

Technical Documentation

AF 50 - 80 - 100

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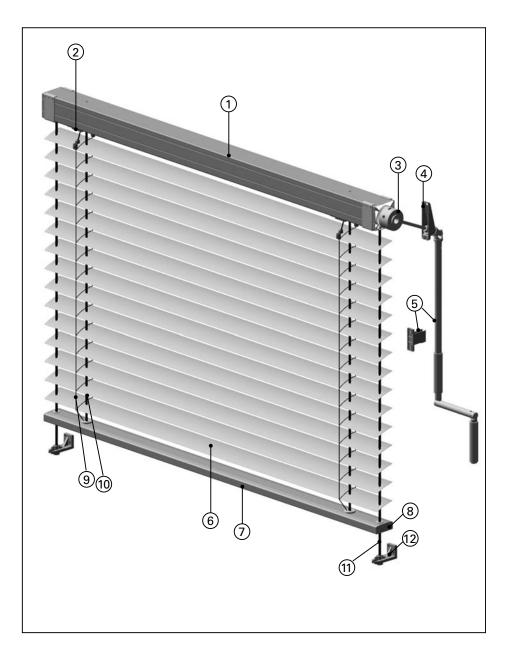
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Crank Handle Operated Exterior Venetian Blind - 50 mm

Type: AF 50 K



AF 50- K view: Crank handle operated exterior venetian blind

- Top rail 58 x 56 mm made of galvanised sheet steel (cutting edges without surface treatment)
- 2) Plastic blind-bearing
- 3) Crank handle gear
- 4) Bearing
- 5) Crank rod with folding handle and plastic or magnetic holder
- 6) Slat 50 x 0.24 mm
- Bottom rail 50 x 18.6 mm made of aluminium, extruded and powdercoated

- B) Plastic end cap for bottom rail
- 9) Ladder cord for 50 mm slats
- 10) Lifting tape 6.0 x 0.28 mm
- 11) Lateral tensioning
- 12) Wire bracket or tensioning shoe with clamping screw

Field of Application and Use

Exterior venetian blind with low-noise wind protection device, suitable for large door and window openings up to a surface area of 20 m².

Benefits of the Product

- Sun protection
- Anti-glare blind
- Light regulation
- View protection
- Design of the facade
- Long durability due to top quality components

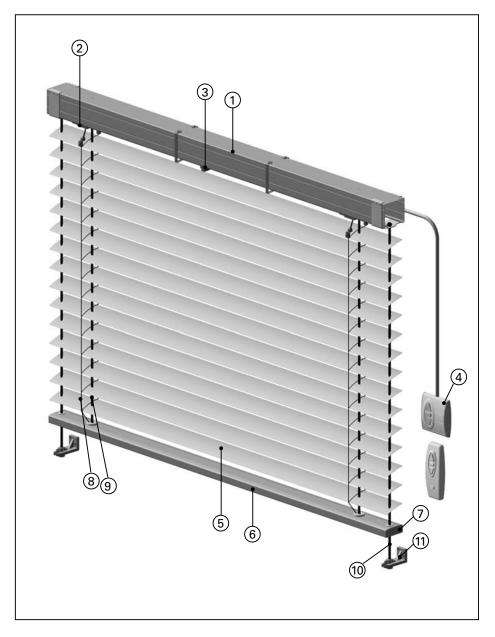
Operation

Raising and lowering the blind and tilting of the slats via crank handle and smooth-running bevel gear unit. Seen from the inside, the blind can be operated from the right or left side depending on the customer's preference.

Installation

Electrically Operated Exterior Venetian Blind - 50 mm

Type: AF 50- M



AF 50- M view: Outdoor blind with motor drive

- Top rail 58 x 56 mm made of galvanised sheet steel (cutting edges without surface treatment)
- 2) Plastic blind-bearing
- 3) Electric motor
- 4) Switch or control device according to requirements (surcharge)
- 5) Slat 50 x 0.24 mm
- Bottom rail 50 x 18.6 mm made of aluminium, extruded and powdercoated
- 7) Plastic end cap for bottom rail
- 8) Ladder cord for 50 mm slats
- 9) Lifting tape 6.0 x 0.28 mm
- 10) Lateral tensioning
- Wire bracket or tensioning shoe with clamping screw

Field of Application and Use

Convenient exterior venetian blind with low-noise wind protection device, also suitable for large door and window openings up to a surface area of 20 m².

Benefits of the Product

- Sun protection
- Anti-glare blind
- Light regulation
- View protection
- Design of the facade
- Long durability due to top quality components
- Conveniently operated with an electric drive

Operation

Raising and lowering the blind and tilting of the slats via conveniently operated electric drive. The electric motor with integrated limit switch can be operated via control systems, remote control or automatic device, if desired (accessories for a surcharge). A control device is compulsory if several motors are to be operated by one switch.

Installation

Tender Specification and Limit Sizes

Type: AF 50

Top Rail

U-shaped moulded cold roll profile, galvanised and bordered on both edges; dimensions 58 x 56 mm. (Cutting edges without surface treatment.)

For a surcharge, top rail with extruded aluminium, dimensions 59×59.5 mm, if requested.

Installation with galvanised steel brackets and integrated fixing devices for cover to discreetly hide the clamps of the protection cover.

Bottom Rail

Extruded, closed aluminium profile, powder-coated or naturally anodised. Dimensions 50 x 18.6 mm.
Closed with plastic end caps.

Slats

Slightly curved aluminium slats made from highly elastic special alloy, bend proof, scratchproof and shockproof, 2-layer stove enamelled (incl. on the longitudinal edges); slat width 50 mm, slat thickness 0.24 mm.

Slat Guide (Wind Protection Device)

Standard: low-noise stable wire tension system made from braided flat tape, UV-protected, dimensions 4.5 x 1.5 mm. For a surcharge, alternative: wire tension, polyamide-coated steel cord, polyamide-coated stainless steel cord or shiny stainless steel cord. All variations dimensions: Ø 3 mm. Punched through the ends of all the slats, stretched taught using a wire bracket of die-cast aluminium with nipple.

Tilting Device

Standard: Tilting device without a working position tilting both ways. When lowering the blind, it is closed towards the exterior, smooth tilting process when changing direction of movement, when raising the blind, it is closed towards the interior

For a surcharge (if requested, or standard at AF 50L): Variotecbearing with working position. Blind lowers in the shading position (approx. 50°), when it reaches the bottom end position the blind closes completely, smooth tilting process when changing direction of movement, blind raises in the horizontal position. (Adjustable and lockable with a short upward motion at any height).

Ladder Cord

High-strength shrink-resistant terylene-polyester. For a surcharge with transverse tensioning, joined to every slat non-positively (double Omega-punching), if requested.

Lifting Tape

Anti-friction coated lifting tapes for a run with minimum wear and tear and maximum UV-protection, dimensions 6.0×0.28 mm, tear-proof at 750N, guaranteed thickness tolerance in the range of 1/100 mm.

Crank Handle Operation

Raising and lowering the blind and repositioning the slats using a crank handle. Maintenance-free bevel gear unit with gear reduction 2:1, duct into the interior via bearing, powder-coated aluminium crank rod with folding handle and crank holder. For a surcharge, end stops at the top and bottom via limit stop.

Electric Operation

Raising and lowering the blind and repositioning the slats using an electric motor (230 V/AC). Drive with integrated planetary gear, end switch at the top and bottom, thermo-protection switch to prevent overloading the motor. Tilting of the slats is enabled by lightly touching the switch in the respective direction. If several motors should be activated with one switch, a control unit is necessary.

Protection Cover, Half-box, Whole-Box

Technical description in the tender specification "Covers".

Model	Min.	Width	max. Height	max. Surface	max. Surface
Manual operation	without limit stop	with limit stop	[mm]	[mm]	[m²]
AF 50 K	340	360	5.000	5.200	20
AF 50 K*	340	400	5.000	5.200	20
Motorised operation	Standard Motor	Object Motor	[mm]	[mm]	[m²]
AF 50 M (Elero)	490	490	5.000	5.200	20
AF 50 M (Elero)*	520	520	5.000	5.200	20
AF 50 M (Somfy)	570	520	5.000	5.200	20
AF 50 M (Somfy)*	610	555	5.000	5.200	20

or rather at blind with tilting device with working position as regards:

a) model with working position

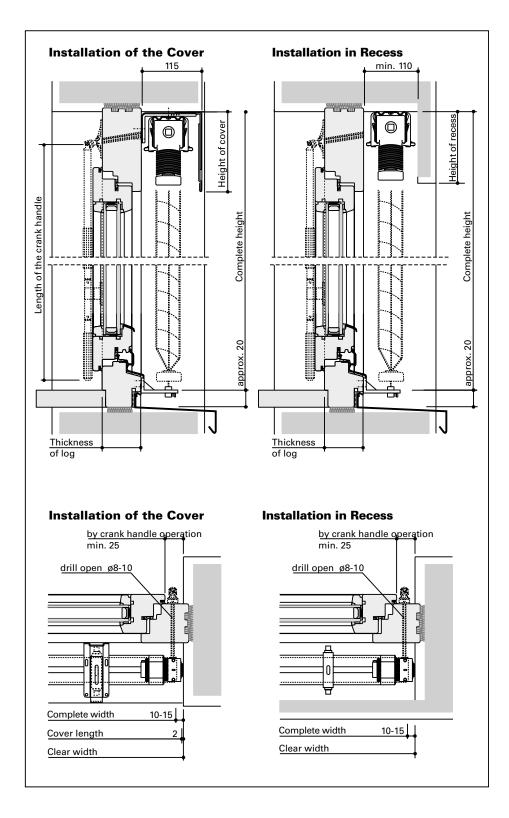
b) model with light control function

Height of Blind	Height of package	Height of cover
[mm]	[mm]	[mm]
800	120	130
1.200	130	140
1.600	140	150
2.000	155	165
2.400	165	175
2.800	175	185

Height of Blind	Height of package	Height of cover
[mm]	[mm]	[mm]
3.200	185	195
3.600	195	205
4.000	195	205
4.400	210	220
4.800	230	240
5.200	240	240

Installation Location and Dimensioning Instructions

Type: AF 50

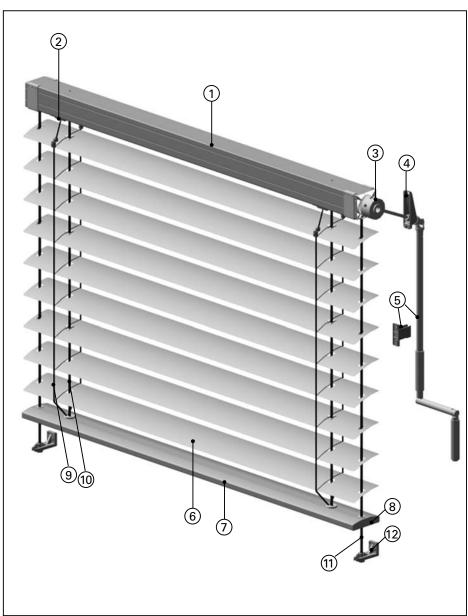


References

- 1) Quantity
- 2) Blind type
- Colour of the slats, inside fittings, any special colours
- Complete width = minimum clear width of 3 measuring points minus 20-30 mm
- 5) Complete height = minimum clear height minus 20-30 mm
- 6) Specify operating issue
- 7) Specify depth of duct
- 8) Operating side
- 9) Specify length of the crank rod
- 10) Specify crank passage
- 11) Type of installation
- 12) Type and colour of the cover
- 13) Cover width = clear width, cover height according to table
- 14) Specially designed models, possibly to be made clear with sketches

Crank Handle Operated Exterior Venetian Blind - 80 mm

Type: AF 80 K



AF 80- K view: Crank handle operated exterior venetian blind

- Top rail 58 x 56 mm made of galvanised sheet steel (cutting edges without surface treatment)
- 2) Plastic blind-bearing
- 3) Crank handle gear
- 4) Bearing
- 5) Crank rod with folding crank and plastic or magnetic holder
- 6) Slat 80 x 0.44 mm
- 7) Bottom rail 80 x 18.6 mm made of aluminium, extruded and powder-coated
- 8) Plastic end cap for bottom rail

- 9) Ladder cord for 80 mm slats10) Lifting tape 6.0 x 0.28 mm
- 11) Lateral tensioning
- 12) Wire bracket or tensioning shoe with clamping screw

Field of Application and Use

Exterior venetian blind with low-noise wind protection device, suitable for large door and window openings up to a surface area of 20 m².

Benefits of the Product

- Sun protection
- Anti-glare blind
- Light regulation
- View protection
- Design of the facade
- Long durability due to top quality components

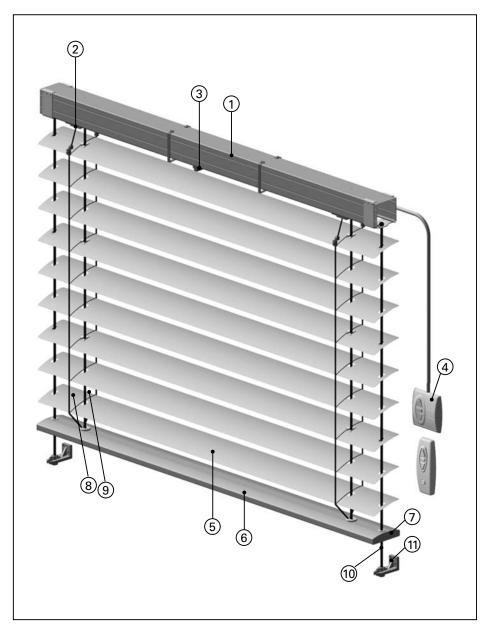
Operation

Raising and lowering the blind and tilting of the slats via crank handle and smooth-running bevel gear unit. Seen from the inside the blind can be operated from the right or left side depending on the customer's preference.

Installation

Electrically Operated Exterior Venetian Blind - 80 mm

Type: AF 80- M



AF 80- M view: Outdoor blind with motor drive

- Top rail 58 x 56 mm made of galvanised sheet steel (cutting edges without surface treatment)
- 2) Plastic blind-bearing
- 3) Electric motor
- 4) Switch or control device according to requirements (surcharge)
- 5) Slat 80 x 0.44 mm
- Bottom rail 80 x 18.6 mm made of aluminium, extruded and powdercoated
- 7) Plastic end cap for bottom rail
- 8) Ladder cord for 80 mm slats
- 9) Lifting tape 6.0 x 0.28 mm
- 10) Lateral tensioning
- 11) Wire bracket or tensioning shoe with clamping screw

Field of Application and Use

Convenient exterior venetian blind with lownoise wind protection device, also suitable for large door and window openings up to a surface area of 20 m².

Benefits of the Product

- Sun protection
- Anti-glare blind
- Light regulation
- View protection
- Design of the facade
- Long durability due to top quality components
- Conveniently operated with an electric drive

Operation

Raising and lowering the blind and rotation of the slats via conveniently operated electric drive. The electric motor with integrated limit switch can be operated via control systems, remote control or automatic device, if desired (accessories for a surcharge). A control device is compulsory, if several motors are to be operated by one switch.

Installation

Tender Specification

Type: AF 80

Top Rai

U-shaped moulded cold roll profile, galvanised and bordered on both edges; dimensions 58×56 mm. For a surcharge, top rail with extruded aluminium, dimensions 59×59.5 mm, if requested. (Cutting edges without surface treatment.) Installation with galvanised steel brackets and integrated fixing device for cover to discreetly hide the clamps of the protection cover.

Bottom Rail

Extruded, closed aluminium profile, powder-coated, dimensions 80 x 18.6 mm.

Closed with plastic end caps.

Slats

Slightly curved aluminium slats made from highly elastic special alloy, bend proof, scratchproof and shockproof, 2-layer stove enamelled (incl. on the longitudinal edges), slat width 80 mm, slat thickness 0.44 mm.

Slat Guide (Wind Protection Device)

Standard: low-noise stable wire tension system made from braided flat tape, UV-protected, dimensions 4.5 x 1.5 mm. If requested, for a surcharge, alternative: wire tension, polyamide-coated steel cord, polyamide-coated stainless steel cord or shiny stainless steel cord. All variations dimensions ø 3mm. Punched through the ends of all the slats, stretched taught using a wire bracket of die-cast aluminium with nipple.

Tilting Device

Standard: Tilting device without a working position tilting both ways. When lowering the blind, it is closed towards the exterior, smooth tilting process when changing direction of movement, when raising the blind, it is closed towards the interior.

For a surcharge (if requested, or standard at AF 80L): Variotec-bearing with working position. Blind slides down when in shading position (approx. 50°), when it reaches the bottom end position the blind closes completely, smooth turning process when changing direction of movement, blind slides up horizontally. (Adjustable and lockable with a short upward motion at any height.)

Side Guide Rails

Extruded aluminium profile with anti-noise plastic insert. Dimensions: 20/27, 27/27, 30/80, 30/17, 18/20.

Installation with adjustable die-cast aluminium brackets, distance as required according to documentation, or sideways into the wall-lighting, with the option of being buried or visible

Round extruded aluminium side guide rails ø 45 with antinoise plastic insert.

Installation standard with adjustable brackets consisting of a

powder-coated die-cast aluminium distance bracket and diecast zinc Collinox-coated clamping lock.

Ladder Cord

High-strength shrink-resistant terylene-polyester. For a surcharge with transverse tensioning, linked to every slat non-positively (double Omega-punching), if requested.

Lifting Tape

Anti-friction coated lifting tapes for a run with minimum wear and tear and maximum UV-protection, dimensions 6.0×0.28 mm, tear-proof at 750N, guaranteed thickness tolerance in the range of 1/100 mm.

Crank Handle Operation

Raising and lowering the blind and repositioning the slats using a crank handle. Maintenance-free bevel gear unit with gear reduction 2:1, duct into the interior via bearing, powder-coated aluminium crank rod with folding handle and crank holder. If requested, for a surcharge, end stops at the top and bottom via limit stop.

Electric Operation

Raising and lowering the blind and repositioning the slats using an electric motor (230 V/AC). Drive with integrated planetary gear, end switch at the top and bottom, thermo-protection switch to prevent overloading the motor. Tilting of the slats is enabled by lightly touching the switch in the respective direction. If several motors should be activated with one switch, a control unit is necessary.

Protection Cover, Half-Box, Whole-Box

Technical documentation "Boxes and Covers".

Square Box, Round Box, Facade Box

Technical documentation "Boxes and Covers".

Limit Sizes

Type: AF 80

Model	Min.	Width	Max. Width	Max. Height	Max. Surface
Manual operation	without limit stop	with limit stop	[mm]	[mm]	[m ²]
AF 80K	340	360	5.000	5.200	14
AF 80 K*	340	400	5.000	5.200	14
Motorsied operation	Standard Motor	Object Motor	[mm]	[mm]	[m²]
AF 80 M (Elero)	490	490	5.000	5.200	20
AF 80 M (Elero)*	520	520	5.000	5.200	20
AF 80 M (Somfy)	570	520	5.000	5.200	20
AF 80 M (Somfy)*	610	555	5.000	5.200	20

^{*} or rater at blind with tiling device with working postion (Variotec)

as regards:

a) model with working positon

b) model with light control function

Note:

minimum width is always based on the length of the slats; with guide rails, the respective side guid rail subtraction must be added on (see table).

Standard Heights of Packages

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	120	130
1.200	125	135
1.600	135	145
2.000	145	155
2.400	155	165
2.800	160	170

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
3.200	170	180
3.600	180	190
4.000	190	200
4.400	200	210
4.800	205	215
5.200	215	225

Heights of Packages with Clip in each Slat

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	135	145
1.200	155	165
1.600	175	185
2.000	195	205
2.400	215	225
2.800	230	240

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
3.200	255	265
3.600	270	280
4.000	290	300
4.400	310	320
4.800	330	340
5.200	350	360

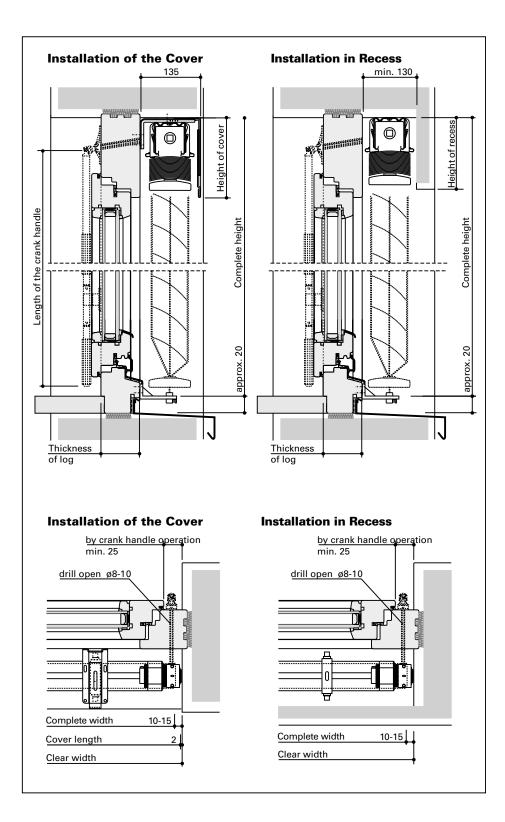
Heights of Packages with Guide Pin in every 4th Slat

Height of Blind [mm]	Height of Package [mm]	Height of Cover [mm]
800	125	135
1.200	130	140
1.600	145	155
2.000	155	165
2.400	170	180
2.800	175	185

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
3.200	185	195
3.600	200	210
4.000	205	215
4.400	220	230
4.800	230	240
5.200	235	245

Installation Location and Dimensioning Instructions

Type: AF 80

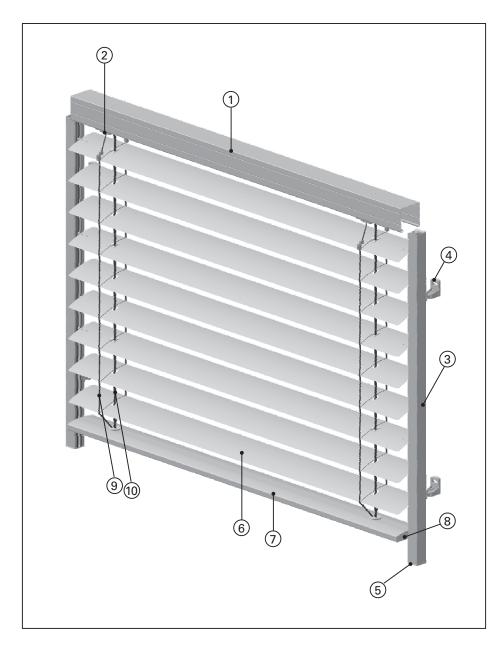


References

- 1) Quantity
- 2) Blind type
- Colour of the slats, inside fittings, any special colours
- Complete width = minimum clear width of 3 measuring points minus 20-30 mm
- 5) Complete height = minimum clear height minus 20 30 mm
- 6) Specify operating issue
- 7) Specify depth of duct
- 8) Operating side
- 9) Specify length of the crank rod
- 10) Specify crank passage
- 11) Type of installation
- 12) Type and colour of the cover
- 13) Cover width = clear width, cover height according to table
- 14) Specially designed models, possibly to be made clear with sketches

Exterior Venetian Blind 80 mm with Side Guide Rail

Type: AF 80 with side guide rail



AF 80 view: Exterior venetian blind with side guide rail

- Top rail 58 x 56 mm made of galvanised sheet steel (cutting edges without surface treatment)
- 2) Plastic blind-bearing
- 3) Side guide rail made of extruded and powder-coated aluminium
- 4) Adjustable side guide rail bracket
- 5) Plastic side guide rail end cap
- 6) Slat 80 x 0.44 mm
- 7) Bottom rail 80 x 18.6 mm made of extruded and powder-coated aluminium
- 8) Plastic end caps for bottom rail
- 9) Ladder cord for 80 mm slats
- 10) Lifting tape 6.0 x 0.28 mm

Field of Application and Use

Exterior venetian blind with side guide rail, also suitable for large door and window openings up to a surface area of 20 m².

Benefits of the Product

- Sun protection
- Anti-glare blind
- Light regulation
- View protection
- Design of the facade
- Long durability due to top quality components
- Conveniently operated with a crank drive

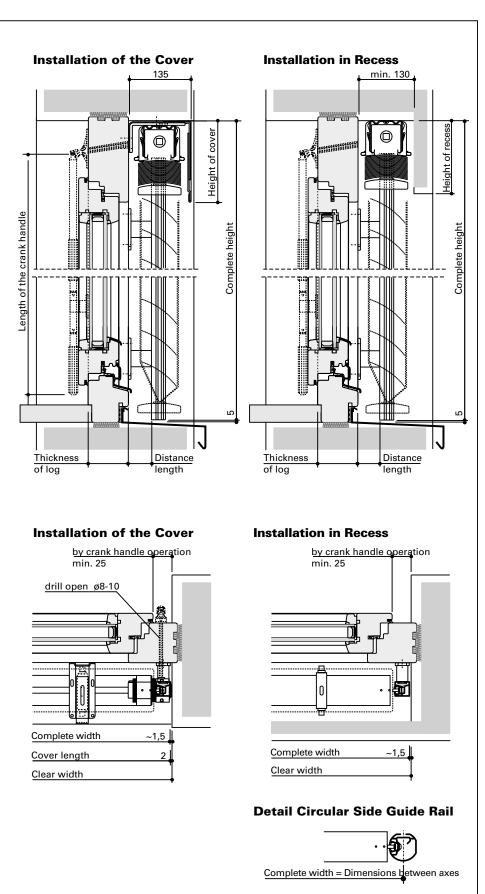
Operation

Raising and lowering the blind and tilting of the slats via crank handle and smooth-running bevel gear unit or electric motor.

Installation

Installation Location and Dimensioning Instructions

Type: AF 80 with side guide rail



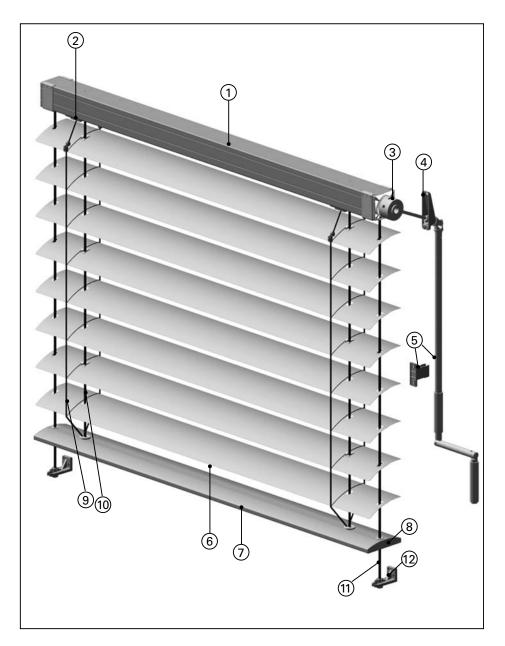
References

- 1) Quantity
- 2) Blind type
- Colour of slats, inside fittings, any special colours
- Complete width = minimum clear width of 3 measuring points minus approx. 3 mm
- 5) Complete height = minimum clear height minus 5 mm
- Specify side guide rail type
- Specify operating issue
- 8) Specify depth of duct
- 9) Operating side
- 10) Specify length of the crank rod
- 11) Specify crank passage
- 12) Type of installation
- 13) Type and colour of the cover
- 14) Cover width = clear width, cover height according to table
- 15) Specially designed models, possibly to be made clear with sketches

Gear Blind OS 58/56

Crank Handle Operated Exterior Venetian Blind - 100 mm

Type: AF 100 K



AF 100- K view: Crank handle operated exterior venetian blind

- Top rail 58 x 56 mm made of galvanised sheet steel (cutting edges without surface treatment)
- 2) Plastic blind-bearing
- 3) Crank handle gear
- 4) Bearing
- 5) Crank rod with folding handle and plastic or magnetic holder
- 6) Slat 100 x 0.44 mm
- Bottom rail 100 x 18.6 mm made of aluminium, extruded and powdercoated

- 8) Plastic end caps for bottom rail
- 9) Ladder cord for 100 mm slats
- 10) Lifting tape 6.0 x 0.28 mm
- 11) Lateral tensioning
- 12) Wire bracket or tensioning shoe with clamping screw

Field of Application and Use

Exterior venetian blind with low-noise wind protection device, suitable for large door and window openings up to a surface area of 20 m².

Benefits of the Product

- Sun protection
- Anti-glare blind
- Light regulation
- View protection
- Design of the facade
- Long durability due to top quality components

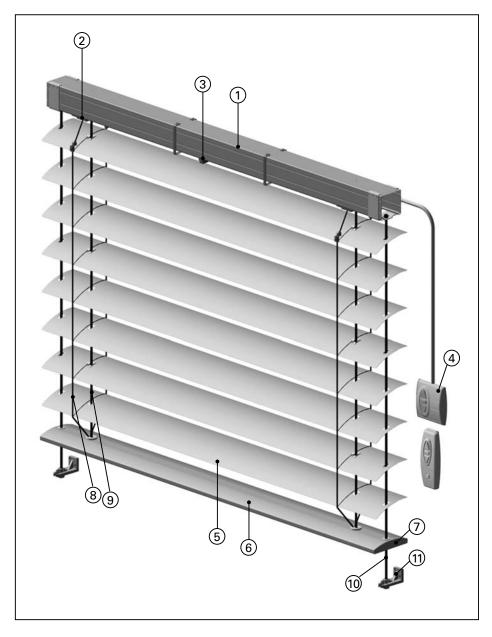
Operation

Raising and lowering the blind and tilting of the slats via crank handle and smooth-running bevel gear unit. Seen from the inside, the blind can be operated from the right or left side depending on the customer's preference.

Installation

Motor Operated Exterior Venetian Blind - 100 mm

Type: AF 100- M



AF 100- M view: Motor operated exterior venetian blind

- Top rail 58 x 56 mm made of galvanised sheet steel (cutting edges without surface treatment)
- 2) Plastic blind-bearing
- 3) Electric motor
- 4) Switch or control switch according to requirements (surcharge)
- 5) Slat 100 x 0.44 mm
- 6) Bottom rail 100 x 18.6 mm made of aluminium, extruded and powder-coated
- 7) Plastic end cap for bottom rail
- 8) Ladder cord for 100 mm slats
- 9) Lifting tape 6.0 x 0.28 mm
- 10) Lateral tensioning
- 11) Wire bracket or tensioning shoe with crampling screw

Field of Application and Use

Convenient exterior venetian blind with low-noise wind protection device, also suitable for large door and window openings up to a surface area of 20 m².

Benefits of the Product

- Sun protection
- Anti-glare blind
- Light regulation
- View protection
- Design of the facade
- Long durability due to top quality components
- Conveniently operated with an electric drive

Operation

Raising and lowering the blind and tilting of the slats via conveniently operated electric drive. The electric motor with integrated limit switch can be operated via control systems, remote control or automatic device, if desired (accessories for a surcharge). A control device is compulsory, if several motors are to be operated by one switch.

Installation

Tender Specification

Type: AF 100

Top Rai

U-shaped moulded cold roll profile, galvanised and bordered on both edges; dimensions 58×56 mm. For a surcharge, top rail with extruded aluminium, dimensions 59×59.5 mm, if requested (cutting edges without surface treatment). Installation with galvanised steel brackets and integrated fixing device for cover to discreetly hide the clamps of the protection.

Bottom Rail

Extruded, closed aluminium profile, powder-coated or naturally anodised.

Dimensions 100 x 18.6 mm.

Closed with plastic end caps.

Slats

Slightly curved aluminium slats made from highly elastic special alloy, bend proof, scratchproof and shockproof, 2-layer stove enamelled (incl. on the longitudinal edges); slat width 100 mm, slat thickness 0.44 mm.

Slat Guides (Wind Protection Device)

Standard: low-noise "stable" wire tension system made from braided flat tape, UV-protected, Dimensions 4.5 x 1.5 mm. For a surcharge, alternative: wire tension, polyamide-coated steel cord, polyamide-coated stainless steel cord or shiny stainless steel cord, if requested. All variations dimensions: Ø 3 mm. Punched through the ends of all the slats, stretched taught using a wire bracket of die-cast aluminium with nipple.

Tilting Device

Standard: tilting device without a working position with tilting both ways. When lowering the blind, it is closed towards the outside, smooth tilting process when changing direction of movement, when raising the blind, it is closed on the inside. For a surcharge, if requested, (or standard at AF 100L): Variotec-bearing with working position. The blind is in the shading position when lowered (approx. 50°), when it reaches the bottom end position the blind closes completely, smooth tilting process when changing direction of movement, blind raises horizontally. (Adjustable and lockable with a short upwards motion at any height).

Side Guide Rails

Extruded aluminium profile with anti-noise plastic insert. Dimensions: 20/27, 27/27, 30/80, 30/17, 18/20.

Installation with adjustable die-cast aluminium brackets, distance as required according to documentation, or laterally into the wall-clearance, with the option of being buried or visible.

Round extruded aluminium side guide rails Ø 45 with antinoise plastic insert.

Installation standard with adjustable brackets consisting of a powder-coated die-cast aluminium distance bracket and die-cast zinc Collinox-coated clamping lock.

Ladder Cord

High-strength shrink-resistant terylene-polyester. For a surcharge with transverse tensioning, linked to every slat non-positively (double Omega-punching), if requested.

Lifting Tape

Anti-friction coated lifting tapes for a run with minimum wear and tear and maximum UV-protection, dimensions 6.0×0.28 mm, tear-proof at 750N, guaranteed thickness tolerance in the range of 1/100 mm.

Crank Handle Operation

Raising and lowering the blind and repositioning the slats using a crank handle. Maintenance-free bevel gear unit with gear reduction 2:1, duct into the interior via bearing, powder-coated aluminium crank handle rod with folding handle and crank holder. For a surcharge, end stops at the top and bottom via limit stop, if requested.

Electric Drive

Raising and lowering the blind and repositioning the slats using an electric motor (230 V/AC). Drive with integrated planetary gear, limit switch at the top and bottom, thermo-protection switch to prevent overloading the motor. Tilting of the slats is enabled by lightly touching the switch in the respective direction. If several motors should be activated with one switch, a control unit is necessary.

Protection Cover, Half-Box, Whole-Box

Technical description in the tender specification "Boxes and Covers".

Limit Sizes

Type: AF 100

Model	Min. Width		Max. Width	Max. Height	Max. Surface
Manual operation	without limit stop	with limit stop	[mm]	[mm]	[m²]
AF 100 K	340	360	5.000	4.000	14
AF 100 K*	340	400	5.000	4.000	14
Motorised Operation	Standard Motor	Objekt Motor	[mm]	[mm]	[m²]
AF 100 M (Elero)	490	490	5.000	4.000	20
AF 100 M (Elero)*	520	520	5.000	4.000	20
AF 100 M (Somfy)	570	520	5.000	4.000	20
AF 100 M (Somfy)*	610	555	5.000	4.000	20

or rather at blind with tilting device with working position as regards:

a) model with working position

b) model with light control function

Note: minimum wdth is always based on the lenght of the slats with guide rails, the

respectibe side guide rail subtraction must be added on (see table).

Standard Heights of Packages

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	115	130
1.200	125	135
1.600	135	145
2.000	145	155
2.400	150	160

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.800	160	170
3.200	170	180
3.600	180	190
4.000	190	200

Heights of Packages with Clip in each Slat

Heiaht of Blind [mm]	Height of Package [mm]	Height of Cover [mm]
800	130	140
1.200	150	160
1.600	165	175
2.000	185	195
2.400	200	210

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.800	220	230
3.200	240	250
3.600	255	265
4.000	275	285

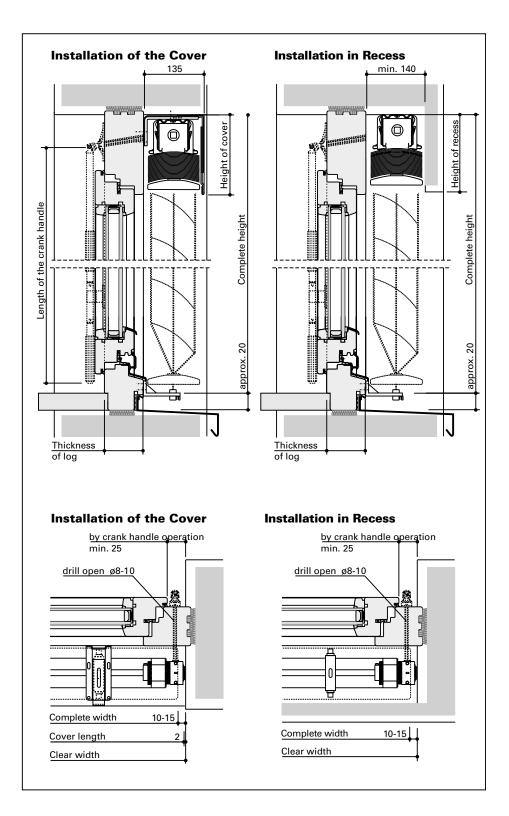
Heights of Packages with Guide Pin in every 4th Slat

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	125	135
1.200	130	140
1.600	140	150
2.000	145	155
2.400	155	165

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.800	160	170
3.200	175	185
3.600	185	195
4.000	190	200
	·	·

Installation Location and Dimensioning Instructions

Type: AF 100

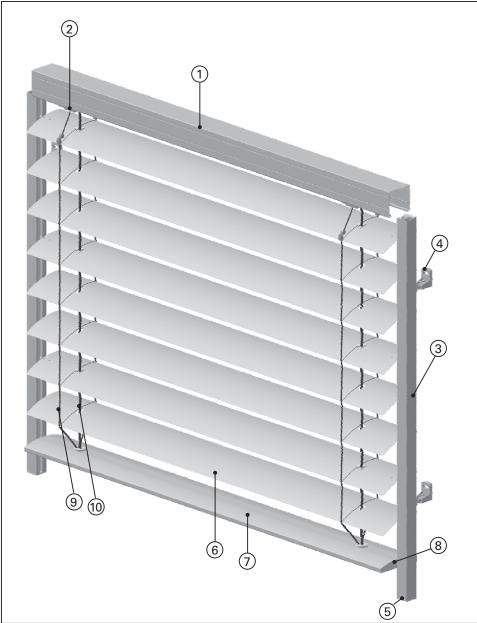


References

- 1) Quantity
- 2) Blind type
- Colour of slats, inside fittings, any special colours
- Complete width = minimum clear width of 3 measuring points minus 20-30 mm
- 5) Complete height = minimum clear height minus 20 30 mm
- 6) Specify operating issue
- 7) Specify depth of duct
- 8) Operating side
- 9) Specify length of the crank rod
- 10) Specify crank passage
- 11) Type of installation
- 12) Type and colour of the cover
- 13) Cover width = clear width, cover height according to table
- 14) Specially designed models, possibly to be made clear with sketches

Exterior Venetian Blind 100 mm with Side Guide Rail

Type: AF 100 with side guide rail



AF 100 view: Exterior venetian blind with side guide rail

- 1) Top rail 58 x 56 made of galvanised sheet steel (cutting edges without surface treatment)
- 2) Plastic blind-bearing
- 3) Side guide rail made of extruded and 9) Ladder cord for 100 mm slats powder-coated aluminium
- 4) Adjustable side guide rail bracket
- 5) Plastic side guide rail end cap
- 6) Slat 100 x 0.44 mm

- 7) Bottom rail 100 x 18.6 mm made of aluminium, extruded and powder-coated
- 8) Plastic end cap for bottom rail
- 10) Lifting tape 6.0 x 0.28 mm

Field of Application and Use

Exterior venetian blind with side guide rail, also suitable for large door and window openings up to a surface area of 20 m².

Benefits of the Product

- Sun protection
- Anti-glare blind
- Light regulation
- View protection
- Design of the facade
- Long durability due to top quality components
- Conveniently operated with a crank handle operation

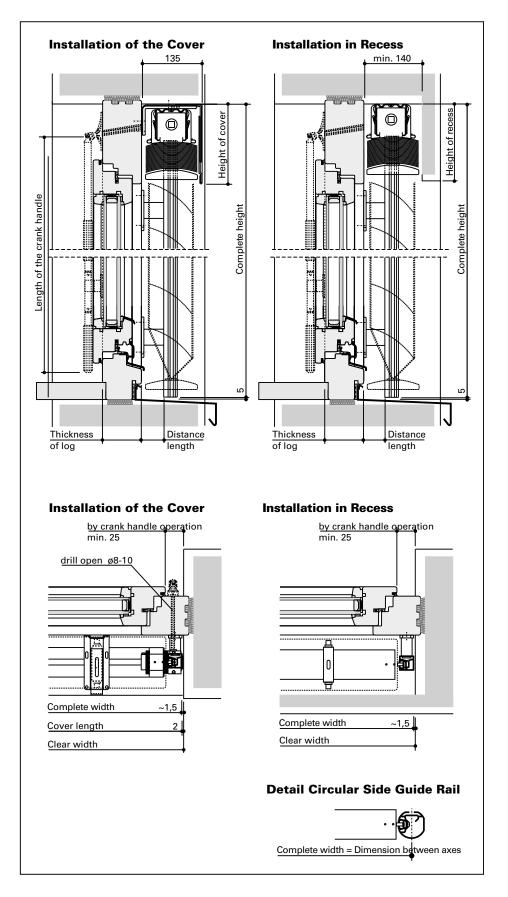
Operation

Raising and lowering the blind and tilting of the slats via crank handle and smooth-running bevel gear unit or electric motor.

Installation

Installation Location and Dimensioning Instructions

Type: AF 100 with side guide rail



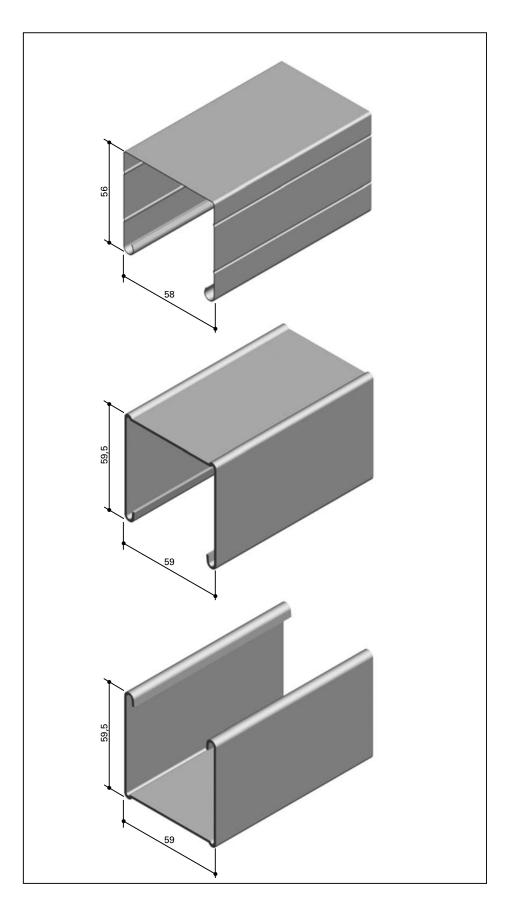
References

- 1) Quantity
- 2) Blind type
- Colour of slates, fittings, any special colours
- Complete width = minimum clear width of 3 measuring points minus ca. 3 mm
- 5) Complete height = minimum clear height minus 5 mm
- 6) Specify lateral guide rail type
- Specify operating issue
- Specify depth of passage
- 9) Operating side
- 10) Specify length of the crank rod
- 11) Specify crank duct
- 12) Type of installation
- 13) Type and colour of the cover
- 14) Cover width = clear width, cover height according to table
- 15) Specially designed models, possibly to be made clear with sketches

Gear Blind OS 58/56

General: Top Rails

Types: AF 50, AF 80, AF 100



Top Rail

Galvanised sheet steel roll form.

Dimensions 58 x 56 mm. Installation with closed side facing upwards. (Special colour not possible)

Top Rail (Surcharge)

Made of extruded aluminium.

Dimensions 59 x 59.5 mm.
Installation with closed side facing upwards.
(Special colour not possible)

Top Rail (Surcharge)

Made of extruded aluminium.

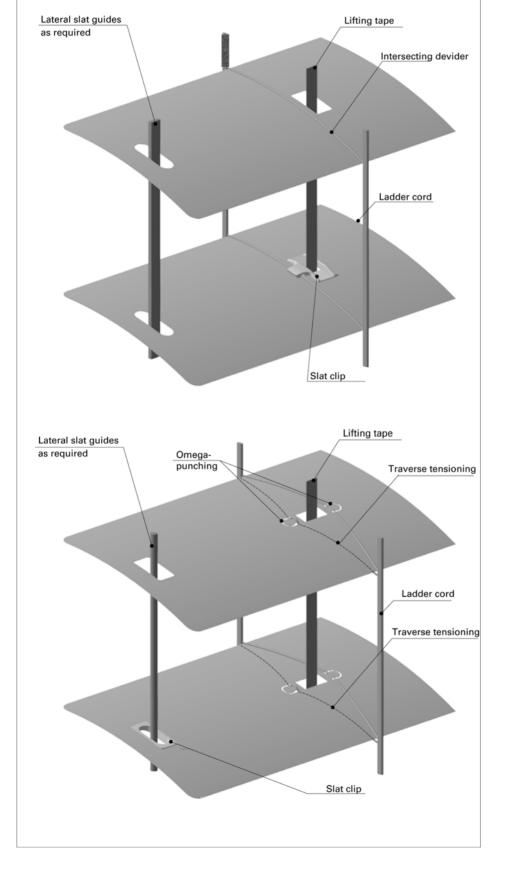
Dimensions 59 x 59.5 mm. Installation with closed side facing downwards. (Special colour not possible)

Gear Blind OS 58/56

H≡LLA

General: Slat Joints

Types: AF 50, AF 80, AF 100



The slats are kept evenly apart using a ladder cord. With blind types AF 80 and AF 100, every 4th slat is equipped with plastic slat clips, thereby preventing the lifting tape from getting too worn and the ladder cord from sliding off to the side. With a stable wire tension system or wire tension, no slat tensioning wire clips are possible. For a surcharge, every slat can be equipped with a

For a surcharge, every slat can be equipped with a slat clip, if required (note: higher slat packages must be considered). AF 50 is supplied without plastic slat clips. The lad-

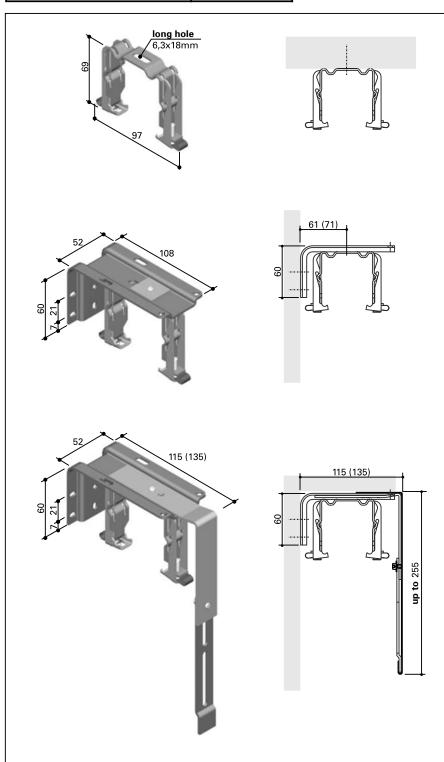
AF 50 is supplied without plastic slat clips. The ladder cord is then protected underneath the slats by punched parts that match the colour of the slat.

If required, for a surcharge the ladder cord can be joined non-positively with each slat (double Omegapunching). Fixed in this way, the blind is centred and becomes very stable. Warning: the closing process, however, changes for the worse.

General: Brackets

Types: AF 50, AF 80, AF 100

Complete Width	No. of Brackets
up to 2000mm	2
2001mm to 2800mm	3
2801mm to 3600mm	4
> 3600mm	5



Vertical Bracket

Made of galvanised steel. Dimensions 69 x 97 mm. Article no.: JA170503

Horizontal Bracket (Combined Bracket) Standard

In 2 parts, made of galvanised steel.

Dimensions angle 60 x 108

x 52 mm.

Dimensions vertical bracket 69 x 97 mm.

Model: AF 50:

Article no.: JA1705U6 Models: AF 80, AF 100 Article no.: JA1705U

Combined Box Bracket with Support Height at 60 mm, Thickness of Cover 115 mm

Model: AF 50

Article	Height	
number	[mm]	
JA1705U7	130 - 165	
JA 1705U8	166 - 200	
JA1705U9	201 - 255	

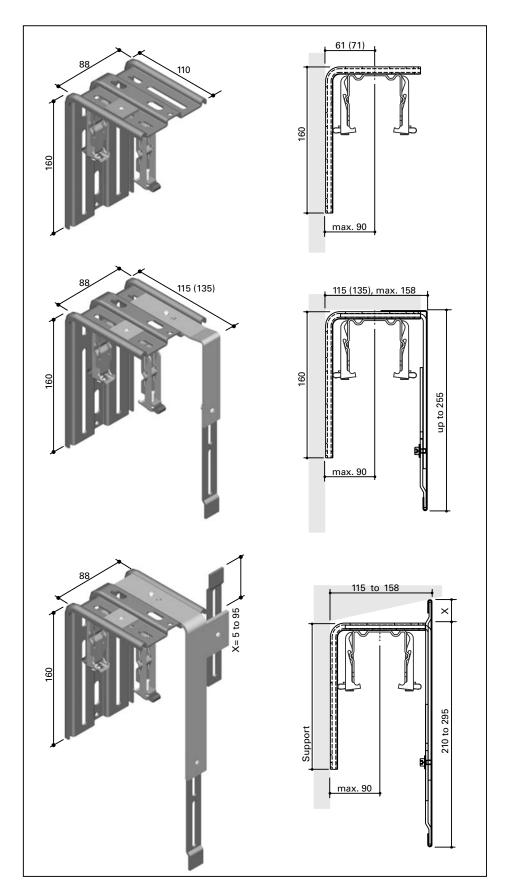
Thickness of Cover 135 mm

Models: AF 80, AF 100

Article	Height
number	[mm]
JA1705U2	130 - 165
JA 1705U3	166 - 200
JA1705U4	201 - 255

General: Brackets

Types: AF 50, AF 80, AF 100



Horizontal Bracket (Combined Bracket)

In 2 parts, galvanised steel.

Dimensions angle 160 x 105 x 88 mm.

Dimensions vertical bracket 69 x 97 mm. Article no.: JA1705W6

Combined Box Bracket with Support Height at 160 mm, Thickness of Cover 115 mm

Article	Height
number	[mm]
JA1705V2	166 - 200
JA1705V3	201 - 255

Combined Box Bracket with Support Height at 160 mm, Thickness of Cover 135 mm

Article	Height
number	[mm]
JA1705V4	166 - 200
JA1705V5	201 - 255

Combined Box Bracket for SB1 with Support Height at 160 mm

Note: Dimension X can be a maximum of 95 mm

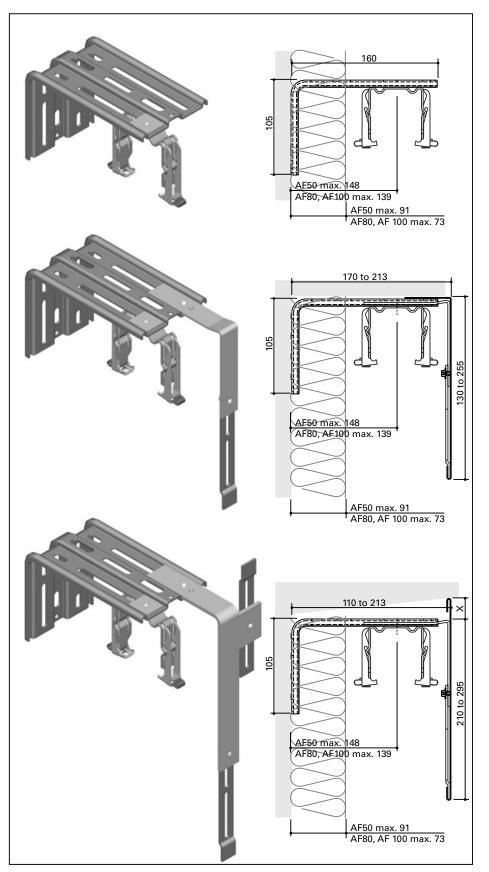
Article	Height
number	[mm]
JA1705V6	210 - 295 + X

This bracket is made specifically to order. The height of cover, dimension X, thickness of cover, and the position of the vertical bracket must be given!

Note: the bracket must be positioned in such a way that the clearance is not affected.

General: Brackets

Types: AF 50, AF 80, AF 100



Horizontal Bracket (Combined Bracket)

In 2 parts, galvanised steel.

Dimensions angle 160 x 105 x 88 mm.

Dimensions vertical bracket 69 x 97 mm.

Article no.: JA1705W

Combined Box Bracket to be installed below the upgraded Insulation

Article	Height
number	[mm]
JA1705W1	130 - 165
JA 1705W2	166 - 200
JA1705W3	201 - 255

This bracket is made specifically to order. The height of cover, dimension X, thickness of cover, and the position of the vertical bracket must be given!

Combined Box Bracket for SB1 with Support Height at 105 mm

Note:

Dimension X can be a maximum of 95 mm

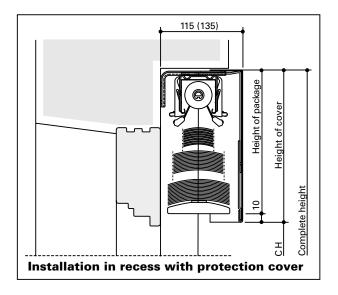
Article	Height
number	[mm]
JA1705V8	210 - 295 + X

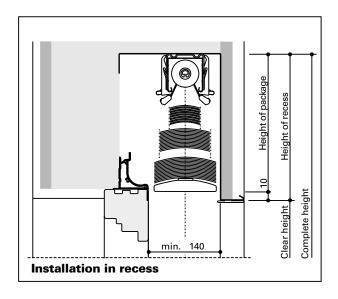
This bracket is made specifically to order. The height of cover, dimension X, thickness of cover, and the position of the vertical bracket must be given!

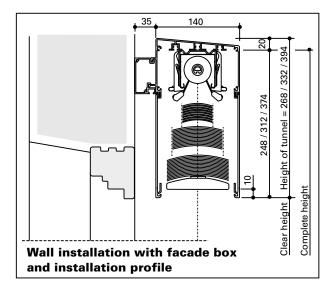
Gear Blind OS 58/56

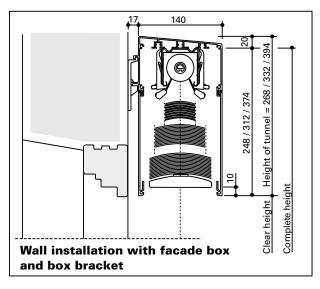
General: Types of Installation

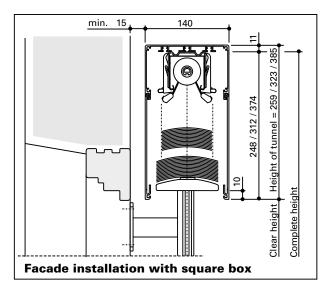
Types: AF 50, AF 80, AF 100

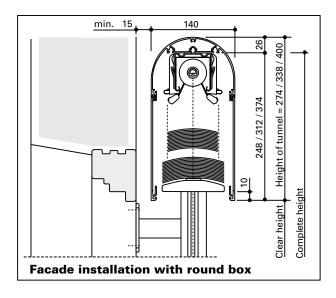






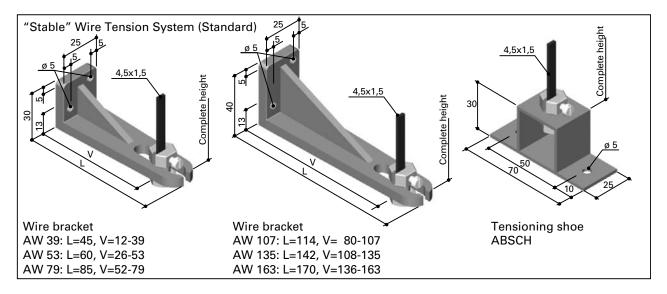


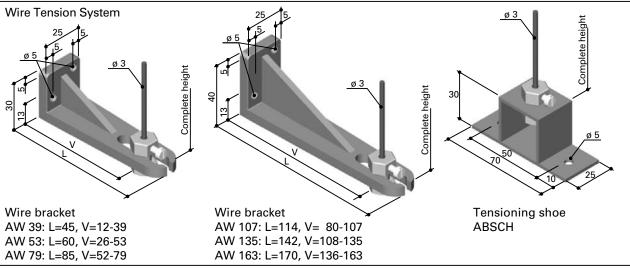


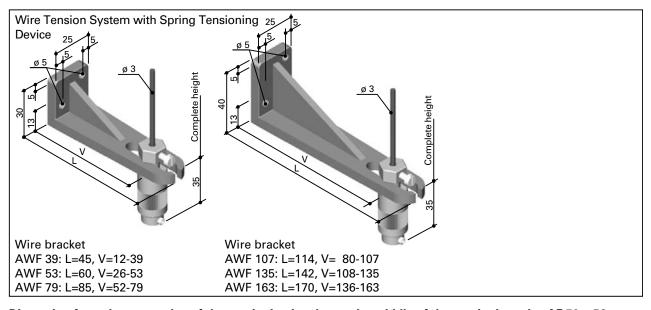


General: Tensioning Wires

Types: AF 50, AF 80, AF 100





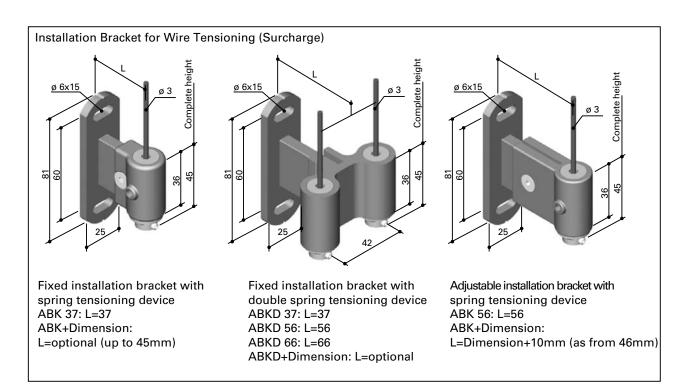


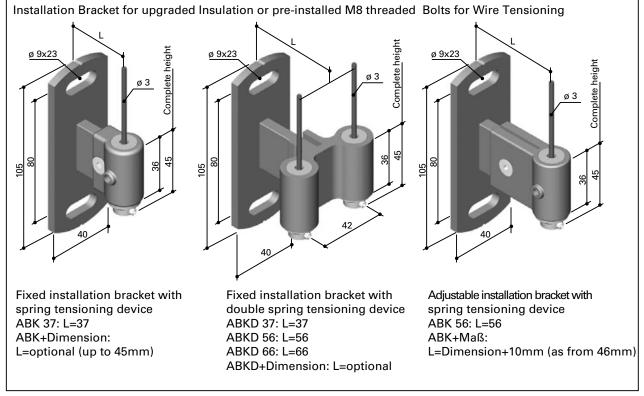
Dimension from the outer edge of the tensioning bracket to the middle of the tensioning wire: AF 50 = 56 mm, AF 80 = 86 mm.

Gear Blind OS 58/56

General: Tensioning Wires

Types: AF 50, AF 80, AF 100





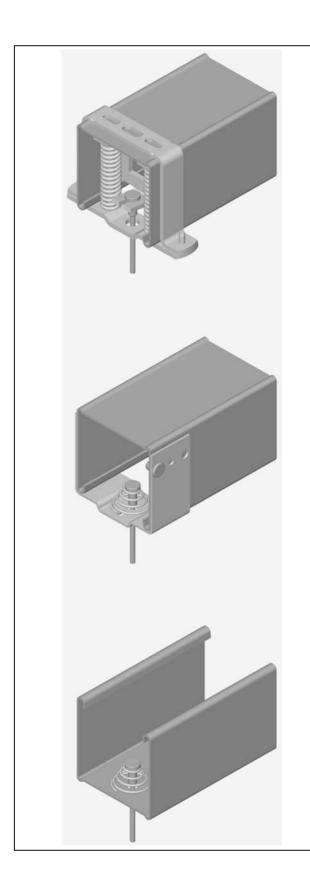
Dimension from the outer edge of the tensioning bracket to the middle of the tensioning wire: AF 50 = 56 mm, AF 80 = 86 mm, AF 100 = 66 mm

Tensioning Wire Alternatives:

- "Stable" wire tension system (standard)
- Wire tension 3 mm natural
- Steel wire 2/3 trans VZ/PA12
- Steel wire 2/3 trans Psilver Niro-PA12
- Steel wire Niro 3 mm

General: Tensioning Springs

Types: AF 50, AF 80, AF 100



Top Profile Bracket with Double Wire Bracket (standard)

Galvanized steel, with 2 springs to counter-balance the high pulling forces. Note: only possible with top rail SGP and installation with the open side pointing downwards!

Top Rail Open Underneath with Tensioning Bracket and Conical Helical Spring

Stainless steel, cheaper model.

Mounting possible in roll form and extruded top rail. Note: less counter-balancing of the high pulling forces!

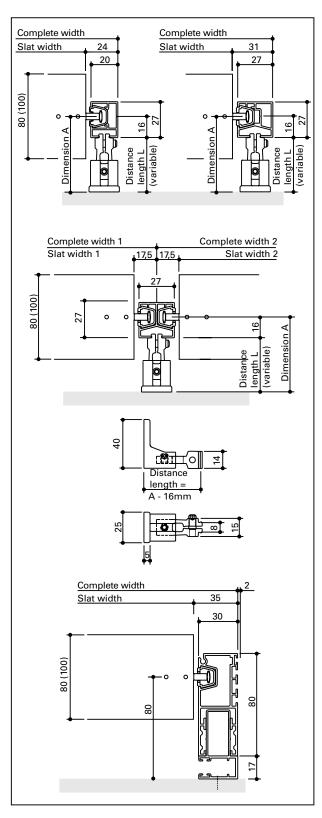
Top Rail Closed Underneath with Conical Helical Spring

Stainless steel, cheaper model.
Model only possible with top rail SGP.
Note: less counter-balancing of the high pulling

forces!

General: Side Guide Rails

Types: AF 80, AF 100



Single Guide Rail 20/27 und 27/27

Installation using distance brackets on the window frame or the facade. Standard length of the side guide rail = complete height minus 70 mm

Double Guide Rail 27/27

Installation using distance brackets on the window frame of the facade. Standard length of the side guide rail = complete height minus 70 mm

Distance Brackets adjustable (not possible with VWS)

Clamping lock made of die-cast zinc, Collinox-coated

Distance bracket flange made of die-cast aluminium, powder-coated

Dimensions A:

53mm - 66mm

61mm - 73mm (Standard)

67mm - 89mm

90mm - 116mm

90mm - 140mm

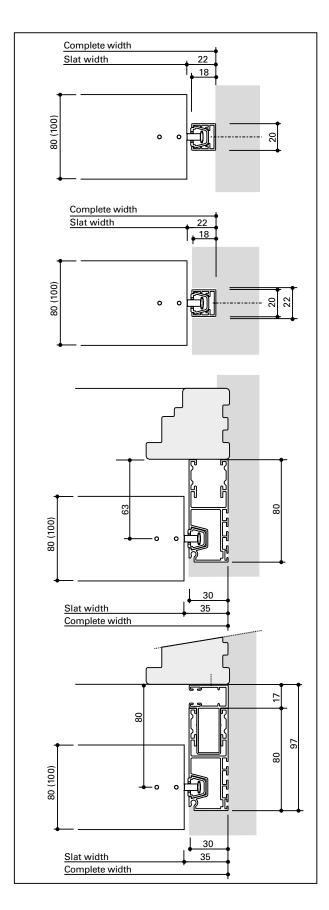
141mm - 176mm

Combined Side Guide Rail 30/80 und 30/17

Side guide rail in two parts for blind and insect roller screen (ISTR and ISKTR) mounted on the window frame.

General: Side Guide Rails

Types: AF 80, AF 100



Lateral Side Guide Rail18/20

Lateral installation into the wall clearance. Standard side guide rail length = complete height minus 70 mm

Lateral Side Guide Rail 18/20

Lateral installation into a notch provided by the customer.

Notch dimensions: Width 22 mm, Depth 18 mm

Note: protrusion beyond the recess is required

Combined Side Guide Rail 30/80 mounted in.

Installation directly on the window frame.
Note: protrusion beyond the recess is required

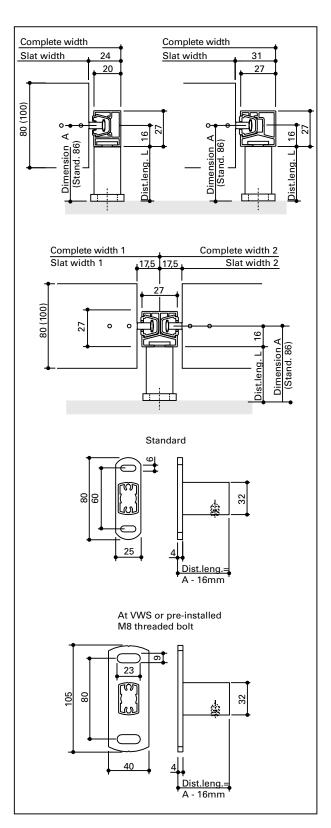
Combined Side Guide Rail 30/80 mounted in along with insect roller screen.

Installation directly on the window frame.

Note: protrusion beyond the recess is required

Square Side Guide Rails for SB 140 and RB 140

Types: AF 80, AF 100



801 3001 Height of the blind from [mm] 1800 4000 3000 [mm] Distance bracket per GR [quantity] 3 4

Single Guide Rail 20/27 und 27/27

Installation using distance brackets on the window frame or the facade. Standard length of the side guide rail = complete height minus 70 mm

Double Guide Rail 27/27

Installation using distance brackets on the window frame of the facade. Standard length of the side guide rail = complete height minus 70 mm

Distance Bracket

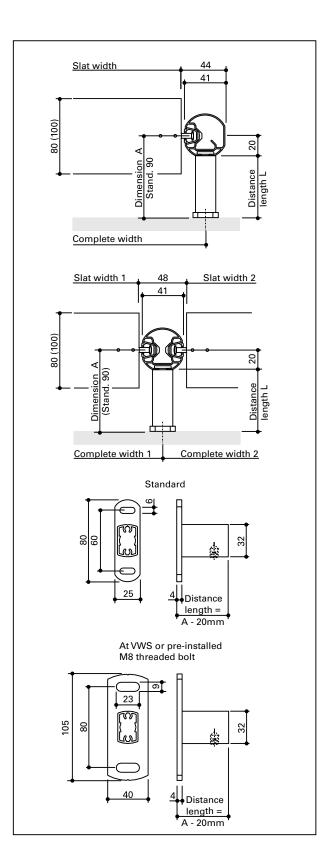
Extruded aluminium distance profile; Dim. 32 x 20 mm. Base plate made of diecast zinc; Dim. 80 x 25 x 4 mm Large base plate made of die-cast zinc; Dim. 105 x 40 x 4 mm Fixing of the distance bracket to the side guide rail using a galvanised steel clamping cone. Standard ordering dimension A = 86 mm. 86 mm to 216 mm feasi-

Ordering dimensions from

Special lengths should be mentioned in the order!

Round Side Guide Rails for SB 140 and RB 140

Types: AF 80, AF 100



Round Single Guide Rail, Dimension ø 45

Installation using distance brackets on the window frame or the facade.

Round Double Guide Rail, Dimension ø 45

Installation using distance brackets on the window frame or the facade.

Distance Bracket

Extruded aluminium distance profile;
Dim. 32 x 20 mm.
Base plate made of diecast zinc;
Dim. 80 x 25 x 4 mm
Large base plate made of die-cast zinc;
Dim. 105 x 40 x 4 mm
Fixing of the spacer to the side guide rail using a galvanised steel clamping cone.
Standard ordering dimension A = 86 mm.

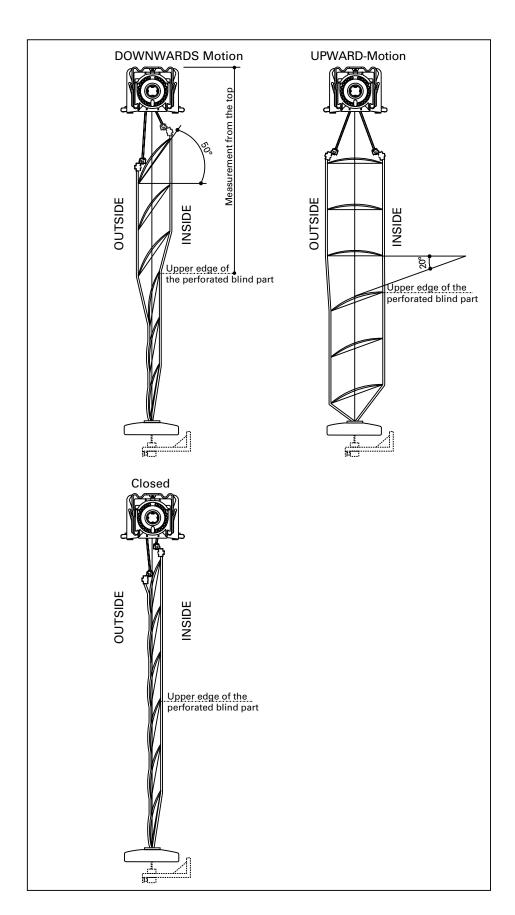
Distance lengths from 86 mm to 216 mm feasible.

Special lengths should be mentioned in the order!

Height of the blind	from	(mm)		1801	3001
	to	(mm)	1800	3000	4000
Distance bracket	per GR	(quanity)	2	3	4

General: Light Control Function

Types: AF 50, AF 80, AF 100

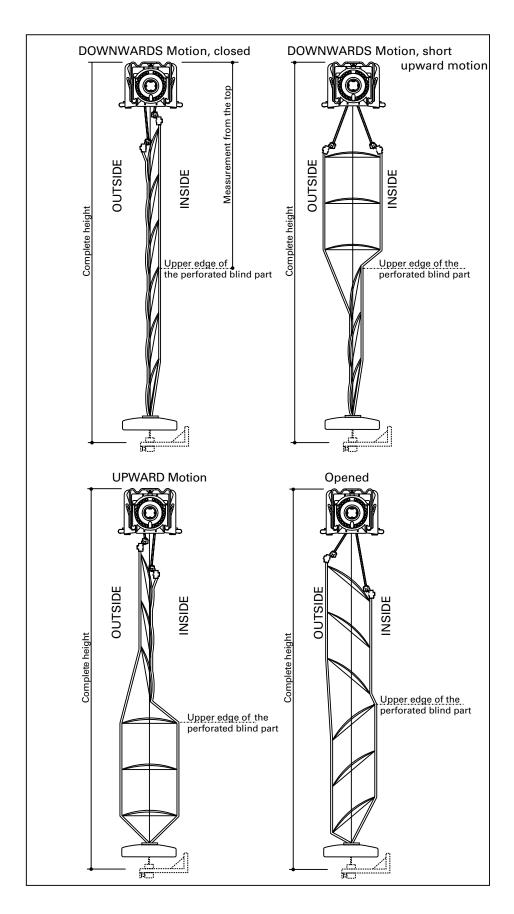


The blind with light control function is characterised by three essential criteria:

- Blind generally with bearing with working position (Variotec)
- Lower half of the blind with perforated slats, if requested
- 3) Various possibilities for adjustment of the blind:
- Lowering of the blind into working position (Variotec). Slats in the upper part are tipped by approx. 50°; in the lower part the slats are closed.
- Raising of the blind with horizontally set slats in the upper part, in the lower part they are tipped by approx. 20°.
- The blind can also be closed completely.

General: Daylight Transport Function

Types: AF 50, AF 80



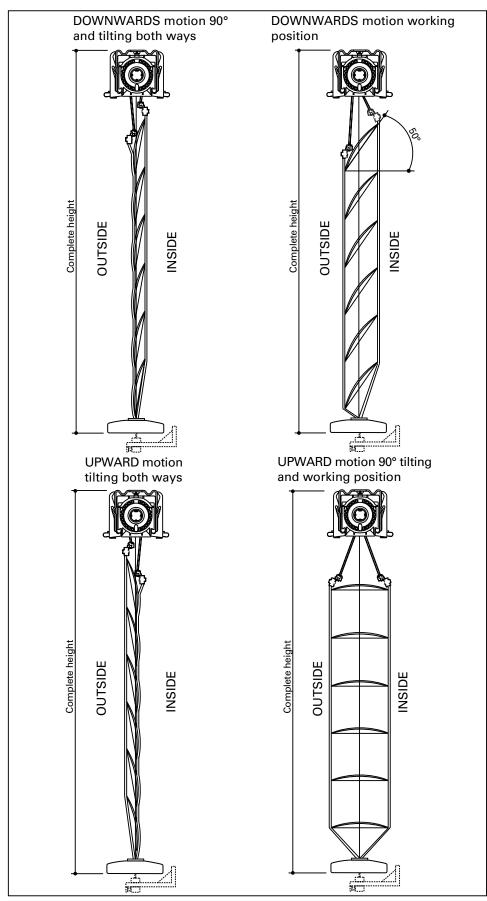
The blind with daylight transport function is characterized by various slat positioning possibilities:

- The blind is raised in the closed position.
- The upper part of the blind can be opened to a maximum of 90° while the lower part remains closed.
- When raising the blind, the upper part is closed towards the interior.
- The lower part of the blind is raised with the slats horizontal in their maximum opening angle.

Note: AF 100 cannot be supplied with the daylight transport function, as the blind is raised with the slats in a horizontal position.

General: Tiltings

Types: AF 50, AF 80, AF 100



Tilting Both Ways (Standard)

When lowering the blind, it is closed towards the exterior, and when raising, towards the interior. In between it can be smoothly adjusted.

Working Position (Variotec)

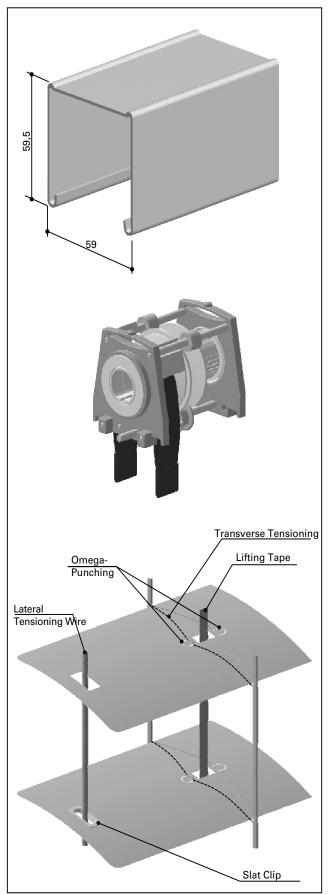
When lowering, the blind is tipped approx. 50° towards the exterior, when raising, it is horizontal, and in between it can be smoothly adjusted. Once completely lowered, the blind can be closed towards the exterior and can be smoothly adjusted till it is horizontal.

90° Tilting

When lowering the blind, it is closed towards the exterior, and when raising, it is horizontal. In between it can be smoothly adjusted.

General: Horiso

Types: AF 50, AF 80, AF 100



Top Rail (Standard)

Made of extruded aluminim. Dimensions 59 x 59.5mm. Installation with closed side facing upward.

Tilting Device

Precision ball bearing, dustproof for 6 mm lifting tape for AF 50 and for 10 mm lifting tape for AF 80 and AF 100.

Note: Only 90° tilting possible.

Slat Joints

The ladder cord will be joined non-positively with each slat (double Omegapunching). Fixed in this way, the blind is centred and becomes very stable.

Note: the closing process, however, changes for the worse.

General: Horiso

Types: AF 50, AF 80, AF 100

Modell	mi. Width	max. Width	max.Height	max.Surface
	[mm]	[mm]	[mm]	[m²]
AF 50 H	700	5.000	3.000	15

Standard Heights of Packages

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	120	130
1.200	130	140
1.600	140	150
2.000	155	165

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.400	165	195
2.800	175	205
3.000	180	205

Modell	Min. Width	max. Width	max .Height	max.Surface
	[mm]	[mm]	[mm]	[m²]
AF 80 H	700	5.000	3.000	15

Achtung:

minimum width is always based on the ength of the slats; with guide rails, the respective side guid rail subtraction must be added on (see table).

Standard Heights of Packages

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	120	130
1.200	125	135
1.600	135	145
2.000	145	155

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.400	155	165
2.800	160	170
3.000	165	175

Heights of Packages with Clip in each Slat

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	135	145
1.200	155	165
1.600	175	185
2.000	195	205

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.400	215	225
2.800	230	240
3.000	240	250
	·	·

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	125	135
1.200	130	140
1.600	145	155
2.000	155	165

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.400	170	180
2.800	175	185
3.000	185	195

General: Horiso

Types: AF 50, AF 80, AF 100

Model	min. Width	max. Width	max.Height	max.Surface
	[mm]	[mm]	[mm]	[m²]
AF 100 H	700	5.000	3.000	15

Note:

minimum width is alwayse based on the length of theslats; with guide rails, the respective side guide rail subtractuon must be added on (see table)

Standard Heights of Packages

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	115	130
1.200	125	135
1.600	135	145
2.000	145	155

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.400	150	160
2.800	160	170
3.000	165	175

Heights of Packages with Clip in each Slat

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	130	140
1.200	150	160
1.600	165	175
2.000	185	195

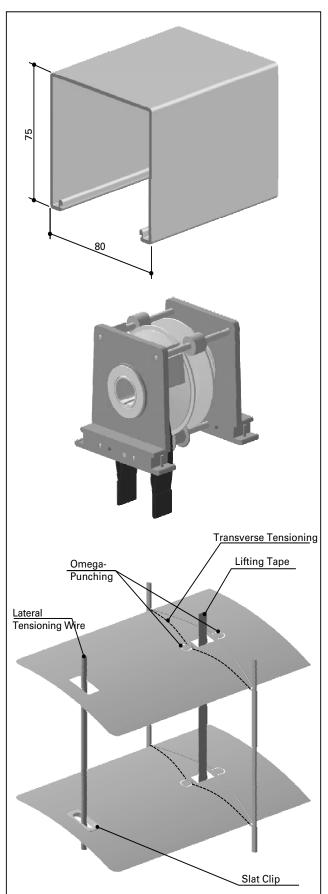
Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.400	200	210
2.800	220	230
3.000	225	235

Height of Blic	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	125	135
1.200	130	140
1.600	140	150
2.000	145	155

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
2.400	155	165
2.800	160	170
3.000	170	180

General: Horiso S

Types: AF 80, AF 100



Top Rail (Standard)

Made of extruded aluminium. Dimensions 80 x 75 mm. Installation with closed side facing upward.

Tilting Device

Precision ball bearing, dustproof for 10 mm lifting tape for AF 80 and AF 100.

Note: Only 90° tilting possible.

Slat Joints

The ladder cord will be joined non-positively with each slat (double Omegapunching). Fixed in this way, the blind is centred and becomes very stable.

Note: the closing process, however, changes for the worse

General: Horiso S

Types: AF 80, AF 100

Model	Min. Width	Max. Width	Max. Width	Max. Surface
	[mm]	[mm]	[mm]	[m²]
AF 80 HS	700	5.000	6.400	25

Note:

minimum width is always based on the length of the slats, with guide rails the respective side guide rail subtraction must be added on (see table).

Standard Heights of Packages

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	135	145
1.200	145	155
1.600	155	165
2.000	165	175
2.400	170	180
2.800	180	190
3.200	190	200
3.600	200	210

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
4.000	205	215
4.400	215	225
4.800	225	235
5.200	235	245
5.600	245	255
6.000	250	260
6.400	260	270
	_	

Heights of Packages with Clip in each Slat

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	155	165
1.200	175	185
1.600	190	200
2.000	210	220
2.400	230	240
2.800	250	260
3.200	270	280
3.600	290	300

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
4.000	310	320
4.400	330	340
4.800	350	360
5.200	365	375
5.600	385	395
6.000	405	415
6.400	425	435

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	145	155
1.200	150	160
1.600	165	175
2.000	175	185
2.400	180	190
2.800	195	205
3.200	205	215
3.600	220	230

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
4.000	225	235
4.400	235	245
4.800	250	260
5.200	255	265
5.600	270	280
6.000	280	290
6.400	285	295

General: Horiso S

Types: AF 80, AF 100

Model	Min. Width Max. Widt		Max. Height	Max. Surface	
	[mm]	[mm]	[mm]	[m²]	
AF 100 HS	700	5.000	6.400	25	

Note:

minimum width is always based on the length of the slats; with guide rails, the

respective side guide rail subtraction must be added on (see table)

Standard Heights of Packages

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	135	145
1.200	145	155
1.600	155	165
2.000	160	170
2.400	170	180
2.800	180	190
3.200	190	200
3.600	195	205

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
4.000	205	215
4.400	215	225
4.800	225	235
5.200	230	240
5.600	240	250
6.000	250	260
6.400	260	270

Heights of Packages with Clip in each Slat

Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
800	150	160
1.200	165	175
1.600	185	195
2.000	200	210
2.400	220	230
2.800	240	250
3.200	255	265
3.600	275	285

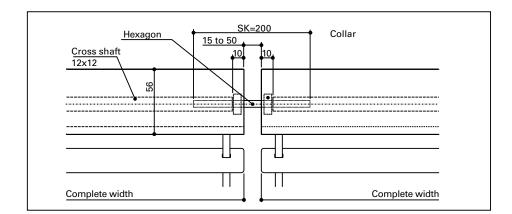
Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
4.000	290	300
4.400	305	315
4.800	325	335
5.200	340	350
5.600	360	370
6.000	375	385
6.400	395	405

Height of Blind	Height of Package	Height of Cover	
[mm]	[mm]	[mm]	
800	145	155	
1.200	150	160	
1.600	160	170	
2.000	165	175	
2.400	175	185	
2.800	180	190	
3.200	190	200	
3.600	205	215	

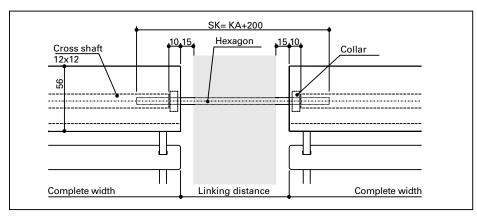
Height of Blind	Height of Package	Height of Cover
[mm]	[mm]	[mm]
4.000	210	220
4.400	220	230
4.800	225	235
5.200	235	245
5.600	240	250
6.000	250	260
6.400	265	275

General: Linking Options

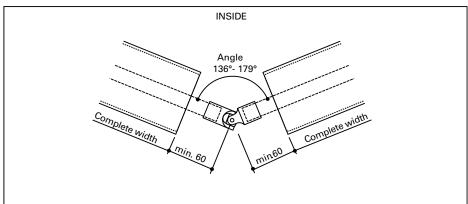
Types: AF 50, AF 80, AF 100



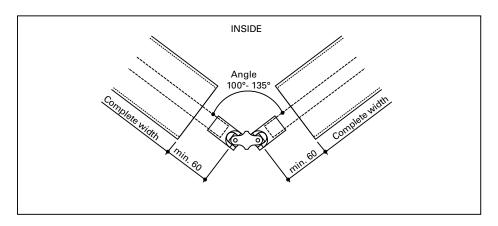
Close Linking with divided top rail and linking distance of 15 mm to 50 mm



Close Linking at passage through existing components with divided top rail. Mention linking distance on order form.



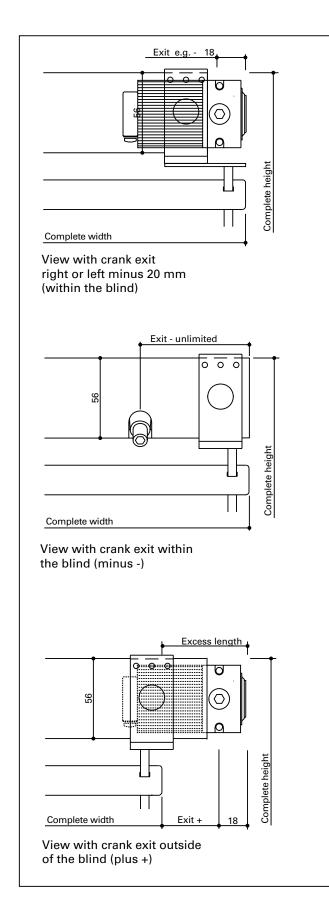
Where there are angels of 136° to 179° linking with universal link

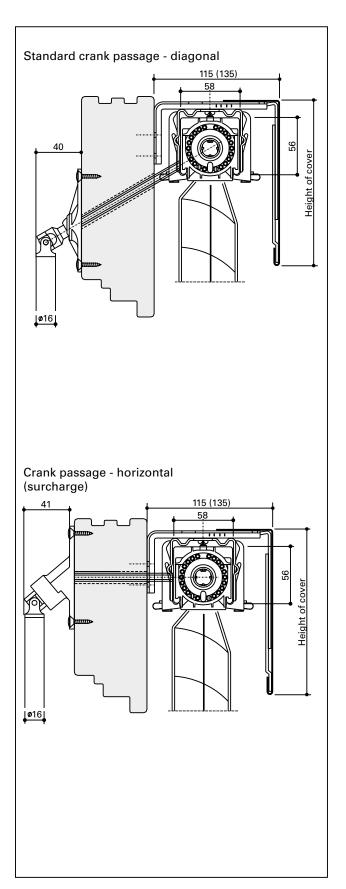


Where there are angels of 100° to 135° linking with universal link

General: Crank Handle Operation

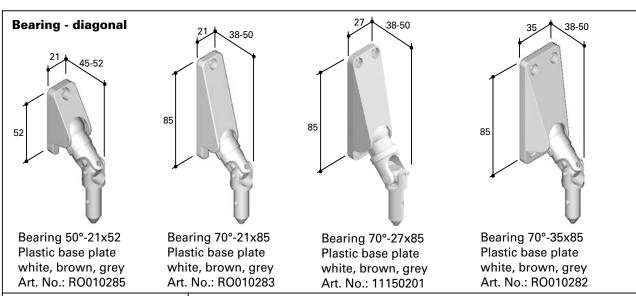
Types: AF 50, AF 80, AF 100



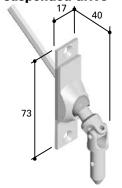


General: Crank Handle Operation

Types: AF 50, AF 80, AF 100

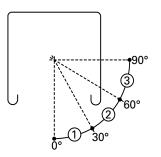


Bearing - diagonal also possible with fully-suspended drive



Bearing 50°-17x37 chrome-plated base plate Art. No.: RO010228-L500

Bearing - Range of Use

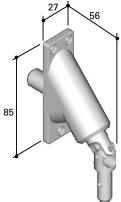


1) 0° - 30° only possible with additional direction change

2) 41° - 60° Bearing diagonal 3) 61° - 90° Bearing horizontal

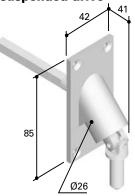
Note: gear exit under 45° situated beyond the end of the slats is required!

Bearing - horizontal



Bearing 90°-27x85 Plastic base plate white, brown, grey Art. No.: RO010281

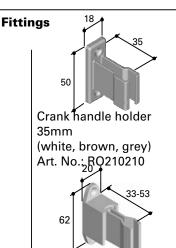
also possible with fullysuspended drive



Bearing 90°-42x85 Die-cast aluminium base plate (white) Art. No.: RO010261-L500

80 ø 12

Crank handle funnel for flex crank handle, nickel-plated Art. No.: RO010225



Adjustable crank handle holder (grey) Art. No.: JA100226

General: Motorized Drive

Types: AF 50, AF 80, AF 100

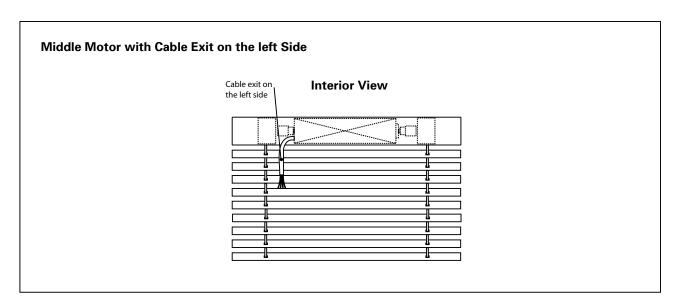
The blind is raised and lowered using an electric motor with integrated planetary gear by activating a switch. Slats can be tilted by lightly touching the switch in the respective direction.

If several motors should be activated with one switch, a control unit is necessary. When it reaches the top or bottom end position, the limit switches built-in to the motor automatically shut off the drive. The drive is located in the middle of the blind with the cable exit on the left (seen from the interior)! With coupled devices, the middle motor is located in the middle (M) before the last bearing.

For control options, automatic devices and a choice of switches, please see your control documentation.

Model	Surface of the Blind CH x CW	Art.No.	Elero (Standard Motor)	Art.No.	Elero (Object Motor)	Capacity (Watt)	Power consumpt.
AF 50	up to 14 m ²	05100205	E-MOTOR JA05 SOFT	05100211	E-MOTOR JA05 SOFT-UNO	100 W	0,45 A
	up to 25 m ²	05100206	E-MOTOR JA09 SOFT			170 W	0,75 A
	up to 36 m ²	05100207	E-MOTOR JA20 DK			190 W	1,05 A
AF 80	up to 8 m ²	05100205	E-MOTOR JA05 SOFT	05100211	E-MOTOR JA05 SOFT-UNO	100 W	0,45 A
AF 100	up to 16 m ²	05100206	E-MOTOR JA09 SOFT			170 W	0,75 A
	up to 25 m ²	05100207	E-MOTOR JA20 DK			190 W	1,05 A

Model	Surface of the Blind CH x CW	Art.No.	Somfy (Standard Motor)	Art.No.	Somfy (Object Motor)	Capacity (Watt)	Power consumpt.
AF 50	up to 8 m ²	05100012	ORIENTA MU 3 NM	05100008	ORIENTA M 3 NM	90 W	0,4 A
	up to 17 m ²	05100013	ORIENTA MU 6 NM	05100009	ORIENTA M 6 NM	115 W	0,5 A
	up to 27 m ²	05100014	ORIENTA MU 10 NM	05100010	ORIENTA M 10 NM	130 W	0,6 A
	up to 36 m ²	05100015	ORIENTA MU 20 NM	05100011	ORIENTA M 20 NM	210 W	0,95 A
AF 80	up to 5 m ²	05100012	ORIENTA MU 3 NM	05100008	ORIENTA M 3 NM	90 W	0,4 A
AF 100	up to 10 m ²	05100013	ORIENTA MU 6 NM	05100009	ORIENTA M 6 NM	115 W	0,5 A
	up to 16 m ²	05100014	ORIENTA MU 10 NM	05100010	ORIENTA M 10 NM	130 W	0,6 A
	up to 25 m ²	05100015	ORIENTA MU 20 NM	05100011	ORIENTA M 20 NM	210 W	0,95 A

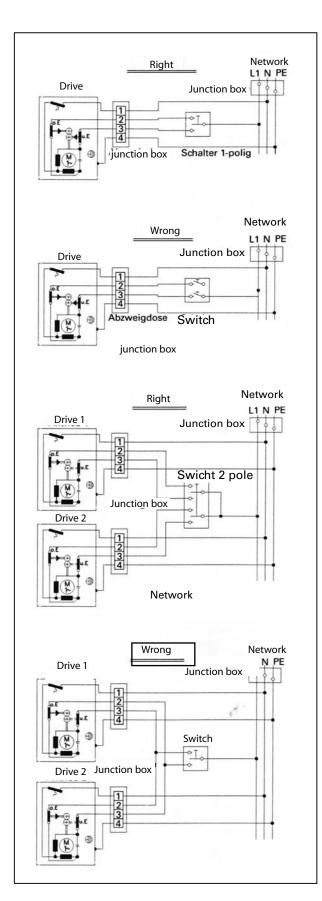


Note: INSTABUS- Systems (EIB) und Motorized Drives.

On activating electric drives, please note that the minimum changeover delay between the Up and Down command is 500 ms. Usually only 30 – 80 ms are provided for. If incorrectly set up, the limit switches of the electric drives can fail (fuse). The Hella company declines guarantee in such a case.

General: Motorized Drive

Types: AF 50, AF 80, AF 100



Wiring Diagram for Individual Control Individual Drive 1 Pole

The drives must be wired as suggested by the motor manufacturer. For installation by the customers, please observe the Austrian Electrotechnical Association and the local electric works' regulations.

Note! Important tips

Electrical installations done by customers, must be carried out by a concessionary electrician.

Unacceptable Types of Wiring for Parallel Connections to 2 or more Drives

The drives of a commonly controlled facility never have precise running times!

Therefore, if several drives are to be commonly operated with one switch, a separate contact should be provided for every drive and every running direction (galvanic isolation of the drives). Jointly controlling several drives requires SOMFY control and/or automatic equipment. Otherwise, there is the risk that enormous loads occur, that the limit switches get destroyed and that the drive malfunctions.

Note:

When installing together with **Instabus EIB**-systems, the minimum changeover delay between the Up and Down Command is 500 ms.

Switches or Circuits that Enable Up and Down Commands Simultaneously

Simultaneously issuing the Up and Down Commands, leads to a shortcircuit of the capacitor and to contra-induction in the winding. Therefore, only electrical or mechanical interlocking individual switches should be used. With several switches, provide one-step or multipoint control relays. When controlling several drives, use control equipment with an interacting locking of commands.

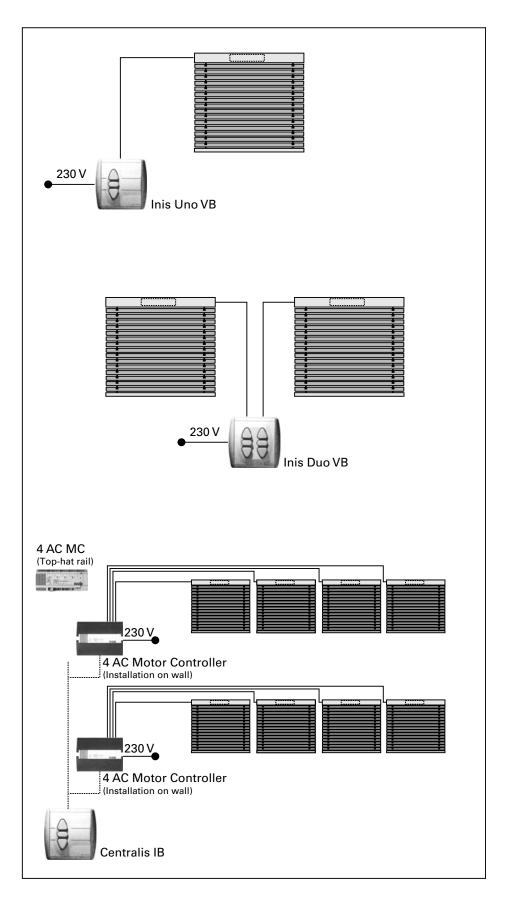
Further Wiring Regulations / Drives in Wet Spaces

The drives have protection class splashproof according to the Association for Electrical, Electronic & **Information Technologies** (VDE) 0700 Part 228. If our drives are to be used in wet spaces (e.g. bathrooms), the regulations and recommendations of the Austrian Electrotechnical Association and the local energy supply company should be observed, including the stipulations on the safe area for wet and damp spaces in the Austrian Electrotechnical Association's regulations.

These Regulations Include Obligatory Safety Measures! Non-compliance Can Be Fatal!

General: Motorized Drive

Types: AF 50, AF 80, AF 100



Individual Operation

Control of 1 drive using a switch (Inis Uno VB).
Note:
maximum 1 drive per switch

Individual Operation with Dual Switch

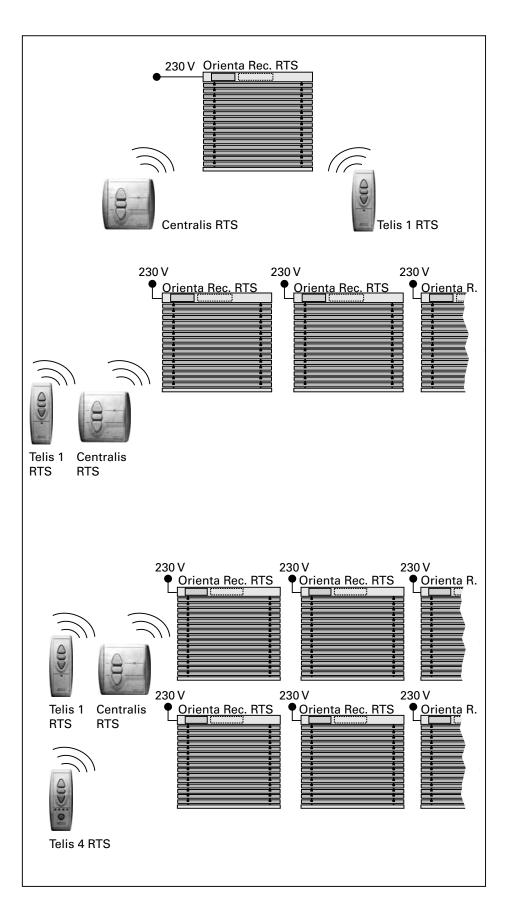
Control of 2 drives using a dual switch (Inis Uno VB)

Group Operation

Simultaneous control of up to 4 drives with a 4 AC motor controller (installation on wall or top-hat rail installation in the standard transfer casing). Central command using central button Centralis Uno IB.

General: Motorized Drive

Types: AF 50, AF 80, AF 100



Individual Remote Control

Controlling a drive with an additional Orienta Receiver RTS radio receiver that is built into the top rail. As a transmitter, either a Telis 1 RTS (1-channel radio hand-held transmitter) can be used, or a Centralis RTS (1-channel radio wall transmitter).

Small Group Remote Control

Controlling several drives (up to 16) each with an additional Orienta Receiver RTS radio receiver that is built into the top rail. As a transmitter, either a Telis 1 RTS (1-channel radio hand-held transmitter) can be used, or a Centralis RTS (1-channel radio wall transmitter).

Individual, Small Group and Centralised Remote Control

Controlling several drives (up to 16) each with an additional Orienta Receiver RTS radio receiver that is built into the top rail. As a transmitter, either a Telis 1 RTS (1-channel radio hand-held transmitter) can be used, or a Centralis RTS (1-channel radio wall transmitter).

If the facilities are subdivided into even smaller groups, or individually controlled, a Telis 4 RTS (4-channel radio handheld transmitter) or another hand-held transmitter is required.

General: Colour Definition

Types: AF 50, AF 80, AF 100

Available Colours:

Slats 50/80/100mm According to current range

Slats 50/80/100mm perforated Standard in white and silver

Colours according to current range for a surcharge

Top rail (roll form) Galvanised

Top rail (extruded) Standard in shiny aluminium

Colours from the RAL-colour chart or anodised for

a surcharge (CO, C31-C35)

Bottom ail Standard in 2 colours:

Side guide rail White (RAL 9016) and silver (RAL 9006)

Distance bracket Colours from the RAL-colour chart or anodised for

a surcharge (CO, C31-C35)

Cover Standard in 3 colours:

White (RAL 9016), brown (similar RAL 8014), silver (RAL 9006)

Colours from the RAL-colour chart or anodised for

a surcharge (CO, C31-C35)

Box (round box) Standard silver (RAL 9006)

Colours from the RAL-colour chart or anodised for

a surcharge (CO, C31-C35)

Box (square box) Standard silver (RAL 9006)

Colours from the RAL-colour chart or anodised for

a surcharge (CO, C31-C35)

Inside fittings White, grey and dark brown

Ladder cord Grey and black

Lifting tape Black

Side guide rail insert Grey and black