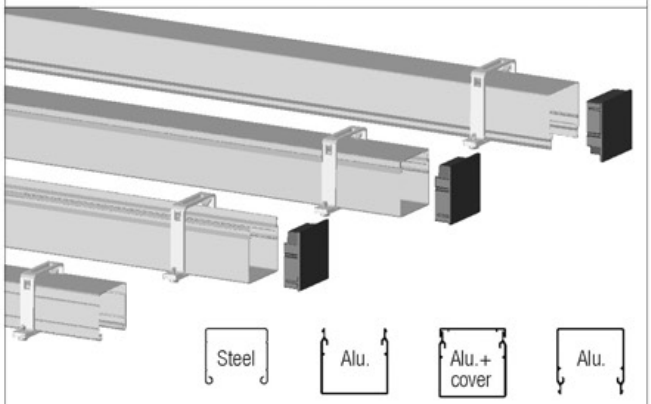
Shapes and sizes according to customer specifications
(X=max.500)



PELMET



HEAD RAIL



COUPLING

FURTHER OPTIONS (Additional information on page 73)

- Quick raise system for emergency situations (EL80AN, EL80AFN)
- Dual Light Control
- Slow motion motor for more precise slat tilting
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

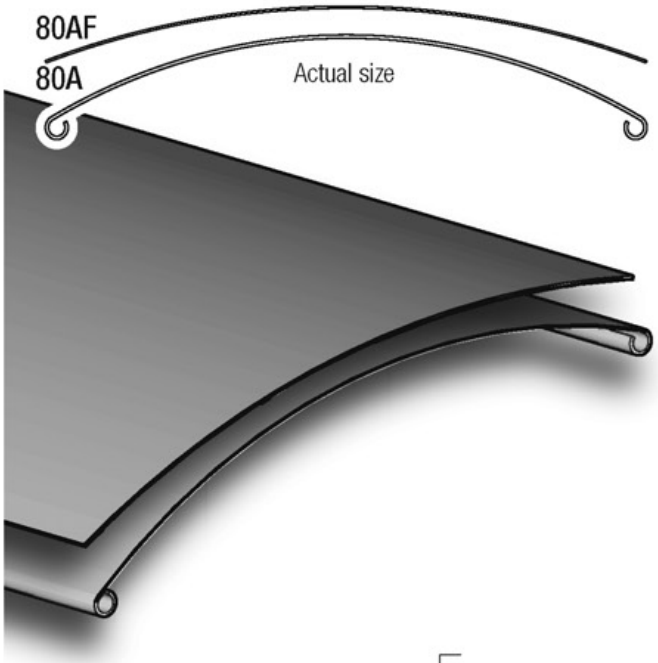
EVB K80A, K80AF

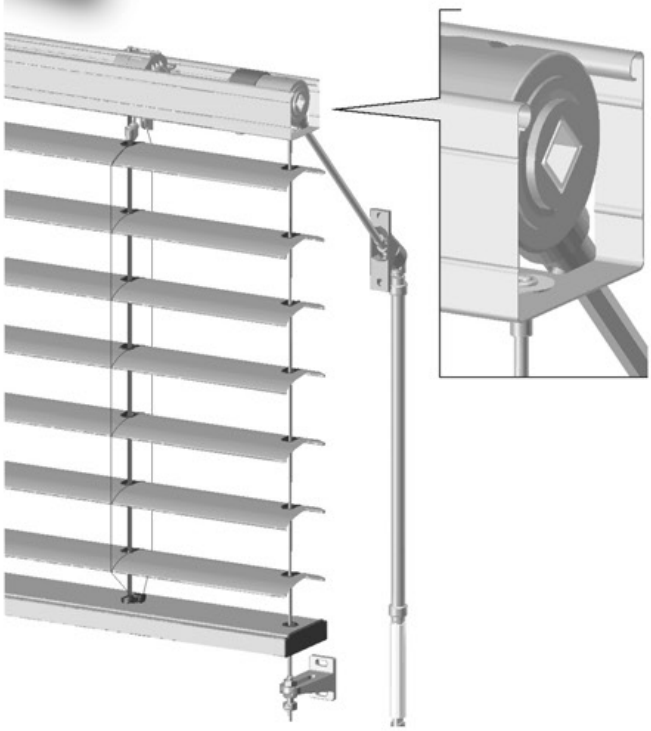
CRANK OPERATED EXTERNAL VENETIAN BLIND
80 MM SLATS WITH SIDE GUIDING CABLES

K80A : beaded 80 mm slats
K80AF : flexible 80 mm slats

Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Tensioned stainless steel cable Ø 3 mm with transparent Nylon jacket
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

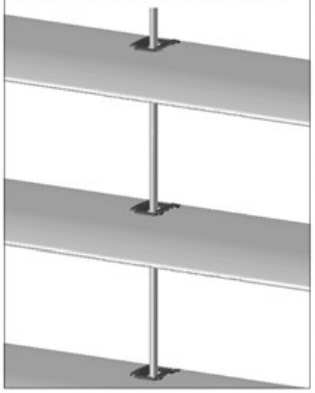




CABLE SIDE GUIDING

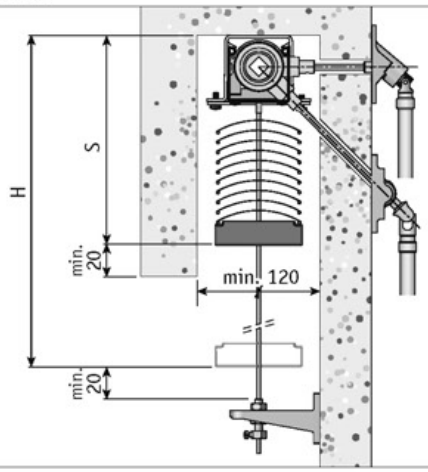
INTERMEDIATE GUIDING

For blind widths over 2.5 m.



GUIDE CABLE BRACKET

SIDE VIEW



SIZE LIMITATIONS

		width min. (cm)	width max. (cm)	height max. (cm)	surface max. (m²)
Single	K 80 A	45	500	450	12
	K 80 AF	45	500	400	12
Group	K 80 A		1000	450	12
	K 80 AF		1000	400	12

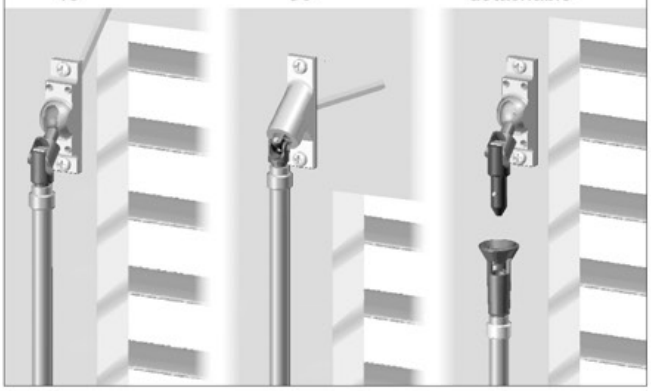
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height	Stacking height 80A	Stacking height 80AF	Blind height	Stacking height 80A	Stacking height 80AF	Blind height	Stacking height 80A	Stacking height 80AF
1000	163	123	2500	253	175	4000	344	212
1500	192	145	3000	284	187	4500	377	
2000	224	162	3500	314	200			

OPTIONS K80A, K80AF

CRANK WAND

45° 90° detachable



GUIDE CABLE BRACKETS

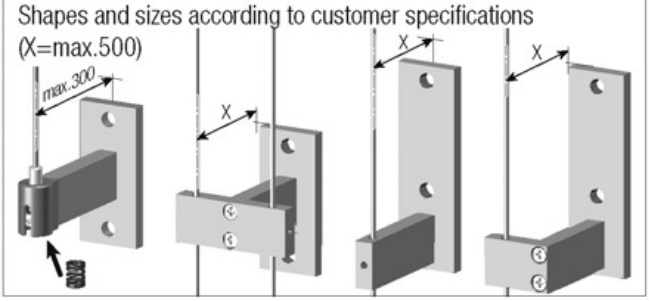
3 sizes (X, mm);

27	73
67	133
124	173

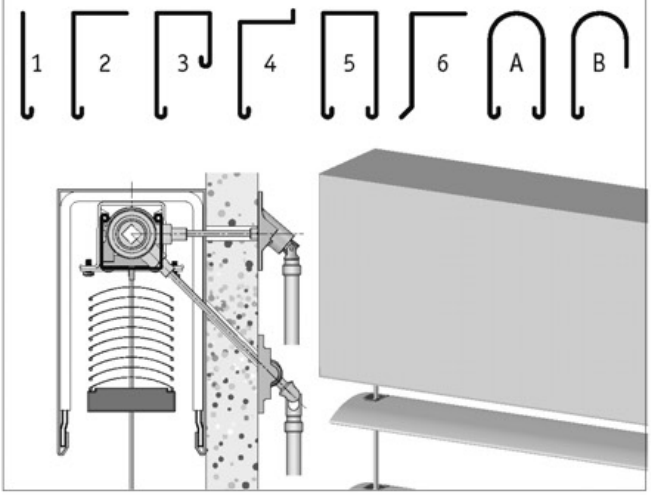
GUIDE CABLE BRACKETS, IDEFIX

HEAVY DUTY CABLE BRACKETS

Shapes and sizes according to customer specifications (X=max.500)



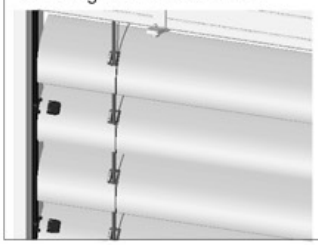
PELMET



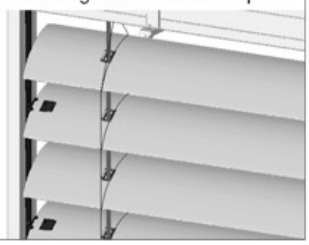
INSERT

40° TIMER

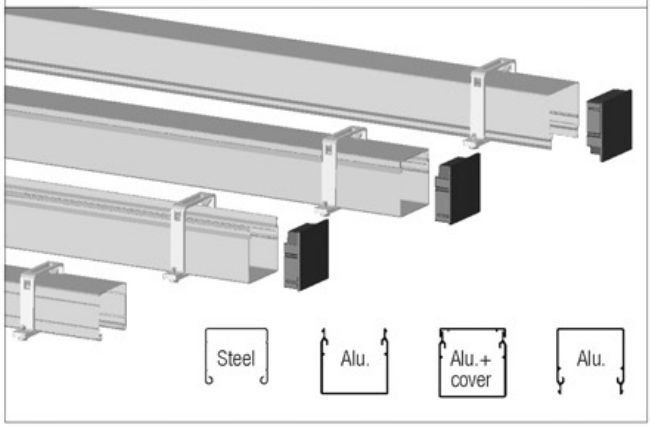
Standard;
lowering with closed slats



40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING

FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Dual Light Control
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Additional guiding cable(s)

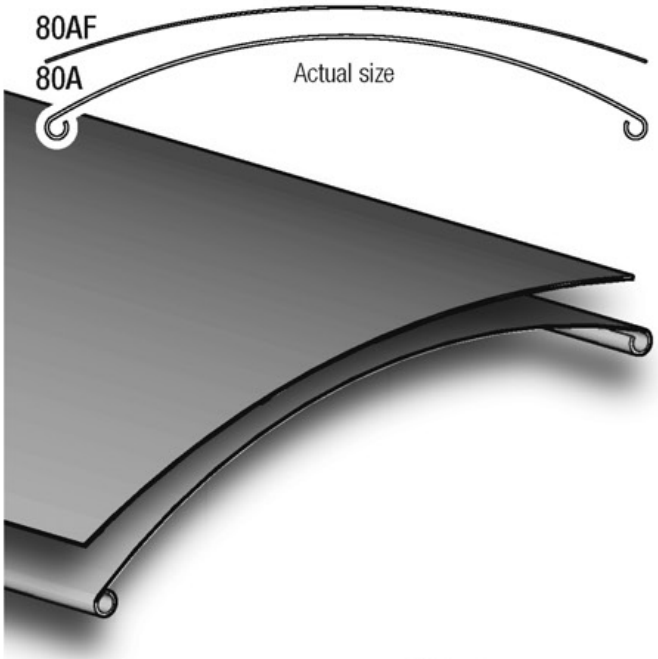
EVB EL80AS, EL80ASF

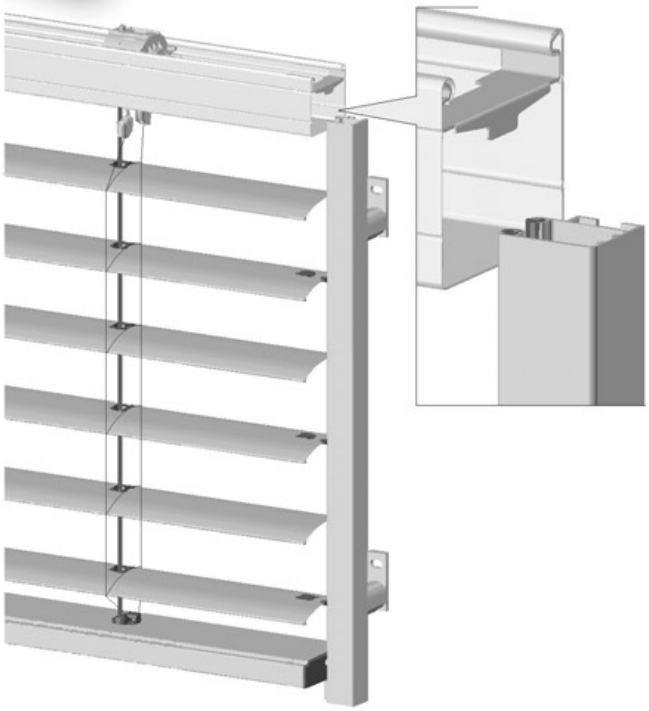
MOTOR OPERATED EXTERNAL VENETIAN BLIND
80 MM SLATS WITH STANDARD SIDE GUIDING CHANNELS

EL80AS : beaded 80 mm slats
EL80ASF : flexible 80 mm slats

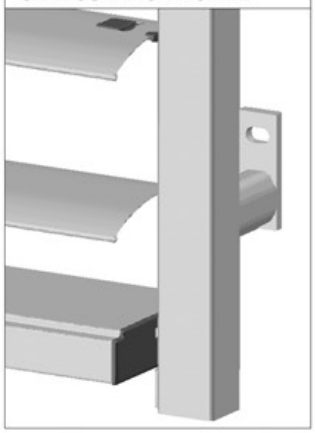
Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Extruded side guiding channels 27 x 24 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



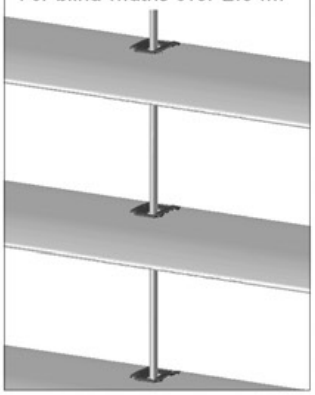


SIDE GUIDING PROFILE

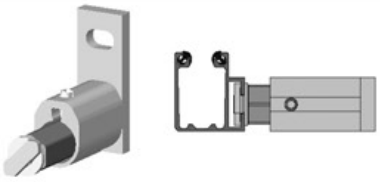


INTERMEDIATE GUIDING

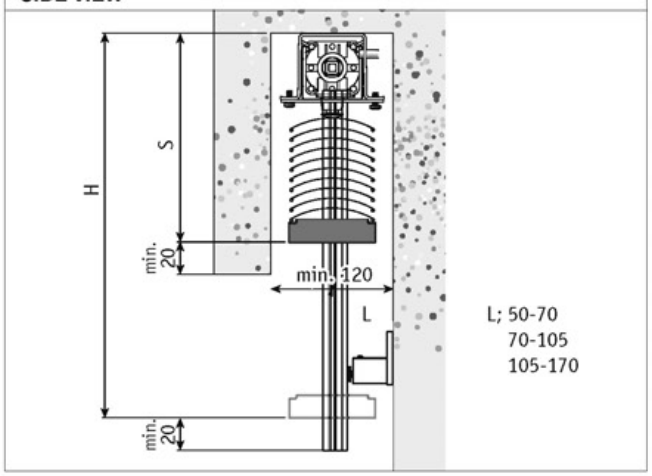
For blind widths over 2.5 m.



SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

		width min. (cm)	width max. (cm)	height max. (cm)	surface max. (m²)
Single	EL 80 AS	58	500	400	16
	EL 80 ASF	58	300	400	12
Group	EL 80 AS		1000	400	20
	EL 80 ASF		1000	400	20

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height	Stacking height 80AS	Stacking height 80ASF	Blind height	Stacking height 80AS	Stacking height 80ASF	Blind height	Stacking height 80AS	Stacking height 80ASF
1000	173	133	2500	263	185	4000	354	222
1500	202	155	3000	294	197	4500	387	
2000	234	172	3500	324	210			

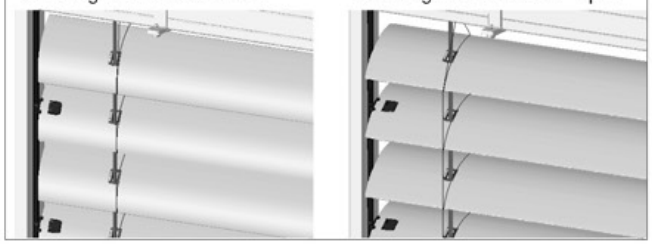
OPTIONS EL80AS, EL80ASF

INSERT

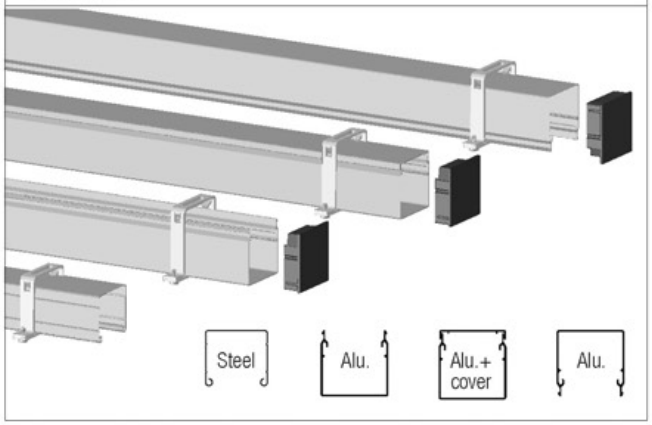
40° TIMER

Standard;
lowering with closed slats

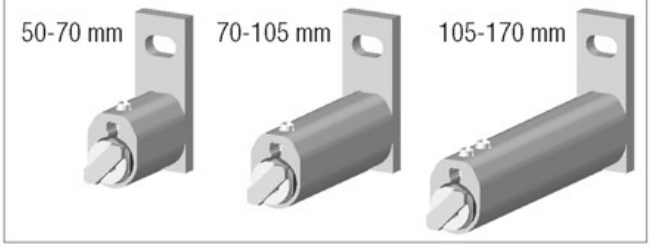
40° Timer;
lowering with slats 40° open



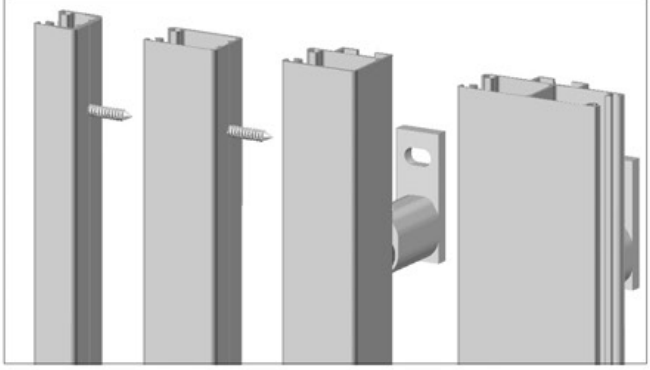
HEAD RAIL



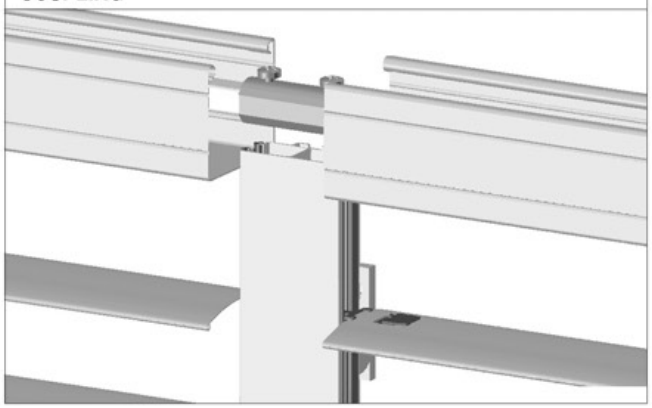
SIDE TRACK BRACKETS



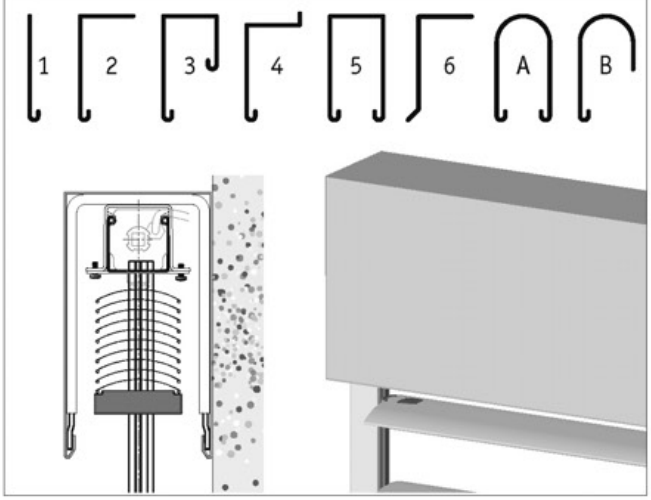
SIDE TRACKS



COUPLING



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Quick raise system for emergency situations (EL80ASN)
- Dual Light Control
- Slow motion motor for more precise slat tilting
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation
- Lockable bottomrail, to use in case of an emergency

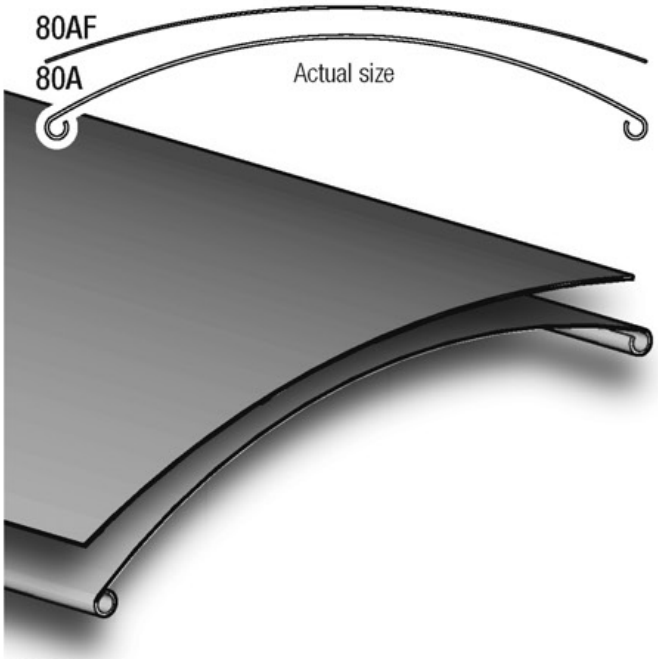
EVB K80AS, K80ASF

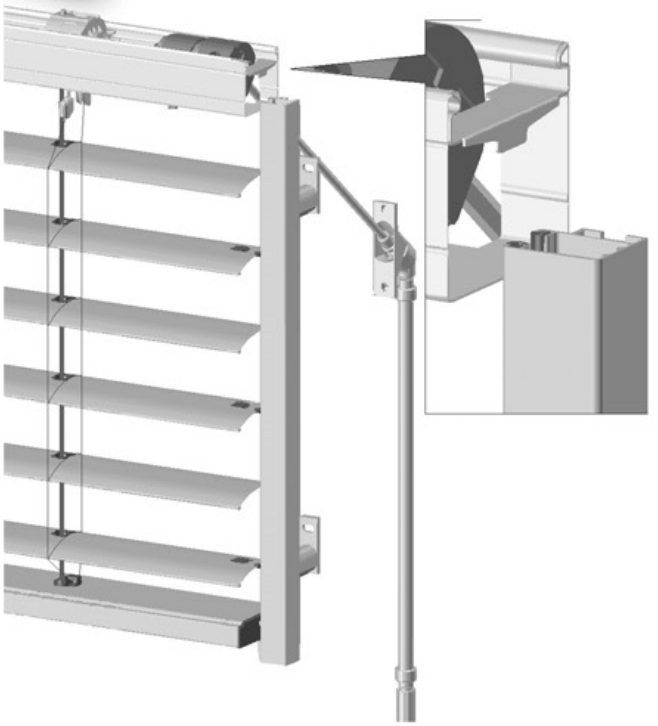
CRANK OPERATED EXTERNAL VENETIAN BLIND
80 MM SLATS WITH STANDARD SIDE GUIDING CHANNELS

K80AS : beaded 80 mm slats
K80ASF : flexible 80 mm slats

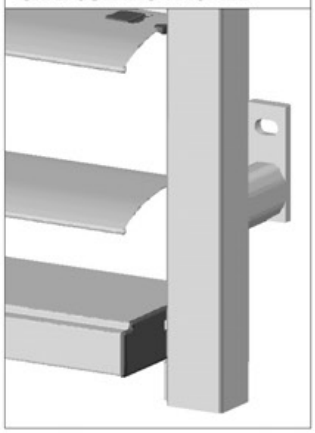
Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Extruded side guiding channels 27 x 24 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



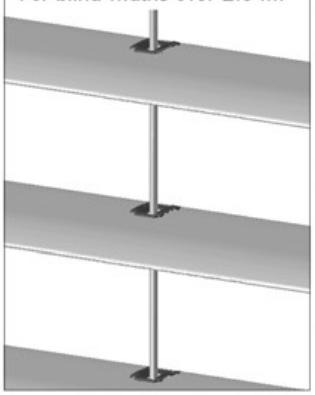


SIDE GUIDING PROFILE

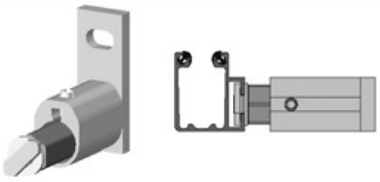


INTERMEDIATE GUIDING

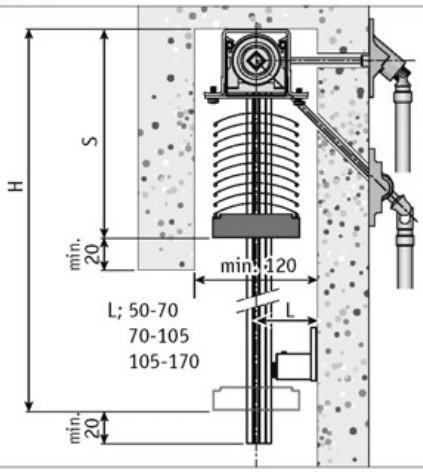
For blind widths over 2.5 m.



SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

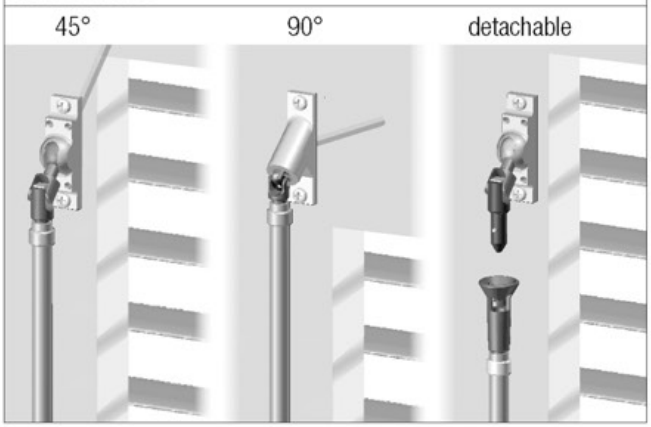
		width min. (cm)	width max. (cm)	height max. (cm)	surface max. (m²)
Single	K 80 AS	52	500	400	12
	K 80 ASF	52	300	400	12
Group	K 80 AS		1000	400	12
	K 80 ASF		1000	400	12

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height	Stacking height 80A	Stacking height 80AF	Blind height	Stacking height 80A	Stacking height 80AF	Blind height	Stacking height 80A	Stacking height 80AF
1000	163	123	2500	253	175	4000	344	212
1500	192	145	3000	284	187	4500	377	
2000	224	162	3500	314	200			

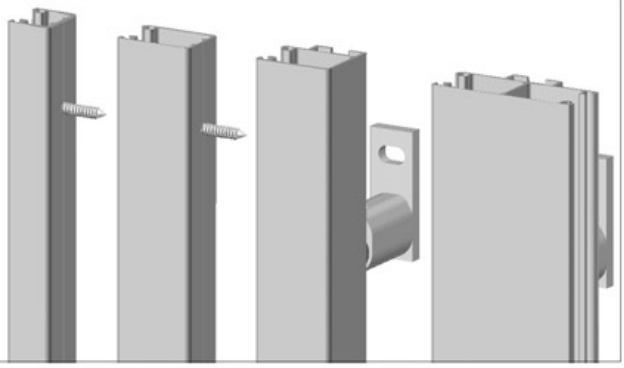
OPTIONS K80AS, K80ASF

CRANK WAND

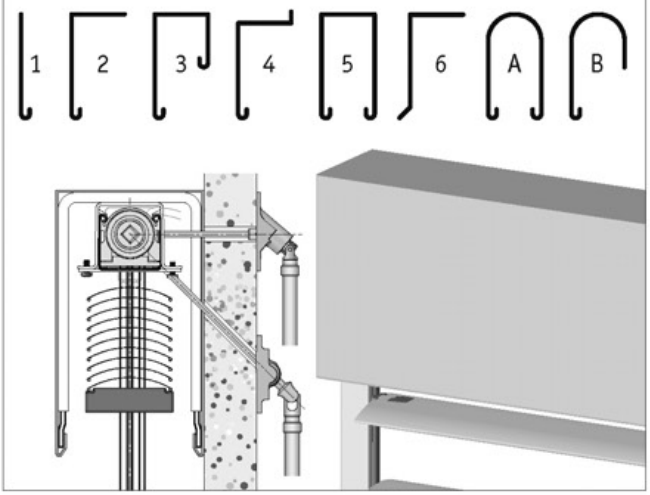


SIDE TRACK BRACKETS

SIDE TRACKS



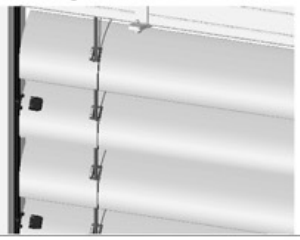
PELMET



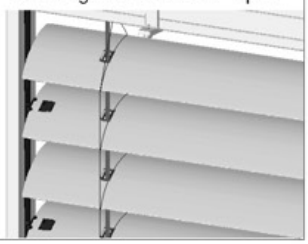
INSERT

40° TIMER

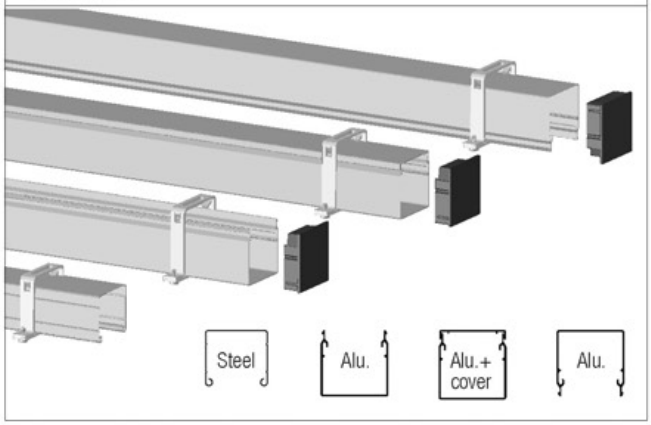
Standard;
lowering with closed slats



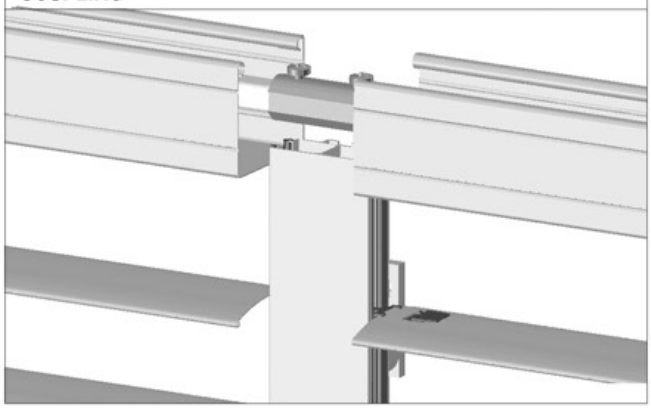
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Dual Light Control
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Additional guiding cable(s)
- Lockable bottomrail, to use in case of an emergency

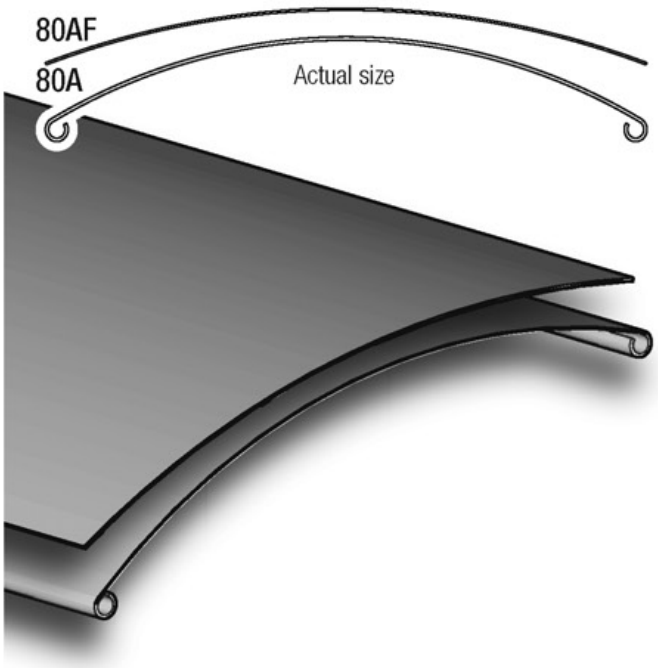
EVB EL80ASC, EL80ASCF

MOTOR OPERATED EXTERNAL VENETIAN BLIND "CLICK"
80 MM SLATS WITH CLIP-ON SIDE GUIDING CHANNELS

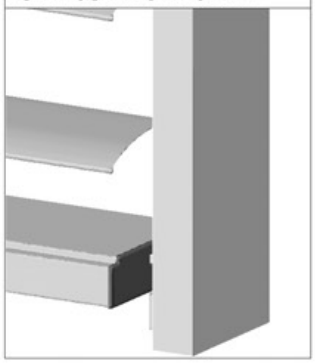
EL80ASC : beaded 80 mm slats
EL80ASCF : flexible 80 mm slats

Description

- Easy to mount "CLICK" blind pre-installed in customised natural anodised or powder coated aluminium pelmet
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Extruded side guiding channels 81 x 25 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

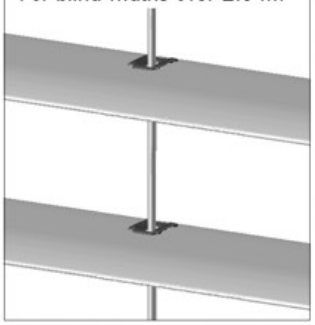


SIDE GUIDING PROFILE

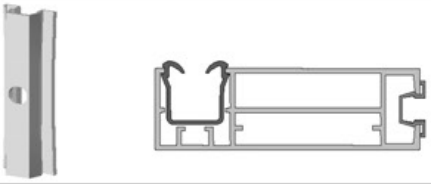


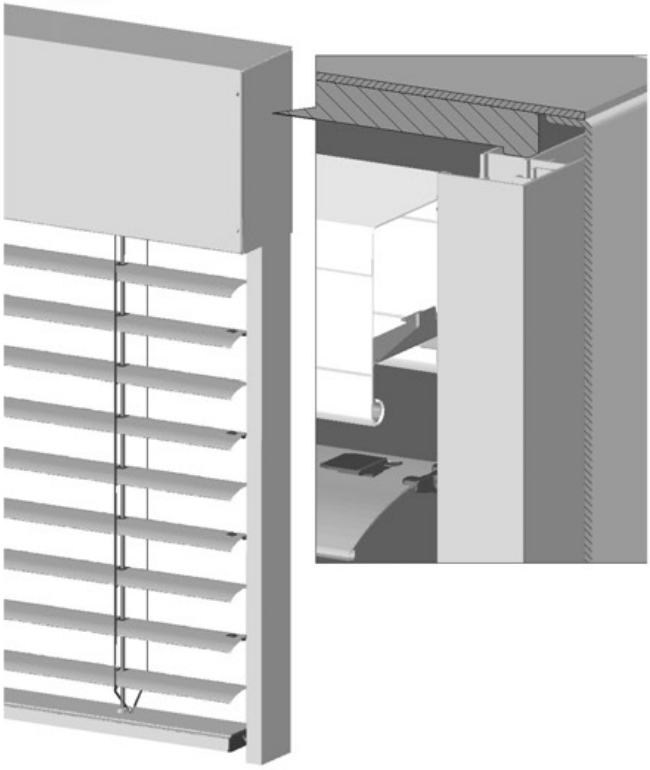
INTERMEDIATE GUIDING

For blind widths over 2.5 m.

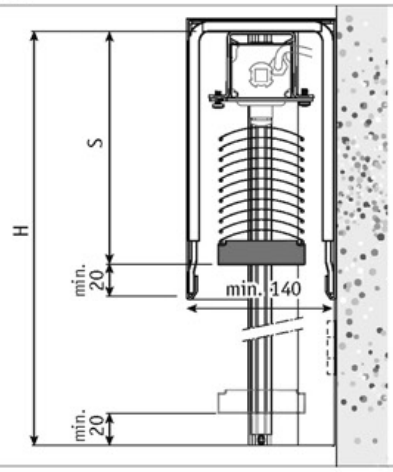


SIDE TRACK BRACKET





SIDE VIEW



SIZE LIMITATIONS

	Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
EL 80 ASC	78	350	400	12
EL 80 ASCF	78	350	400	12

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

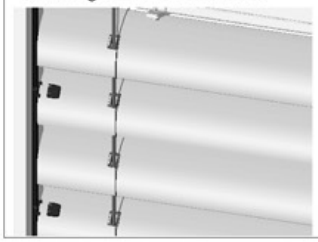
Blind height	Stacking height 80A	Stacking height 80AF	Blind height	Stacking height 80A	Stacking height 80AF	Blind height	Stacking height 80A	Stacking height 80AF
1000	183	143	2500	273	195	4000	364	232
1500	212	165	3000	304	207			
2000	244	182	3500	334	220			

OPTIONS EL80ASC, EL80ASCF

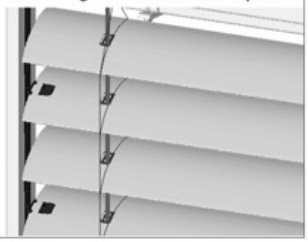
INSERT

40° TIMER

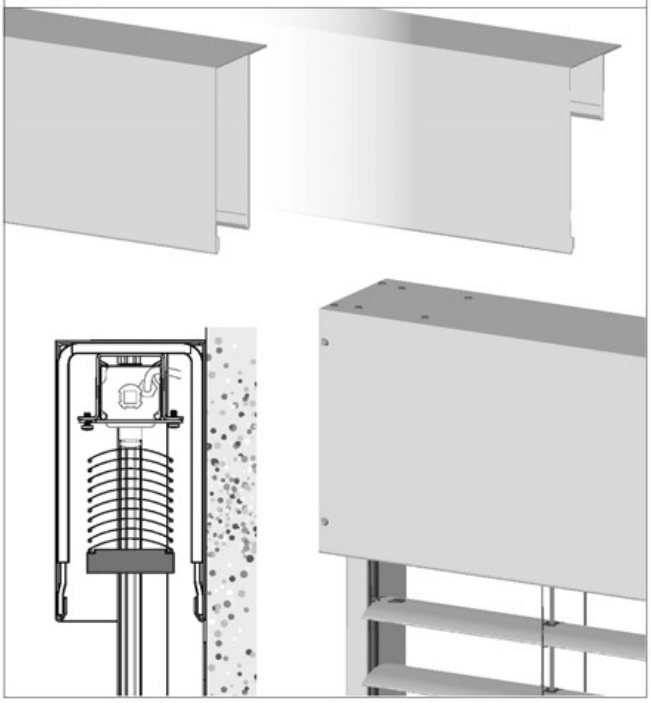
Standard;
lowering with closed slats



40° Timer;
lowering with slats 40° open



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

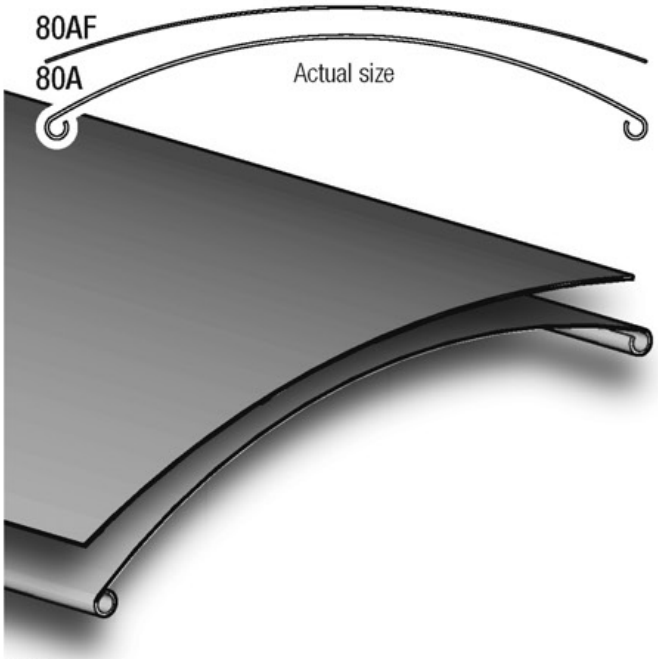
EVB EL80ASS, EL80ASSF

MOTOR OPERATED EXTERNAL VENETIAN BLIND
80 MM SLATS WITH PUSH-ON SIDE GUIDING CHANNELS

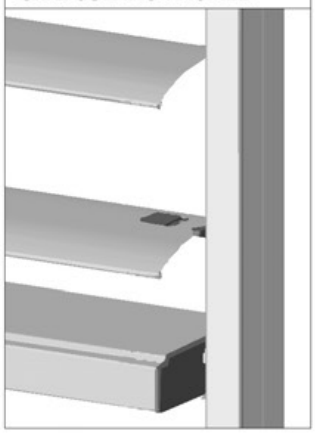
EL80ASS : beaded 80 mm slats
EL80ASSF : flexible 80 mm slats

Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

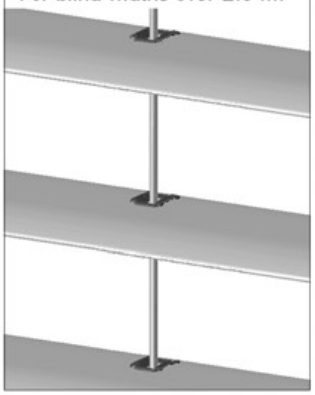


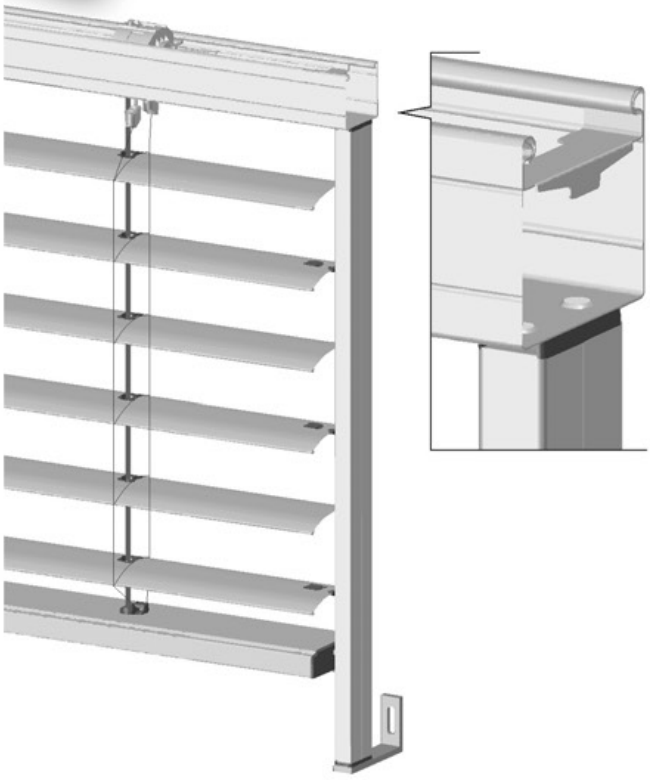
SIDE GUIDING PROFILE



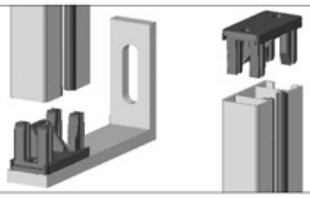
INTERMEDIATE GUIDING

For blind widths over 2.5 m.

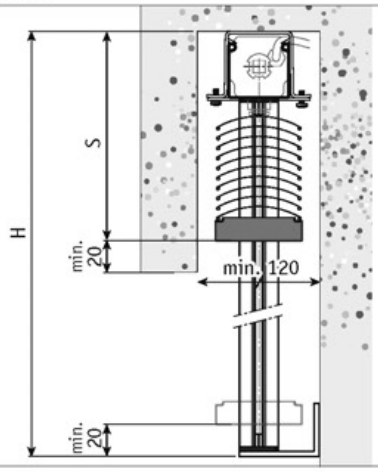




PUSH-ON BRACKET



SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 80 ASS	56	300	250	7
	EL 80 ASSF	56	300	250	7
Group	EL 80 ASS		1000	250	20
	EL 80 ASSF		1000	250	20

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

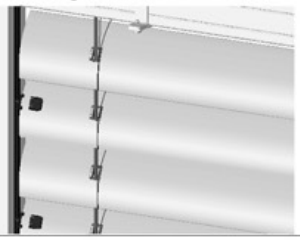
Blind height	Stacking height 80ASS	Stacking height 80ASSF	Blind height	Stacking height 80ASS	Stacking height 80ASSF
1000	173	133	2000	234	172
1500	202	155	2500	263	185

OPTIONS EL80ASS, EL80ASSF

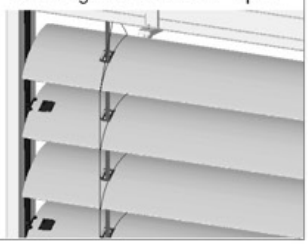
INSERT

40° TIMER

Standard;
lowering with closed slats

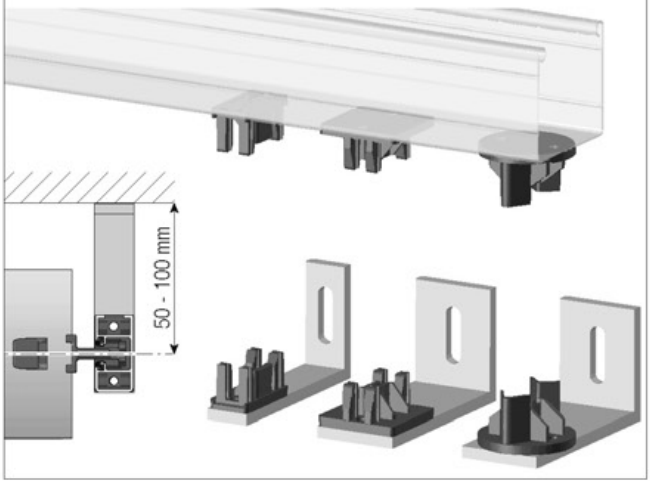


40° Timer;
lowering with slats 40° open

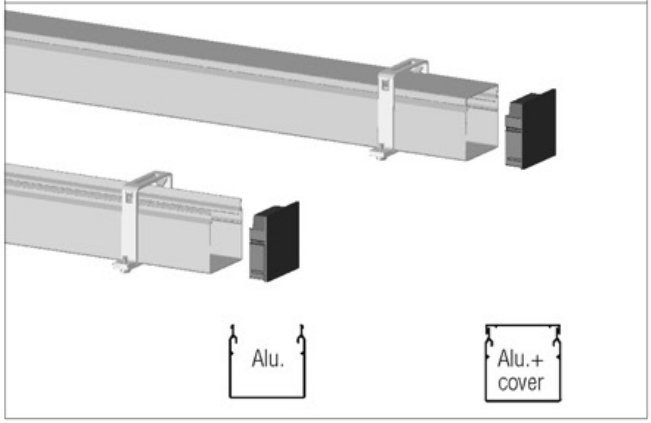


SIDE TRACK BRACKETS

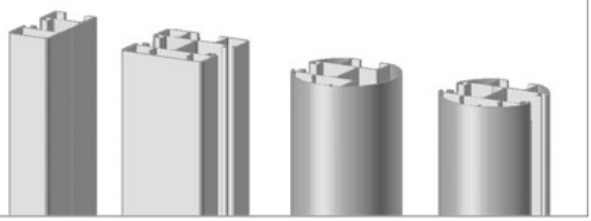
Length according to customer specifications.



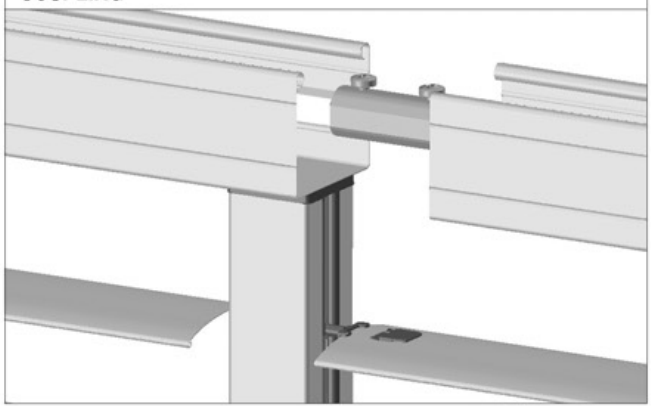
HEAD RAIL



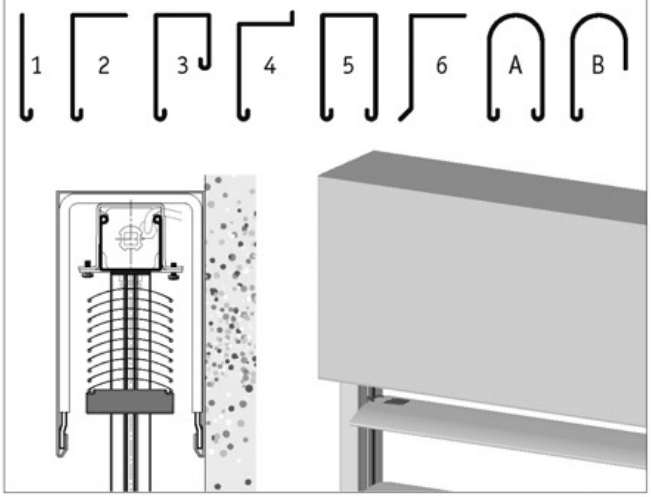
SIDE TRACKS



COUPLING



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Slow motion motor for more precise slat tilting
- Dual Light Control
- Head rail end caps in milky white
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

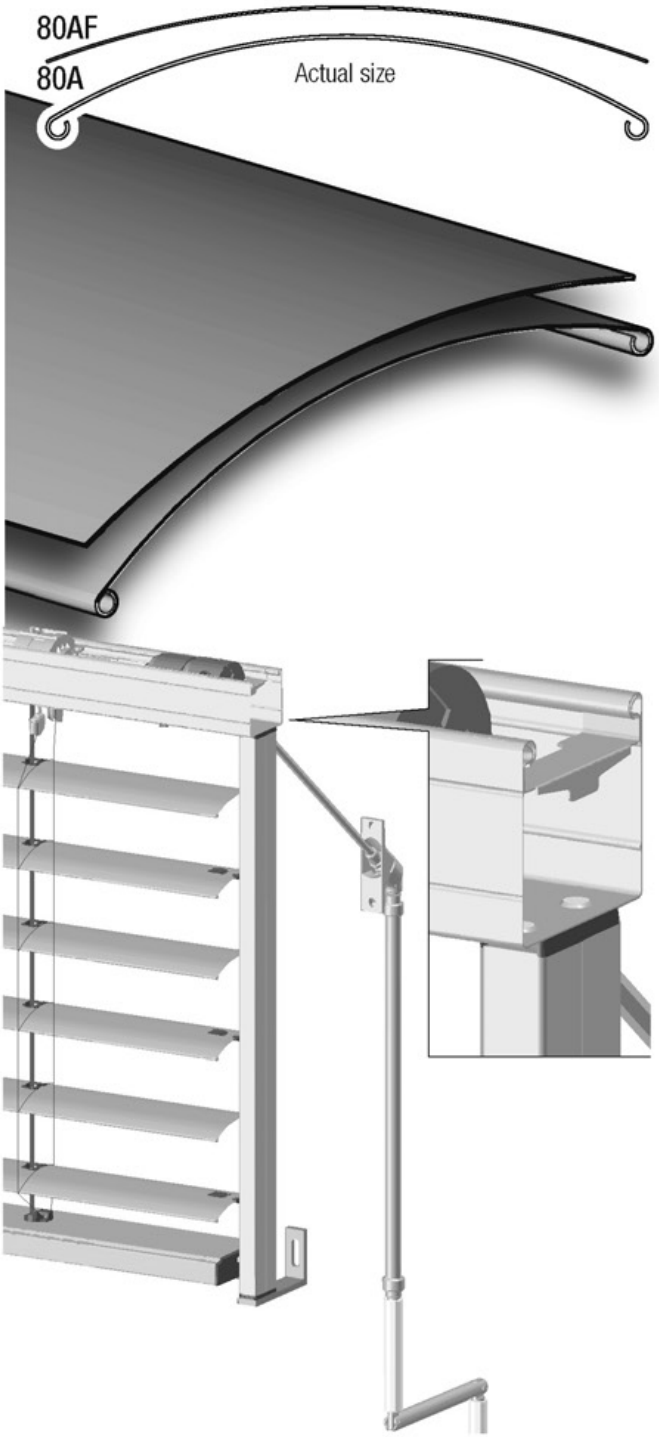
EVB K80ASS, K80ASSF

CRANK OPERATED EXTERNAL VENETIAN BLIND
80 MM SLATS WITH PUSH-ON SIDE GUIDING CHANNELS

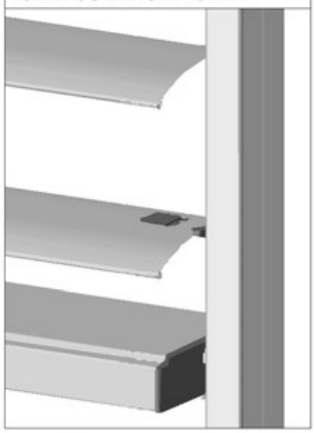
K80ASS : beaded 80 mm slats
K80ASSF : flexible 80 mm slats

Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

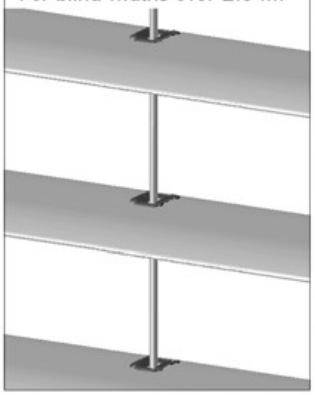


SIDE GUIDING PROFILE

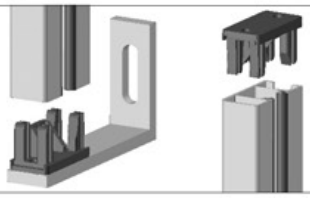


INTERMEDIATE GUIDING

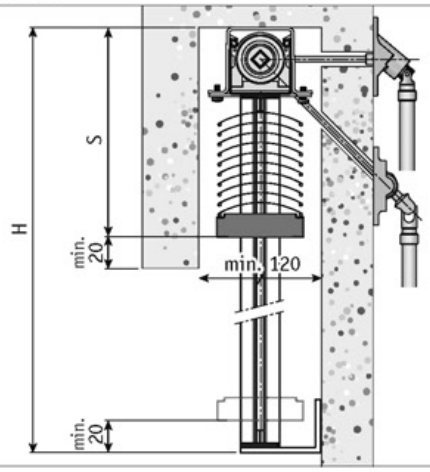
For blind widths over 2.5 m.



PUSH-ON BRACKET



SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	K 80 ASS	50	300	250	7
	K 80 ASSF	50	300	250	7
Group	K 80 ASS		1000	250	12
	K 80 ASSF		1000	250	12

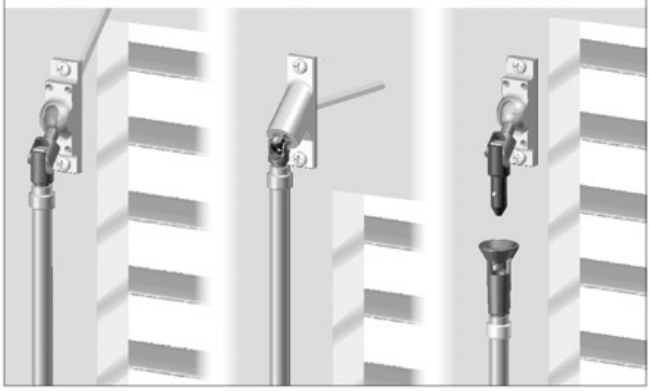
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height	Stacking height 80ASS	Stacking height 80ASSF	Blind height	Stacking height 80ASS	Stacking height 80ASSF
1000	163	123	2000	224	162
1500	192	145	2500	253	175

OPTIONS K80ASS, K80ASSF

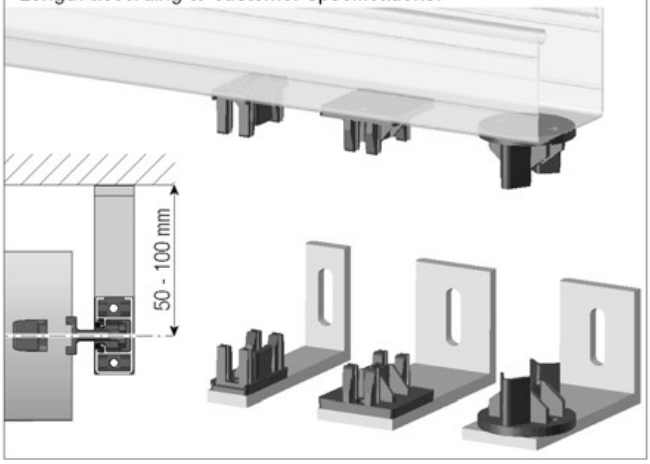
CRANK WAND

45° 90° detachable

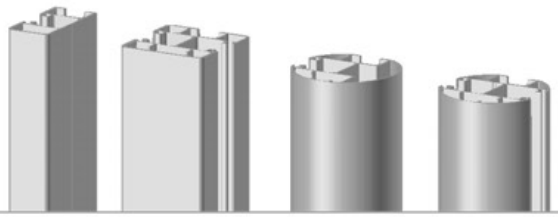


SIDE TRACK BRACKETS

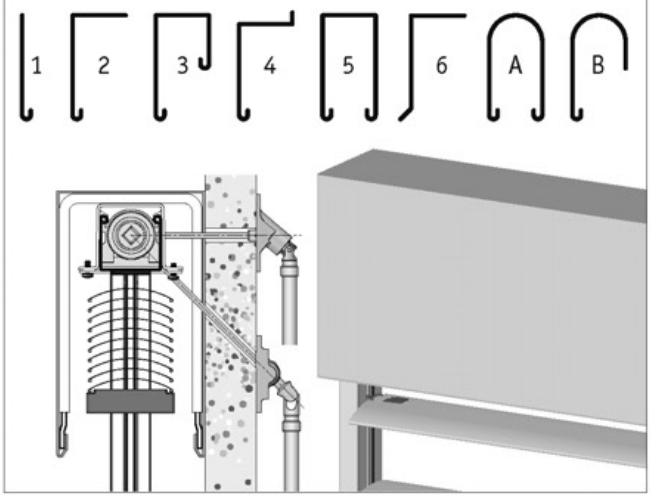
Length according to customer specifications.



SIDE TRACKS



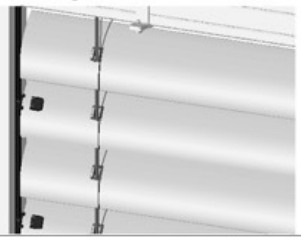
PELMET



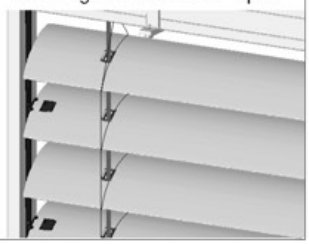
INSERT

40° TIMER

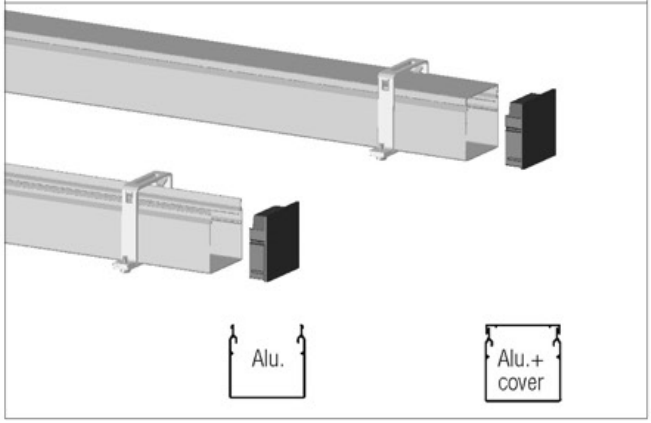
Standard;
lowering with closed slats



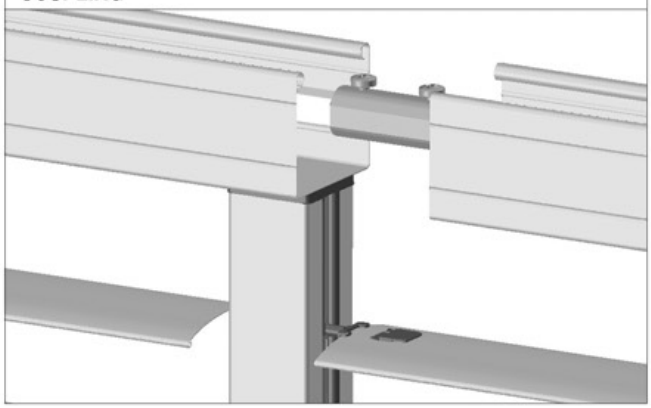
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Dual Light Control
- Head rail end caps in milky white
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Additional guiding cable(s)

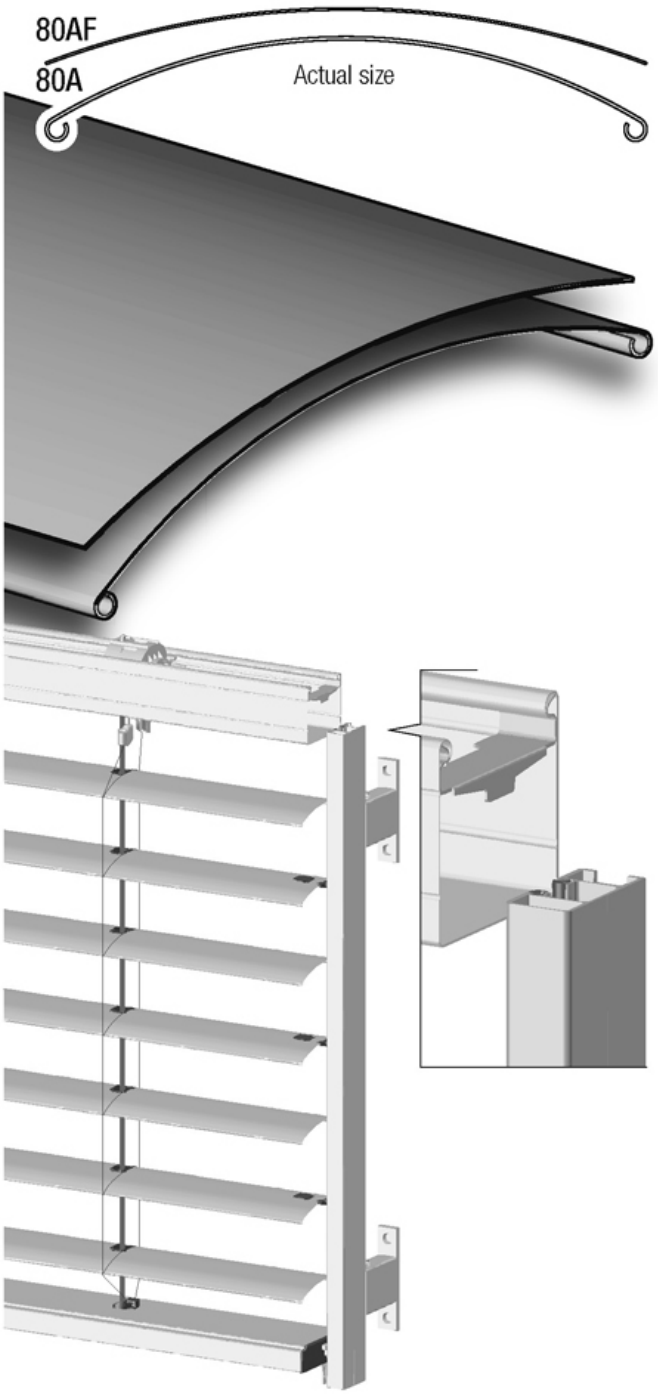
EVB EL80ASK, EL80ASKF

MOTOR OPERATED EXTERNAL VENETIAN BLIND
80 MM SLATS WITH CLAMP-ON SIDE GUIDING CHANNELS

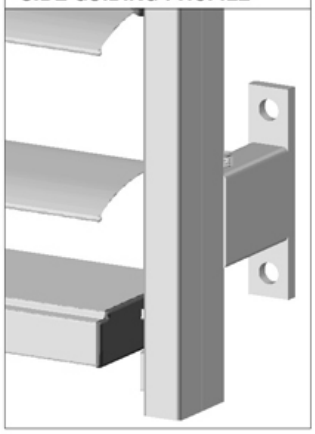
EL80ASK : beaded 80 mm slats
EL80ASKF : flexible 80 mm slats

Description

- Installation on or in between side tracks
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



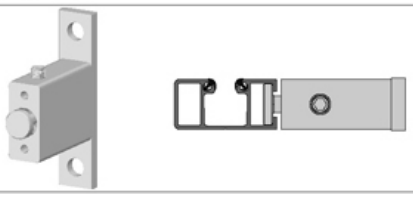
SIDE GUIDING PROFILE



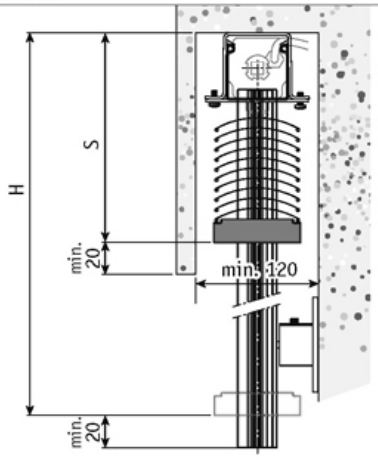
INTERMEDIATE GUIDING

For blind widths over 2.5 m.

SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

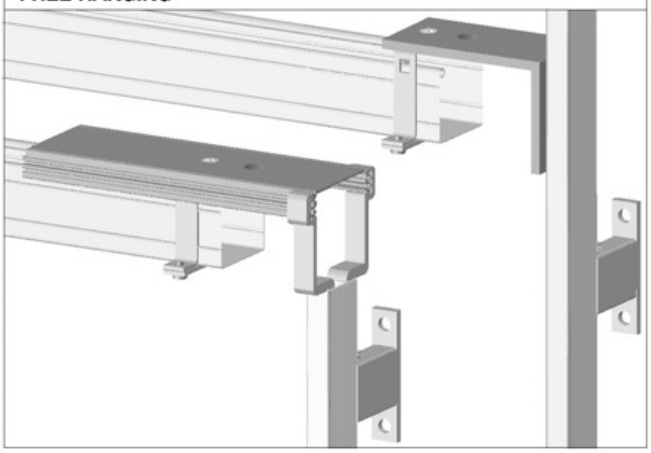
		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 80 ASK	56	500	400	16
	EL 80 ASKF	56	300	400	12
Group	EL 80 ASK		1000	400	20
	EL 80 ASKF		1000	400	20

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height	Stacking height 80ASK	Stacking height 80ASKF	Blind height	Stacking height 80ASK	Stacking height 80ASKF	Blind height	Stacking height 80ASK	Stacking height 80ASKF
1000	173	133	2500	173	133	4000	354	222
1500	202	155	3000	202	155			
2000	234	172	3500	234	172			

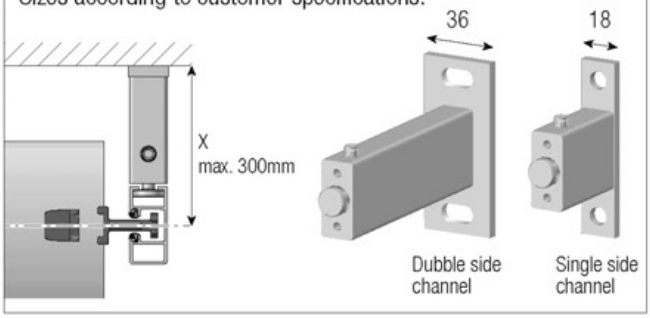
OPTIONS EL80ASK, EL80ASKF

FREE HANGING

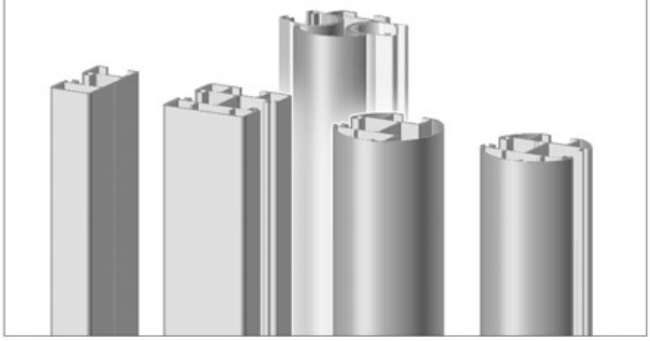


SIDE TRACK BRACKETS

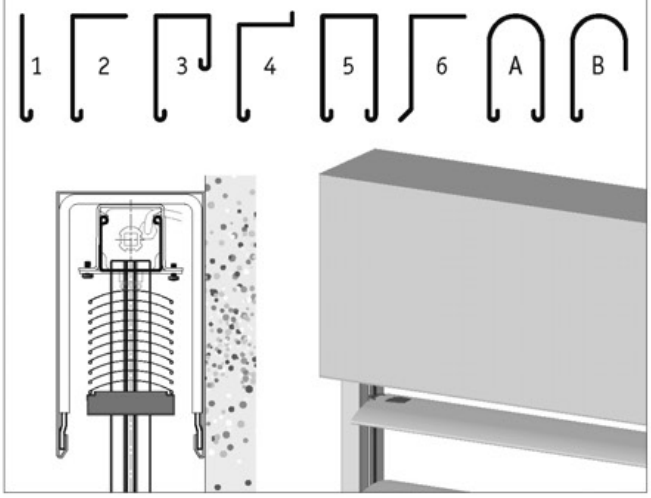
Sizes according to customer specifications.



SIDE TRACKS



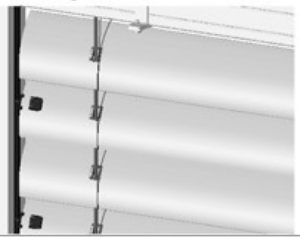
PELMET



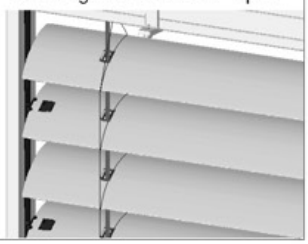
INSERT

40° TIMER

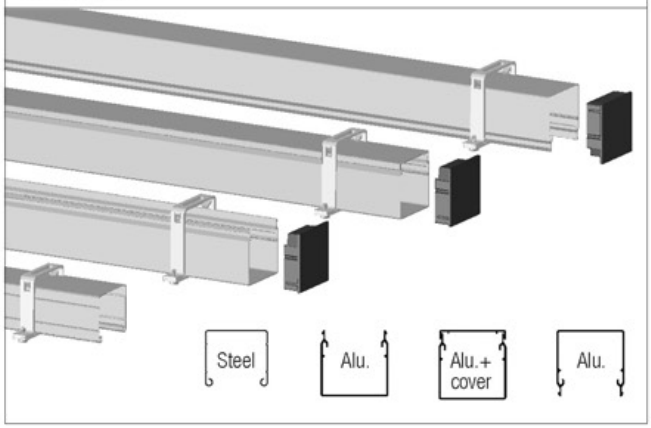
Standard;
lowering with closed slats



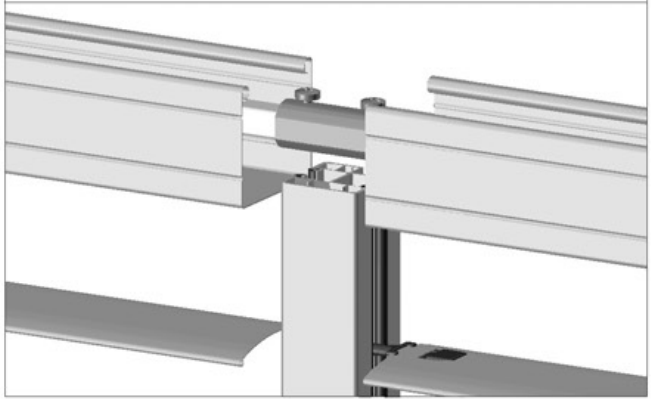
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Quick raise system for emergency situations (EL80ASKN)
- Dual Light Control
- Slow motion motor for more precise slat tilting
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

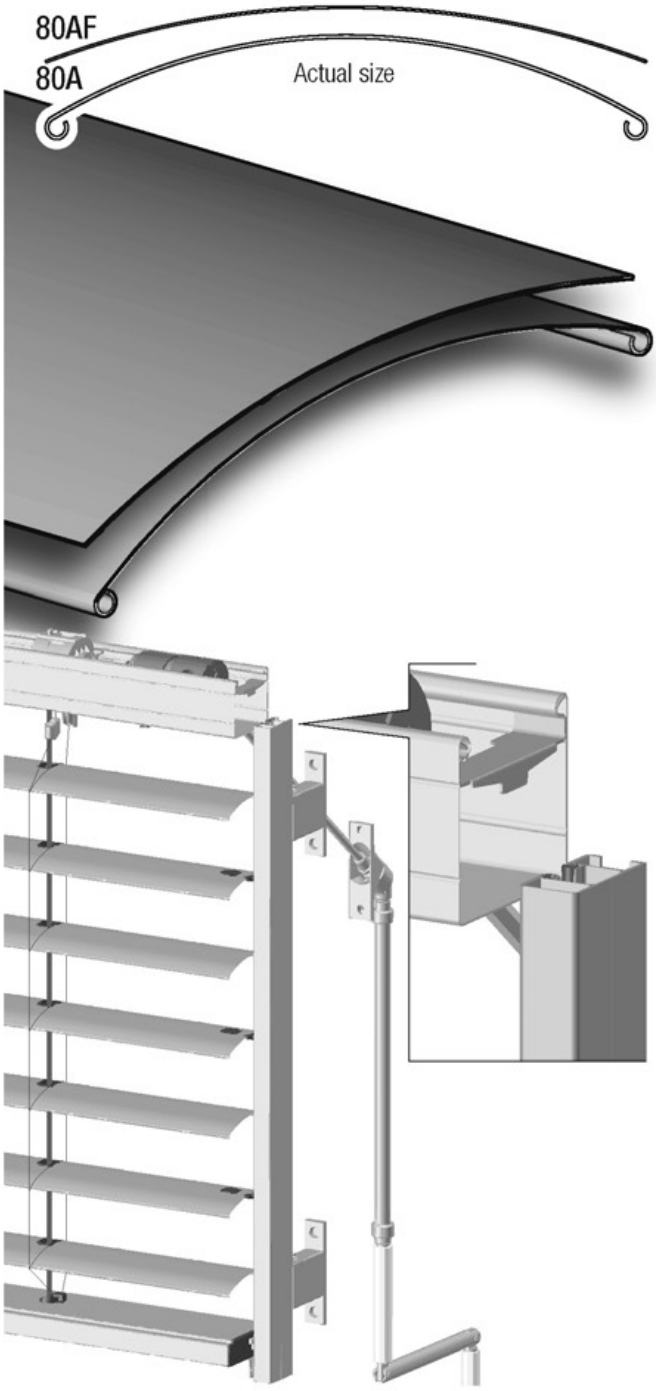
EVB K80ASK, K80ASKF

CRANK OPERATED EXTERNAL VENETIAN BLIND
80 MM SLATS WITH CLAMP-ON SIDE GUIDING CHANNELS

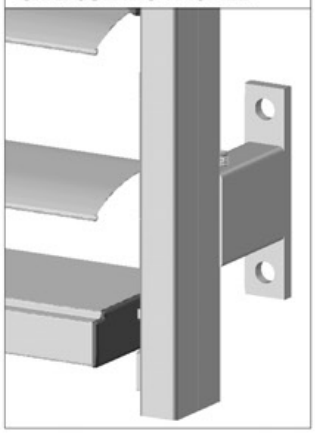
K80ASK : beaded 80 mm slats
K80ASKF : flexible 80 mm slats

Description

- Installation on or in between side tracks
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

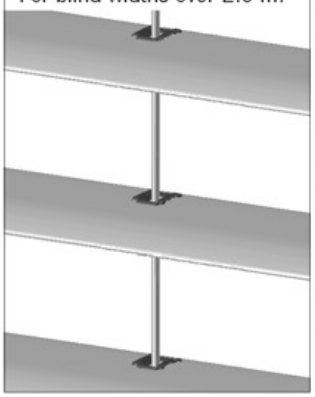


SIDE GUIDING PROFILE

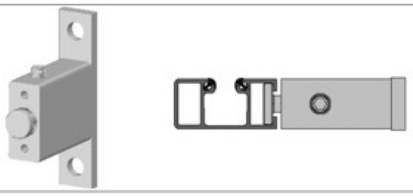


INTERMEDIATE GUIDING

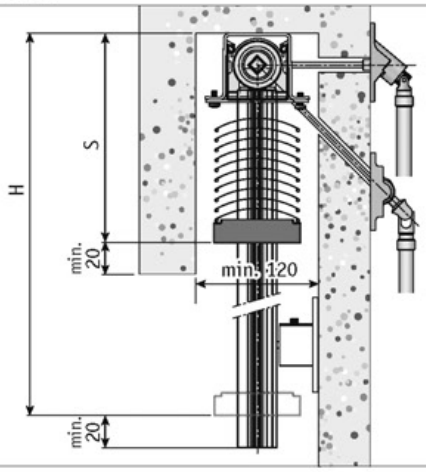
For blind widths over 2.5 m.



SIDE TRACK BRACKETS



SIDE VIEW



SIZE LIMITATIONS

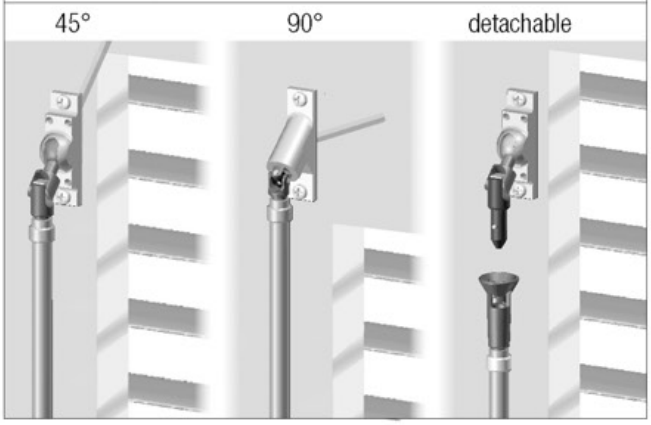
		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	K 80 ASK	50	500	400	12
	K 80 ASKF	50	300	400	12
Group	K 80 ASK		1000	400	12
	K 80 ASKF		1000	400	12

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height	Stacking height 80ASK	Stacking height 80ASKF	Blind height	Stacking height 80ASK	Stacking height 80ASKF	Blind height	Stacking height 80ASK	Stacking height 80ASKF
1000	163	123	2500	253	175	4000	344	212
1500	192	145	3000	284	187			
2000	224	162	3500	314	200			

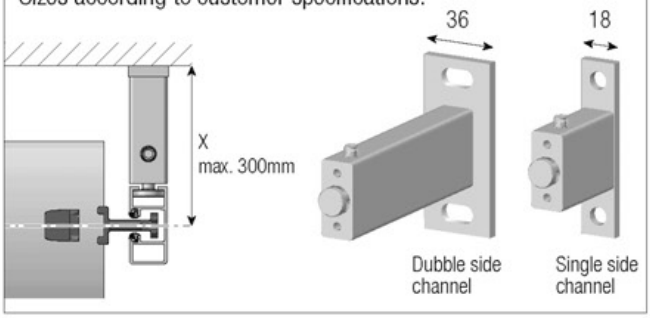
OPTIONS K80ASK, K80ASKF

CRANK WAND

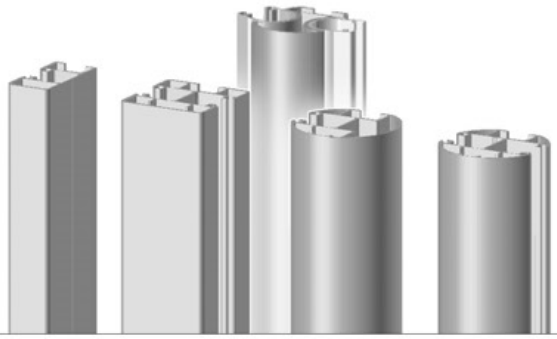


SIDE TRACK BRACKETS

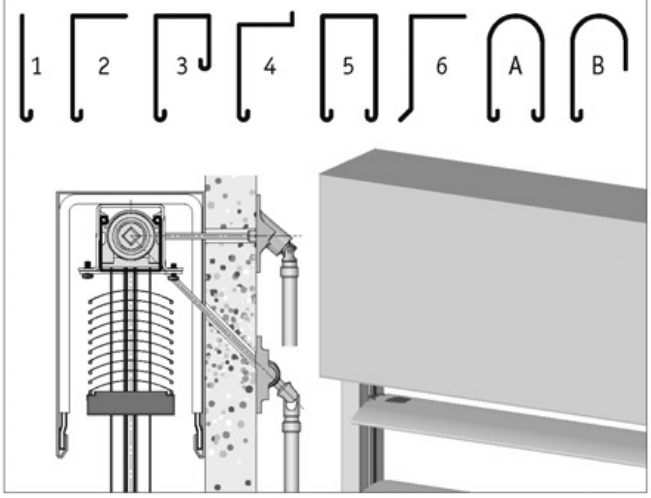
Sizes according to customer specifications.



SIDE TRACKS



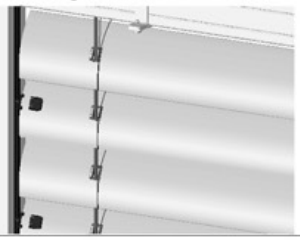
PELMET



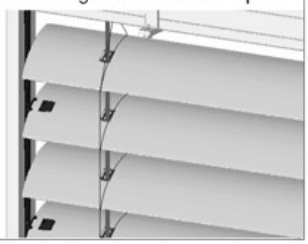
INSERT

40° TIMER

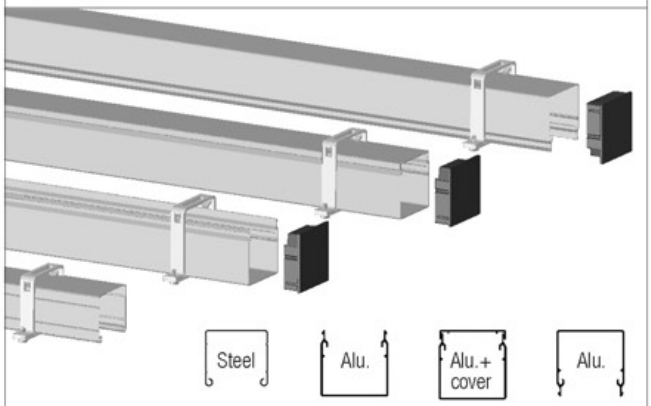
Standard;
lowering with closed slats



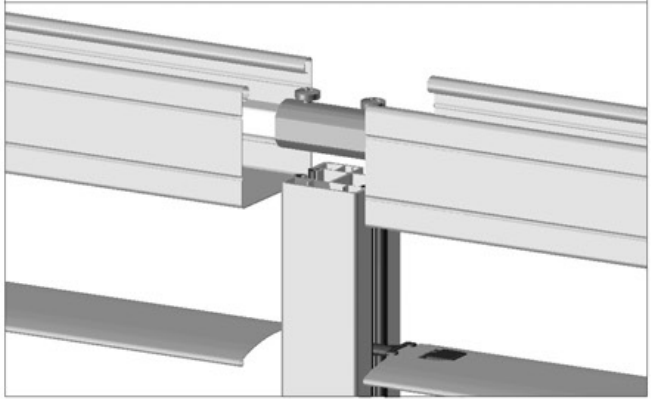
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Dual Light Control
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Additional guiding cable(s)

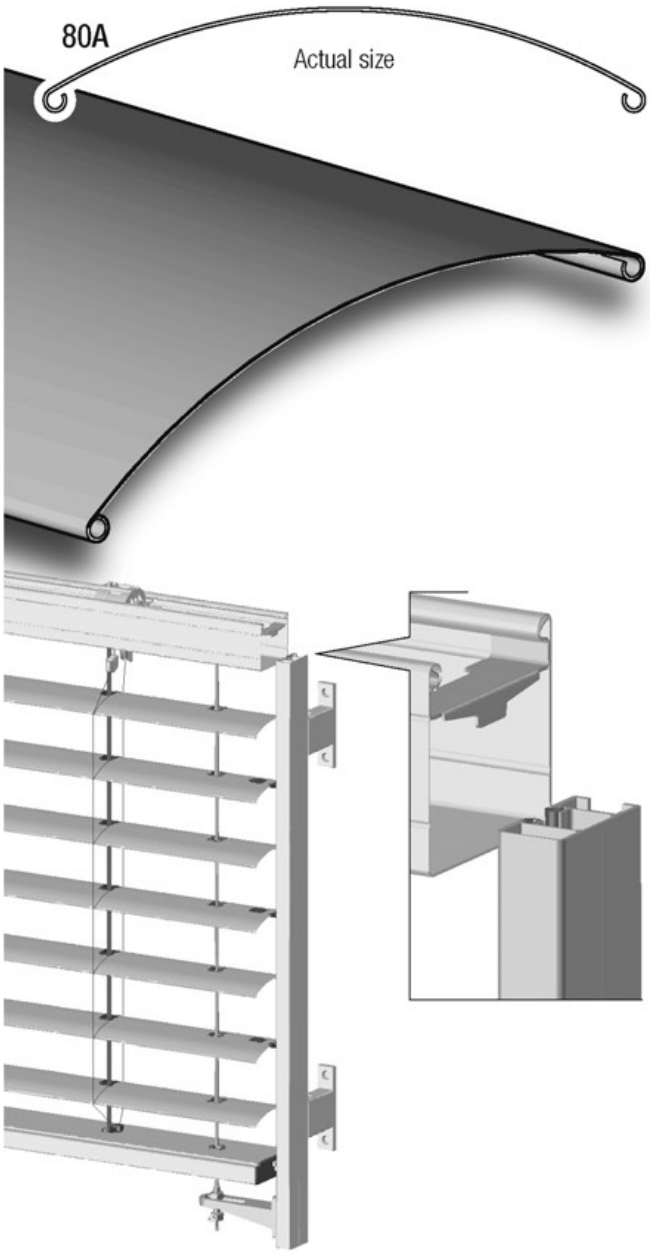
EVB EL80ASKW

MOTOR OPERATED EXTERNAL VENETIAN BLIND WINDSTABLE 80 MM SLATS WITH CLAMP-ON SIDE GUIDING CHANNELS

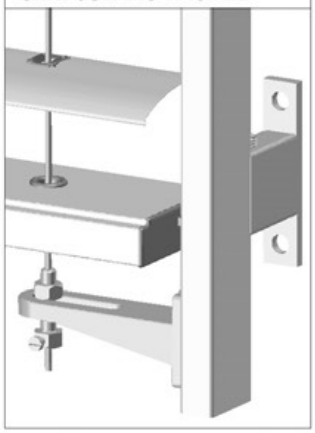
EL80ASK : beaded 80 mm slats

Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 45° open
- Roll formed coil coated 80 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 80 x 22 mm
- Extruded side guiding channels 18 x 37 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable
  - Additional side guiding cables at 90 mm from backside side guiding
  - Intermediate guiding cable above product width of 1300 mm
  - Maximum distance to façade: 100 mm



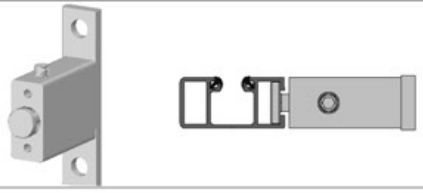
SIDE GUIDING PROFILE



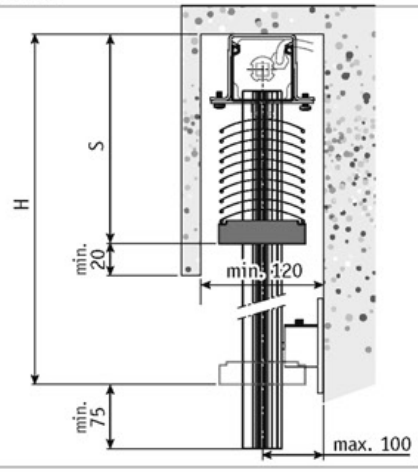
INTERMEDIATE GUIDING

For blind widths over 1.3 m.

SIDE TRACK BRACKET



SIDE VIEW



WIND LOAD LIMITS

Blind width (cm)	Wind load limit (m/s)
130	22
200	20
300	18

SIZE LIMITATIONS

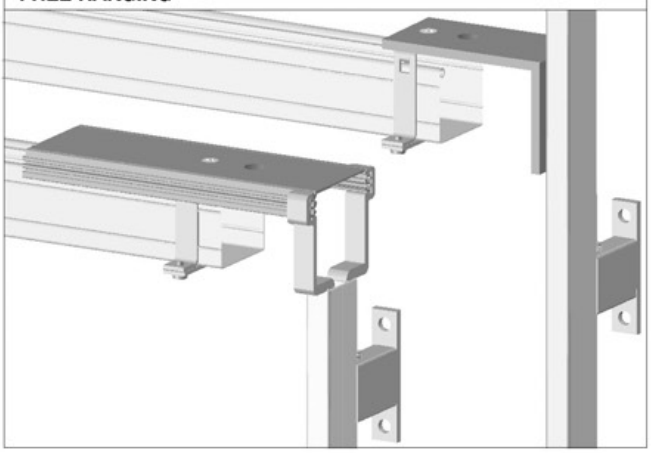
	Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single EL 80 ASKW	76	300	300	6
Group EL 80 ASKW		900	300	18

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S	Blind height H	Stacking height S
1000	162	2500	252
1500	192	3000	282
2000	222		

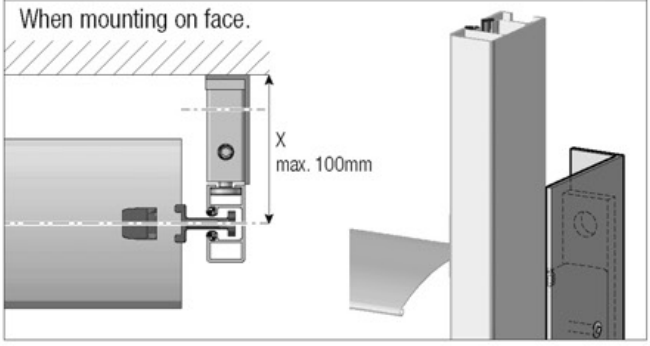
OPTIONS EL80ASKW

FREE HANGING

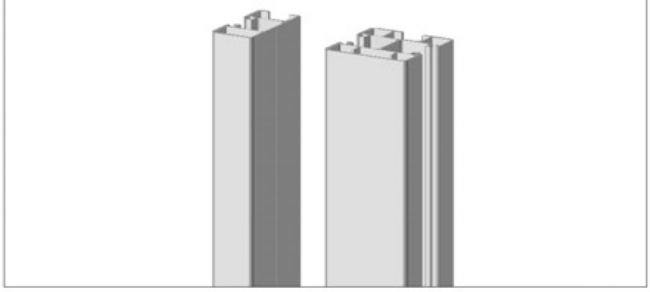


SIDE COVER PROFILE

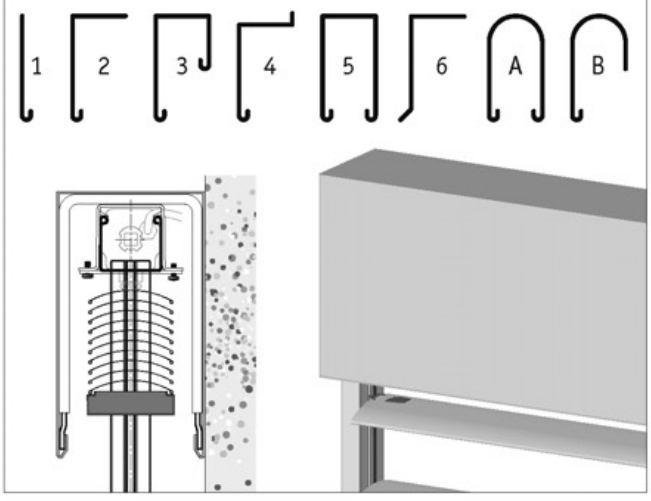
When mounting on face.



SIDE TRACKS



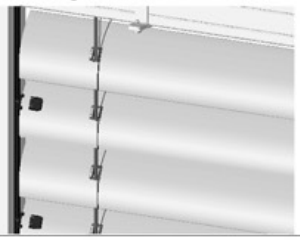
PELMET



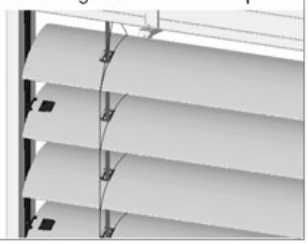
INSERT

40° TIMER

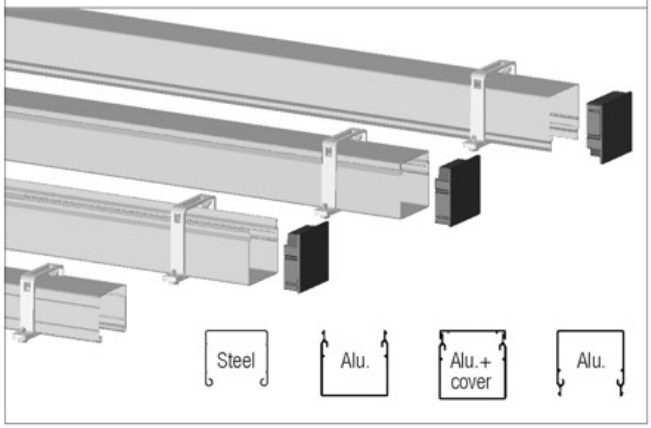
Standard;
lowering with closed slats



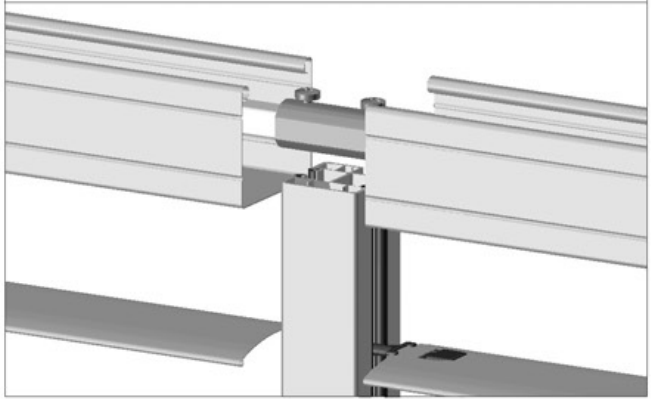
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Side cover profile (on face mounting)
- Dual Light control
- Slow motion motor for more precise slat tilting
- Head rail end caps in milky white
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Perforated slats
- Free hanging system
- For possible motor controls see separately available documentation

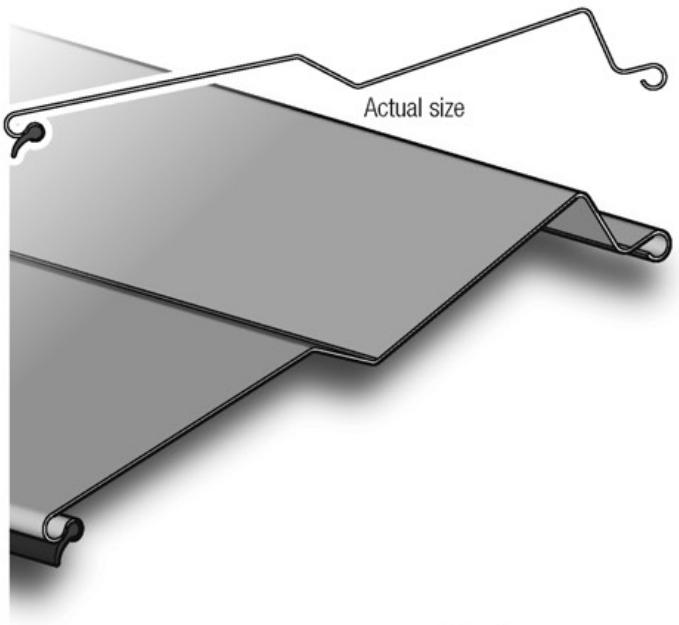
EVB EL88AS

MOTOR OPERATED EXTERNAL VENETIAN BLIND
88 MM SLATS WITH STANDARD SIDE GUIDING CHANNELS

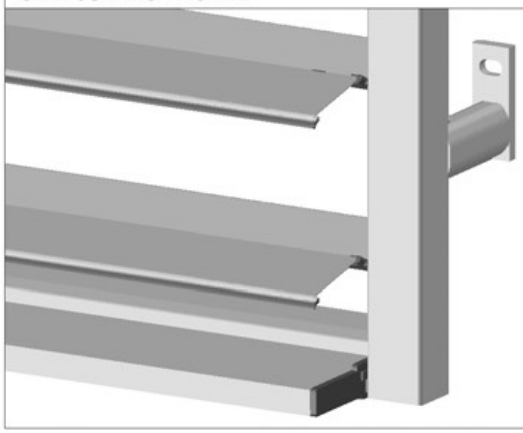
EL88AS: Z-shaped beaded 88 mm slats with seal

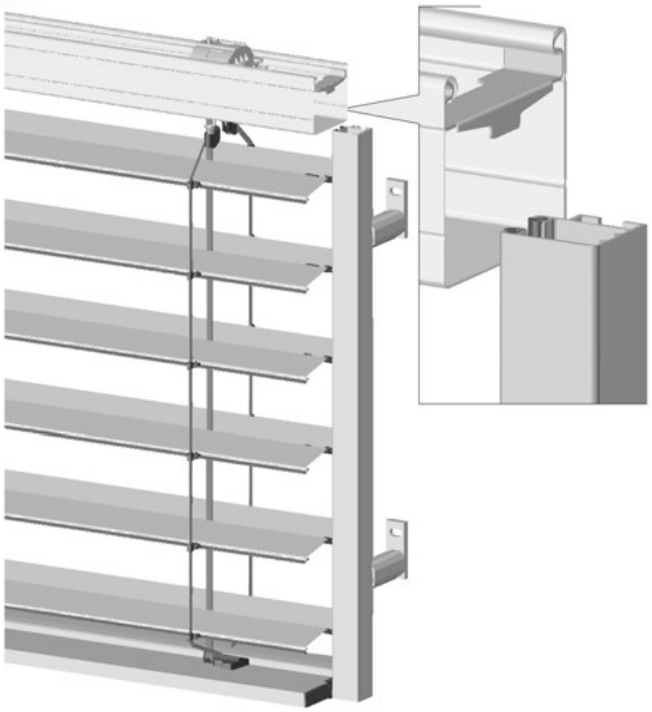
Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats open
- Roll formed coil coated 88 mm slats of partly recycled aluminium
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Natural anodised or powder coated extruded aluminium bottom rail 90 x 24 mm, alternatively heavy-duty 90 x 45 mm for blinds over 1,800 mm width
- Extruded side guiding channels 27 x 24 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps and lift tape
- Grey ball tape for good stacking of the slats
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

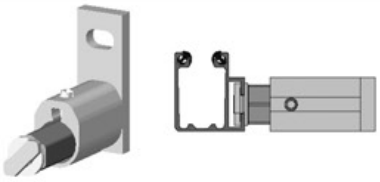


SIDE GUIDING PROFILE

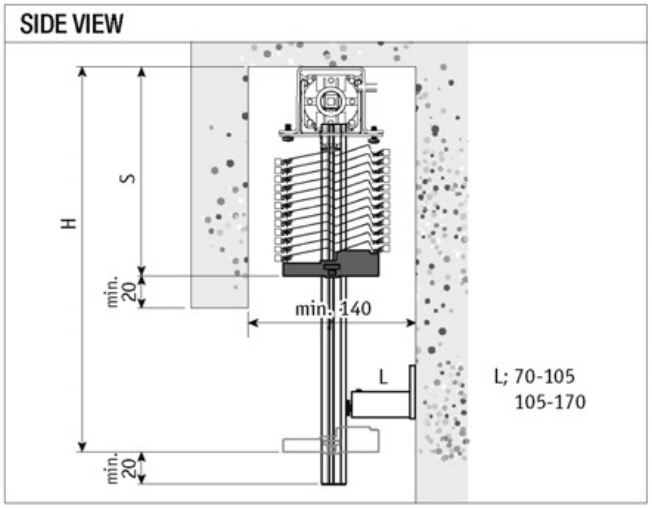




SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 88 AS	58	400	400	12
Group	EL 88 AS		1000	400	16

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

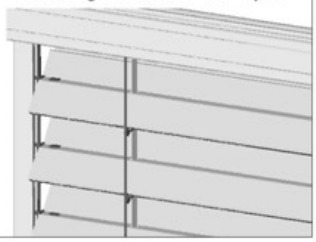
Blind height H	Stacking height EL88AS	Blind height H	Stacking height EL88AS
1000	170	3000	300
1500	190	3500	335
2000	230	4000	370
2500	265		

OPTIONS EVB 88AS

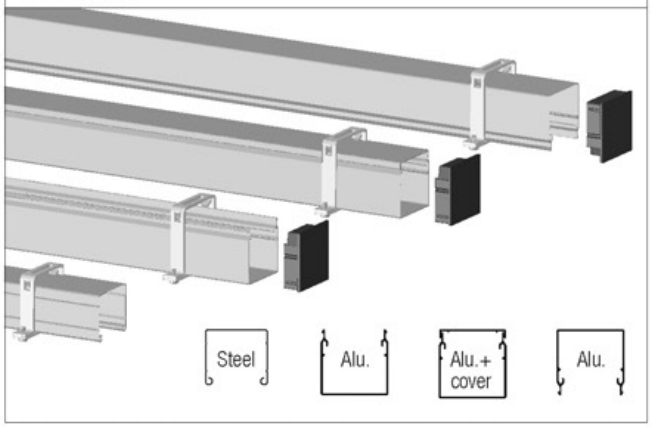
40° TIMER

Standard;
lowering with closed slats

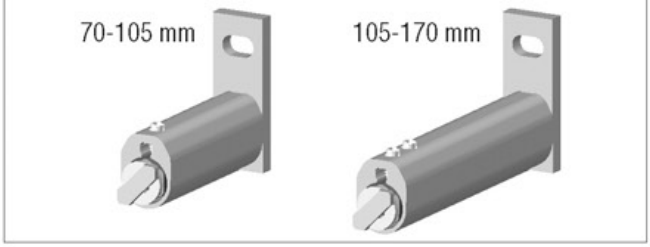
40° Timer;
lowering with slats 40° open



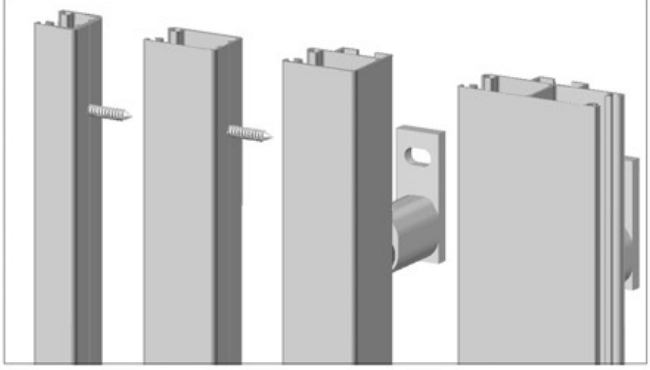
HEAD RAIL



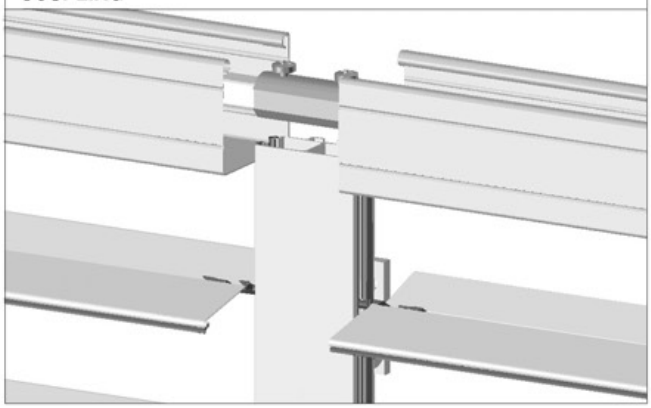
SIDE TRACK BRACKETS



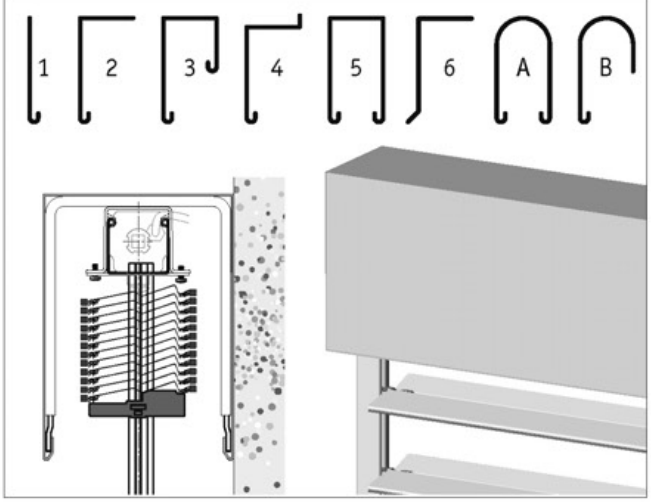
SIDE TRACKS



COUPLING



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- For possible motor controls see separately available documentation

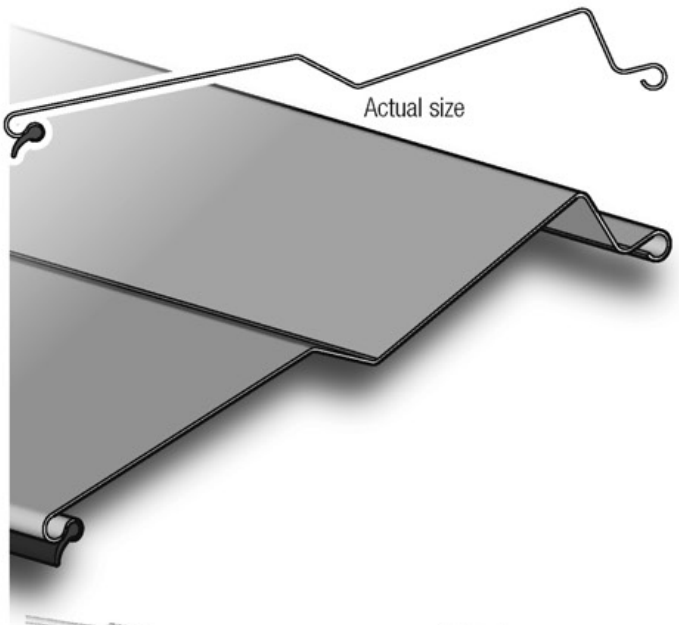
EVB K88AS

CRANK OPERATED EXTERNAL VENETIAN BLIND
88 MM SLATS WITH STANDARD SIDE GUIDING CHANNELS

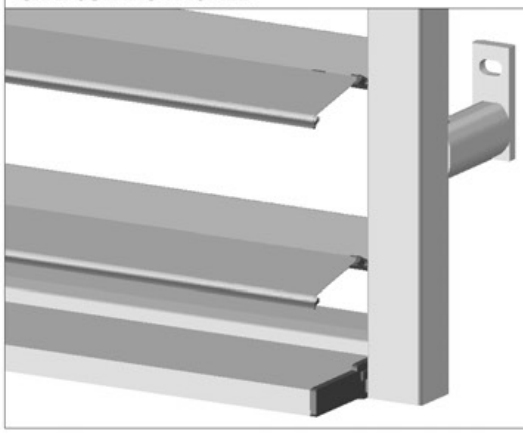
K88AS: Z-shaped beaded 88 mm slats with seal

Description

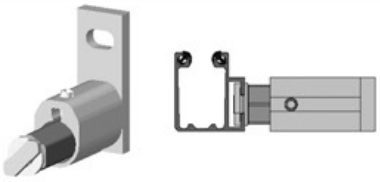
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats open
- Roll formed coil coated 88 mm slats of partly recycled aluminium
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Natural anodised or powder coated extruded aluminium bottom rail 90 x 24 mm, alternatively heavy-duty 90 x 45 mm for blinds over 1,800 mm width
- Extruded side guiding channels 27 x 24 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps and lift tape
- Grey ball tape for good stacking of the slats
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



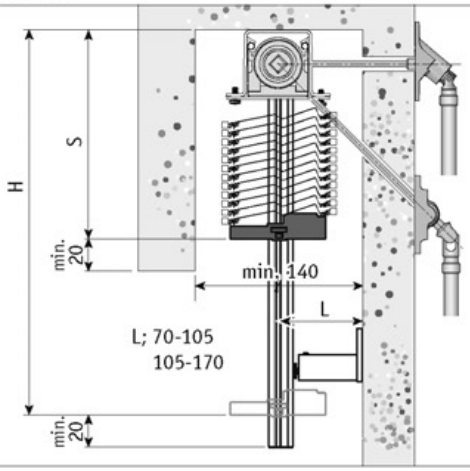
SIDE GUIDING PROFILE

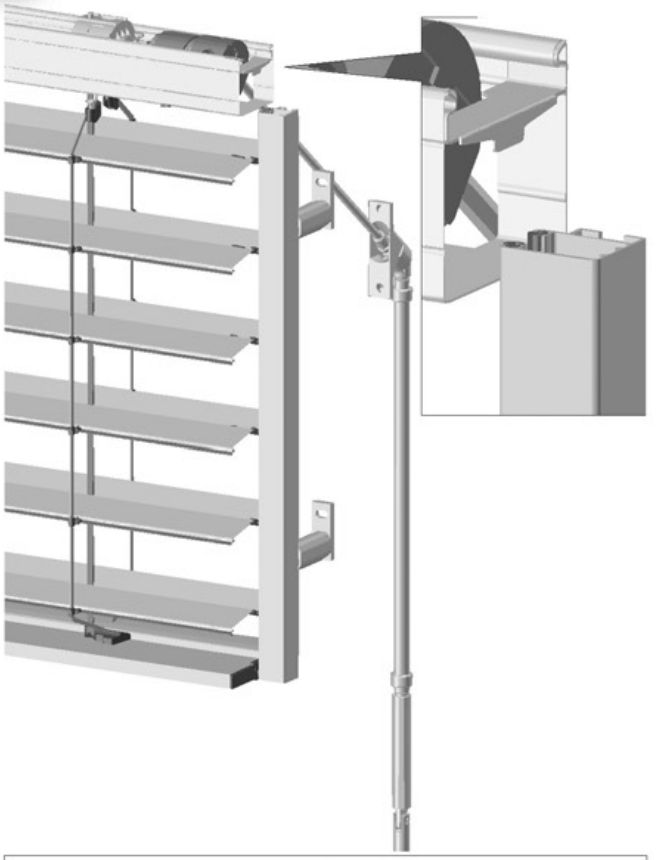


SIDE TRACK BRACKET



SIDE VIEW





SIZE LIMITATIONS

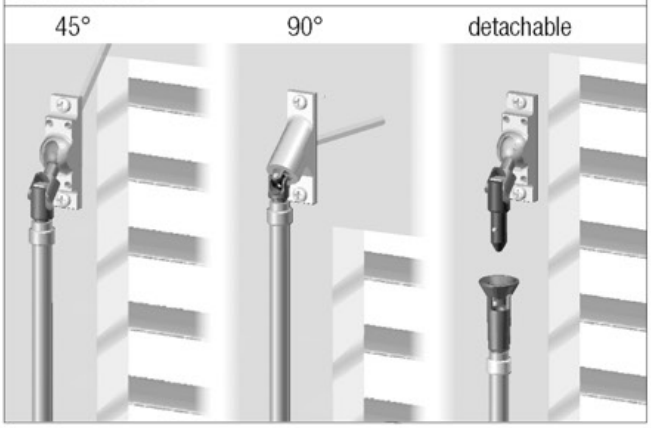
		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m²)
Single	K 88 AS	52	400	400	10
Group	K 88 AS		1000	400	10

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

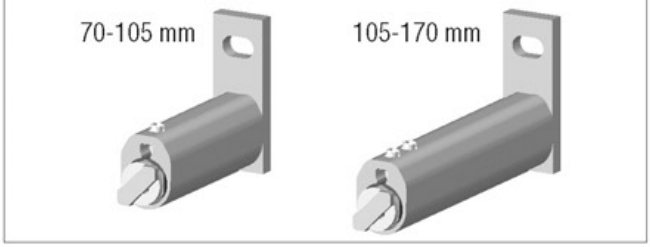
Blind height H	Stacking height K88AS	Blind height H	Stacking height K88AS
1000	160	3000	290
1500	180	3500	325
2000	240	4000	360
2500	255		

OPTIONS K88AS

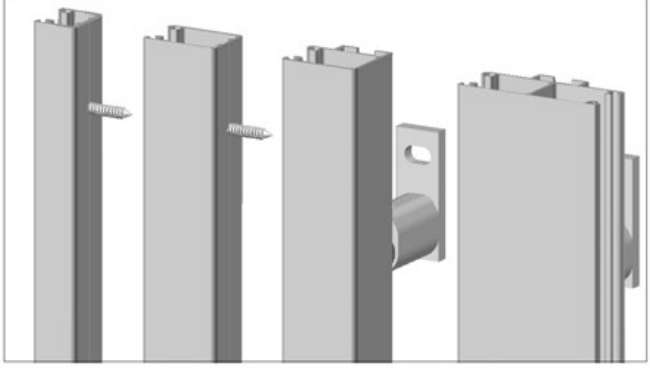
CRANK WAND



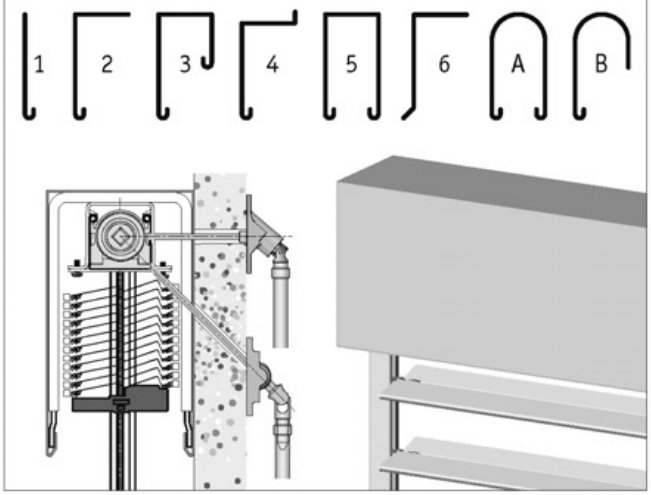
SIDE TRACK BRACKETS



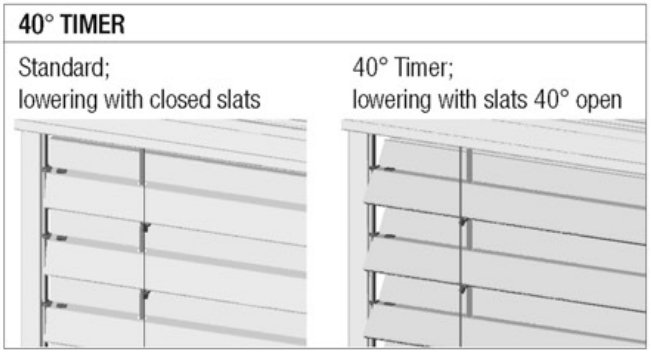
SIDE TRACKS

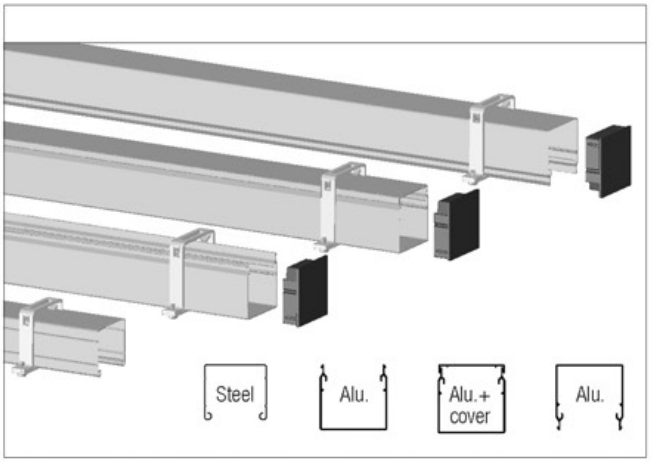


PELMET

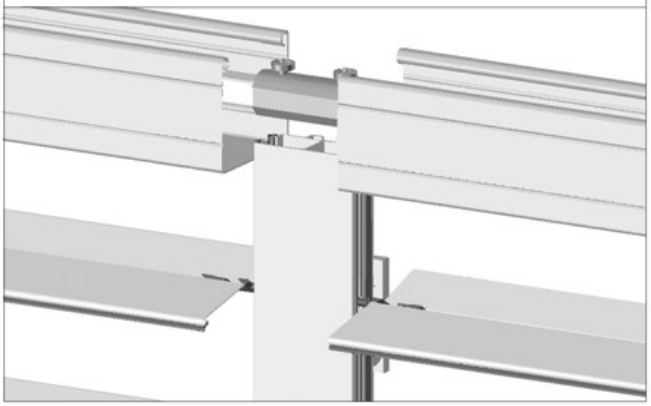


40° TIMER





COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Dual Light Control
- Perforated slats

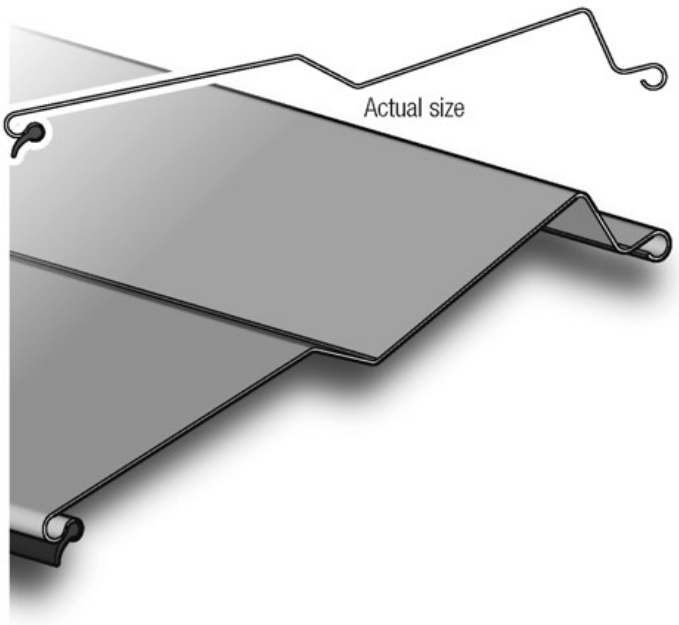
EVB EL88ASC

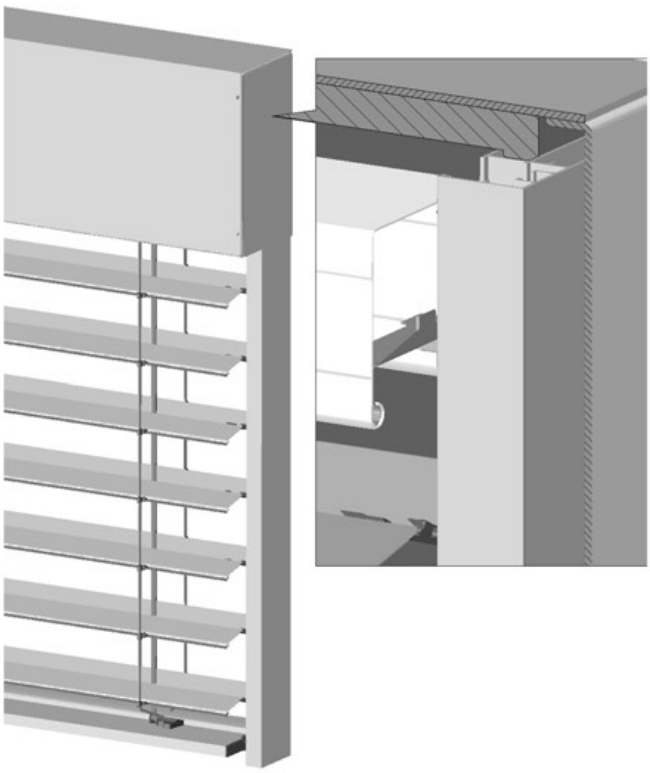
MOTOR OPERATED EXTERNAL VENETIAN BLIND "CLICK"
88 MM SLATS WITH CLIP-ON SIDE GUIDING CHANNELS

EL88ASC: Z-shaped beaded 88 mm slats with seal

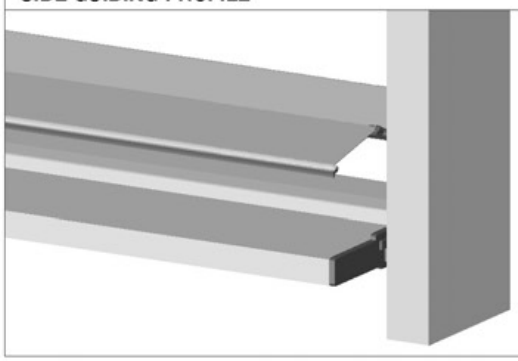
Description

- Easy to mount "CLICK" blind pre-installed in customised natural anodised or powder coated aluminium pelmet
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats open
- Roll formed coil coated 88 mm slats of partly recycled aluminium
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Natural anodised or powder coated extruded aluminium bottom rail 90 x 24 mm,
- alternatively heavy-duty 90 x 45 mm for blinds over 1,800 mm width
- Extruded side guiding channels 81 x 25 mm with groove in similar finish and black
- insert for noise reduction
- Black bottom rail end caps and lift tape
- Grey ball tape for good stacking of the slats
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

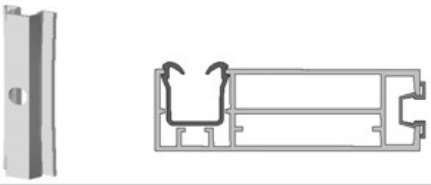




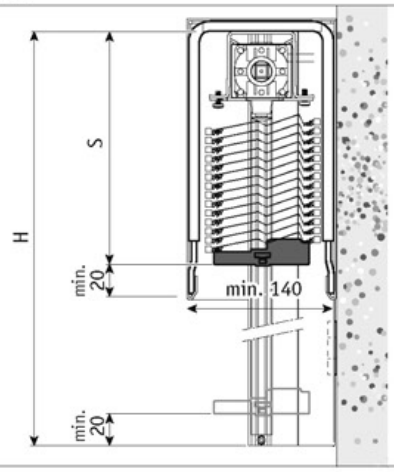
SIDE GUIDING PROFILE



SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

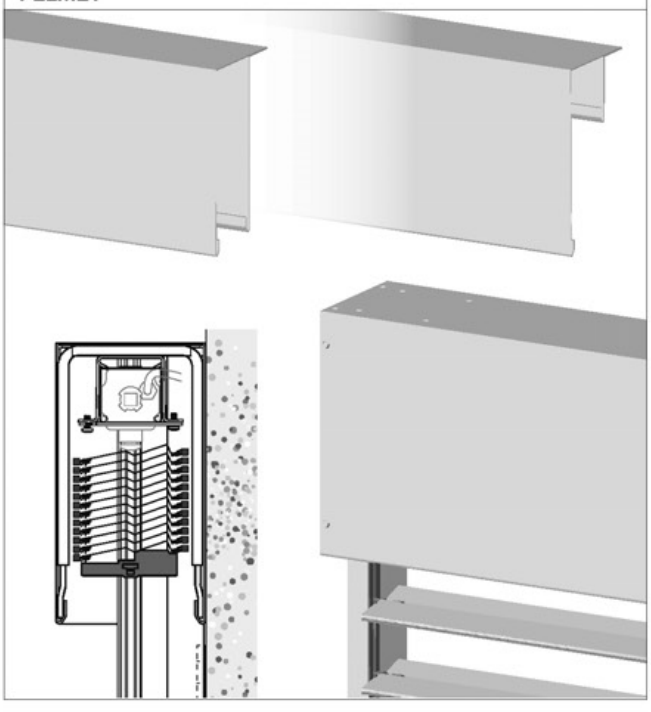
	Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
EL 88 ASC	78	350	400	12

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height 88ASC	Blind height H	Stacking height 88ASC
1000	180	3000	310
1500	200	3500	345
2000	240	4000	380
2500	275		

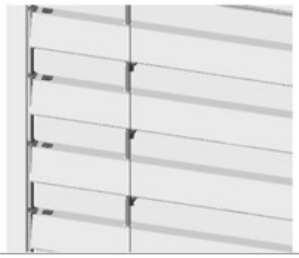
OPTIONS EL88ASC

PELMET

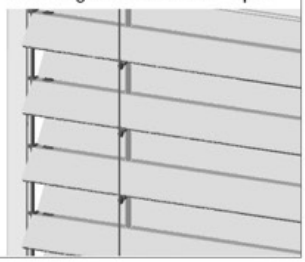


40° TIMER

Standard;
lowering with closed slats



40° Timer;
lowering with slats 40° open



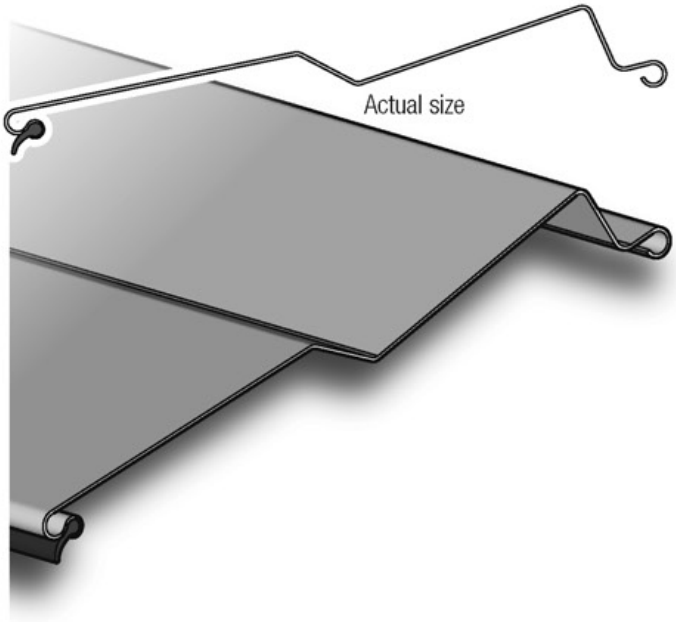
FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- For possible motor controls see separately available documentation

EVB EL88ASS

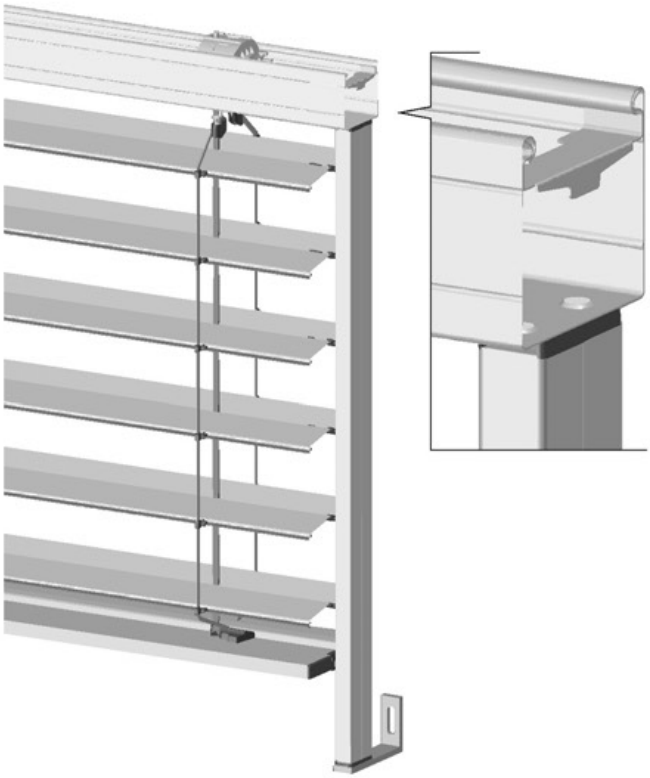
MOTOR OPERATED EXTERNAL VENETIAN BLIND
88 MM SLATS WITH PUSH-ON SIDE GUIDING CHANNELS

EL88ASS: Z-shaped beaded 88 mm slats with seal

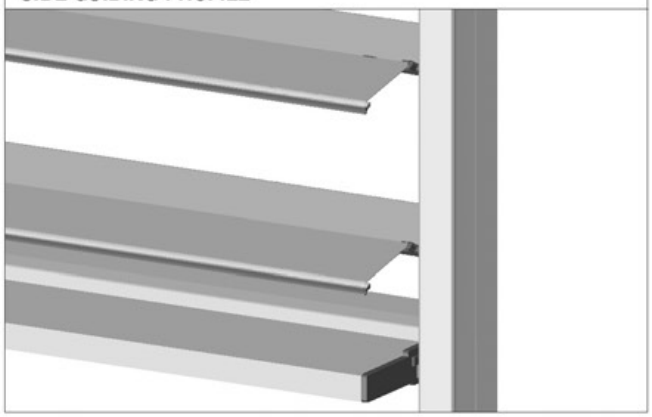


Description

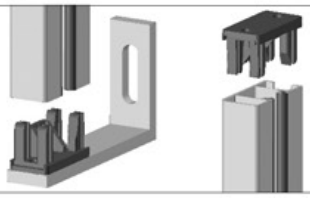
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats open
- Roll formed coil coated 88 mm slats of partly recycled aluminium
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Natural anodised or powder coated extruded aluminium bottom rail 90 x 24 mm, alternatively heavy-duty 90 x 45 mm for blinds over 1,800 mm width
- Extruded side guiding channels 18 x 37 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps and lift tape
- Grey ball tape for good stacking of the slats
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



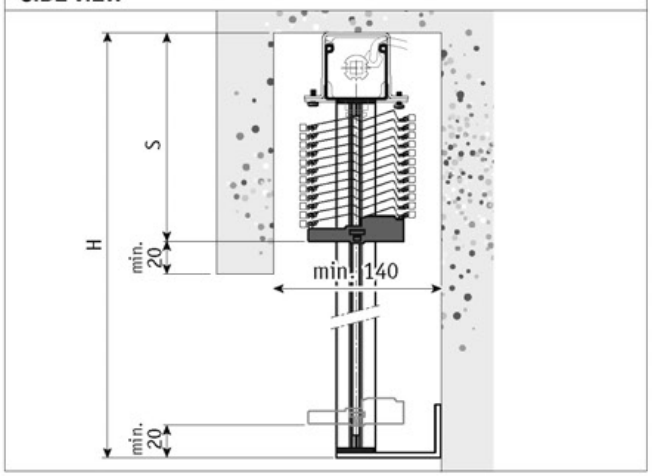
SIDE GUIDING PROFILE



PUSH-ON BRACKET



SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m²)
Single	EL 88 ASS	56	300	250	7
Group	EL 88 ASS		1000	250	16

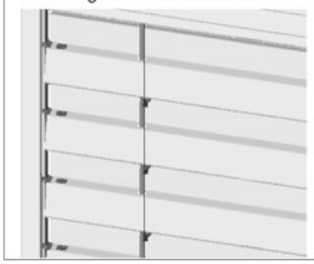
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height EL88ASS	Blind height H	Stacking height EL88ASS
1000	170	2000	230
1500	190	2500	265

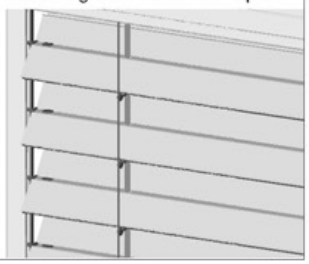
OPTIONS EL88ASS

40° TIMER

Standard;
lowering with closed slats

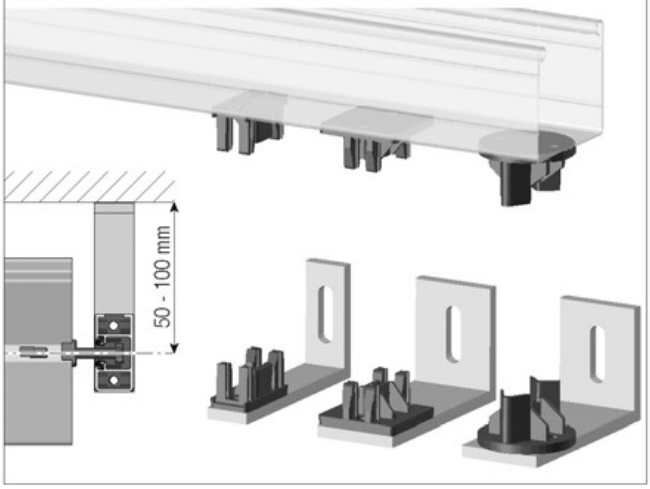


40° Timer;
lowering with slats 40° open

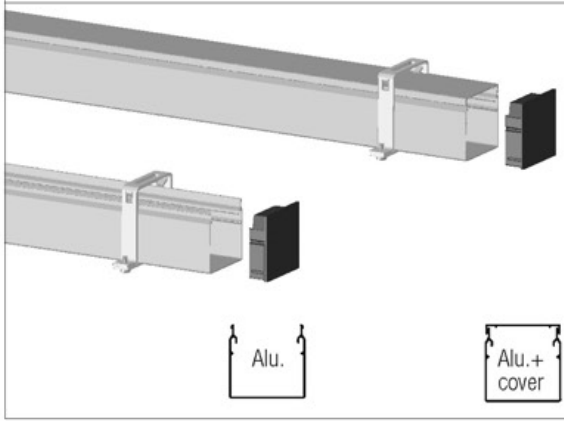


SIDE TRACK BRACKETS

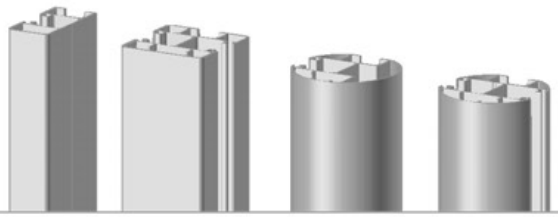
Length according to customer specifications.



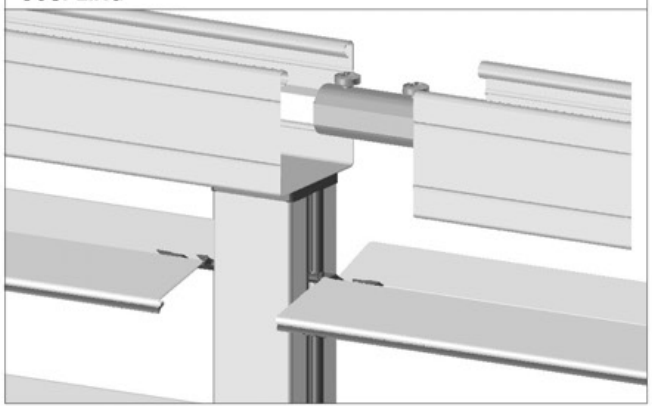
HEAD RAIL



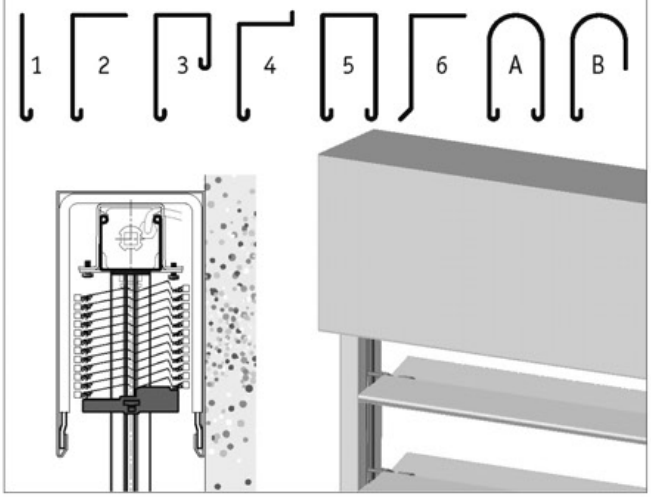
SIDE TRACKS



COUPLING



PELMET



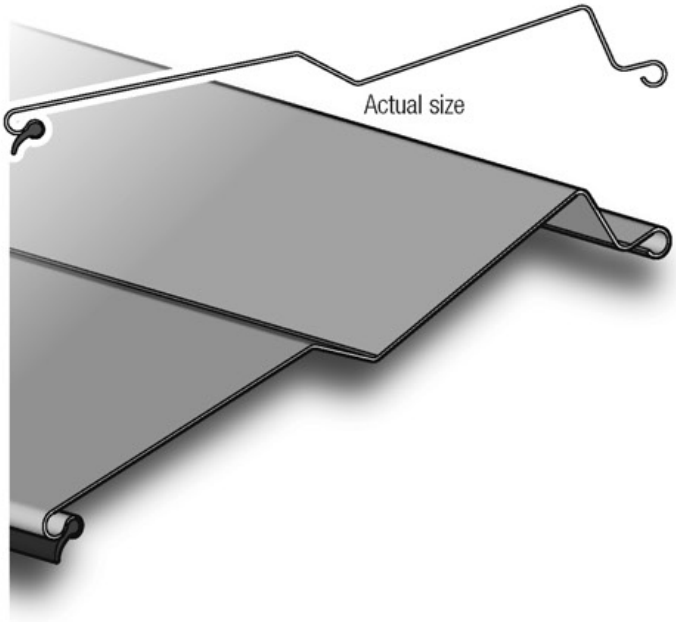
FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- For possible motor controls see separately available documentation

EVB K88ASS

CRANK OPERATED EXTERNAL VENETIAN BLIND
88 MM SLATS WITH PUSH-ON SIDE GUIDING CHANNELS

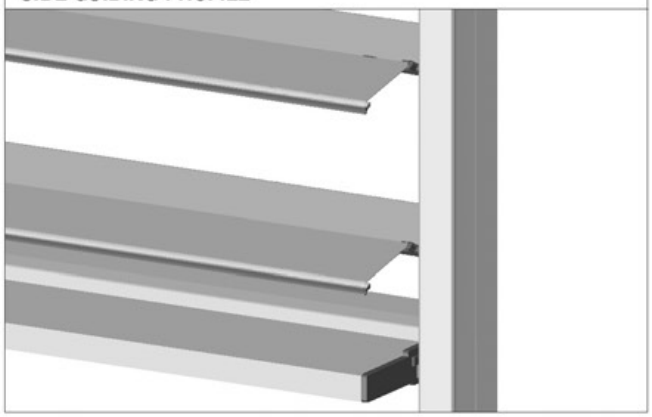
K88ASS: Z-shaped beaded 88 mm slats with seal



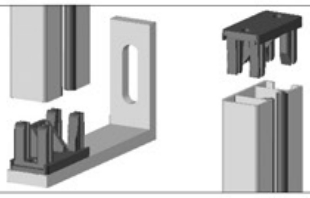
Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats open
- Roll formed coil coated 88 mm slats of partly recycled aluminium
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Natural anodised or powder coated extruded aluminium bottom rail 90 x 24 mm, alternatively heavy-duty 90 x 45 mm for blinds over 1,800 mm width
- Extruded side guiding channels 18 x 37 mm with groove in similar finish and black insert for noise reduction
- Black bottom rail end caps and lift tape
- Grey ball tape for good stacking of the slats
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

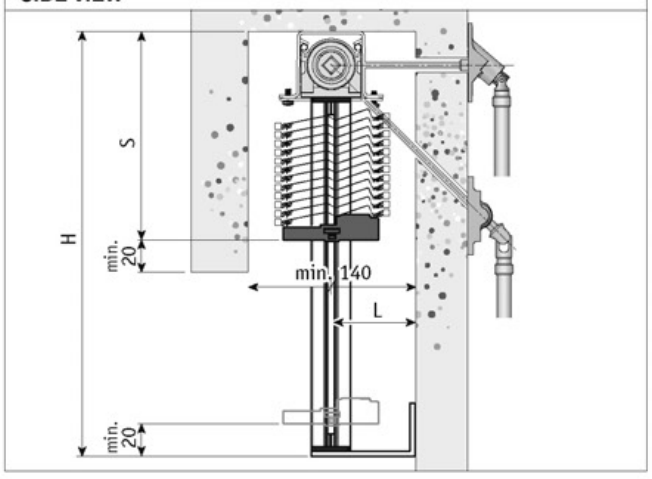
SIDE GUIDING PROFILE

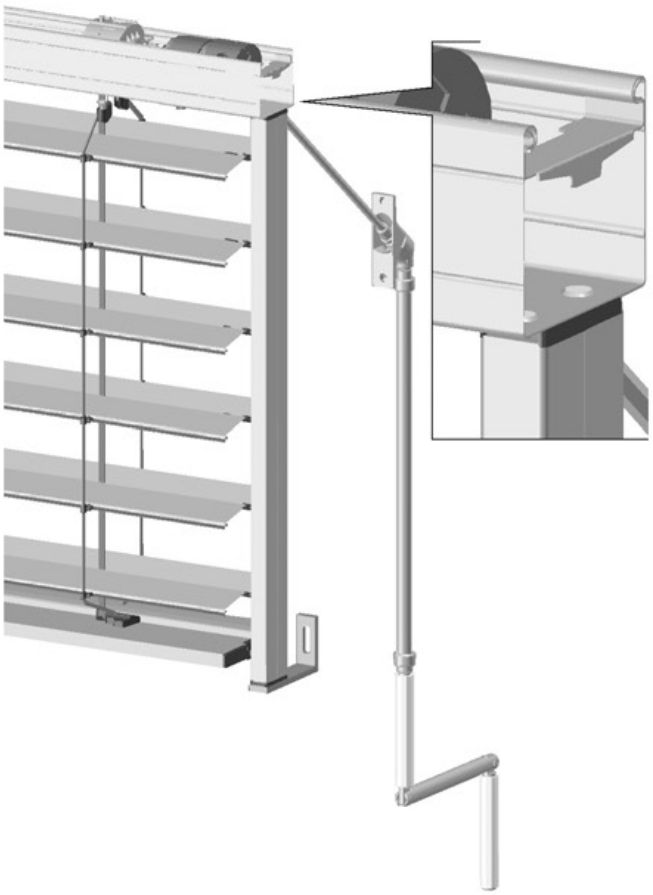


PUSH-ON BRACKET



SIDE VIEW





SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m²)
Single	K 88 ASS	50	300	250	7
Group	K 88 ASS		1000	250	10

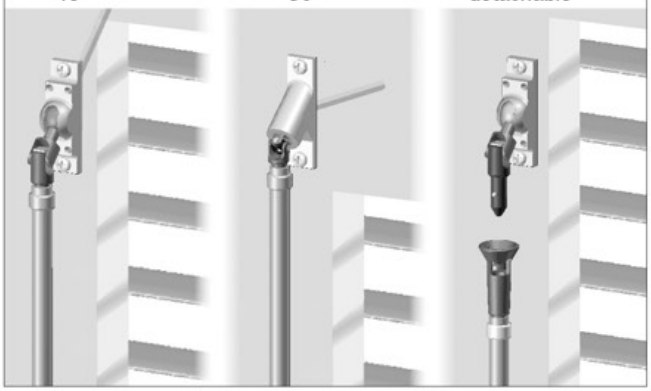
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height K88ASS	Blind height H	Stacking height K88ASS
1000	160	2000	220
1500	180	2500	255

OPTIONS K88ASS

CRANK WAND

45° 90° detachable



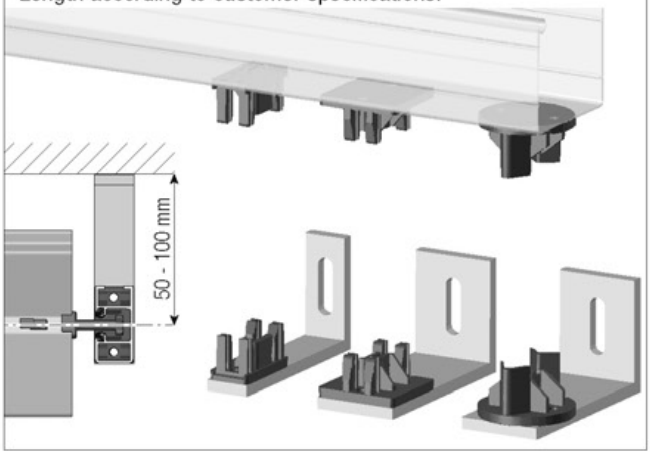
40° TIMER

Standard;
lowering with closed slats

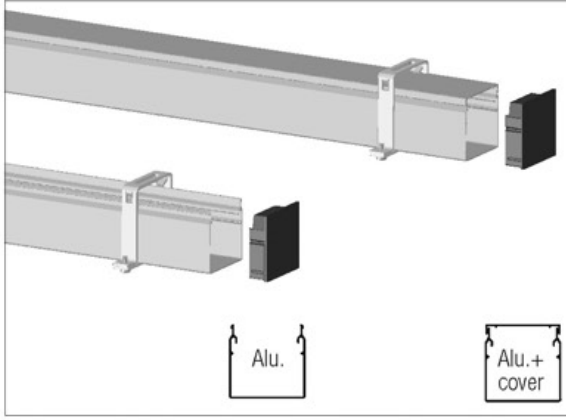
40° Timer;
lowering with slats 40° open

SIDE TRACK BRACKETS

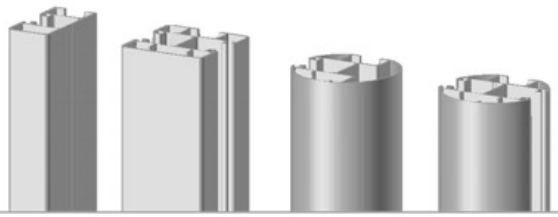
Length according to customer specifications.



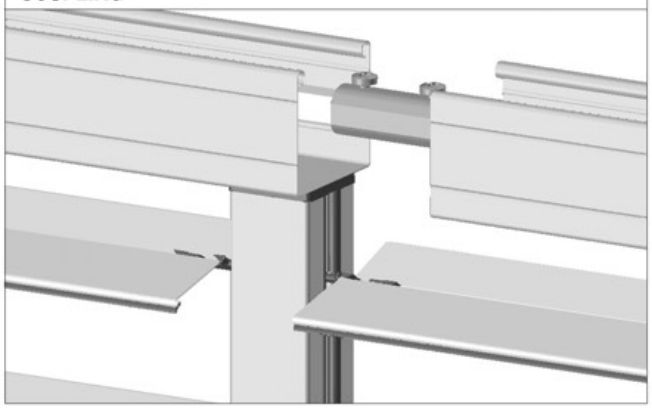
HEAD RAIL



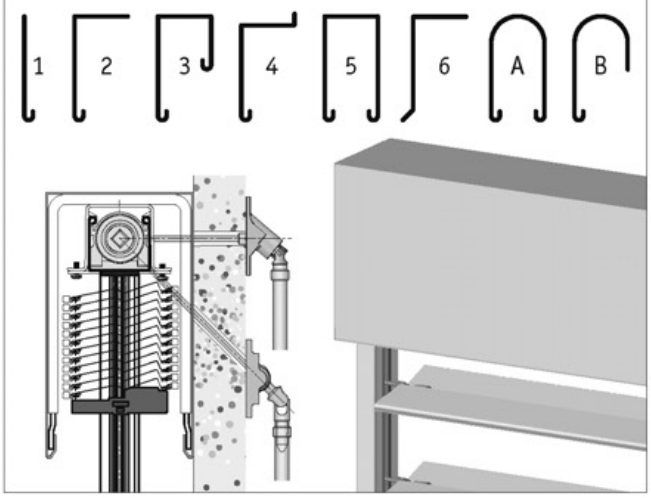
SIDE TRACKS



COUPLING



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Dual Light Control
- Head rail end caps in milky white
- Perforated slats

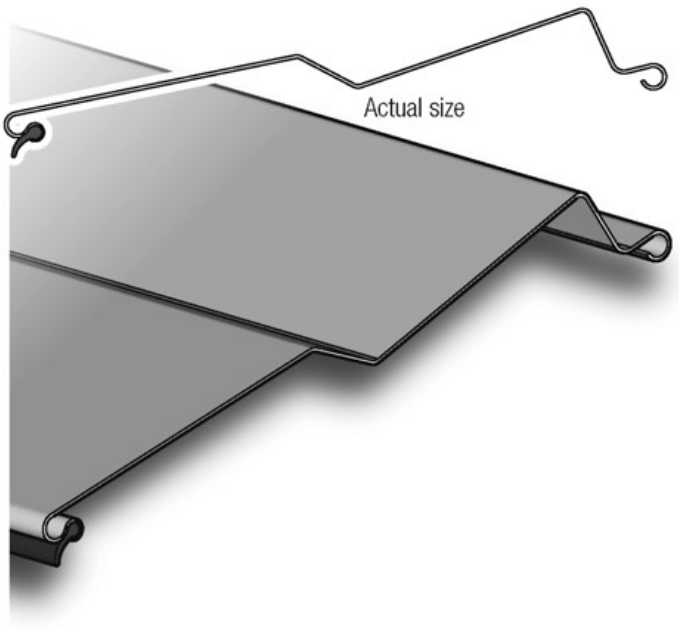
EVB EL88ASK

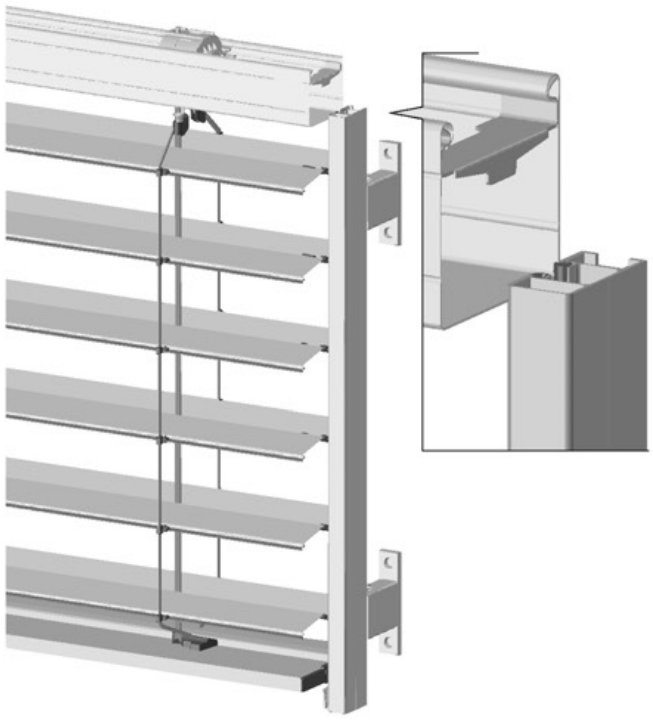
MOTOR OPERATED EXTERNAL VENETIAN BLIND
88 MM SLATS WITH CLAMP-ON SIDE GUIDING CHANNELS

EL88ASK: Z-shaped beaded 88 mm slats with seal

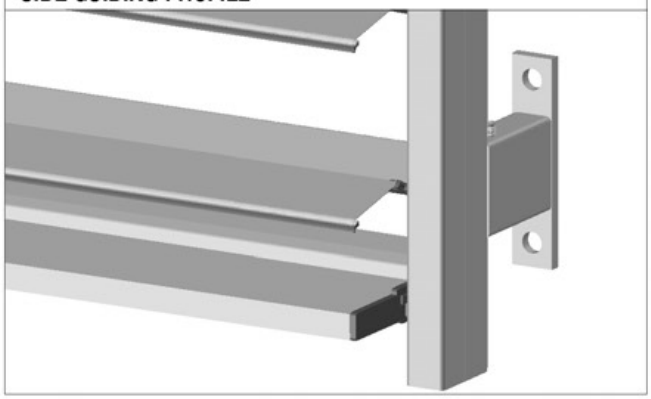
Description

- Installation on or in between side tracks
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats open
- Roll formed coil coated 88 mm slats of partly recycled aluminium
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Natural anodised or powder coated extruded aluminium bottom rail 90 x 24 mm, alternatively heavy-duty 90 x 45 mm for blinds over 1,800 mm width
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps and lift tape
- Grey ball tape for good stacking of the slats
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

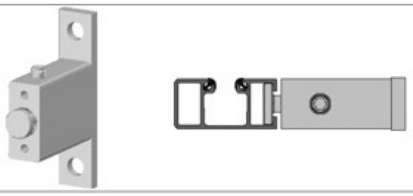




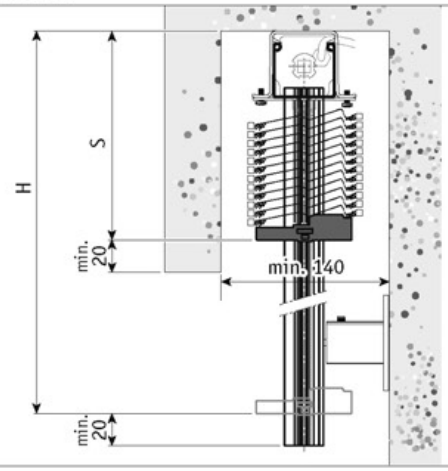
SIDE GUIDING PROFILE



SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

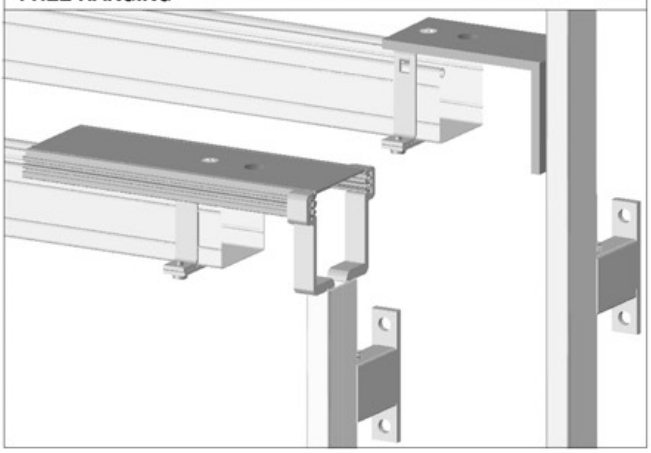
		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 88 ASK	56	400	400	12
Group	EL 88 ASK		1000	400	16

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height EL88ASK	Blind height H	Stacking height EL88ASK
1000	170	3000	300
1500	190	3500	335
2000	230	4000	370
2500	265		

OPTIONS EL88ASK

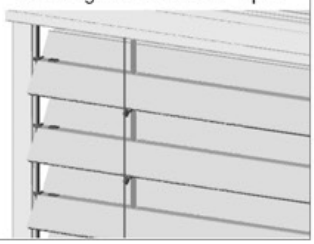
FREE HANGING



40° TIMER

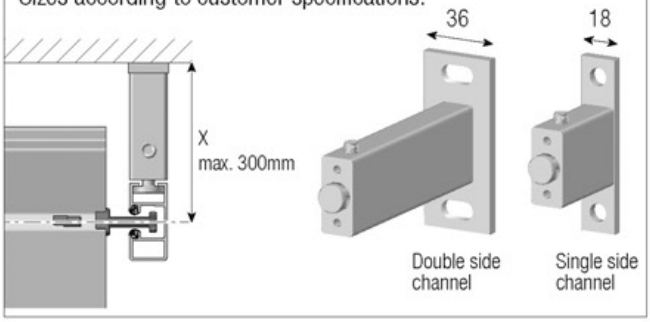
Standard;
lowering with closed slats

40° Timer;
lowering with slats 40° open

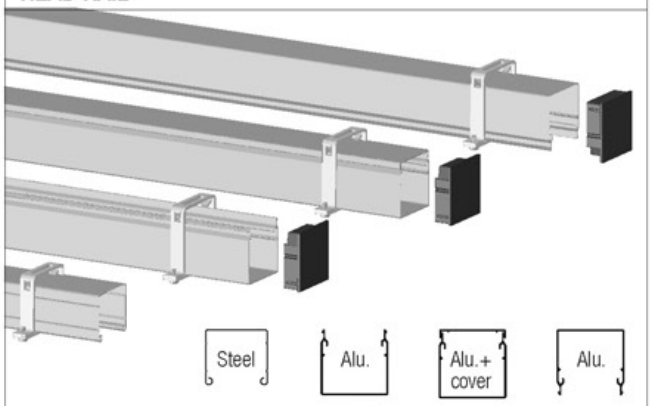


SIDE TRACK BRACKETS

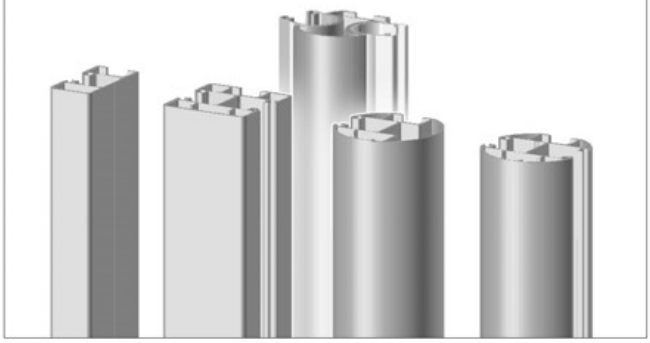
Sizes according to customer specifications.



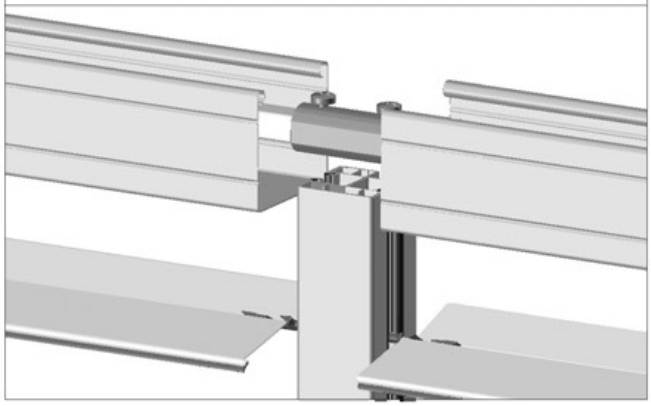
HEAD RAIL



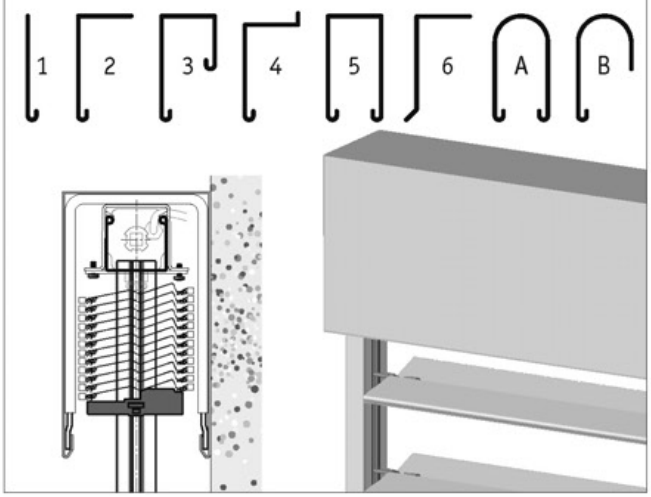
SIDE TRACKS



COUPLING



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- For possible motor controls see separately available documentation

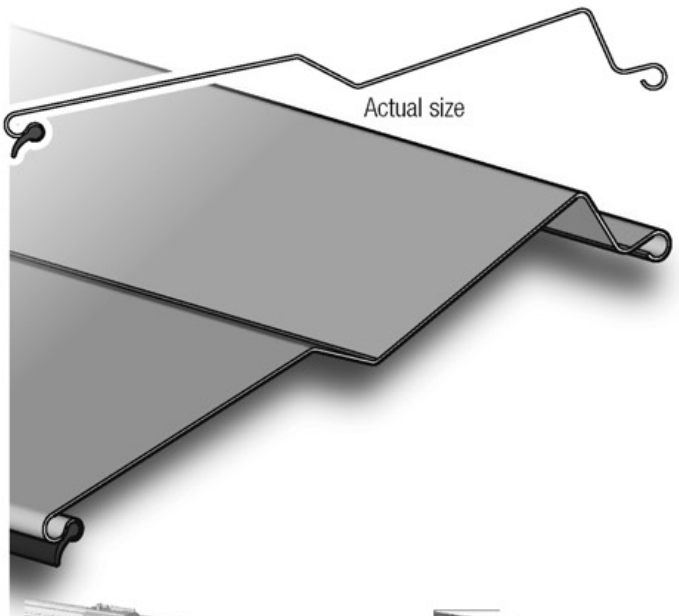
EVB K88ASK

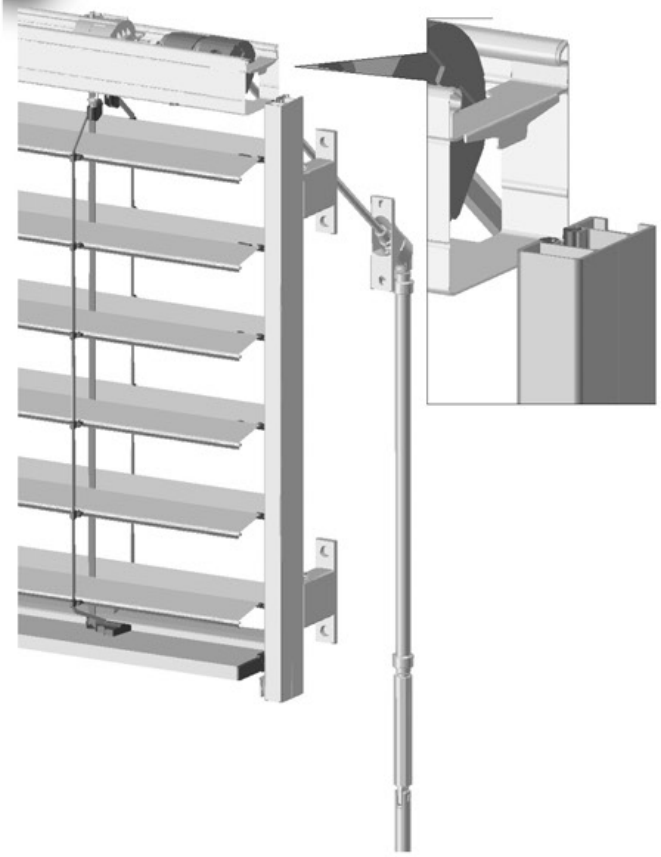
CRANK OPERATED EXTERNAL VENETIAN BLIND
88 MM SLATS WITH CLAMP-ON SIDE GUIDING CHANNELS

K88ASK: Z-shaped beaded 88 mm slats with seal

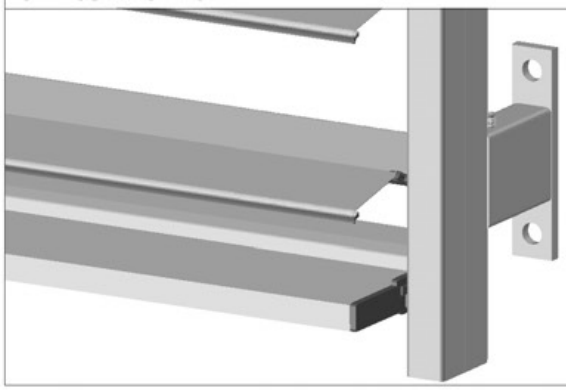
Description

- Installation on or in between side tracks
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats open
- Roll formed coil coated 88 mm slats of partly recycled aluminium
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Natural anodised or powder coated extruded aluminium bottom rail 90 x 24 mm, alternatively heavy-duty 90 x 45 mm for blinds over 1,800 mm width
- Extruded side guiding channels 18 x 37 mm with groove in similar finish with black insert for noise reduction
- Black bottom rail end caps and lift tape and Aramid reinforced polyester ladder cords
- Grey ball tape for good stacking of the slats
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

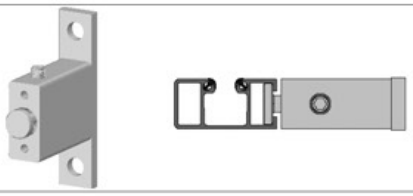




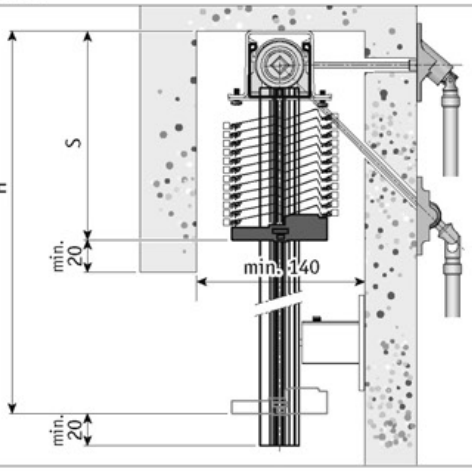
SIDE GUIDING PROFILE



SIDE TRACK BRACKET



SIDE VIEW



SIZE LIMITATIONS

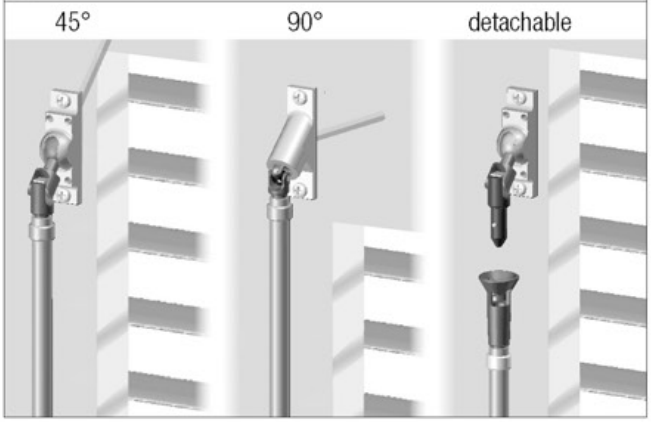
		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	K 88 ASK	50	400	400	10
Group	K 88 ASK		1000	400	10

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height K88ASK	Blind height H	Stacking height K88ASK
1000	160	3000	290
1500	180	3500	325
2000	220	4000	360
2500	255		

OPTIONS K88ASK

CRANK WAND



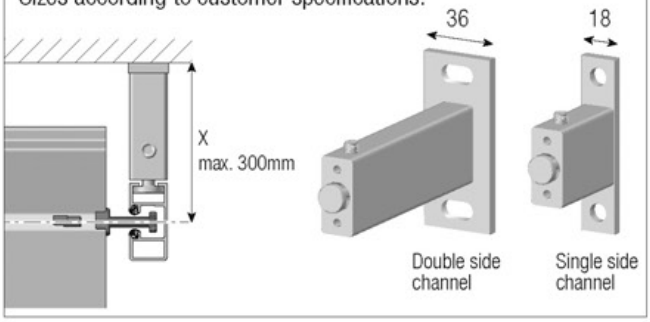
40° TIMER

Standard;
lowering with closed slats

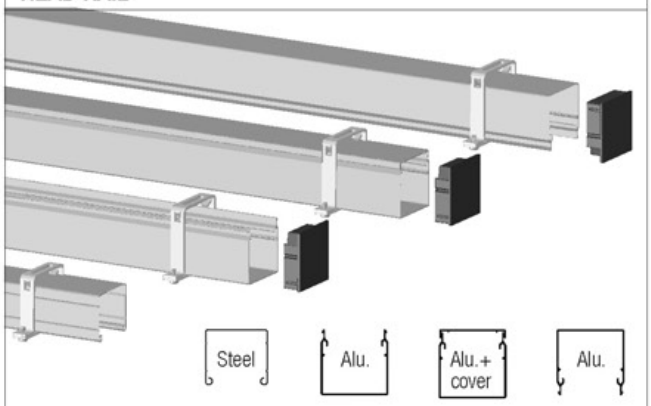
40° Timer;
lowering with slats 40° open

SIDE TRACK BRACKETS

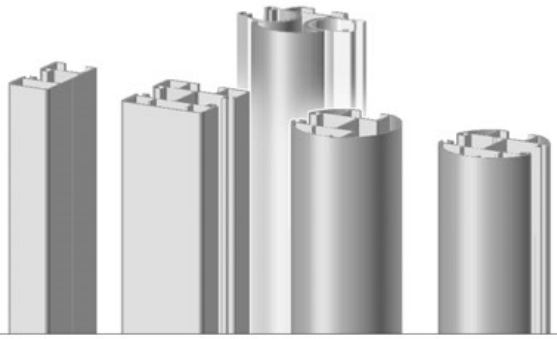
Sizes according to customer specifications.



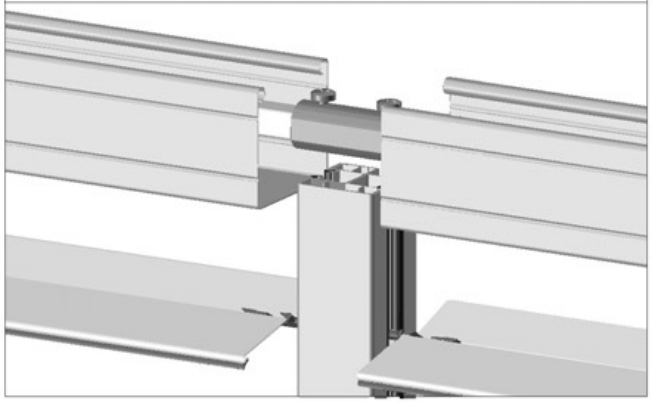
HEAD RAIL



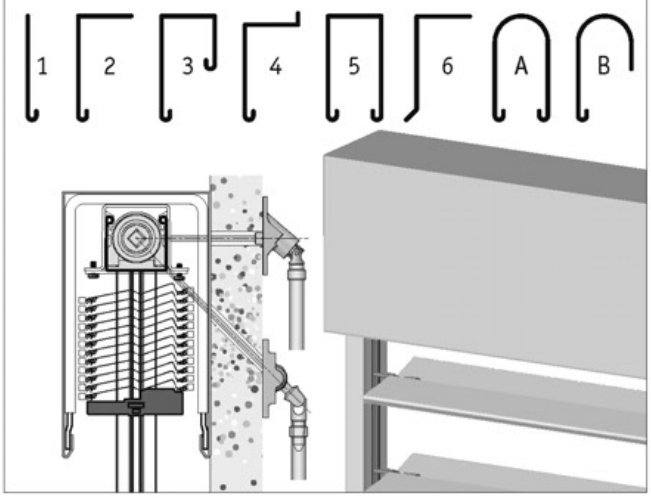
SIDE TRACKS



COUPLING



PELMET



FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Dual Light Control
- Perforated slats
- Free hanging system

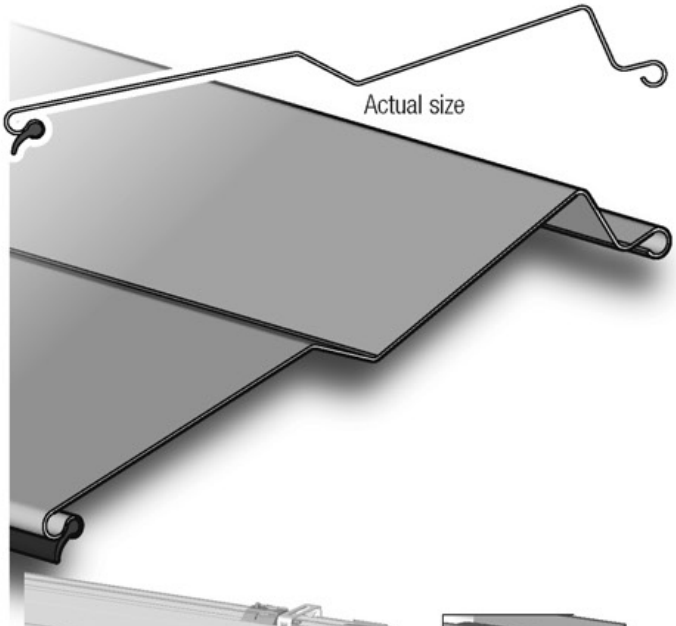
EVB ELV88AS

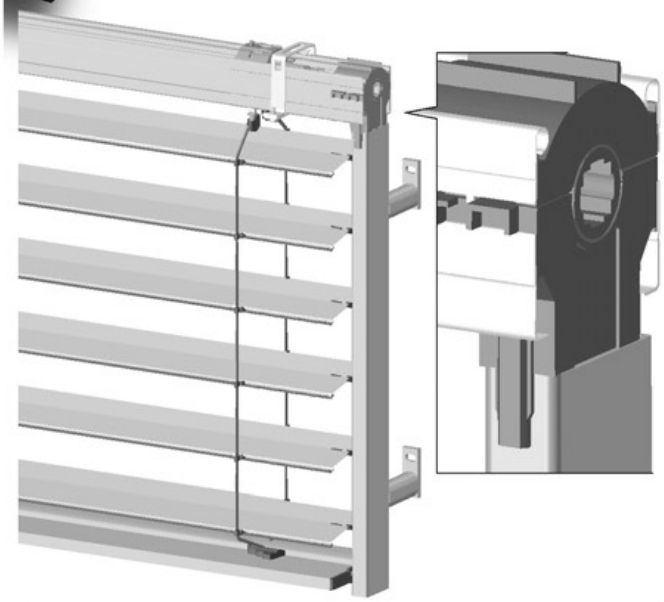
MOTOR OPERATED EXTERNAL VENETIAN BLIND 88 MM SLATS WITH SIDE GUIDING CHANNELS AND INTEGRATED LIFT TAPE

ELV88AS: Z-shaped beaded 88 mm slats with seal

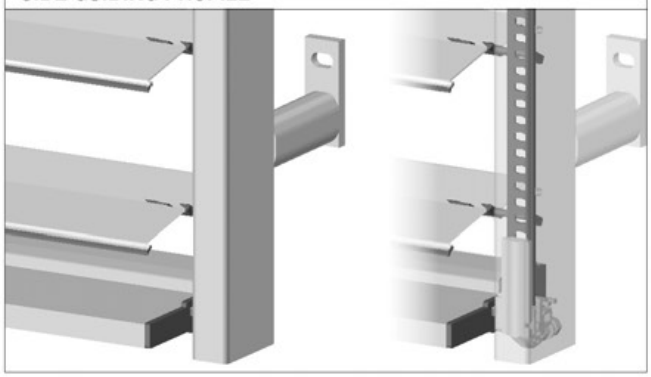
Description

- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats open
- Roll formed coil coated 88 mm slats of partly recycled aluminium
- Beaded slat with inserted black seal to reduce contact noise and light leakage
- Natural anodised or powder coated extruded aluminium bottom rail 90 x 45 mm
- Extruded side guiding channels 26 x 44 mm with groove and integrated lifting tape in similar finish and black insert for noise reduction
- Black bottom rail end caps and lift tape
- Grey ball tape for good stacking of the slats
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls



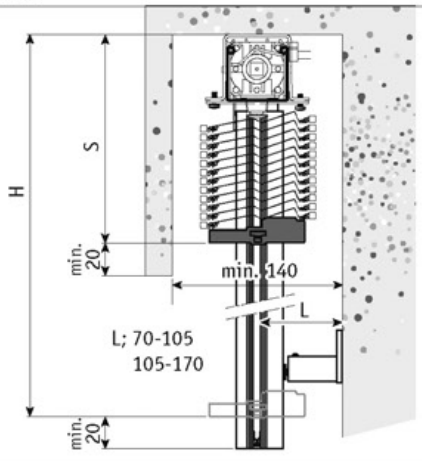


SIDE GUIDING PROFILE



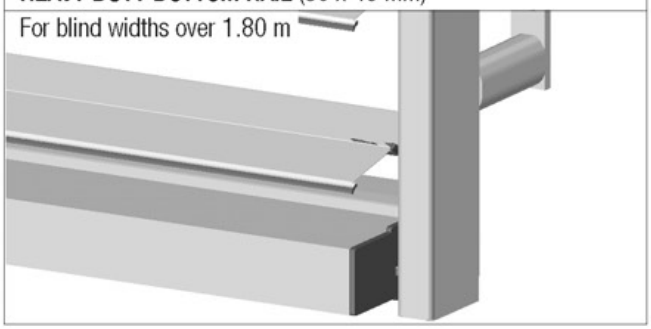
SIDE TRACK BRACKET

SIDE VIEW



HEAVY DUTY BOTTOM RAIL (90 x 45 mm)

For blind widths over 1.80 m



SIZE LIMITATIONS

	Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
ELV 88AS	62	300	350	10

STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height S	S with heavy duty bottomrail	Blind height H	Stacking height S	S with heavy duty bottomrail
1000	200	220	2500	305	325
1500	235	255	3000	340	360
2000	270	290	3500	375	395

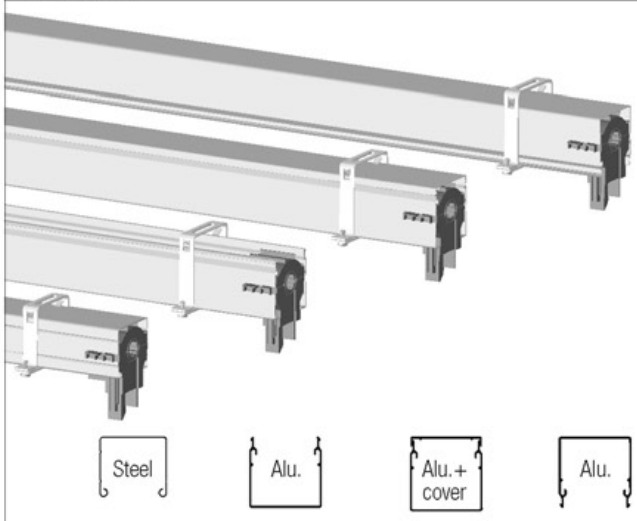
OPTIONS ELV88AS

40° TIMER

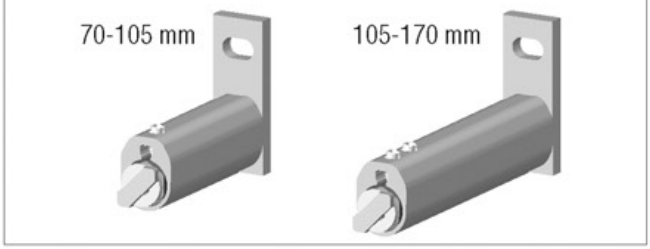
Standard;
lowering with closed slats

40° Timer;
lowering with slats 40° open

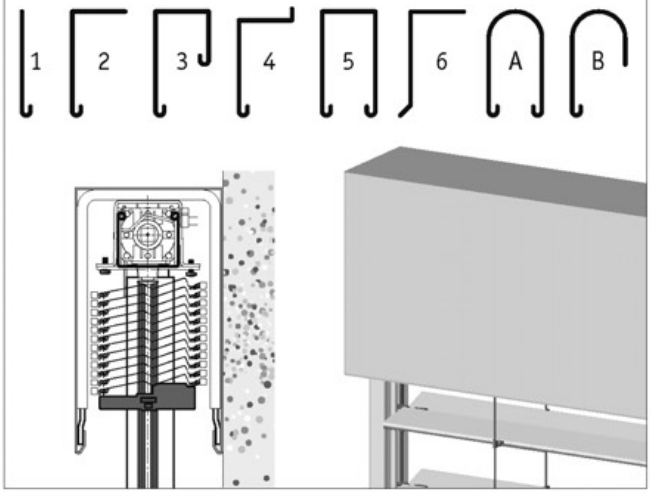
HEAD RAIL



SIDE TRACK BRACKETS



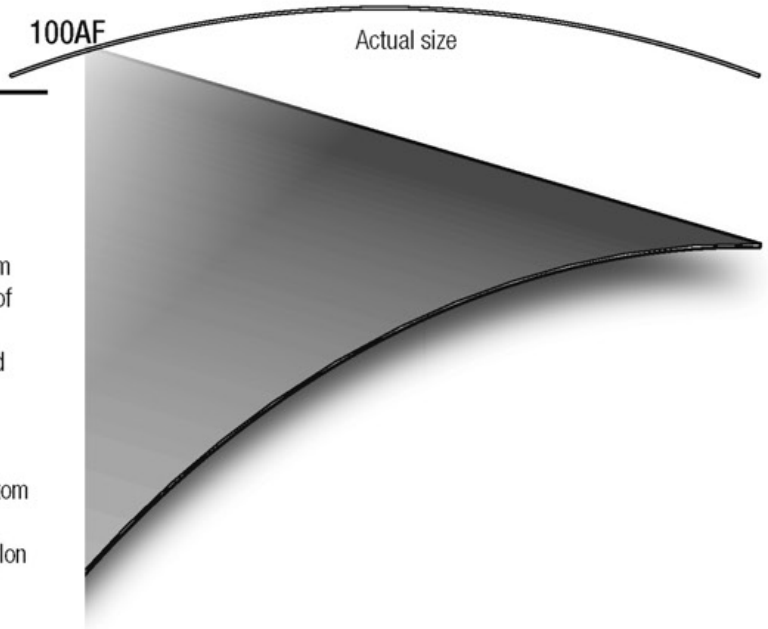
PELMET



FURTHER OPTIONS (Additional information on page 73)

- Slow motion motor for more precise slat tilting
- Perforated slats
- For possible motor controls see separately available documentation

EVB EL100AF



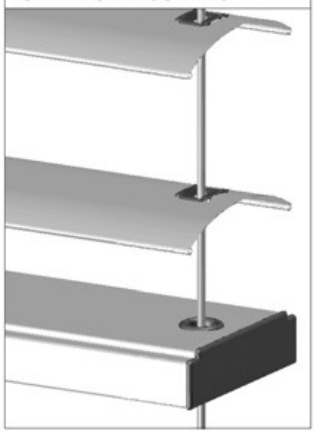
MOTOR OPERATED EXTERNAL VENETIAN BLIND
100 MM SLATS WITH SIDE GUIDING CABLES

EL100AF: flexible 100 mm slats

Description

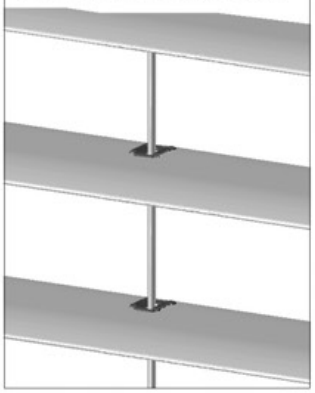
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Thermally protected 230 V motor, dust and splash waterproof according to IP54
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 25° open
- Roll formed coil coated 100 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 100 x 20 mm
- Tensioned stainless steel cable Ø 3 mm with transparent Nylon jacket
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

CABLE SIDE GUIDING

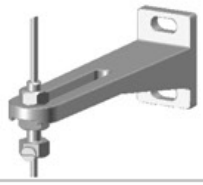


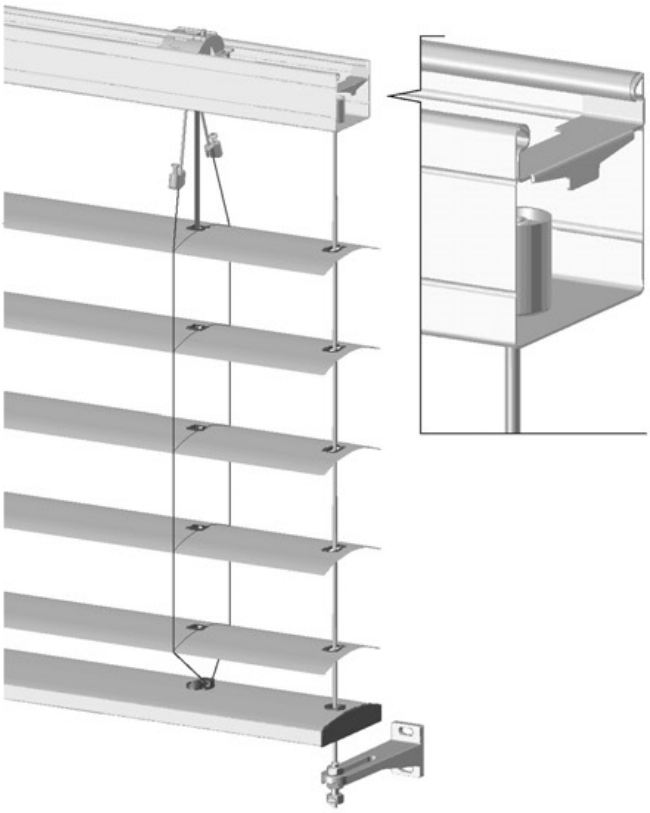
INTERMEDIATE GUIDING

For blind widths over 2.5 m.

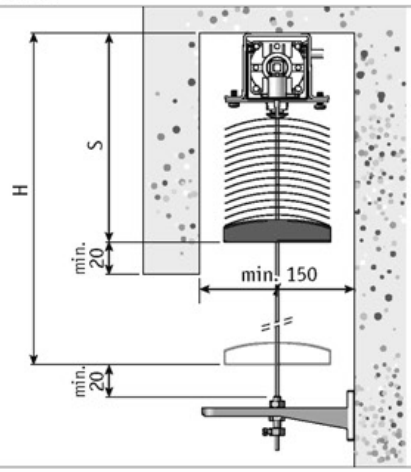


GUIDE CABLE BRACKET





SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	EL 100 AF	56	440	400	16
Group	EL 100 AF		1000	400	20

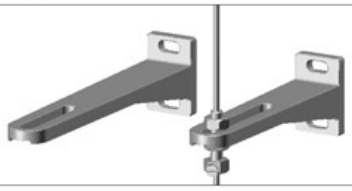
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height EL100AF	Blind height H	Stacking height EL100AF
1000	130	3000	170
1500	140	3500	180
2000	150	4000	190
2500	160		

OPTIONS EL100AF

GUIDE CABLE BRACKETS

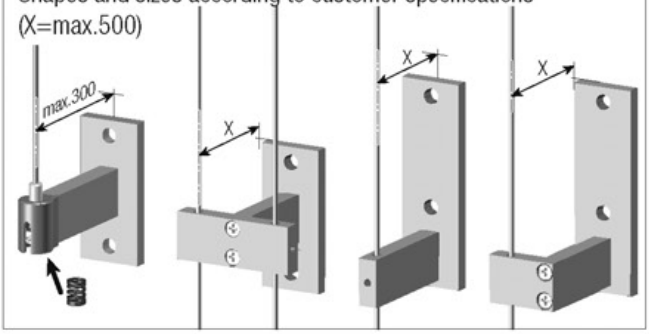
2 sizes (X, mm);
67 - 133
124 - 173



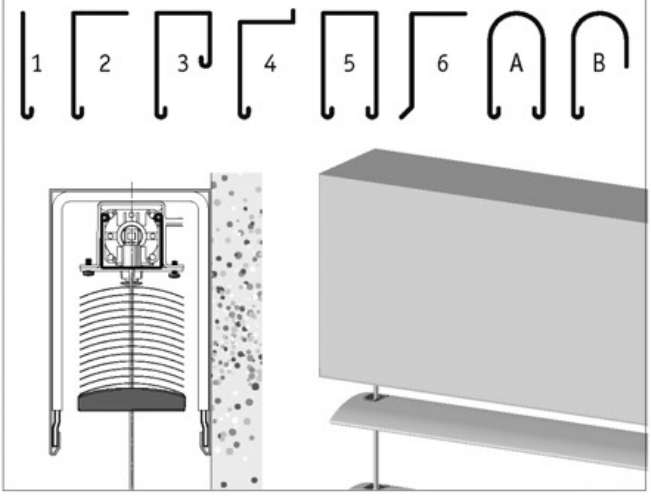
GUIDE CABLE BRACKETS, IDEFIX

HEAVY DUTY CABLE BRACKETS

Shapes and sizes according to customer specifications
(X=max.500)



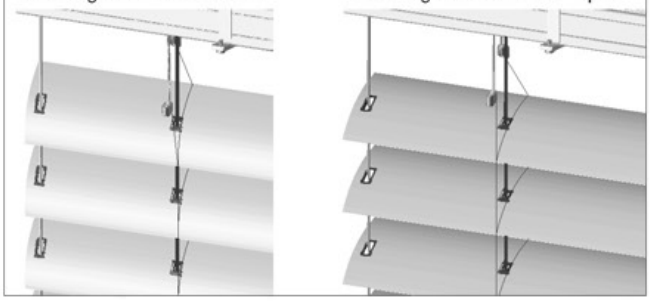
PELMET



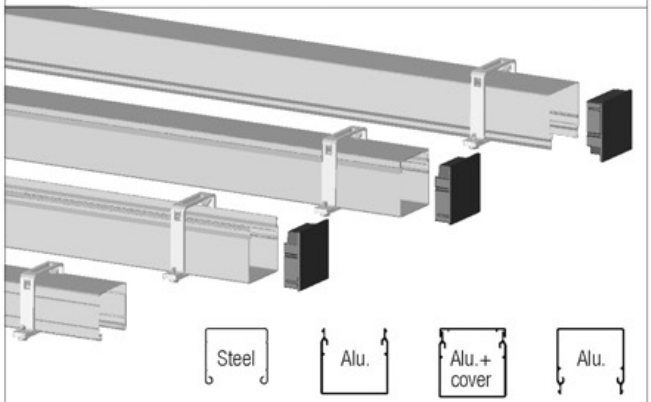
40° TIMER

Standard;
lowering with closed slats

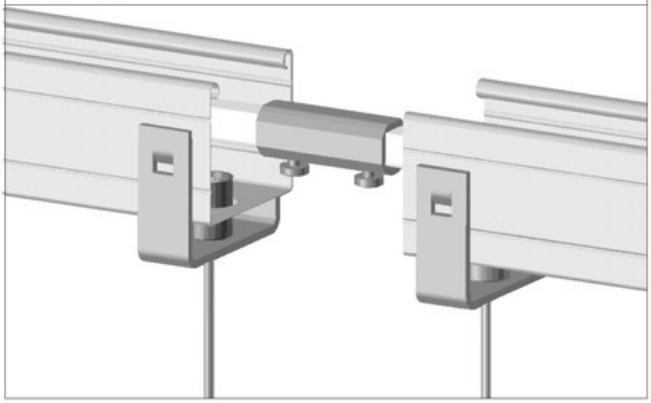
40° Timer;
lowering with slats 40° open



HEAD RAIL



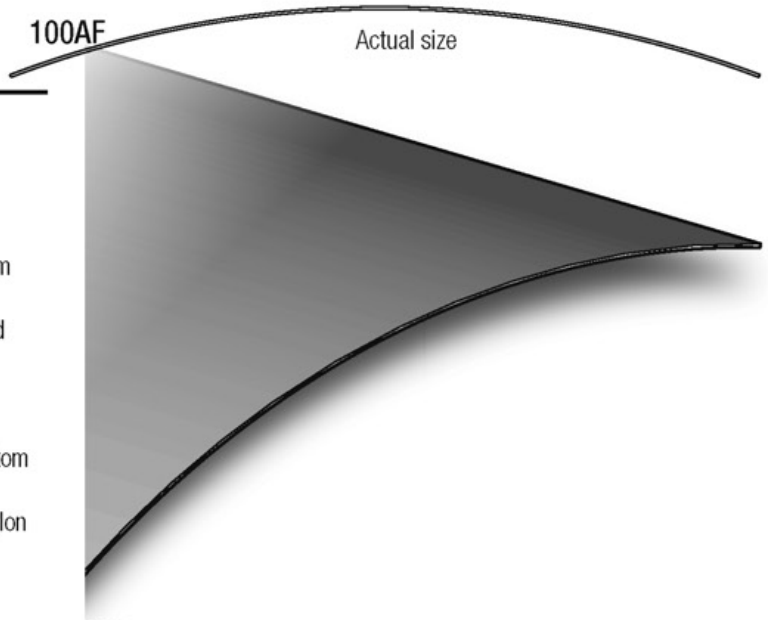
COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Dual Light Control
- Slow motion motor for more precise slat tilting
- Perforated slats
- Additional guiding cable(s)
- For possible motor controls see separately available documentation

EVB K100AF



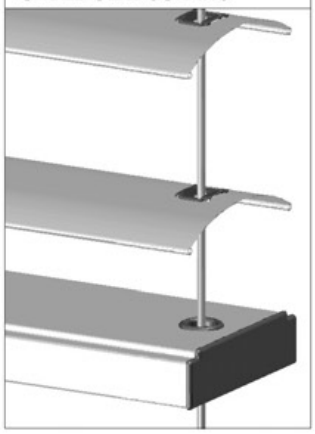
CRANK OPERATED EXTERNAL VENETIAN BLIND 100 MM SLATS WITH SIDE GUIDING CABLES

K100AF: flexible 100 mm slats

Description

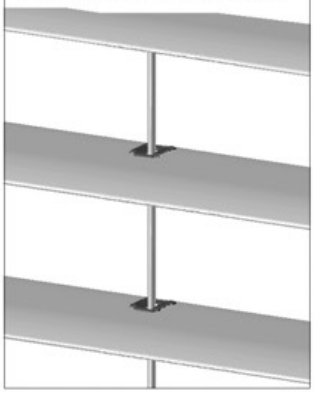
- Roll formed zinc-plated steel U-shaped head rail 57 x 51 mm
- Fixed 15 mm crank wand on the inside
- Positive tilting mechanism to prevent slat movement by wind
- Lowering with slats closed, raising with slats 25° open
- Roll formed coil coated 100 mm slats of partly recycled aluminium
- Natural anodised or powder coated extruded aluminium bottom rail 100 x 20 mm
- Tensioned stainless steel cable Ø 3 mm with transparent Nylon jacket
- Black bottom rail end caps, lift tape and Aramid reinforced polyester ladder cords
- UV and weather resistant components of mixed composition
- Wind stable as further determined by size and controls

CABLE SIDE GUIDING

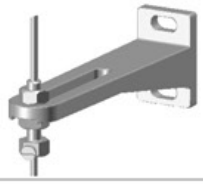


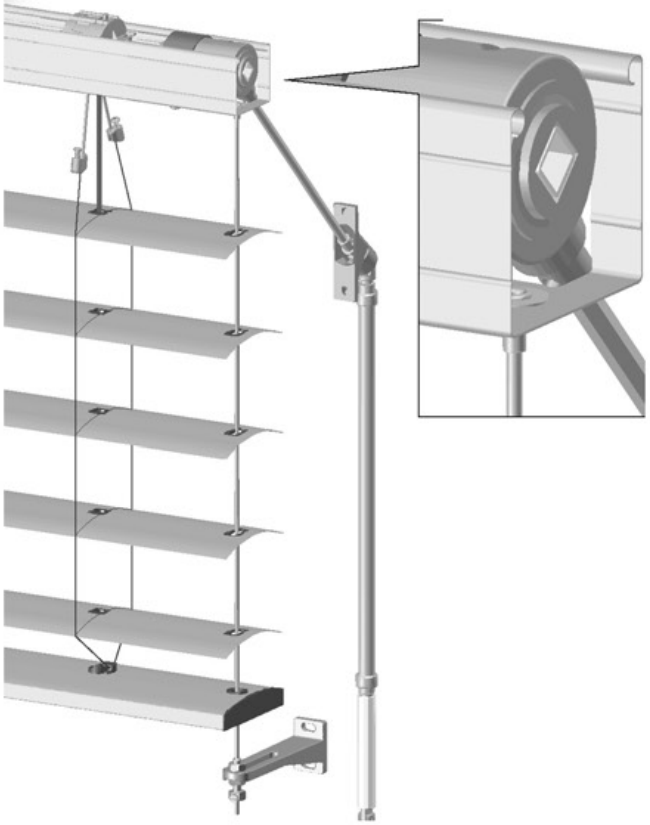
INTERMEDIATE GUIDING

For blind widths over 2.5 m.

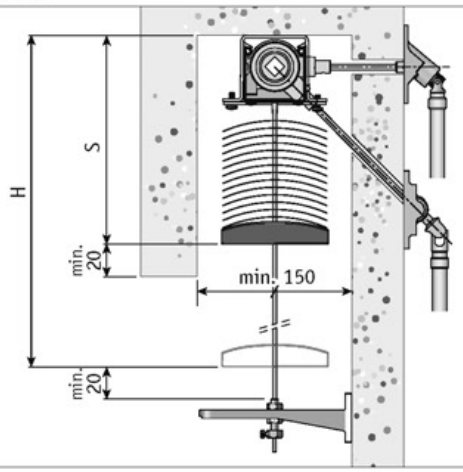


GUIDE CABLE BRACKET





SIDE VIEW



SIZE LIMITATIONS

		Width min. (cm)	Width max. (cm)	Height max. (cm)	Surface max. (m^2)
Single	K 100 AF	45	440	400	12
Group	K 100 AF		1000	400	12

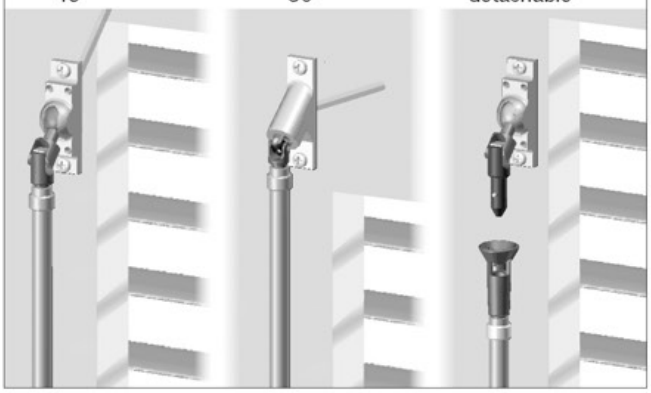
STACKING HEIGHT (MM) (intermediate blind heights on page 77)

Blind height H	Stacking height K100AF	Blind height H	Stacking height K100AF
1000	120	3000	160
1500	130	3500	170
2000	140	4000	180
2500	150		

OPTIONS K100AF

CRANK WAND

45° 90° detachable



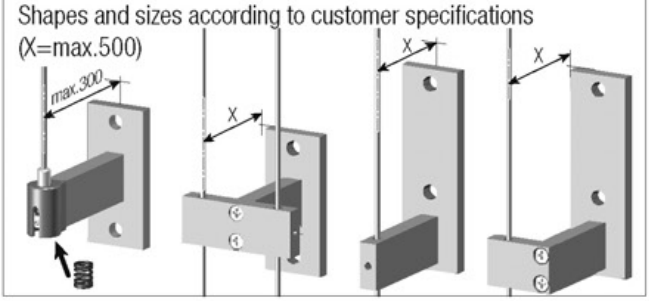
GUIDE CABLE BRACKETS

2 sizes (X, mm);
67 - 133
124 - 173

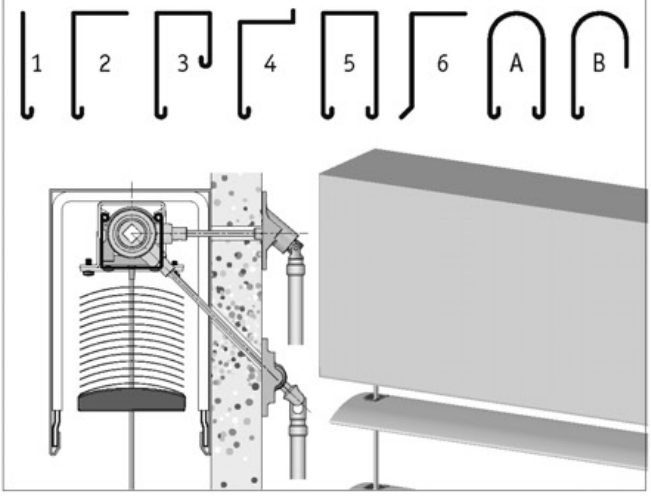
GUIDE CABLE BRACKETS, IDEFIX

HEAVY DUTY CABLE BRACKETS

Shapes and sizes according to customer specifications
(X=max.500)



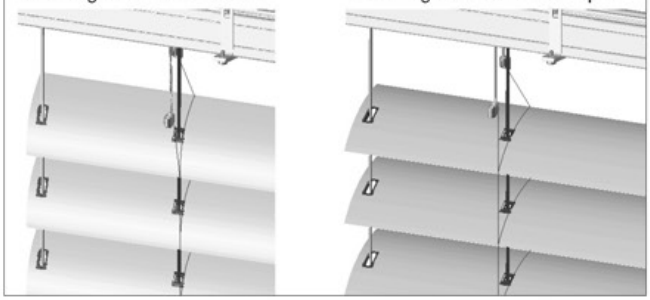
PELMET



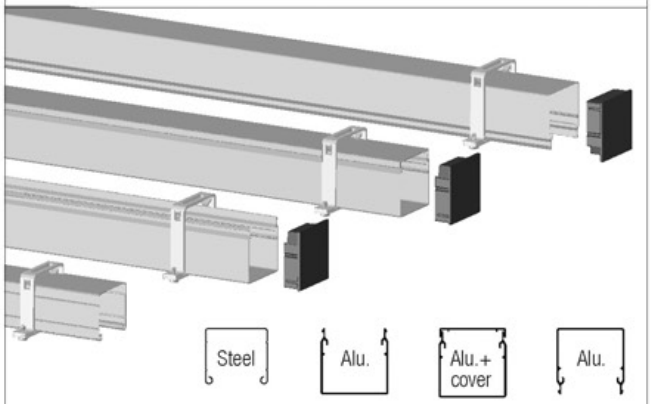
40° TIMER

Standard;
lowering with closed slats

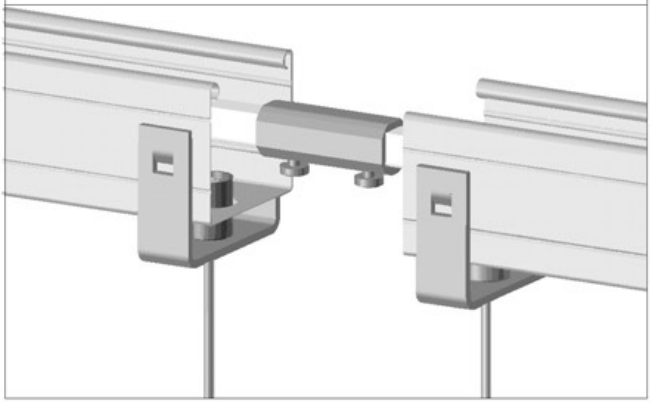
40° Timer;
lowering with slats 40° open



HEAD RAIL



COUPLING



FURTHER OPTIONS (Additional information on page 73)

- Spindle stop
- Dual Light Control
- Perforated slats
- Additional guiding cable(s)

Additional Information

EXTERNAL VENETIAN BLINDS

CONTENT

Dimensional restrictions

EXTERNAL VENETIAN BLINDS

				Dimensional restrictions						
				Single installation				Coupled installation		
				width		height	surface	width	height	surface
EVB type	slat width (mm)	operation	side guiding	min (cm)	max (cm)	max (cm)	max (m²)	max (cm)	max (cm)	max (m²)
EL 50 AF	50	motor	cable	51	400	400	16	800	400	20
K 50 AF	50	crank	cable	45	400	400	12	800	400	16
EL 60 A	60	motor	cable	51	500	450	16	1000	450	20
EL 60 AN	60	motor	cable	99	220	275	6	-	-	-
EL 60 AF	60 flexible	motor	cable	51	500	400	16	1000	400	20
EL 60 AFN	60 flexible	motor	cable	99	220	275	6	-	-	-
K 60 A	60	crank	cable	45	500	450	12	1000	450	12
K 60 AF	60 flexible	crank	cable	45	500	400	12	1000	400	12
EL 60 AS	60	motor	standard channels	58	500	400	16	1000	400	20
EL 60 ASN	60	motor	standard channels	99	220	275	6	-	-	-
EL 60 ASF	60 flexible	motor	standard channels	58	300	400	12	1000	400	20
K 60 AS	60	crank	standard channels	52	500	400	12	1000	400	12
K 60 ASF	60 flexible	crank	standard channels	52	300	400	12	900	400	12
EL 60 ASC	60	motor	click	78	350	400	12	-	-	-
EL 60 ASCF	60 flexible	motor	click	78	350	400	12	-	-	-
EL 60 ASS	60	motor	push-on guiding channels	56	300	250	7	1000	250	20
EL 60 ASSF	60 flexible	motor	push-on guiding channels	56	300	250	7	1000	250	20
K 60 ASS	60	crank	push-on guiding channels	50	300	250	7	1000	250	12
K 60 ASSF	60 flexible	crank	push-on guiding channels	50	300	250	7	1000	250	12
EL 60 ASK	60	motor	guiding mounted with clamping brackets	56	500	400	16	1000	400	20
EL 60 ASKN	60	motor	guiding mounted with clamping brackets	99	220	275	6	-	-	-
EL 60 ASKF	60 flexible	motor	guiding mounted with clamping brackets	56	300	400	12	1000	400	12
K 60 ASK	60	crank	guiding mounted with clamping brackets	50	500	400	12	1000	400	12
K 60 ASKF	60 flexible	crank	guiding mounted with clamping brackets	50	300	400	12	1000	400	12
EL 80 A	80	motor	cable	51	500	450	16	1000	450	20
EL 80 AN	80	motor	cable	99	220	275	6	-	-	-
EL 80 AF	80 flexible	motor	cable	51	500	400	16	1000	400	20
EL 80 AFN	80 flexible	motor	cable	99	220	275	6	-	-	-
K 80 A	80	crank	cable	45	500	450	12	1000	450	12
K 80 AF	80 flexible	crank	cable	45	500	400	12	1000	400	12
EL 80 AS	80	motor	standard channels	58	500	400	16	1000	400	20
EL 80 ASN	80	motor	standard channels	99	220	275	6	-	-	-
EL 80 ASF	80 flexible	motor	standard channels	58	300	400	12	1000	400	20

				Dimensional restrictions						
				Single installation				Coupled installation		
				width		height	surface	width	height	surface
EVB type	slat width (mm)	operation	side guiding	min (cm)	max (cm)	max (cm)	max (m²)	max (cm)	max (cm)	max (m²)
K 80 AS	80	crank	standard channels	52	500	400	12	1000	400	12
K 80 ASF	80 flexible	crank	standard channels	52	300	400	12	1000	400	12
EL 80 ASC	80	motor	click	78	350	400	12	-	-	-
EL 80 ASCF	80 flexible	motor	click	78	350	400	12	-	-	-
EL 80 ASS	80	motor	push-on guiding channels	56	300	250	7	1000	250	20
EL 80 ASSF	80 flexible	motor	push-on guiding channels	56	300	250	7	1000	250	20
K 80 ASS	80	crank	push-on guiding channels	50	300	250	7	1000	250	12
K 80 ASSF	80 flexible	crank	push-on guiding channels	50	300	250	7	1000	250	12
EL 80 ASK	80	motor	guiding mounted with clamping brackets	56	500	400	16	1000	400	20
EL 80 ASKW	80	motor	guiding mounted with clamping brackets	76	300	300	6	900	300	18
EL 80 ASKN	80	motor	guiding mounted with clamping brackets	99	220	275	6	-	-	-
EL 80 ASKF	80 flexible	motor	guiding mounted with clamping brackets	56	300	400	12	1000	400	20
K 80 ASK	80	crank	guiding mounted with clamping brackets	50	500	400	12	1000	400	12
K 80 ASKF	80 flexible	crank	guiding mounted with clamping brackets	50	300	400	12	1000	400	12
EL 88 AS	88	motor	standard channels	58	400	400	12	1000	400	16
K 88 AS	88	crank	standard channels	52	400	400	10	1000	400	10
EL 88 ASC	88	motor	click	78	350	400	12	-	-	-
EL 88 ASS	88	motor	push-on guiding channels	56	300	250	7	1000	250	16
K 88 ASS	88	crank	push-on guiding channels	50	300	250	7	1000	250	10
EL 88 ASK	88	motor	guiding mounted with clamping brackets	56	400	400	12	1000	400	16
K 88 ASK	88	crank	guiding mounted with clamping brackets	50	400	400	10	1000	400	10
ELV 88 AS	88	motor	standard channels	62	300	350	10	-	-	-
EL 100 AF	100 flexible	motor	cable	56	440	400	16	1000	400	20
K 100 AF	100 flexible	crank	cable	45	440	400	12	1000	400	12

Stacking height

EXTERNAL VENETIAN BLINDS

The table shows bundle indicative height dimension (=stacking height S) for motor operated blinds. For crank operated blinds the bundle height is 10 mm less. Add at least 20 mm tolerance to indicated bundle heights for pelmet heights and pre-fabricated cavities.
Add 10 mm / meter product height for blinds with 80 mm slats with inserts.
Add 15 mm for the stacking height for the option freehanging systems.
Add 20 mm for the stacking height for the quick raise systems.

Blind height incl. headrail bracket (mm)	50 mm slats	60 mm slats	60 mm slats wflexible (with guiding eyelet flex)		80 mm slats	80 mm slats flexible (with guiding eyelet flex)		88 mm slats	88 mm slats (lift tape inside guiding channels)	88 mm slats (lift tape inside guiding channels) heavy duty bottomrail	100 mm flexible (with guiding eyelet flex)
			cable	profile		cable	profile				
1000	127	183	142	164	173	133	153	170	200	220	130
1100	130	192	147	169	179	138	156	174	207	227	132
1200	132	200	151	171	185	142	159	178	214	234	134
1300	135	208	155	173	191	146	163	182	221	241	136
1400	137	215	160	175	197	150	169	186	228	248	138
1500	140	222	164	177	202	155	174	190	235	255	140
1600	142	230	168	179	209	160	176	196	242	262	142
1700	145	237	172	181	215	163	180	202	249	269	144
1800	147	245	176	183	222	166	183	208	256	276	146
1900	150	253	180	185	228	169	186	214	263	283	148
2000	152	260	185	201	234	172	189	230	270	290	150
2100	155	268	188	207	240	175	194	237	277	297	152
2200	157	276	192	218	246	178	199	244	284	304	154
2300	160	283	196	224	252	180	201	251	291	311	156
2400	162	290	200	230	258	183	204	258	298	318	158
2500	165	297	205	236	263	185	211	265	305	325	160
2600	167	305	209	238	270	188	216	272	312	332	162
2700	170	313	214	244	276	190	219	279	319	339	164
2800	172	325	217	246	282	193	224	286	326	346	166
2900	175	333	221	255	288	195	227	293	333	353	168
3000	177	340	225	260	294	197	232	300	340	360	170
3100	180	348	229	262	300	200	235	307	347	367	172
3200	183	356	232	266	306	202	238	314	354	374	174
3300	186	364	236	270	312	205	243	321	361	381	176
3400	189	372	239	274	318	208	246	328	368	388	178
3500	192	380	242	277	324	210	250	335	375	395	180
3600	195	388	245	281	330	213	256	342			182
3700	198	396	248	285	336	215	259	349			184
3800	201	404	250	288	342	218	261	356			186
3900	204	412	253	292	348	220	264	363			188
4000	207	420	256	296	354	222	267	370			190
4100		428			361						
4200		436			368						
4300		444			375						
4400		452			381						
4500		460			387						

Wind load

EXTERNAL VENETIAN BLINDS

WIND LIMITS

For External Venetian Blinds the use of wind limits is recommended depending on the product. If the limits are reached, the system must be retracted.

The table can be used for External Venetian Blinds with: Distance to the facade ≤ 100 mm
Slat thickness ≥ 0.4 mm
Blind height ≤ 2400 mm

Width (mm)	Beaded slats with side guiding (m/s)	Beaded slats with cable guiding (m/s)	Flexible slats with side guiding (m/s)	Flexible slats with cable guiding (m/s)
1500	17	17	17	17
2000	17	17	13	13
2500	17	13	13	13
3000	17	13	13	13
4000	13	13	10	10
5000	13	13	10	10

Attention!

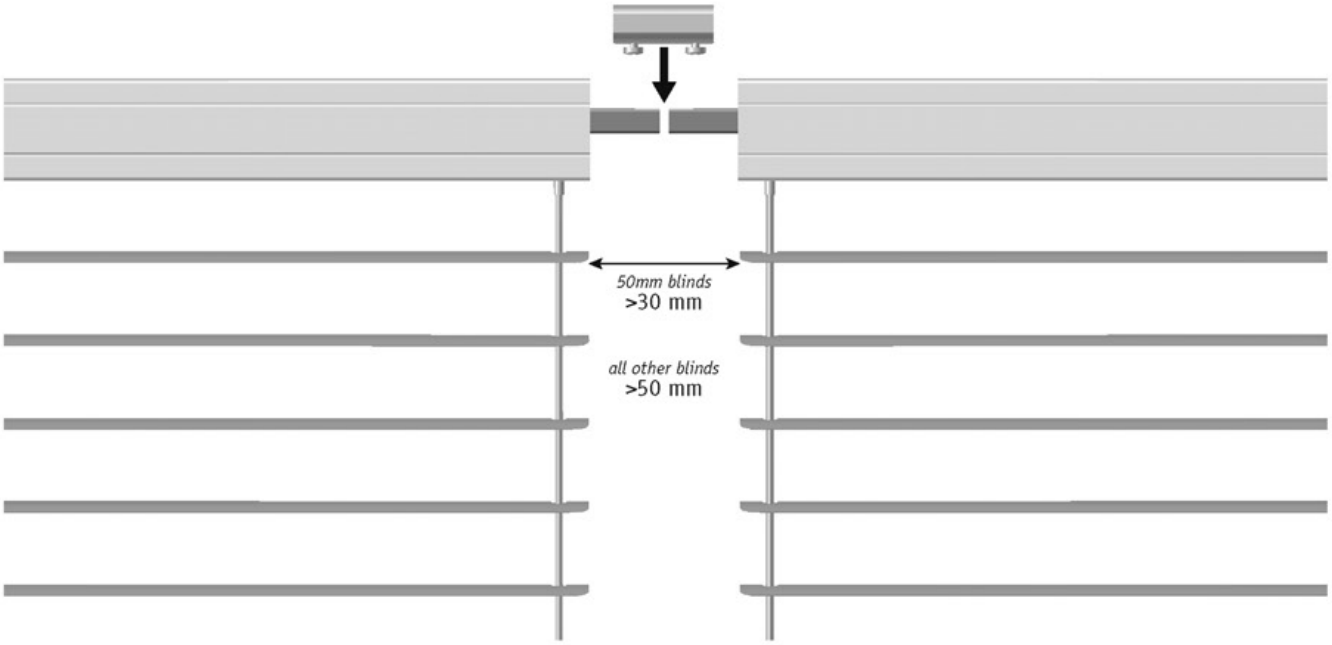
- 100 mm < Distance to the facade ≤ 300 mm, reduce the allowable wind force by 4 m/s
- 300 mm < Distance to the facade ≤ 500 mm, reduce the allowable wind force by 7 m/s
- Distance to the facade > 500 mm, the table is not valid

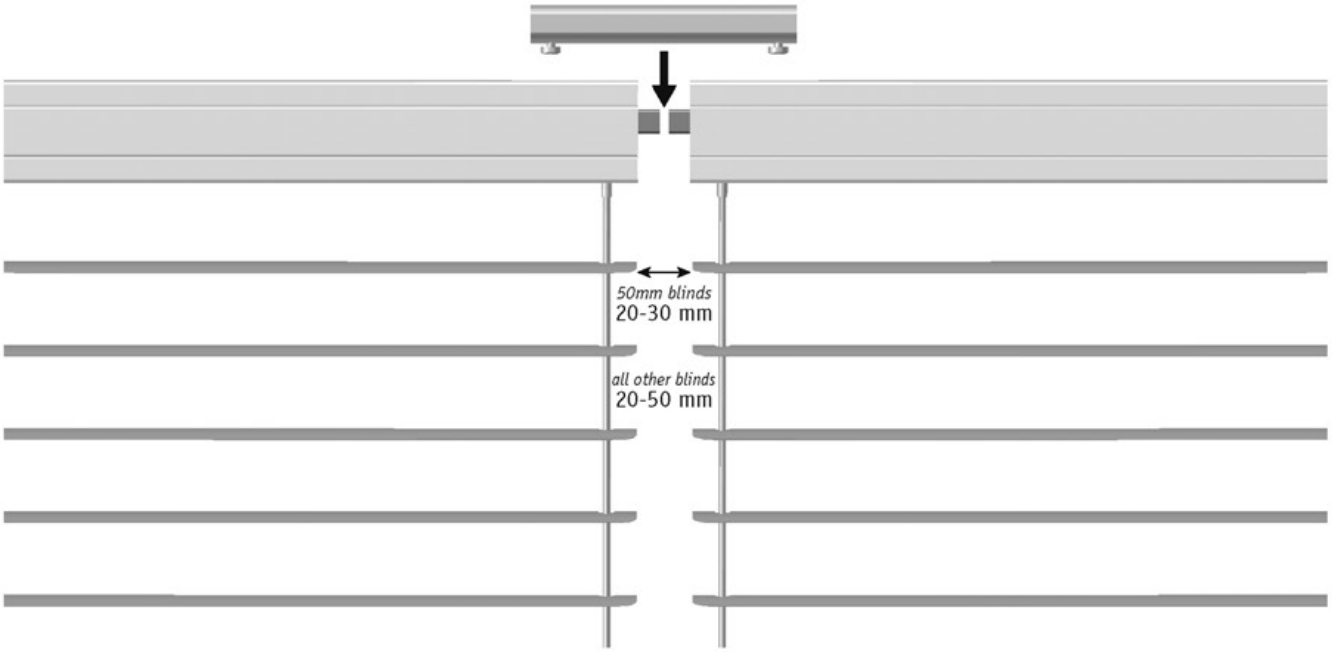
- Slat thickness < 0.4 mm, reduce the allowable wind force by 4 m/st

- 2400 mm < Blind height ≤ 4000 mm with tension cables, reduce the allowable wind force by 4 m/s
- Blind height > 4000 mm with tension cables, reduce the allowable wind force by 7 m/s

Coupling
EXTERNAL VENETIAN BLINDS

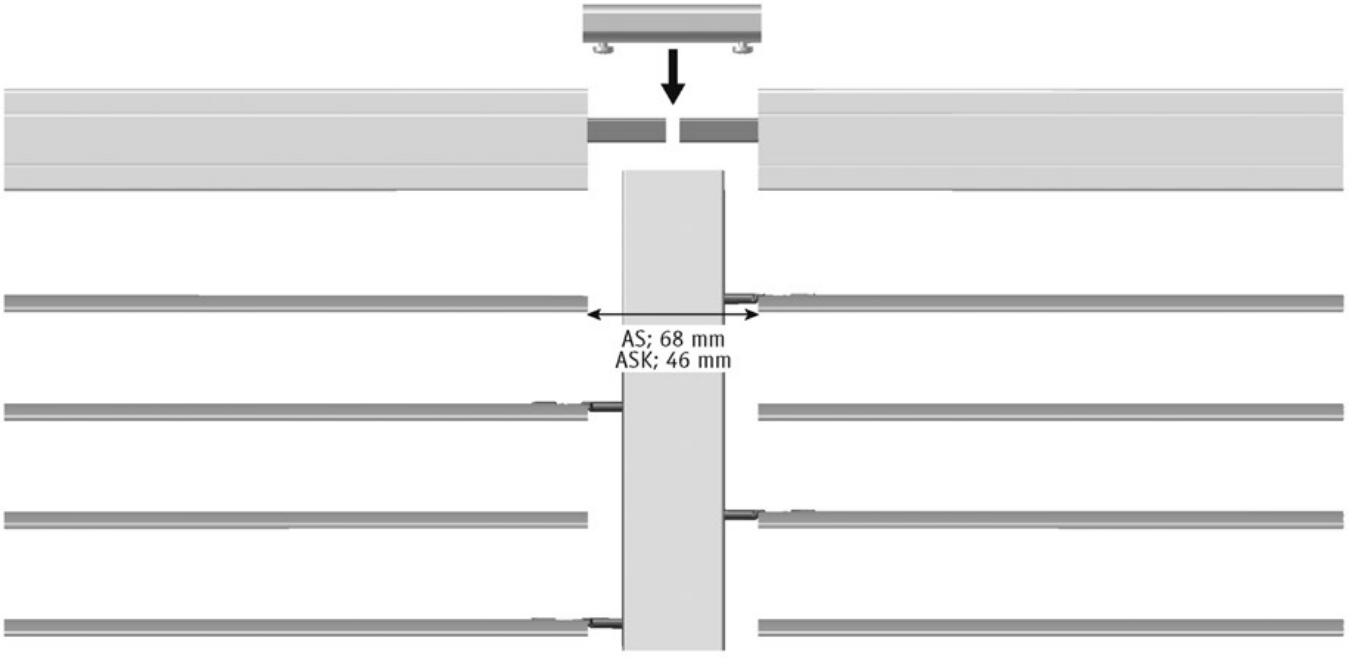
Type A

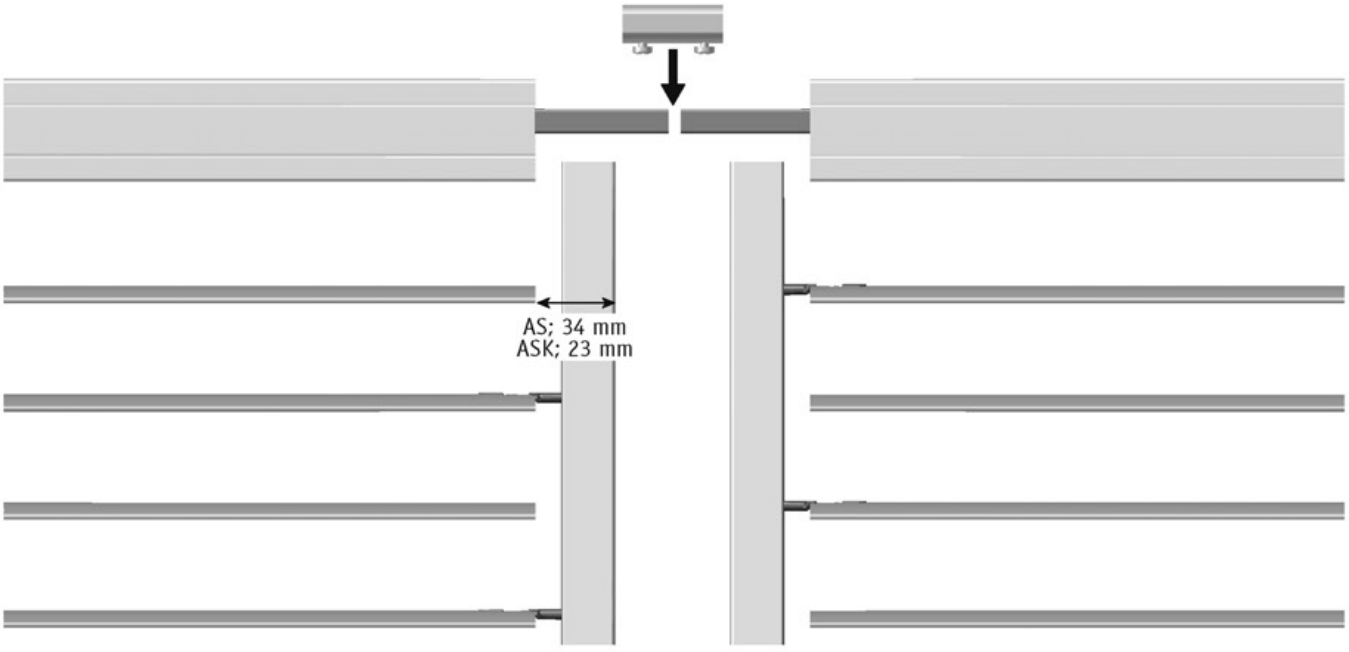


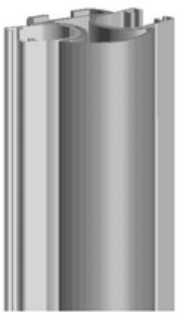


Coupling
EXTERNAL VENETIAN BLINDS

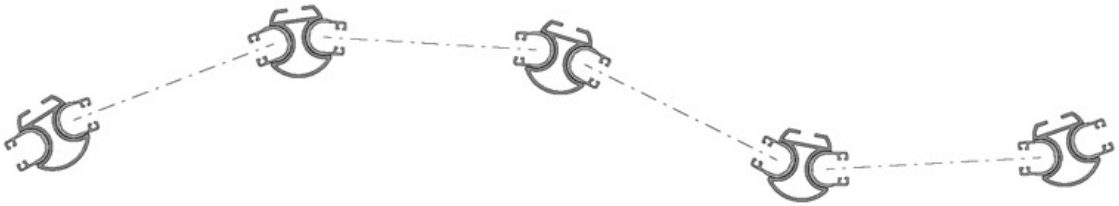
Type AS, ASK





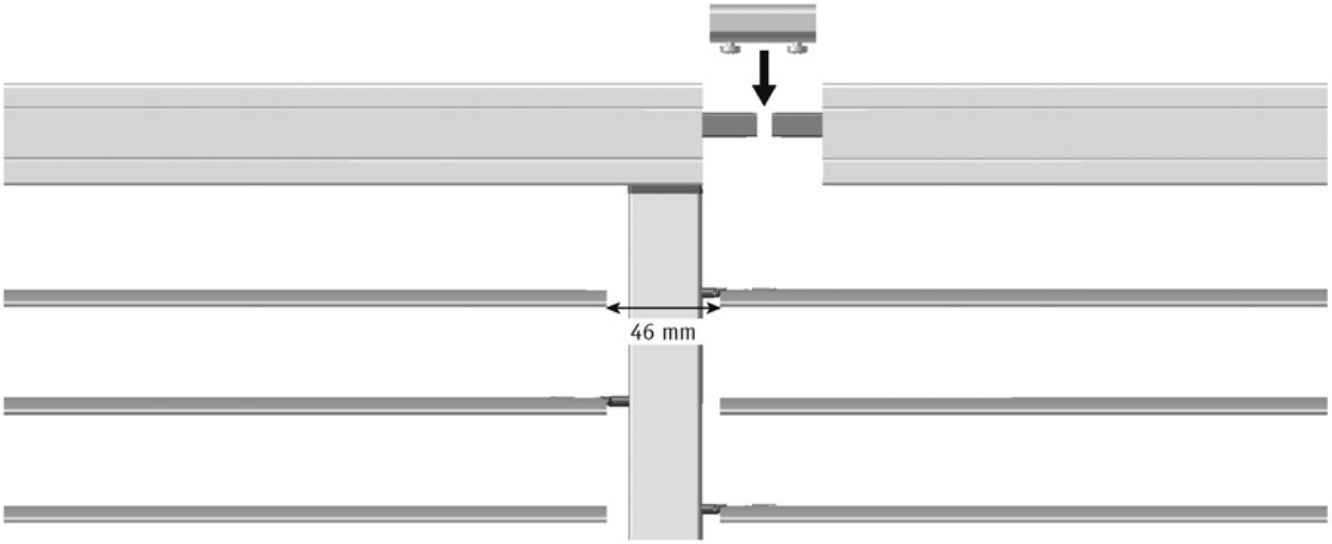


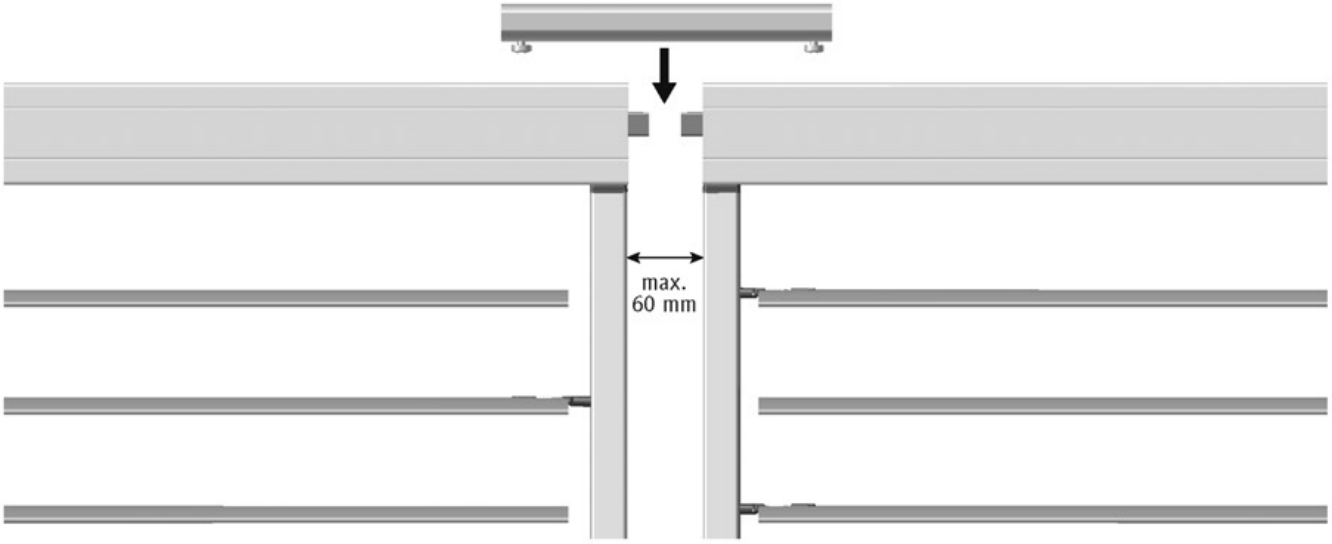
ASK for curved facades

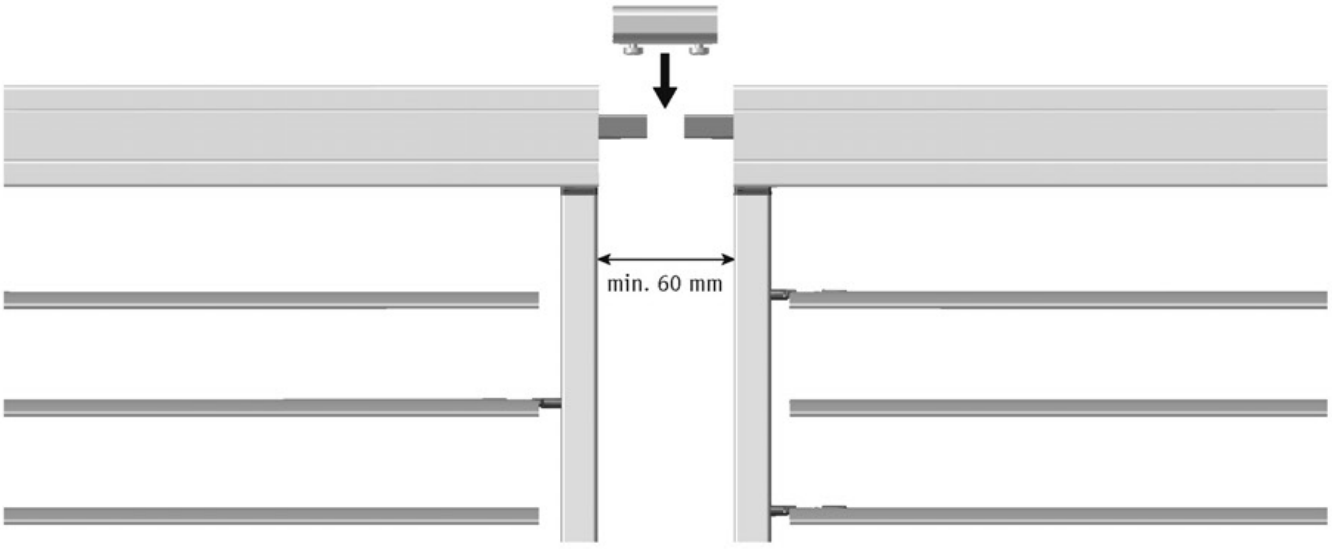


Coupling
EXTERNAL VENETIAN BLINDS

Type ASS



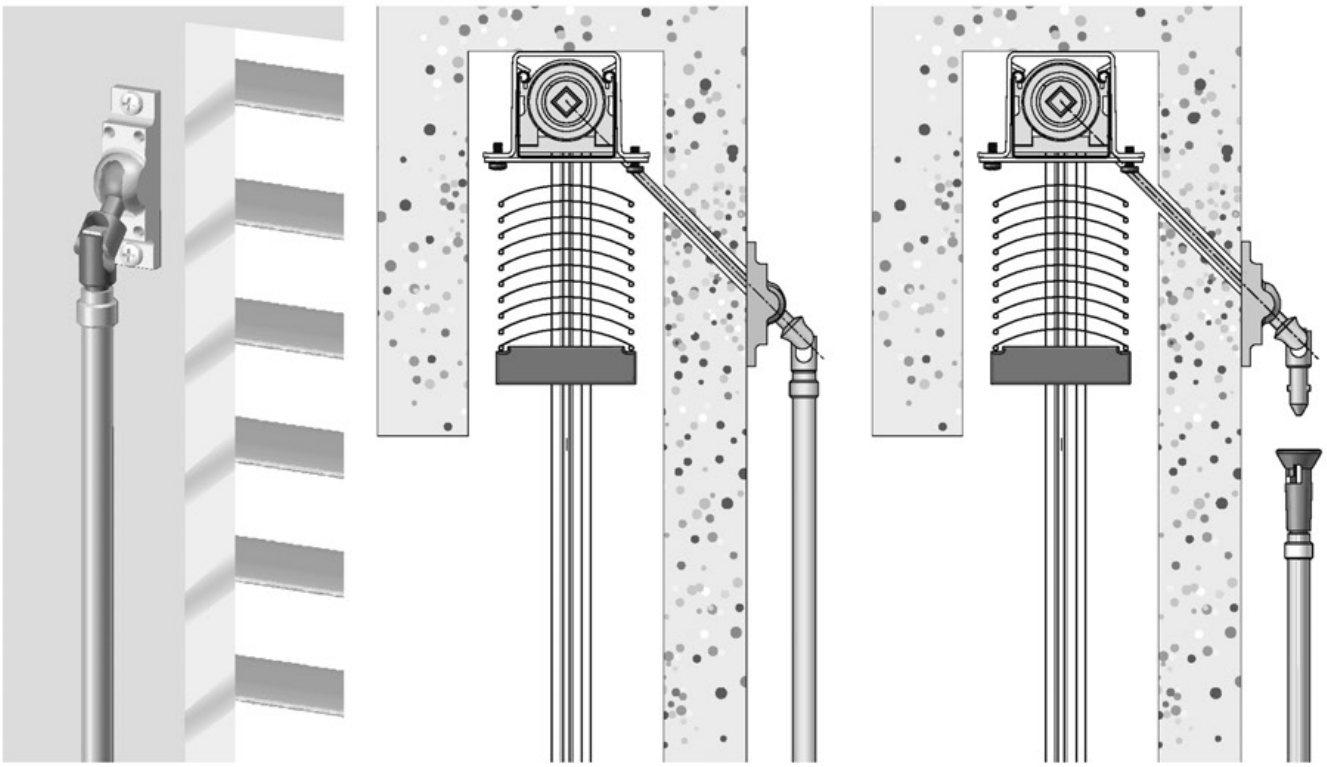




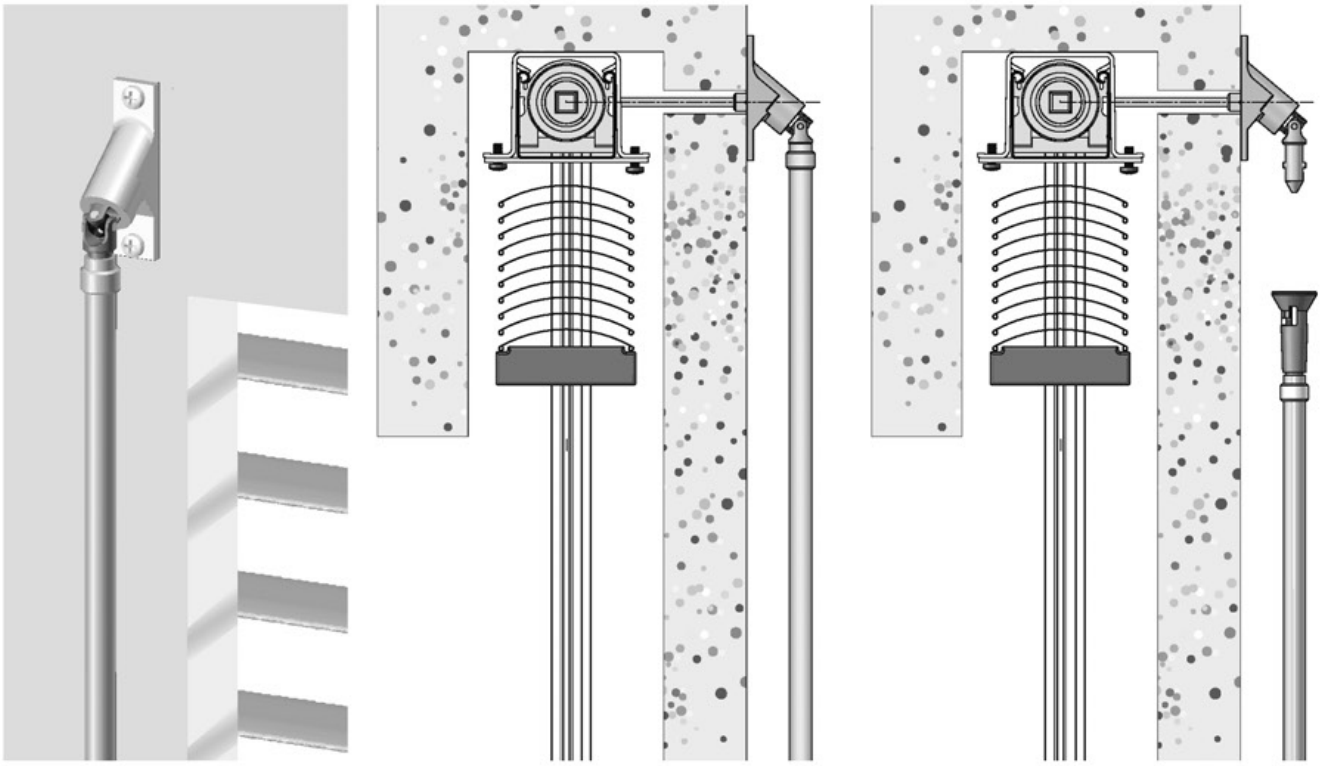
Crank

EXTERNAL VENETIAN BLINDS

45°

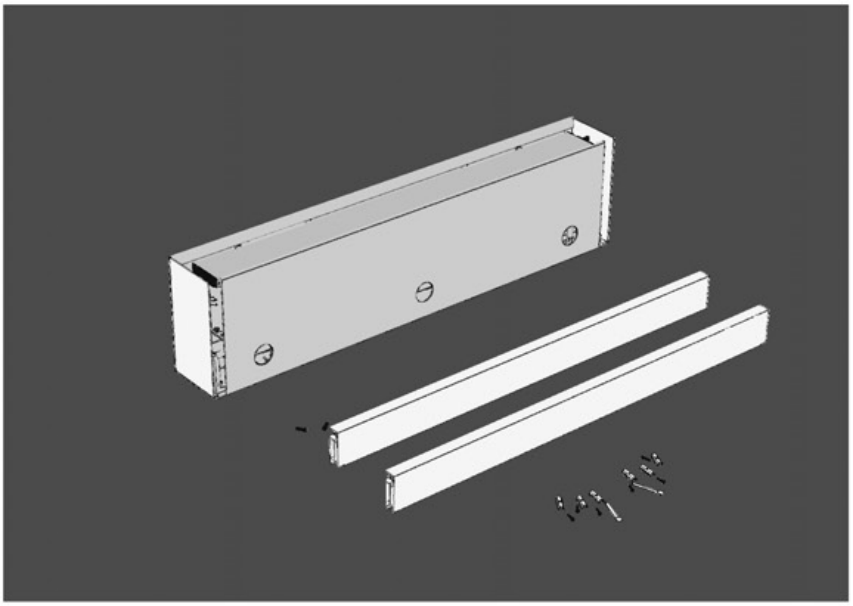


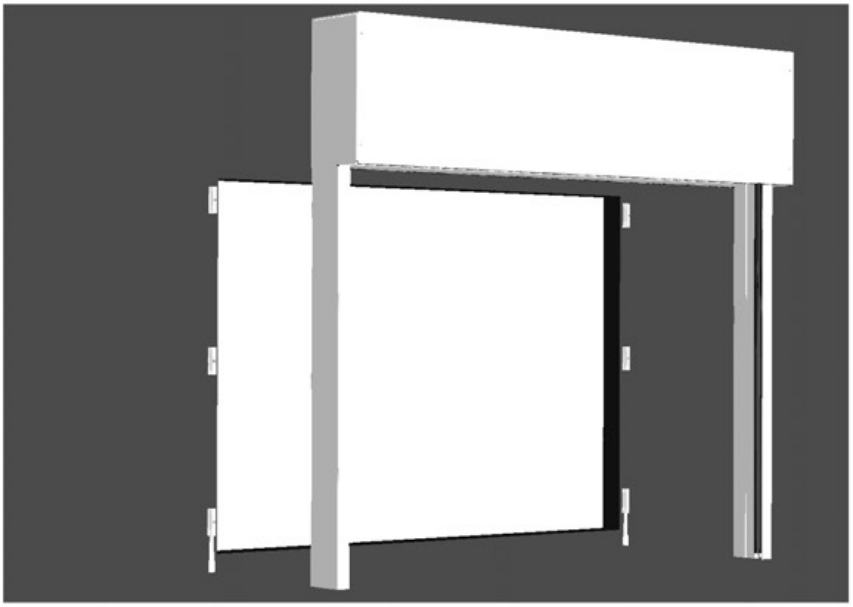
90°

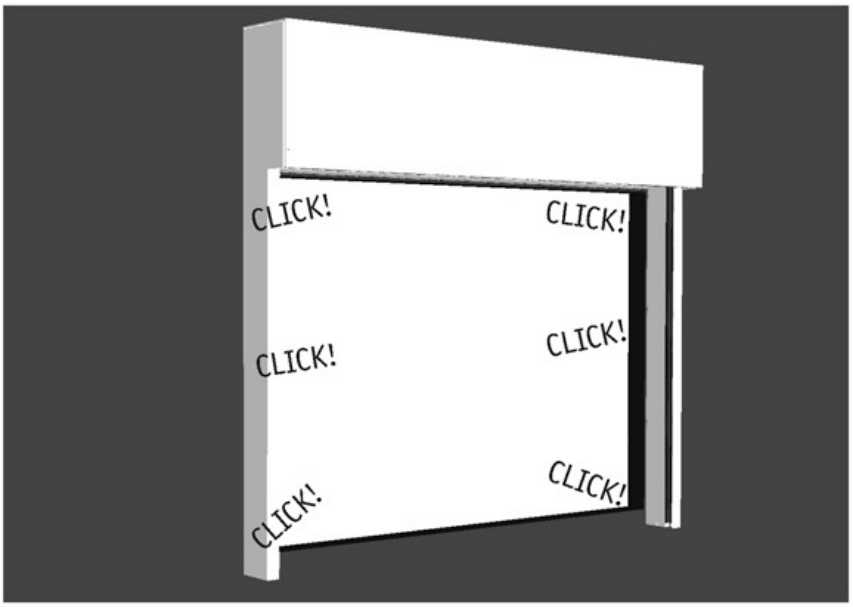


ASC, ASCF; “Click”

EXTERNAL VENETIAN BLINDS

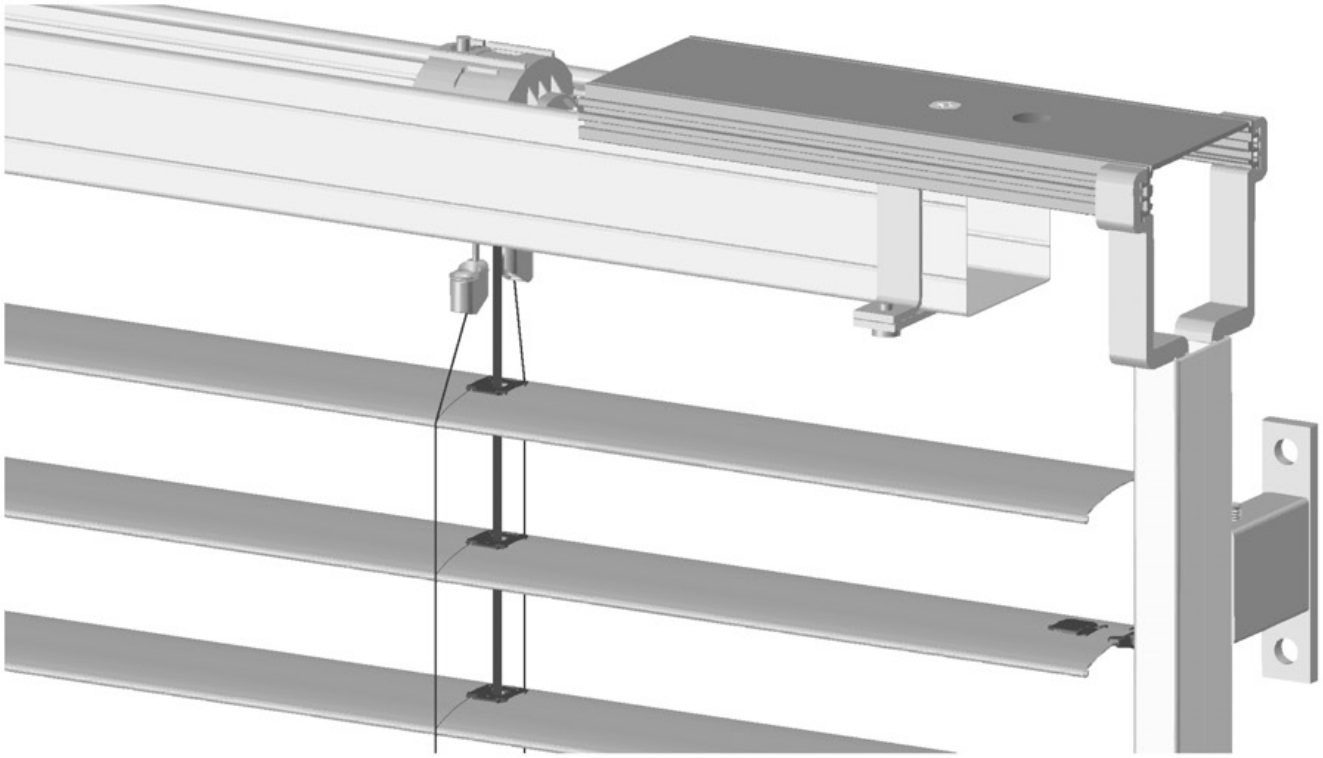


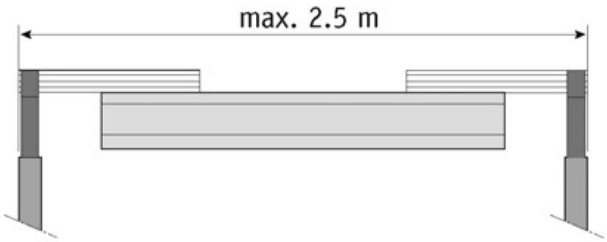


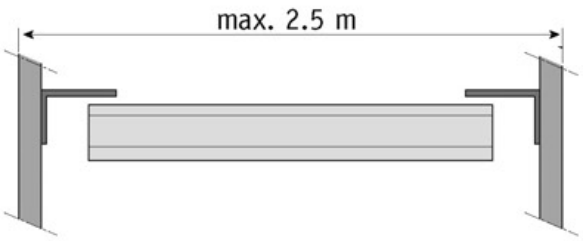


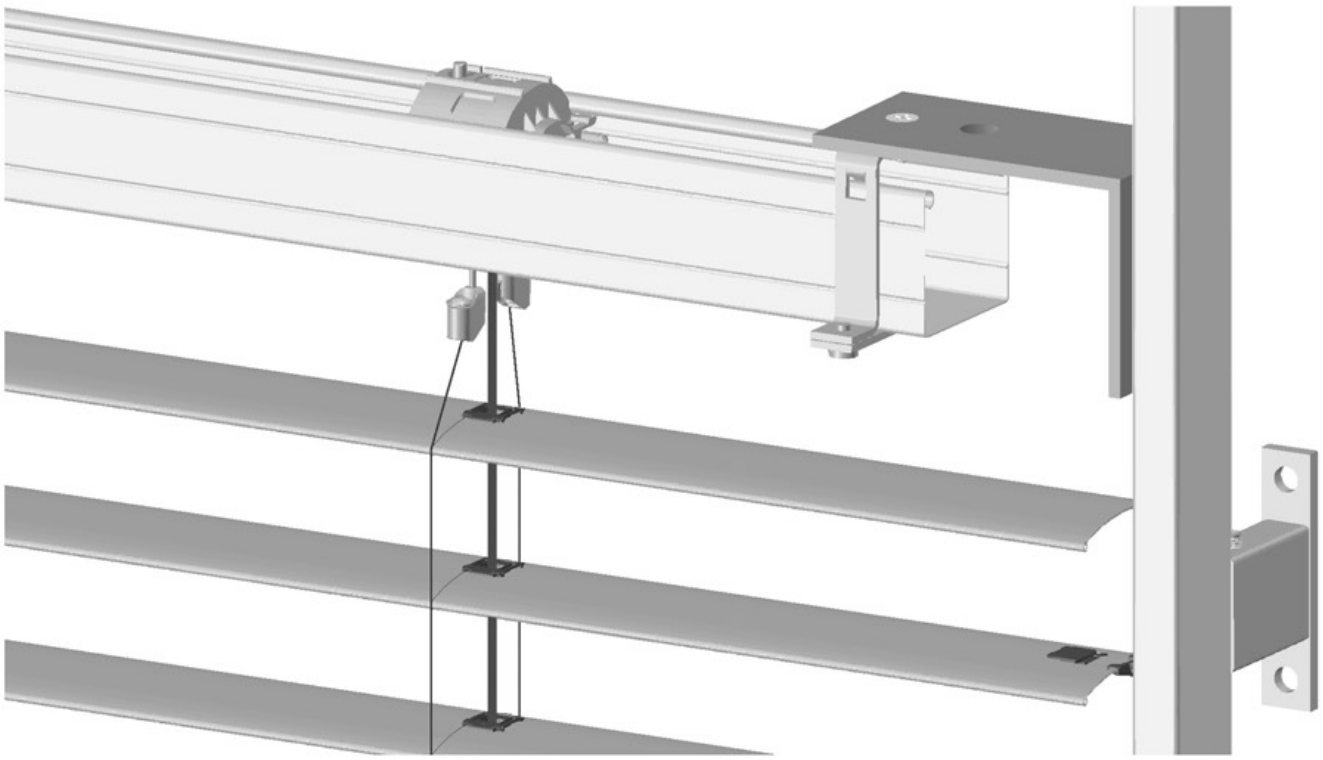
Free hanging

EXTERNAL VENETIAN BLINDS



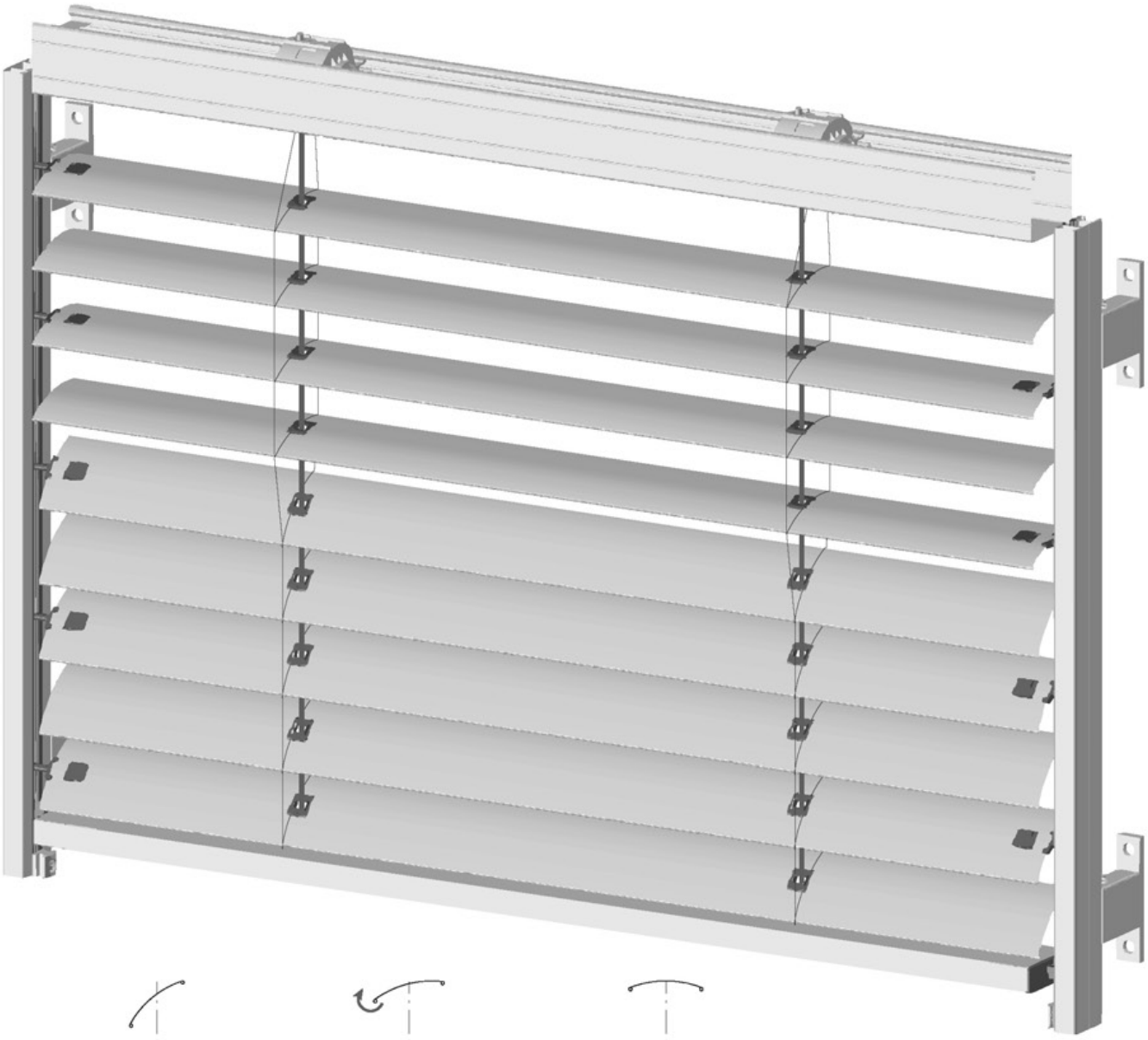


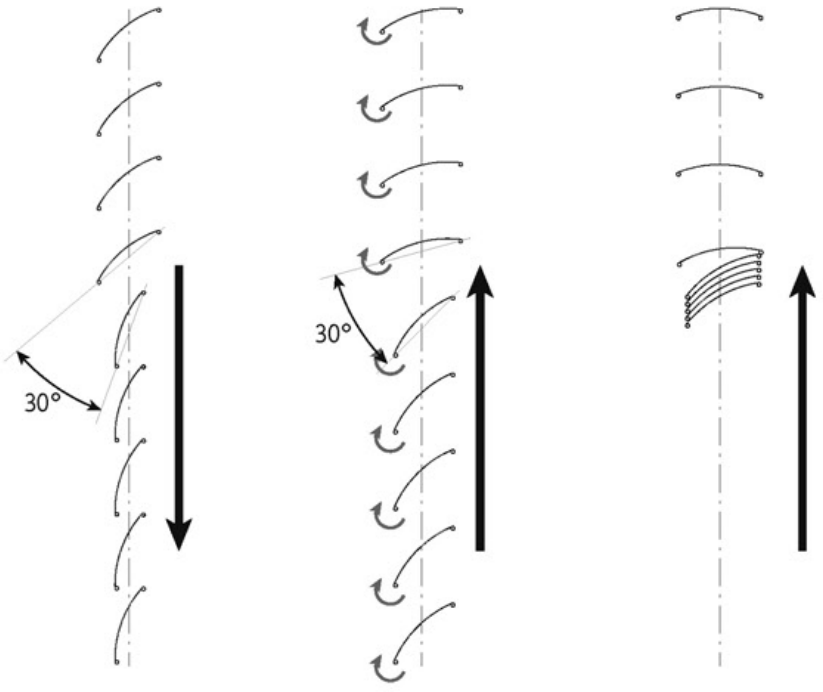




Dual Light Control

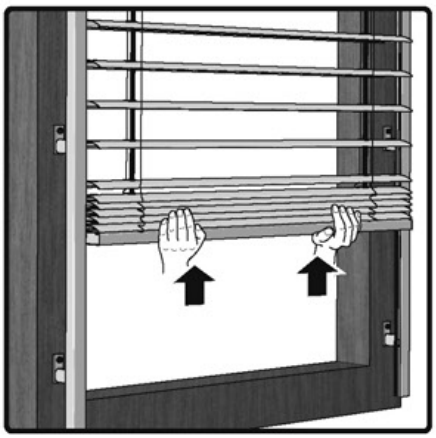
EXTERNAL VENETIAN BLINDS

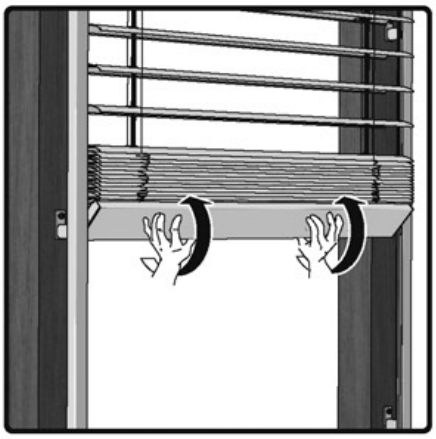


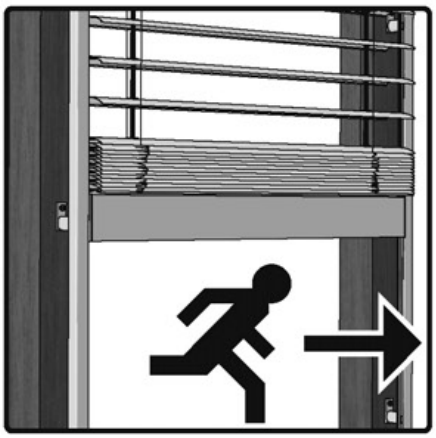


Lockable bottomrail

EXTERNAL VENETIAN BLINDS





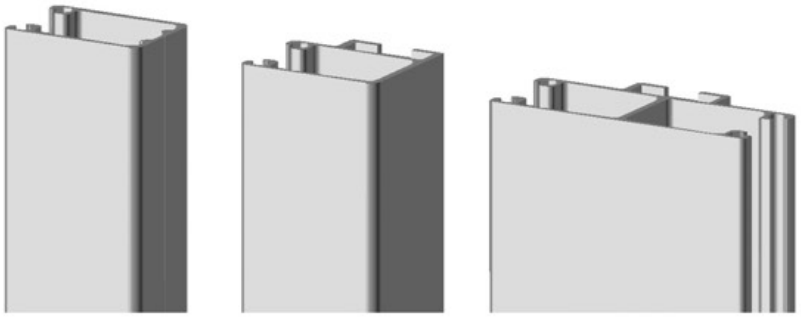


The option of a *manual operated bottom rail in case of emergency* is developed to create easy access from the exterior by lifting the bottom rail and lock in "up" position. This option is also usable in case of emergency from the inside. In that case the windows must open to the inside.

After lifting the bottom rail it can be locked by turning the bottom rail 90°. The locking pins on each side of the bottom rail will be locking in the side guiding profiles. The bottom rail will remain in "up" position.

Characteristics

- Available for 60, 60 flex, 80 and 80 flex slats
- Only with use of 80 mm bottomrail
- Suitable with side guidings:



- Length of the bottomrail is the same as at a normal blind
- Dimensions blind:
  - 800 mm < W ≤ 2200 mm
  - H ≤ 4000 mm
- Maximum position of the bottomrail in emergency function: due to the weight of the slats this is set to 2500 mm above bottom position
- Not for 88 and 100 mm slats
- Not suitable for cable guiding

A semi-transparant windowsticker (graphics shown on the left, appr. 85mm x 300mm) is available to indicate the windows that are equipped with a blind with lockable bottomrail.

Quick Raise Spring Operated

EXTERNAL VENETIAN BLINDS

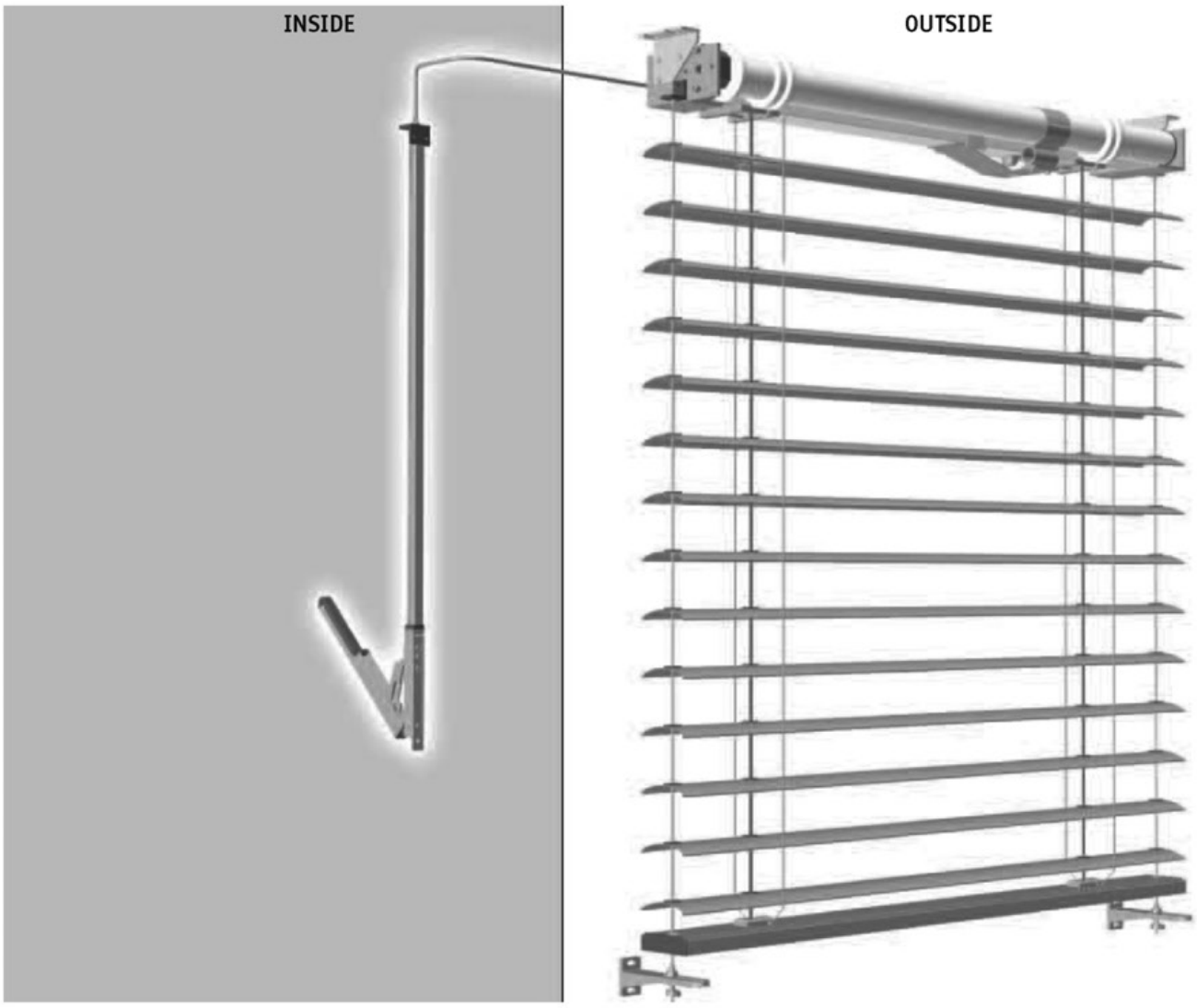
60 OR 80 MM SLATS, BEADED OR FLEXIBLE

- Quick raise by lever operation, blind raises within 1 second
- Can be used for openings in the façade where a uniform view of the buildings is required
- Reset function available, so the quick raise operation can be used several times
- Side guiding: by cable (type A) or guiding rails (type AS or ASK)
- Patented HD connecting system between bottom rail and lift cord
- Blind operation by motor
- Raising or lowering the blind with normal function takes twice the time of the other blinds

Dimensions

Maximum Surface: 6.6 m^2

	Maximum	Minimum
Width (mm)	2200	990
Height (mm)	3000	



Quick Raise Motorised

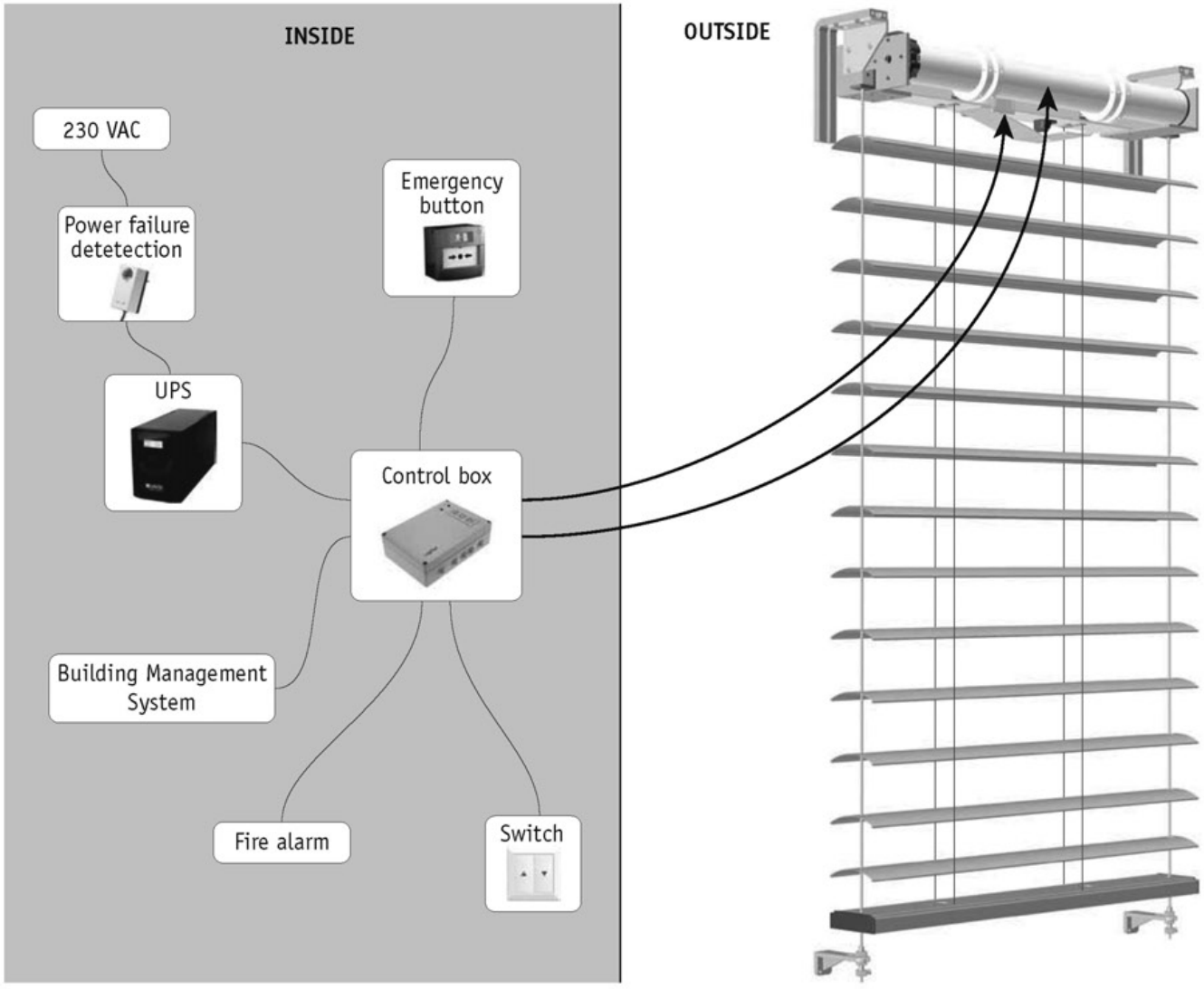
EXTERNAL VENETIAN BLINDS

60 OR 80 MM, BEADED OR FLEXIBLE

- Quick raise by motor operation, blind raises within 5 seconds
- Can be used for openings in the façade where a uniform view of the buildings is required
- Side guiding: by cable (type A) or guiding rails (type AS or ASK)
- Blind operation by motor
- Raising or lowering the blind with normal function takes twice the time of the other blinds
- Quick raise through second motor
- Separate control system for quick raise function
  Operation through activating:
  - Emergency button
  - Fire alarm
  - Building management system
- UPS is back up energy source for quick raise function
- Patented HD connecting system between bottom rail and lift cord

Dimensions
Maximum Surface: 6.6 m^2

	Maximum	Minimum
Width (mm)	2200	990
Height (mm)	3000	



Building physics

EXTERNAL VENETIAN BLINDS

BUILDING PHYSICS DATA

		Light values EN 410	Energy values EN 410	EN 13363-1				Slat angle 45° Sun angle 30°				
Colour number	Description	Reflectance visible (%)	Reflectance solar (%)	gtot (glazing B)	gtot (glazing C)	gtot (glazing D)	Fc (glazing C)	Solar transmittance	Solar reflectance	Solar absorptance	Visual transmittance	Visual reflectance to the outside
0141	Chalk blue	84.2	76.9	0.03	0.02	0.02	0.03	0.19	0.53	0.28	0.21	0.58
0193	Traffic white	92.9	78.9	0.03	0.02	0.02	0.03	0.21	0.57	0.22	0.25	0.66
0264	Clean white	92.7	78.1	0.03	0.02	0.02	0.03	0.19	0.52	0.29	0.22	0.6
0298	White frost	73.4	66.5	0.05	0.03	0.03	0.04	0.16	0.45	0.39	0.17	0.5
0663	Light grey	63.4	53.9	0.07	0.04	0.04	0.06	0.13	0.37	0.5	0.14	0.42
0664	Agate grey	47.7	40.1	0.09	0.05	0.05	0.07	0.09	0.27	0.64	0.11	0.31
1547	Dusty grey	23.4	20.6	0.12	0.07	0.07	0.10	0.06	0.13	0.81	0.06	0.15
1645	Obsidian	8.4	8.1	0.14	0.08	0.08	0.11	0.05	0.05	0.9	0.05	0.06
1699	Black frost	8.9	10.9	0.14	0.08	0.07	0.11	0.04	0.03	0.93	0.04	0.03
1740	Umbra grey	10.2	10	0.14	0.08	0.07	0.11	0.05	0.07	0.88	0.05	0.07
1849	Jet Black	4.5	4.5	0.15	0.08	0.08	0.12	0.04	0.03	0.93	0.04	0.03
2343	Pigeon blue	23.5	25.7	0.12	0.07	0.06	0.09	0.07	0.17	0.76	0.06	0.15
2440	Blue vase	12.1	28.1	0.11	0.06	0.06	0.09	0.08	0.19	0.73	0.05	0.08
2743	Deep blue	8.7	27.4	0.11	0.06	0.06	0.09	0.08	0.19	0.73	0.05	0.06
3240	Robin hood woods	8.4	16.1	0.13	0.07	0.07	0.10	0.06	0.11	0.83	0.05	0.05
4041	Gold gleam	58.8	58.9	0.06	0.04	0.03	0.05	0.14	0.37	0.49	0.12	0.32
4441	Pearl white	79.8	69	0.05	0.03	0.03	0.04	0.17	0.48	0.35	0.2	0.55
4443	Light Ivory	71.7	65.3	0.05	0.03	0.03	0.04	0.16	0.44	0.4	0.17	0.49
4540	French silk	61.8	57.4	0.07	0.04	0.04	0.05	0.14	0.39	0.47	0.14	0.41
4742	Gaucho espresso	36.8	36.1	0.10	0.06	0.05	0.08	0.08	0.22	0.7	0.08	0.21
4846	Espresso	8.3	9.5	0.14	0.08	0.07	0.11	0.05	0.06	0.89	0.05	0.05
4872	Spartan brown	8.8	8.4	0.14	0.08	0.08	0.11	0.05	0.06	0.89	0.05	0.06
5043	Toreador	9.3	34.1	0.10	0.06	0.05	0.08	0.09	0.23	0.68	0.05	0.06
7040	Silvercloud	54.1	53.3	0.07	0.04	0.04	0.06	0.12	0.35	0.53	0.12	0.36
7042	Grey aluminium	43.1	46.5	0.08	0.05	0.04	0.07	0.1	0.31	0.59	0.1	0.28
7043	Silver grey metallic DB 703	14.4	14.6	0.13	0.08	0.07	0.13	0.05	0.09	0.86	0.05	0.09
7082	Silver frost	48.9	49.4	0.08	0.04	0.04	0.06	0.11	0.33	0.56	0.11	0.32
7140	Burnished bronce	23.2	25.6	0.12	0.07	0.06	0.09	0.07	0.17	0.76	0.06	0.15
7141	Pearl mouse grey	32.6	34.8	0.10	0.06	0.05	0.08	0.08	0.23	0.69	0.08	0.21
7148	Mink brown	9.1	11.4	0.14	0.08	0.07	0.11	0.05	0.07	0.88	0.05	0.06
8569	Brown Oak TF	20.5	23.2	0.12	0.07	0.06	0.10	0.06	0.15	0.79	0.06	0.13
8570	Red Oak TF	9.3	11.4	0.14	0.08	0.07	0.11	0.05	0.07	0.88	0.05	0.06

The building physics data has been calculated based on the EN 13363-2

Glazing B clear double glazing (4mm float + 12 mm space + 4 mm float) space filled with air, Ug= 2,90, g= 0,76
Glazing C double glazing (4mm float + 16 mm space + 4 mm float) space filled with argon, low emissivity coating at outer surface of the inner pane, Ug= 1,20, g= 0,59
Glazing D Reflective double glazing 4 + 16 + 4 with a low emissivity soft coating at inner surface of the outer pane, space filled with argon, Ug= 1,10, g= 0,32

		Slat angle 82° (closed) Sun angle 1°							Slat angle 0° (horizontal) Sun angle 45°						
Visual absorptance	Colour rendering index	Solar transmittance	Solar reflectance	Solar absorptance	Visual transmittance	Visual reflectance to the outside	Visual absorptance	Colour rendering index	Solar transmittance	Solar reflectance	Solar absorptance	Visual transmittance	Visual reflectance to the outside	Visual absorptance	Colour rendering index
0.21	96	0.04	0.71	0.25	0.04	0.78	0.18	95	0.36	0.33	0.31	0.39	0.37	0.24	97
0.09	97	0.04	0.76	0.2	0.06	0.88	0.06	96	0.39	0.37	0.24	0.46	0.44	0.1	97
0.18	98	0.04	0.71	0.25	0.05	0.81	0.14	97	0.36	0.33	0.31	0.41	0.39	0.2	98
0.33	96	0.03	0.62	0.35	0.03	0.69	0.28	94	0.3	0.27	0.43	0.33	0.3	0.37	96
0.44	97	0.02	0.52	0.46	0.03	0.59	0.38	96	0.25	0.21	0.54	0.28	0.25	0.47	97
0.58	98	0.01	0.38	0.61	0.02	0.44	0.54	98	0.18	0.14	0.68	0.21	0.17	0.62	98
0.79	99	0.01	0.19	0.8	0.01	0.22	0.77	99	0.11	0.06	0.83	0.12	0.07	0.81	99
0.89	99	0	0.08	0.92	0	0.08	0.92	99	0.08	0.02	0.9	0.08	0.03	0.89	98
0.93	100	0	0.05	0.95	0	0.04	0.96	100	0.07	0.02	0.91	0.07	0.01	0.92	100
0.88	100	0	0.1	0.9	0	0.1	0.9	99	0.08	0.03	0.89	0.08	0.03	0.89	99
0.93	100	0	0.05	0.95	0	0.04	0.96	100	0.07	0.01	0.92	0.07	0.01	0.92	100
0.79	90	0.01	0.25	0.74	0.01	0.22	0.77	84	0.13	0.09	0.78	0.12	0.07	0.81	89
0.87	90	0.01	0.27	0.72	0.01	0.11	0.88	85	0.15	0.1	0.75	0.09	0.04	0.87	85
0.89	89	0.01	0.26	0.73	0	0.08	0.92	83	0.15	0.1	0.75	0.08	0.03	0.89	84
0.9	96	0.01	0.16	0.83	0	0.08	0.92	96	0.11	0.05	0.84	0.08	0.03	0.89	93
0.56	55	0.03	0.51	0.46	0.02	0.45	0.53	38	0.26	0.22	0.52	0.23	0.19	0.58	54
0.25	94	0.03	0.66	0.31	0.04	0.75	0.21	93	0.33	0.3	0.37	0.37	0.34	0.29	95
0.34	87	0.03	0.61	0.36	0.03	0.67	0.3	83	0.3	0.26	0.44	0.32	0.29	0.39	89
0.45	87	0.02	0.55	0.43	0.03	0.58	0.39	81	0.26	0.23	0.51	0.27	0.24	0.49	88
0.71	90	0.01	0.32	0.67	0.01	0.31	0.68	84	0.16	0.11	0.73	0.15	0.11	0.74	89
0.9	97	0	0.09	0.91	0	0.08	0.92	97	0.08	0.03	0.89	0.08	0.02	0.9	95
0.89	100	0	0.08	0.92	0	0.08	0.92	99	0.08	0.03	0.89	0.08	0.03	0.89	99
0.89	75	0.01	0.33	0.66	0	0.09	0.91	61	0.18	0.13	0.69	0.08	0.03	0.89	63
0.52	97	0.02	0.49	0.49	0.02	0.5	0.48	95	0.23	0.2	0.57	0.24	0.2	0.56	97
0.62	99	0.02	0.44	0.54	0.01	0.4	0.59	99	0.21	0.17	0.62	0.19	0.15	0.66	99
0.86	100	0.01	0.13	0.86	0.01	0.13	0.86	100	0.09	0.04	0.87	0.1	0.04	0.86	100
0.57	99	0.02	0.46	0.52	0.02	0.45	0.53	98	0.22	0.18	0.6	0.21	0.17	0.62	99
0.79	97	0.01	0.24	0.75	0.01	0.22	0.77	95	0.13	0.08	0.79	0.12	0.07	0.81	96
0.71	97	0.01	0.33	0.66	0.01	0.3	0.69	96	0.16	0.12	0.72	0.15	0.11	0.74	97
0.89	99	0.01	0.11	0.88	0	0.09	0.91	98	0.09	0.04	0.87	0.08	0.03	0.89	98
0.81	91	0.01	0.21	0.78	0.01	0.19	0.8	85	0.12	0.07	0.81	0.11	0.06	0.83	88
0.89	95	0.01	0.1	0.89	0	0.08	0.92	94	0.09	0.03	0.88	0.08	0.03	0.89	91

The building physics data has been calculated based on the EN 13363-2

HUNTER DOUGLAS ARCHITECTURAL PRODUCTS

In the last 50 years, we've been fortunate enough to help turn countless innovative sketches into innovative buildings.

Architects, designers, investors and contractors from around the world have taken advantage of Hunter Douglas' unmatched product development, service and support. Chances are, you've seen more of Hunter Douglas than you think.

With major operation centres in Europe, North America, Latin America, Asia and Australia, we've contributed to thousands of high-profile projects, from retail and commercial facilities to major transit centres and government buildings.

Not only are the world's architects and designers our partners, they're our inspiration. They continue to raise the bar for excellence. We create products that help bring their visions to life: Window Coverings, Ceilings, Sun Control Systems and Façades.

PEFC

Promoting sustainable forest management
www.pefc.org

keen on green

Hunter Douglas products and solutions are designed to improve indoor environmental quality and conserve energy, supporting built environments that are comfortable, healthy, productive, and sustainable.

alu

Our paint and aluminium melting processes are considered to be one of the industry standards in terms of clean production processes. All aluminium products are 100% recyclable at the end of their lifecycle.

ARCHITECTURAL SERVICES

We support our business partners with a wide range of technical consulting and support services for architects, developers and installers. We assist architects and developers with recommendations regarding materials, shapes and dimensions and colours and finishes. We also help creating design proposals, visualisations and mounting drawings. Our services to installers range from providing detailed installation drawings and instructions to training installers and advising on the building site.

HunterDouglas
WINDOW COVERINGS

Dutch Green Building Council
PARTICIPANT

HUNTER DOUGLAS is a publicly traded company with activities in more than 100 countries with over 150 companies.

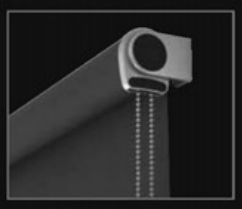
The origin of our company goes back to 1919, in Düsseldorf, Germany. Throughout our history, we have introduced innovations that have shaped the industry, from the invention of the continuous aluminium caster, to the creation of the first aluminium Venetian Blinds, to the development of the latest high-quality building products.

Today we employ more than 16,500 people in our companies with major operation centres in Europe, North America, Latin America, Asia and Australia.

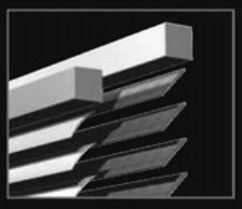
Innovative Products
Make Innovative Projects

Learn More

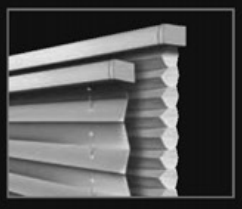
- Contact our Sales office
- www.hunterdouglascontract.com



Roller Blinds



Venetian Blinds



Plissé & Duette® Shades

Vertical Venetian Blinds

External Venetian Blinds

External Roller Blinds

Belgium
Bulgaria
Croatia / Slovenia
Czechia
Denmark
France
Germany
Greece
Hungary
Italy
the Netherlands
Norway
Poland
Portugal
Romania
Russia
Serbia
Slovakia
Spain
Sweden
Switzerland
Turkey
United Kingdom
Africa
Middle East

Asia
Australia
Latin America
North America

HUNTER DOUGLAS EUROPE B.V.
2, Piekstraat
P.O. Box 5072 - 3008 AB Rotterdam
Tel. +31 (0)10 - 4869911
Fax +31 (0)10 - 4847910
www.hunterdouglascontract.com

HunterDouglas

WINDOW COVERINGS | CEILINGS | SUN CONTROL | FAÇADES