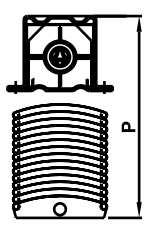


סומברה | קטלוג טכני

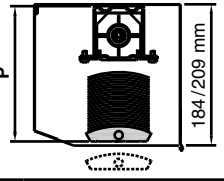
פתרונות הצללה מתקדמים



1.3 Stack of slats height

		P - STACK OF SLATS HEIGHT (cm)															
		C-80		C-80 CC		C-80 VENTAL		Z-90 NOVAL		Z-70		F-80		EXT-50 H		EXT-50	
		crank	motor	crank	motor	crank	motor	crank	motor	crank	motor	crank	motor	crank	motor	crank	motor
BLIND HEIGHT	50 - 75 cm	14	16	13	15	12.5	14.5	11	13	15	17	11.5	13.5	11.5	13.5	9.5	
	75,1 - 100 cm	16	18	14	16	14	16	13	15	16	18	12.5	14.5				
	100,1 - 125 cm	18	20	16	18	15.5	17.5	14	16	17	19	13	15	13	15	11	
	125,1 - 150 cm	20	22	17	19	17	19	15	17	19	21	14	16				
	150,1 - 175 cm	22	24	19	21	18.5	20.5	17	19	21	23	14.5	16.5	14	16	12	
	175,1 - 200 cm	24	26	21	23	20	22	18	20	23	25	15.5	17.5				
	200,1 - 225 cm	26	28	22	24	21.5	23.5	19	21	25	27	16	18	15.5	17.5	13.5	
	225,1 - 250 cm	28	30	24	26	22.5	24.5	21	23	27	29	17	19				
	250,1 - 275 cm	30	32	25	27	23.5	25.5	22	24	28	30	17.5	19.5	17	19	15	
	275,1 - 300 cm	32	34	27	29	25	27	23	25	29	31	18.5	20.5				
	300,1 - 325 cm	34	36	28	30	26.5	28.5	24	26	31	33	19	21	18.5	20.5	16	
	325,1 - 350 cm	36	38	30	32	27.5	29.5	26	27	33	35	20	22				
	350,1 - 375 cm	38	40	31	33	29	31	27	29	35	37	20.5	22.5	20	22	-	
	375,1 - 400 cm	40	42	33	35	30	32	28	30	37	39	21	23				
	400,1 - 425 cm	42	44	34	36	31.5	33.5	29	31	38	40	22	24	-			
	425,1 - 450 cm	44	46	36	38	33	35	30	32	40	42	23	25				
	450,1 - 475 cm	46	48	37	39	34.5	36.5	32	34	41	43	23.5	25.5	-			
	475,1 - 500 cm	48	50	39	41	36	38	33	35	43	45	24.5	26.5				

1.3.1 Stack of slats height in roller shutter box

		P - STACK OF SLATS HEIGHT									
		F-80		C-80		C-80 CC		C-80 VENTAL		Z-70	
		crank	motor	crank	motor	crank	motor	crank	motor	crank	motor
BLIND HEIGHT	50 - 100 cm				18 cm						18 cm
	100,1 - 125 cm			18 cm			18 cm				
	125,1 - 130 cm										
	130,1 - 135 cm				20.5 cm					18 cm	
	135,1 - 140 cm				22 cm						20.5 cm
	140,1 - 150 cm				22 cm				18 cm		21 cm
	150,1 - 155 cm			20.5 cm	24 cm						23 cm
	155,1 - 160 cm			22 cm	24 cm	18 cm	20.5 cm			20.5 cm	23 cm
	160,1 - 175 cm			22 cm	24 cm		21 cm	18 cm	20.5 cm	21 cm	23 cm
	175,1 - 190 cm			24 cm	26 cm	20.5 cm	23 cm		19.5 cm	23 cm	25 cm
	190,1 - 200 cm			24 cm	26 cm	21 cm	23 cm		21 cm	23 cm	25 cm
	200,1 - 225 cm		18 cm	26 cm	28 cm	22 cm	24 cm	20.5 cm	22.5 cm	25 cm	27 cm
	225,1 - 250 cm			28 cm	30 cm	24 cm	26 cm	21.5 cm	23.5 cm	27 cm	29 cm
	250,1 - 275 cm			30 cm	32 cm	25 cm	27 cm	22.5 cm	24.5 cm	28 cm	30 cm
	275,1 - 290 cm	18 cm		32 cm	34 cm	27 cm	29 cm	24 cm	26 cm	29 cm	31 cm
	290,1 - 300 cm		20.5 cm	32 cm	34 cm	27 cm	29 cm	24 cm	26 cm	29 cm	31 cm
	300,1 - 325 cm			21 cm	34 cm	36 cm	30 cm	25.5 cm	27.5 cm	31 cm	33 cm
	325,1 - 350 cm	20.5 cm		22 cm	36 cm	38 cm	30 cm	32 cm	26.5 cm	28.5 cm	35 cm

Legend:

- box 180

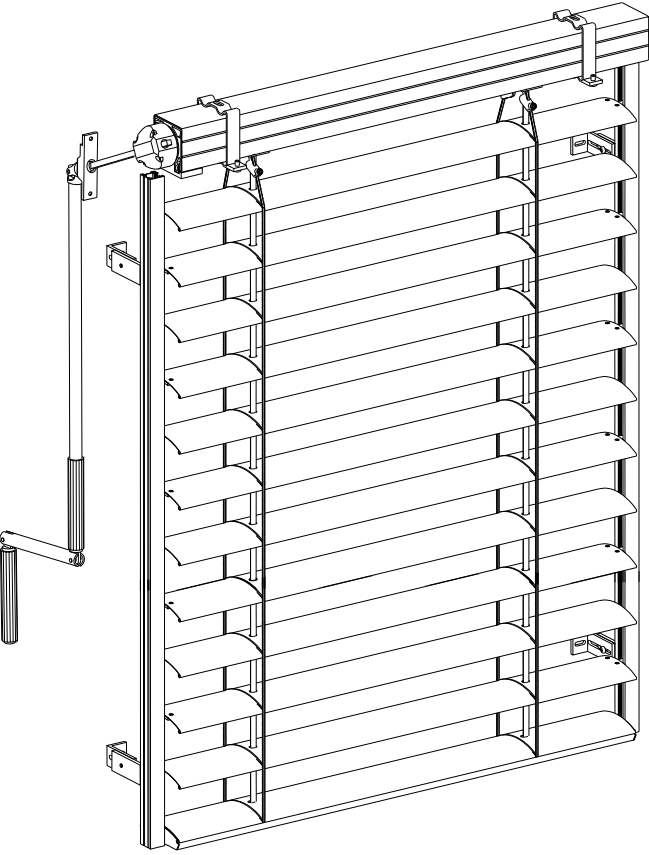
- box 205

- box 205 (the blind overlaps the box)

Note: The stack of slats height is an approximate value which can vary due to technical reasons.

2. External blinds C-80, C-80 CC

2.1 Product specification



Standard version
✓ operation by crank - anodized
✓ gear-box, bushing POK 45°, □ 6 x 6, length 31 cm
✓ head rail 56 x 58 mm - zinc-coated
✓ mounting holders MD 1 - zinc-coated
✓ guide rails VL (1, 2, 3) - anodized
✓ brackets K 1 - anodized
✓ guiding pin - plastic
✓ tape 8 mm
✓ ladder - spacing 72 mm
✓ standard slat colours according to the colour collection
✓ slat tilting to one side
✓ bottom rail - anodized
✓ fasteners
Other possible versions
✓ blind version C-80 CC
✓ operation by motor
✓ bushing POK 90° or other; detachable crank; interior gear-box
✓ head rail 57 x 59 mm - Al
✓ mounting holders MD 1a - stainless steel, MD 1b - spring
✓ guiding in wire; wire-extra (wire holder DL standard)
✓ guide rails VL (4, 5, 6, 7, 8, 9)
✓ brackets K (2-6); telescopic brackets TK (1-6); TKP (1-4); TTK (1-8); PK 70 (only for VL 4, 5, 6)
✓ slat tilting to both sides (cannot be used for C-80 CC)
✓ open version (working position)
✓ locking of bottom rail
✓ RAL colours
✓ MISTRAL version

Extra charges – see p. 38-42.

Colours - C-80, C-80 CC											
Number	Description	RAL	VSR	Delivery date	Extra charge	Number	Description	RAL	VSR	Delivery date	Extra charge
010	white	9003	010	1 week	no	7016	anthracite	7016	-	1 week	no
9010	white	9010	-			905	black	9005	-		
140 S	silver (structured)	9006	140			110	beige	-	110		
140 H	silver (smooth)	9006	140			440	azure blue	5009	440		
9007	silver - dark	9007	907			330	purple red	3011	330		
DB 703	dark grey	-	-			120	terracotta	3013	120		
130	grey	7038	130			720	chrome yellow	1007	720		
240	light beige	-	240			904	light grey	7035	904		
220	dark green	6005	220			909	green beige	1000	909		
780 H	bronze light	-	780			908	turquoise blue	5018	908		
780 D	bronze dark	-	780			903	light grey-blue	5014	903		
071	brown	8028	071			906	ultramarine blue	5002	906		
7022	grey	7022	-								

Limit dimensions													
BLIND TYPE	OPERATION	Width [cm]				Height [cm]				Max. area of 1 blind	Max. width when connected [m]		Max. area when connected
		Min.	Min. guarant.	Max.	Max. guarant.	Min.	Min. guarant.	Max.	Max. guarant.		Operation on the side	Operation in the middle	
C-80 / C80 CC	Crank	42	50	600	500	35	50	600	500	8 m²	6	12	8 m²
	Motor	43								20 m²			36 m²

2.2 Version

C-80, C-80 CC

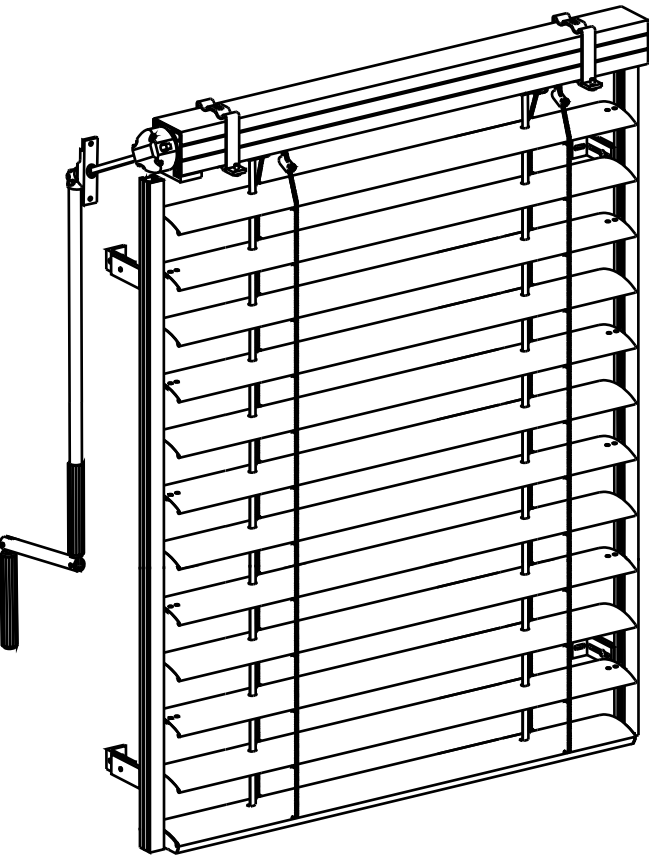
* Min. space for C-80 CC is 130 mm

Legend:
A – blind width
B – blind height
P – stack of slats height
VKP – cover plate height

** for blinds of width from 500 up to 999 mm

3. External blinds C-80 VENTAL

3.1 Product specification



Standard version
✓ operation by crank - anodized
✓ gear-box, bushing POK 45°, □ 6 x 6, length 31 cm
✓ head rail 56 x 58 mm - zinc-coated
✓ mounting holders MD 1 - zinc-coated
✓ guide rails VL (1, 2, 3) - anodized
✓ guiding pin - metal
✓ tape 8 mm
✓ ladder, spacing 65 mm, fixed in hooks at the slat edge
✓ brackets K 1 - anodized
✓ standard slat colours according to the colour collection
✓ slat tilting to one side
✓ bottom rail - anodized
✓ fasteners
Other possible versions
✓ operation by motor
✓ bushing POK 90° or other; detachable crank; interior gear-box
✓ head rail 57 x 59 mm - Al
✓ mounting holders MD 1a - stainless steel, MD 1b - spring
✓ guiding in wire; wire-extra (wire holder DL standard)
✓ guide rails VL (4, 5, 6, 7, 8, 9)
✓ brackets K (2-6); telescopic brackets TK (1-6); TKP (1-4); TTK (1-8); PK 70 (only for VL 4, 5, 6)
✓ open version (working position)
✓ locking of bottom rail
✓ RAL colours
✓ MISTRAL version

Extra charges – see p. 38-42.

Colours - C-80 VENTAL					
Number	Description	RAL	VSR	Delivery date	Extra charge
9010	white	9010	-	1 week	no
140 H	silver (smooth)	9006	140		
9007	silver - dark	9007	907		
DB 703	dark grey	-	-		
7016	anthracite	7016	-		

Limit dimensions													
BLIND TYPE	OPERATION	Width [cm]				Height [cm]				Max. area of 1 blind	Max. width when connected [m]		Max. area when connected
		Min.	Min. guarant.	Max.	Max. guarant.	Min.	Min. guarant.	Max.	Max. guarant.		Operation on the side	Operation in the middle	
C-80 VENTAL	Crank	46	50	600	500	35	50	600	500	8 m²	6	12	8 m²
	Motor									20 m²			36 m²

3.2 Version

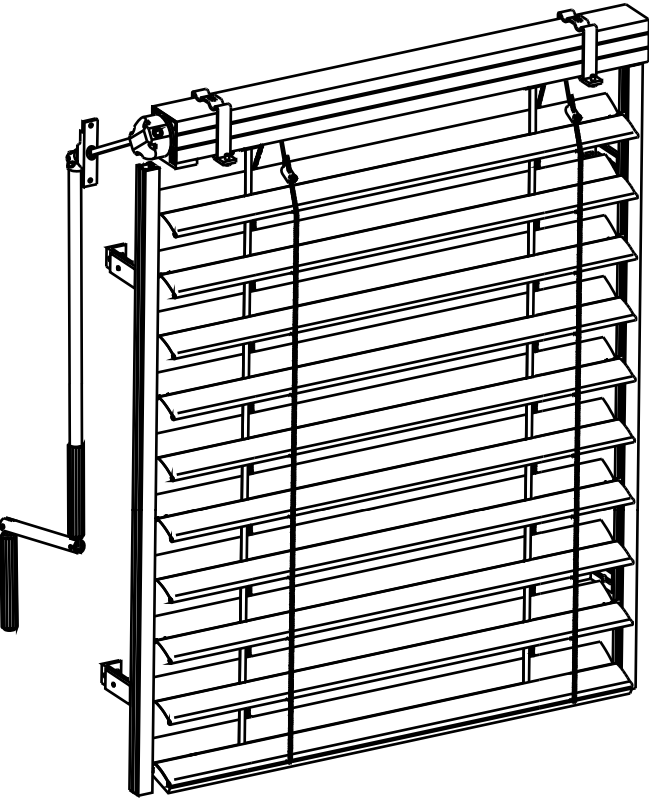
C-80 VENTAL

Technical drawing of the C-80 VENTAL blind mechanism. The side view shows the internal components including the crank handle, gear box, and guide rails. Dimensions include: VKP (cover plate height), P (stack of slats height), B (blind height), and A (blind width). The front view shows the slats and the bottom rail. Dimensions include: 15 mm (top rail offset), 25 mm (bottom rail offset), 125*(175) mm (slat width), and B (blind height). A legend defines the symbols: A – blind width, B – blind height, P – stack of slats height, VKP – cover plate height.

* for blinds of width from 500 up to 999 mm

4. External blinds Z-90 NOVAL

4.1 Product specification



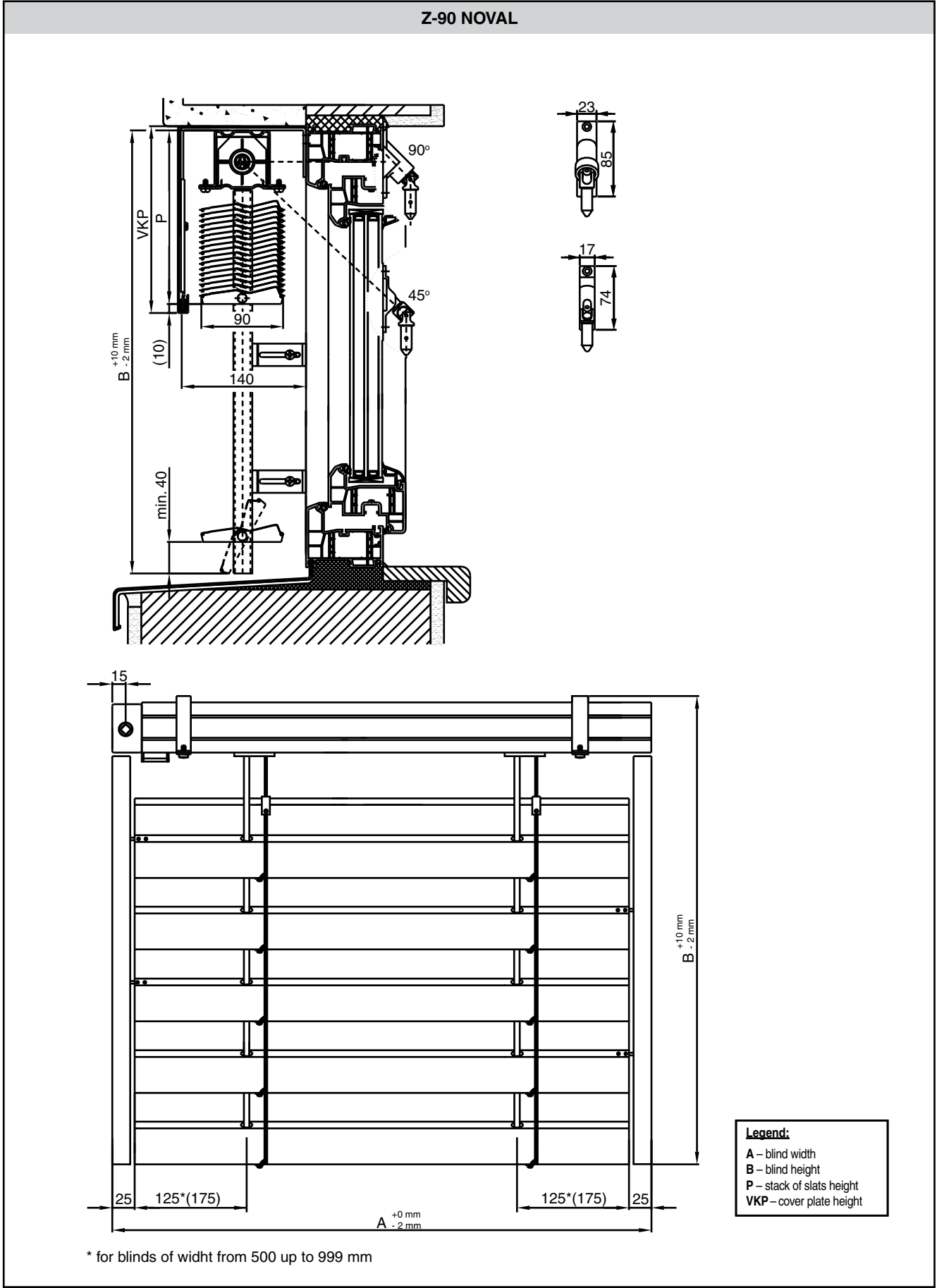
Standard version
✓ operation by crank - anodized
✓ gear-box, bushing POK 45°, □ 6 x 6, length 31 cm
✓ head rail 56 x 58 mm - zinc-coated
✓ mounting holders MD 1 - zinc-coated
✓ guide rails VL (1, 2, 3) - anodized
✓ guiding pin - metal
✓ tape 8 mm
✓ ladder, spacing 80 mm, fixed in hooks at the slat edge
✓ brackets K 1 - anodized
✓ standard slat colours according to the colour collection
✓ slat tilting to one side
✓ bottom rail - anodized
Other possible versions
✓ operation by motor
✓ bushing POK 90° or other; detachable crank; interior gear-box
✓ head rail 57 x 59 mm - Al
✓ mounting holders MD 1a - stainless steel, MD 1b - spring
✓ guiding in wire; wire-extra (wire holder DL standard)
✓ guide rails VL (4, 5, 6, 7, 8, 9)
✓ brackets K (2-6); telescopic brackets TK (1-6); TKP (1-4); TTK (1-8); PK 70 (only for VL 4, 5, 6)
✓ open version (working position)
✓ locking of bottom rail
✓ RAL colours
✓ MISTRAL version

Extra charges – see p. 38-42.

Colours - Z-90 NOVAL											
Number	Description	RAL	VSR	Delivery date	Extra charge	Number	Description	RAL	VSR	Delivery date	Extra charge
010	white	9003	010	1 week	no	7016	anthracite	7016	-	1 week	no
9010	white	9010	-			905	black	9005	-		
140 S	silver (structured)	9006	140			110	beige	-	110		
140 H	silver (smooth)	9006	140			440	azure blue	5009	440		
9007	silver - dark	9007	907			330	purple red	3011	330		
DB 703	dark grey	-	-			120	terracotta	3013	120		
130	grey	7038	130			720	chrome yellow	1007	720		
240	light beige	-	240			904	light grey	7035	904		
220	dark green	6005	220			909	green beige	1000	909		
780 H	bronze light	-	780			908	turquoise blue	5018	908		
780 D	bronze dark	-	780			903	light grey-blue	5014	903		
071	brown	8028	071			906	ultramarine blue	5002	906		
7022	grey	7022	-								

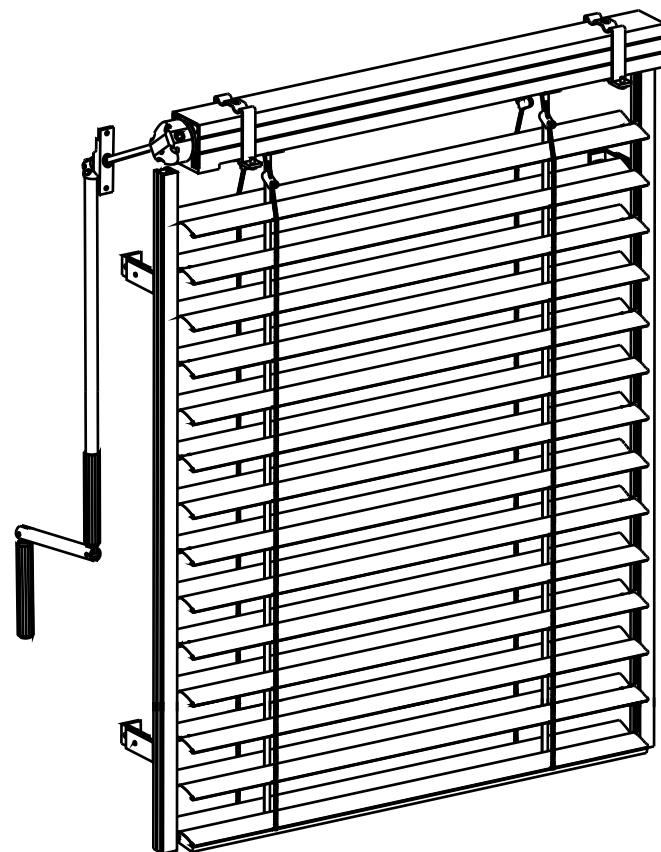
Limit dimensions													
BLIND TYPE	OPERATION	Width [cm]				Height [cm]				Max. area of 1 blind	Max. width when connected [m]		Max. area when connected
		Min.	Min. guarant.	Max.	Max. guarant.	Min.	Min. guarant.	Max.	Max. guarant.		Operation on the side	Operation in the middle	
Z-90 NOVAL	Crank	46	50	600	500	35	50	600	500	8 m²	6	12	8 m²
	Motor									20 m²			36 m²

4.2 Version



5. External blinds Z-70

5.1 Product specification



Standard version

- ✓ operation by crank - anodized
- ✓ gear-box, bushing POK 45°, □ 6 x 6, length 31 cm
- ✓ head rail 56 x 58 mm - zinc-coated
- ✓ mounting holders MD 1 - zinc-coated
- ✓ guide rails VL (1, 2, 3) - anodized
- ✓ guiding pin - metal
- ✓ tape 8 mm
- ✓ ladder, spacing 59.5 mm, fixed in hooks at the slat edge
- ✓ brackets K 1 - anodized
- ✓ standard slat colours according to the colour collection
- ✓ slat tilting to one side
- ✓ bottom rail - anodized

Other possible versions

- ✓ operation by motor
- ✓ bushing POK 90° or other; detachable crank; interior gear-box
- ✓ head rail 57 x 59 mm - Al
- ✓ mounting holders MD 1a - stainless steel, MD 1b - spring
- ✓ guiding in wire; wire-extra (wire holder DL standard)
- ✓ guide rails VL (4, 5, 6, 7, 8, 9)
- ✓ brackets K (2-6); telescopic brackets TK (1-6); TKP (1-4); TKK (1-8); PK 70 (only for VL 4, 5, 6)
- ✓ open version (working position)
- ✓ locking of bottom rail
- ✓ RAL colours

Extra charges – see p. 38-42.

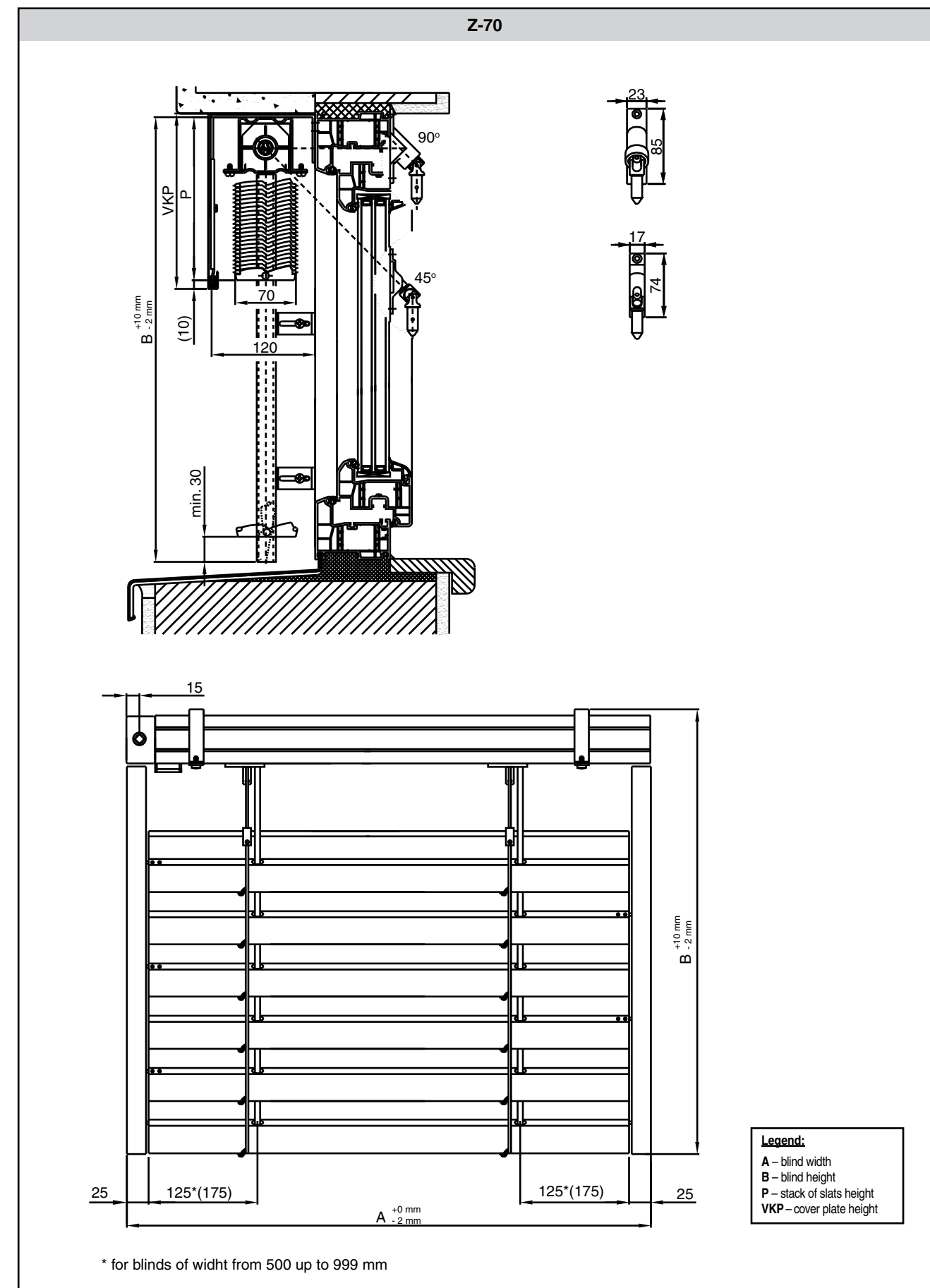
Colours - Z-70

Number	Description	RAL	VSR	Delivery date	Extra charge
010	white	9003	010	1 week	no
9010	white	9010	-		
140 S	silver (structured)	9006	140		
140 H	silver (smooth)	9006	140		
9007	silver - dark	9007	907		
DB 703	dark grey	-	-		
7022	grey	7022	-		
7016	anthracite	7016	-		

Limit dimensions

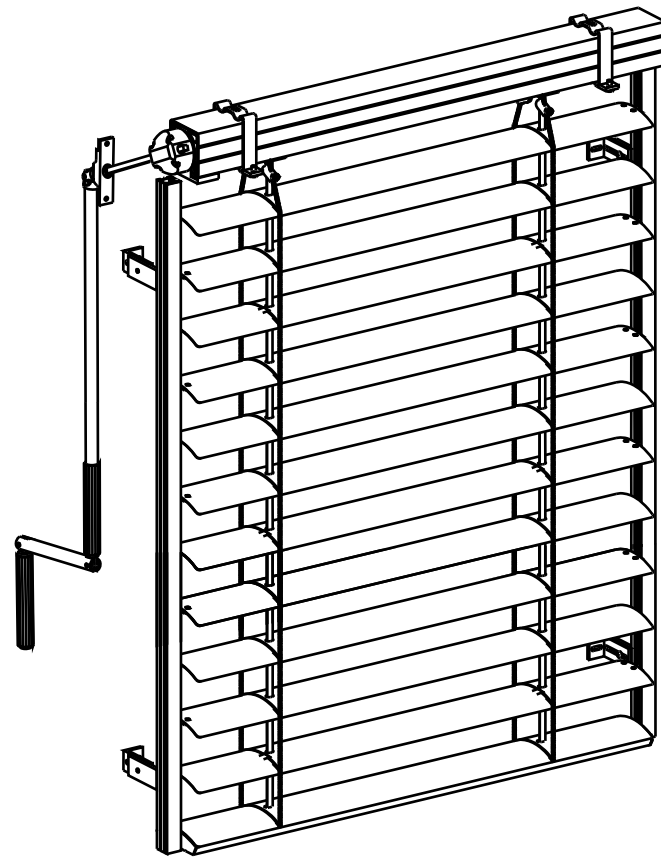
BLIND TYPE	OPERATION	Width [cm]				Height [cm]				Max. area of 1 blind	Max. width when connected [m]		Max. area when connected
		Min.	Min. guarant.	Max.	Max. guarant.	Min.	Min. guarant.	Max.	Max. guarant.		Operation on the side	Operation in the middle	
Z-70	Crank	42	50	600	500	35	50	600	500	8 m ²	6	12	8 m ²
	Motor	43								20 m ²			36 m ²

5.2 Version



6. External blinds F-80

6.1 Product specification



Standard version

- ✓ operation by crank - anodized
- ✓ gear-box, bushing POK 45°, □ 6 x 6, length 31 cm
- ✓ head rail 56 x 58 mm - zinc-coated
- ✓ mounting holders MD 1 - zinc-coated
- ✓ guide rails VL (1, 2, 3) - anodized
- ✓ brackets K 1 - anodized
- ✓ guiding pin - plastic
- ✓ tape 8 mm
- ✓ ladder, spacing 69 mm
- ✓ standard slat colours according to the colour collection
- ✓ slat tilting to one side
- ✓ bottom rail - anodized
- ✓ fasteners

Other possible versions

- ✓ operation by motor
- ✓ bushing POK 90° or other; detachable crank; interior gear-box
- ✓ head rail 57 x 59 mm - Al
- ✓ mounting holders MD 1a - stainless steel, MD 1b - spring
- ✓ guiding in wire; wire-extra (wire holder DL standard)
- ✓ slat tilting to both sides - only in wire
- ✓ guide rails VL (4, 5, 6, 7, 8, 9)
- ✓ brackets K (2-6); telescopic brackets TK (1-6); TKP (1-4); TTK (1-8); PK 70 (only for VL 4, 5, 6)
- ✓ open version (working position)
- ✓ locking of bottom rail
- ✓ RAL colours

Extra charges – see p. 38-42.

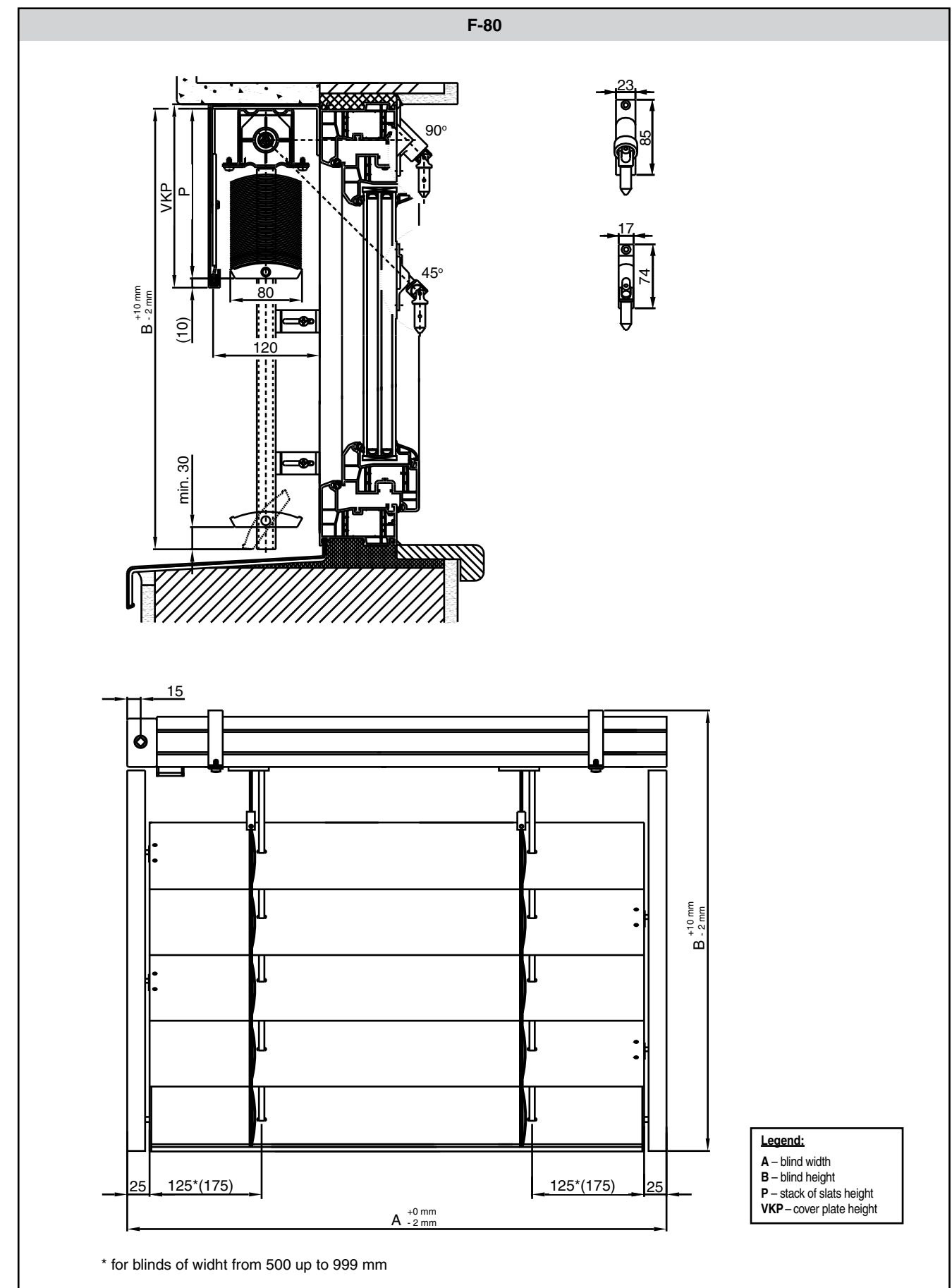
Colours - F-80

Number	Description	RAL	VSR	Delivery date	Extra charge
9010	white	9010	-	1 week	no
140 H	silver (smooth)	9006	140		
9007	silver - dark	9007	907		
DB 703	dark grey	-	-		
7022	grey	7022	-		
7016	anthracite	7016	-		

Limit dimensions

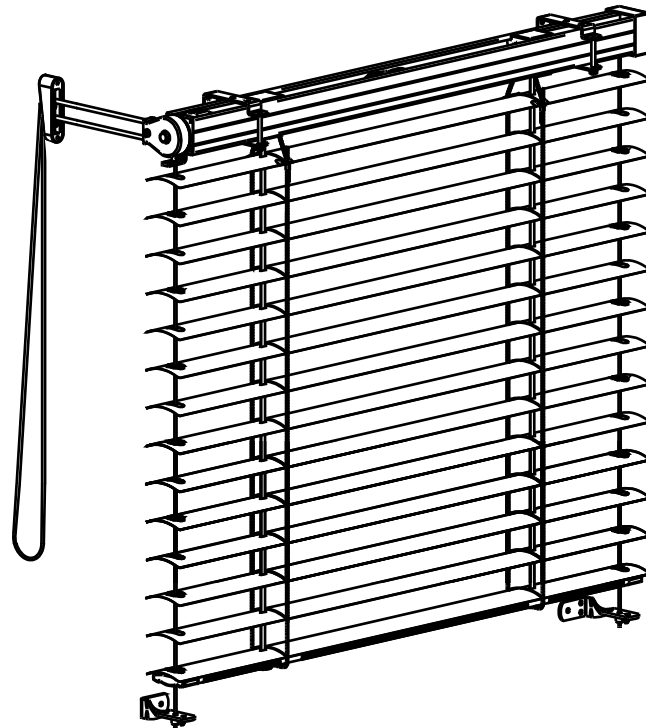
BLIND TYPE	OPERATION	Width [cm]				Height [cm]				Max. area of 1 blind	Max. width when connected [m]		Max. area when connected
		Min.	Min. guarant.	Max.	Max. guarant.	Min.	Min. guarant.	Max.	Max. guarant.		Operation on the side	Operation in the middle	
F-80	Crank	42	50	600	500	35	50	600	500	8 m ²	6	12	8 m ²
	Motor	43								20 m ²			36 m ²

6.2 Version



7.2 EXT-50

7.2.1 Product specification



Standard version

- ✓ operation by endless cord Ø 4.5 mm
- ✓ head rail 40 x 40 mm (white RAL 9003, silver RAL 9006)
- ✓ mounting holders DU - zinc-coated
- ✓ wire holder DL 5 - zinc-coated
- ✓ guiding wire - plastic-coated Ø 2.3 mm - zinc-coated
- ✓ tape 6 mm
- ✓ ladder, spacing 42 mm
- ✓ standard slat colours according to the colour collection
- ✓ slat tilting to both sides
- ✓ bottom rail 48 x 13 mm (white RAL 9016, silver RAL 9006)
- ✓ fasteners

Other possible versions

- ✓ operation by motor (motor only on the right or left side)
- ✓ operation by crank - anodized
- ✓ bushing POK 45°, POK 90° or other
- ✓ mounting holders DKP, DO
- ✓ wire-extra (wire holder DL 1, 2, 3, 4)
- ✓ guide rails VL (1, 2, 3, 7) - anodized
- ✓ brackets K (2-6); telescopic brackets TK (1-6); TKP (1-4); TKK (1-8)
- ✓ RAL colours

Extra charges – see p. 40-42.

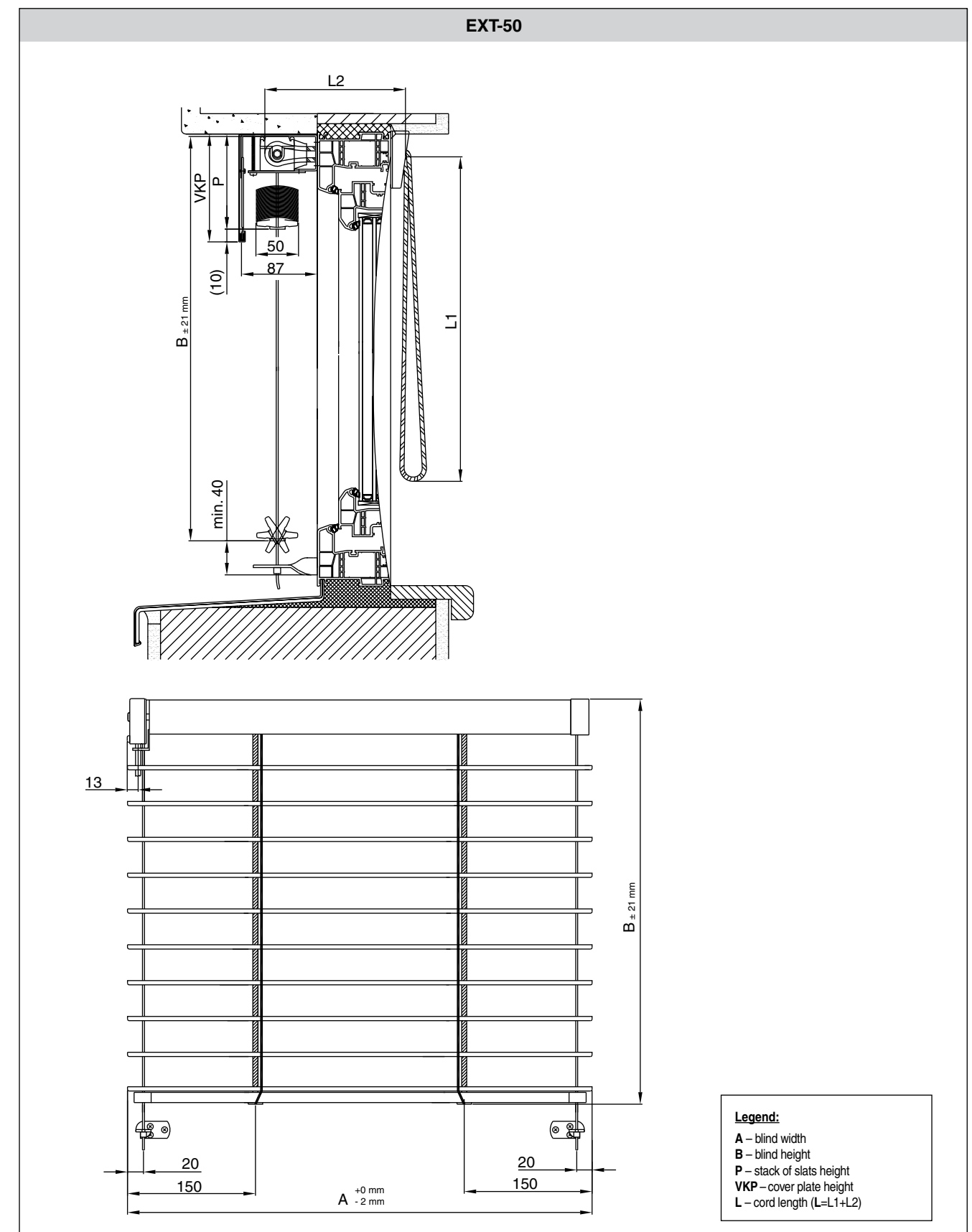
Colours - EXT-50

Number	Description	RAL	VSR	Delivery date	Extra charge	Number	Description	RAL	VSR	Delivery date	Extra charge
1	white (signal)	9003	010	1 week	no	44	wood imitation	-	-	1 week	no
12	light grey	-	904			49	black	9004	-		
13	grey (agate)	7038	-			190	silver brocade	-	140		
14	silver (aluminium)	9006	140			191	flint grey	9007	-		
14SP	silver (aluminium)	9006	140			380	dark grey	7043	-		
22	coffee	-	240			702	light green	-	-		
36	ivory	1013	-			950	brushed silver-grey	-	-		

Limit dimensions

BLIND TYPE	OPERATION	Width [cm]				Height [cm]				Max. area of 1 blind	Max. width when connected [m]		Max. area when connected
		Min.	Min. guarant.	Max.	Max. guarant.	Min.	Min. guarant.	Max.	Max. guarant.		Operation on the side	Operation in the middle	
EXT-50	Crank	42	50	350	250	35	50	350	250	5 m²	4	-	5 m²
	Motor			400									

7.2.2 Version

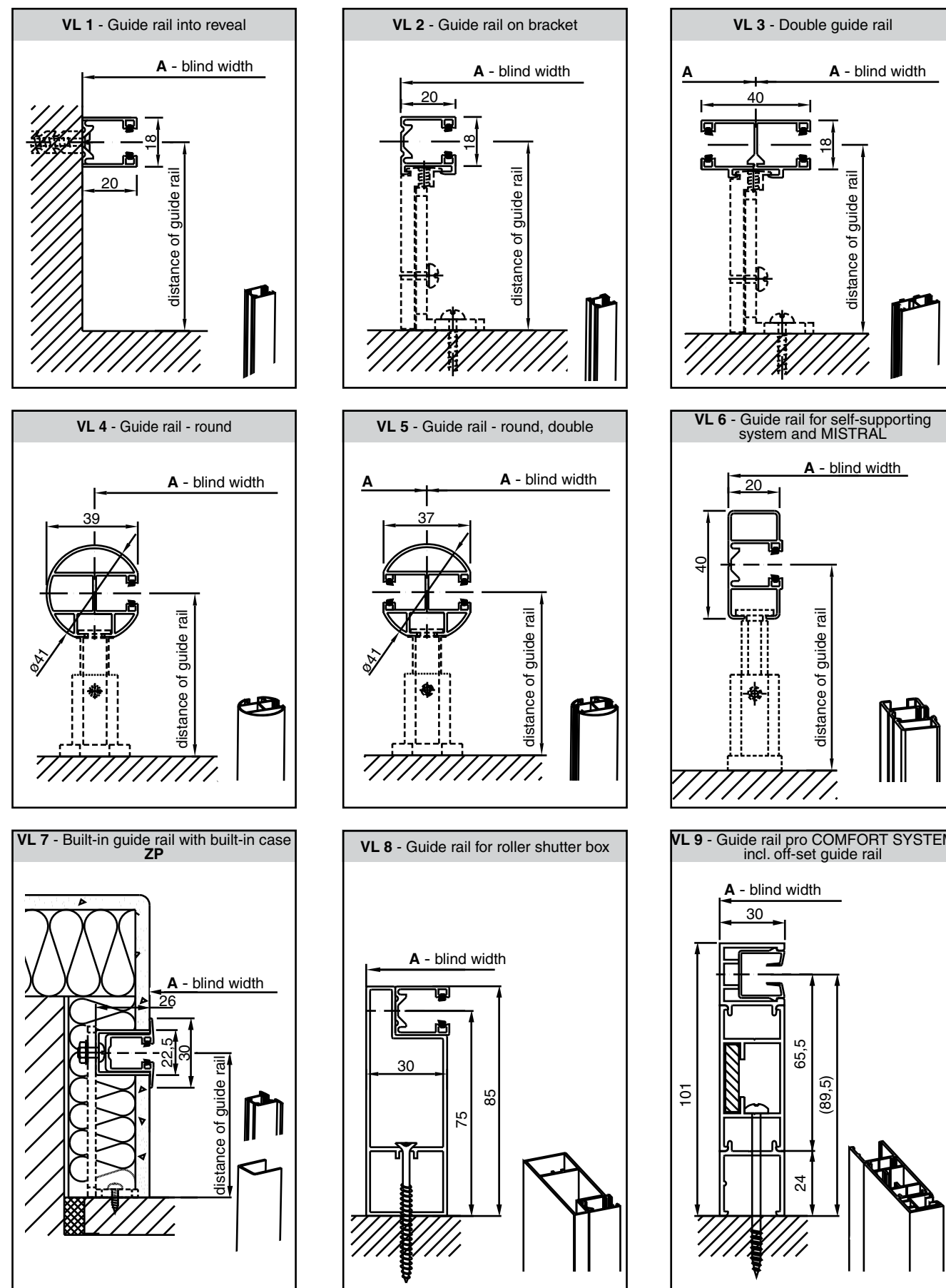


L - CORD LENGTH ± 5 % (cm)

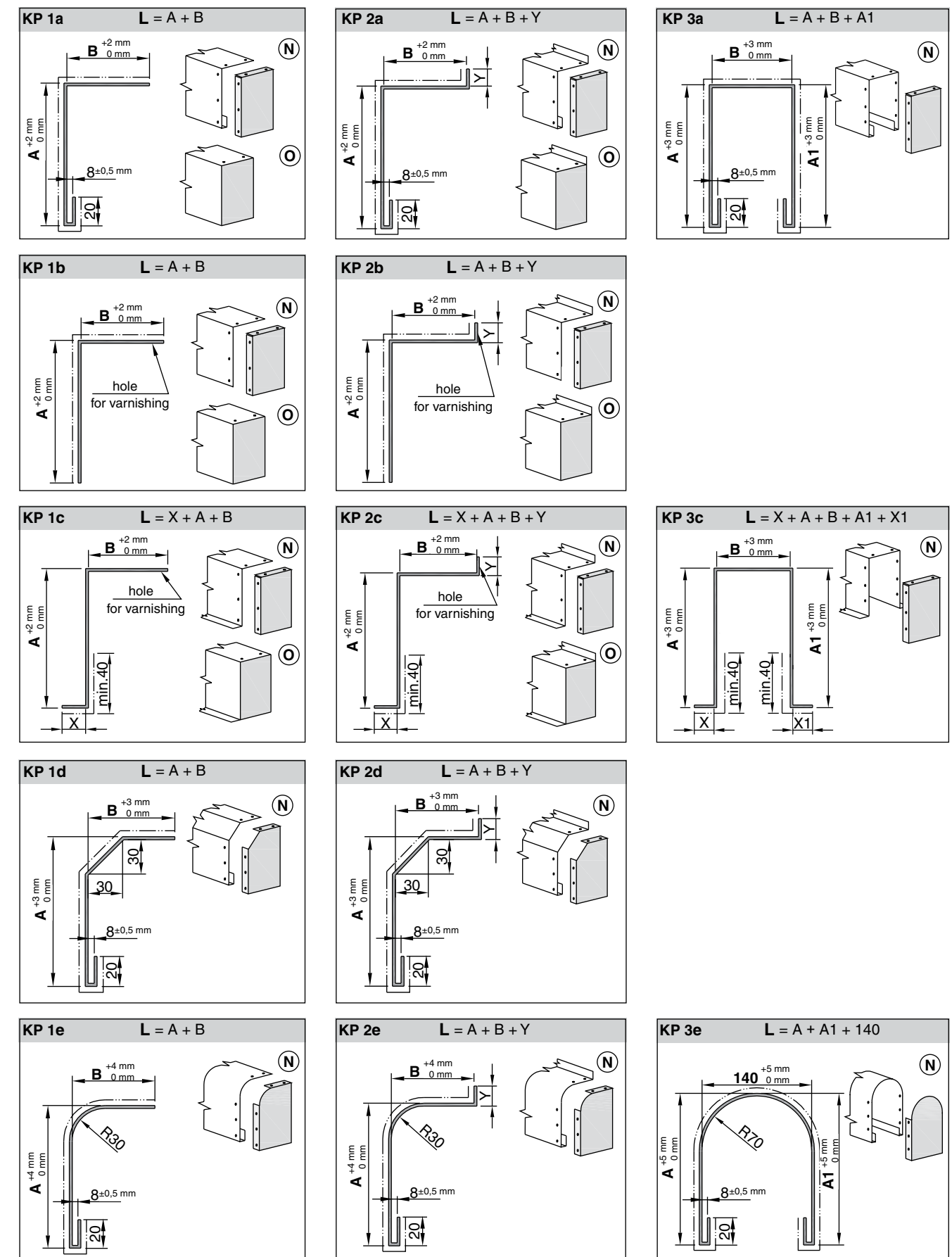
50, 75, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400 450, 500, 600, 700

9. Technical information

9.1 Guide rails and brackets

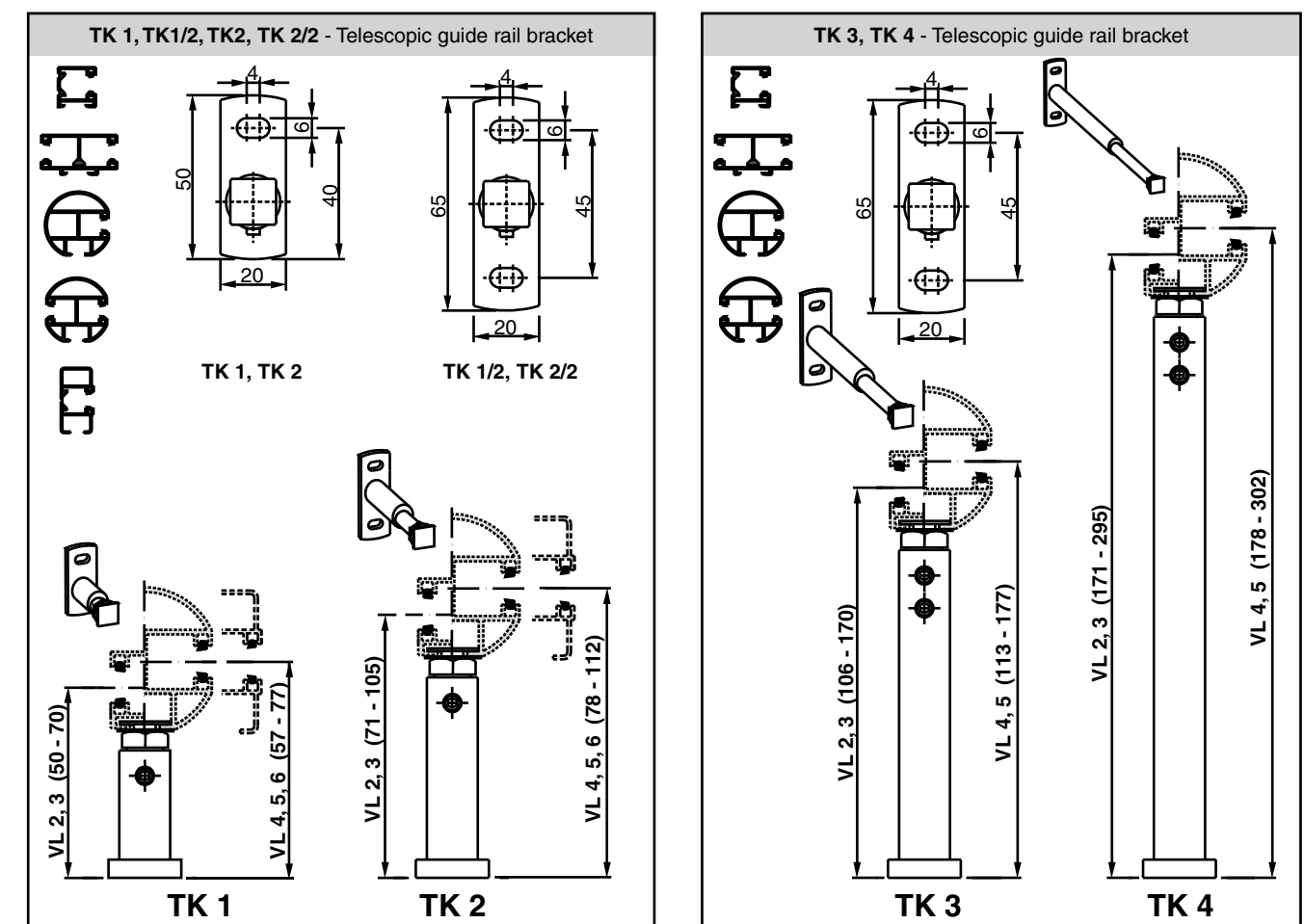
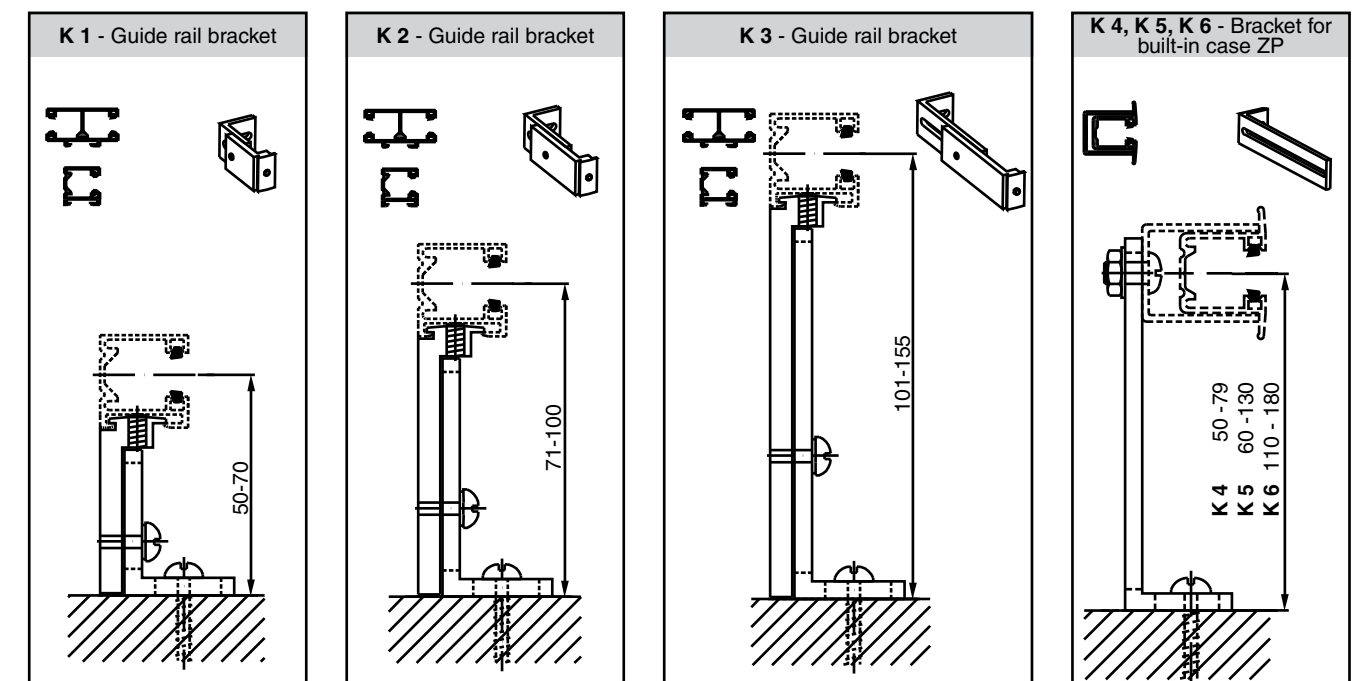
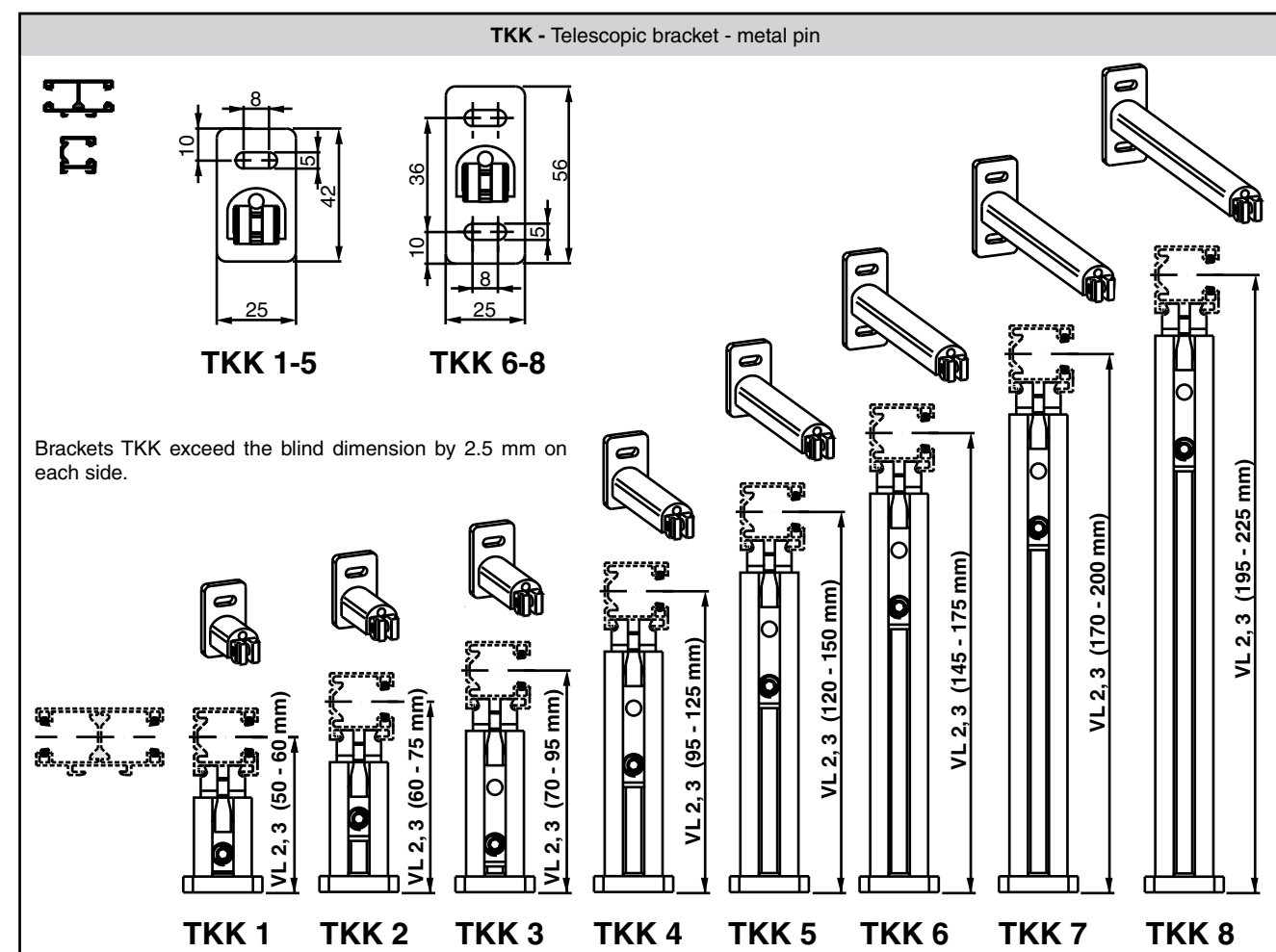
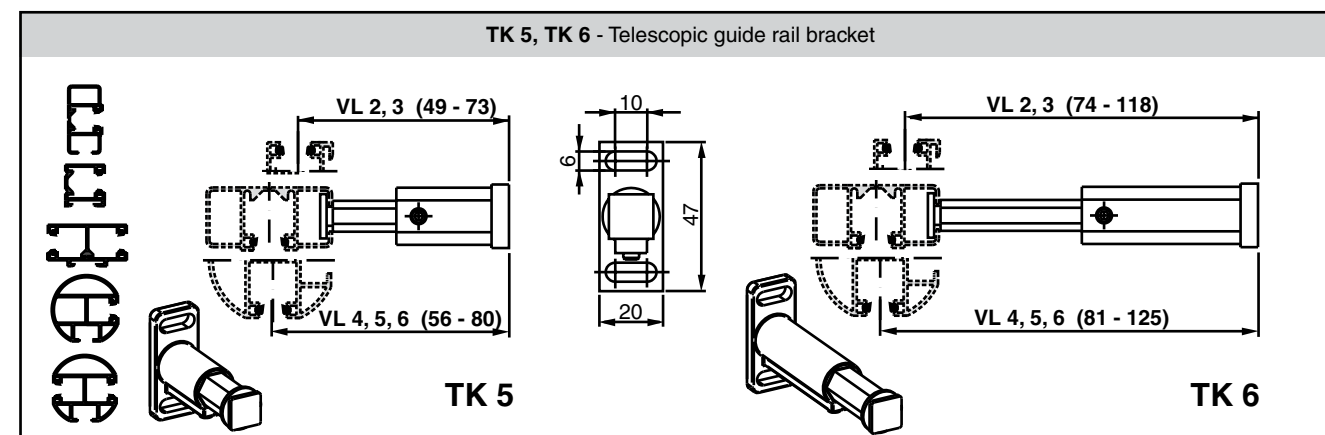


8.9 Cover plates

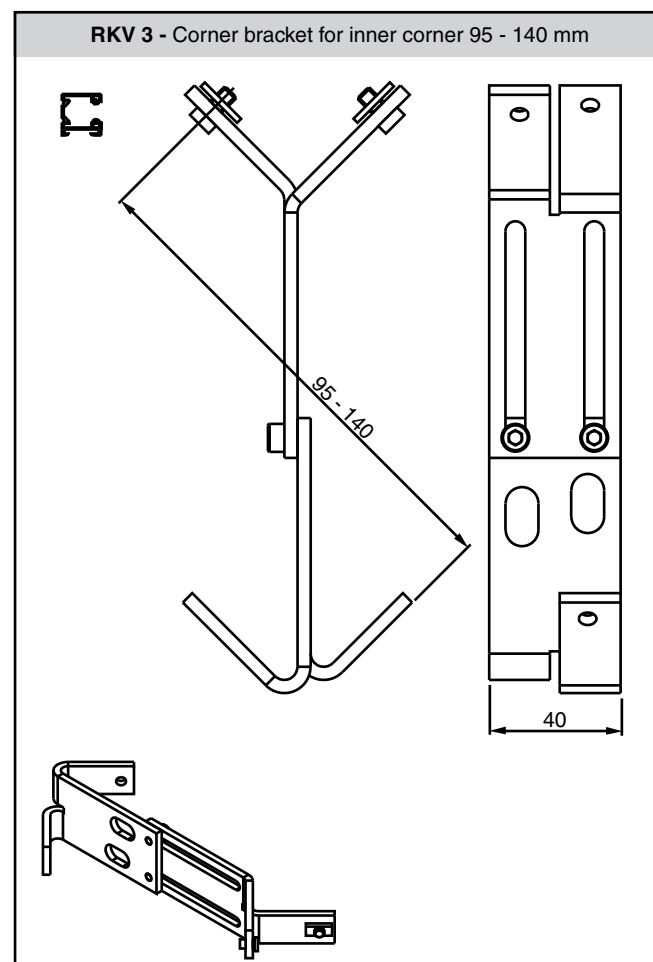
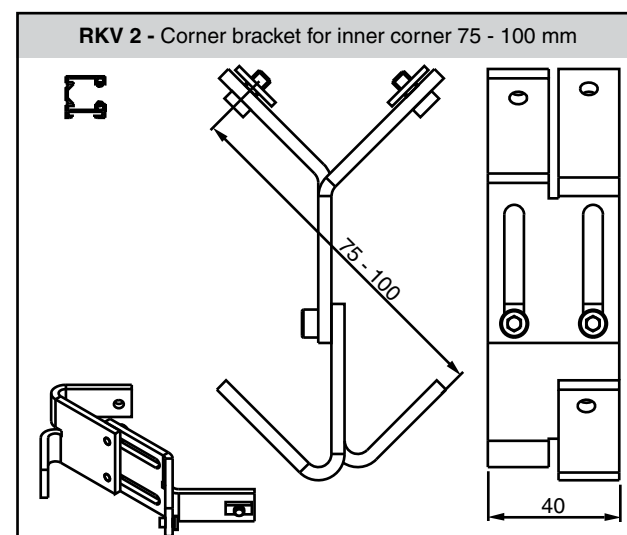
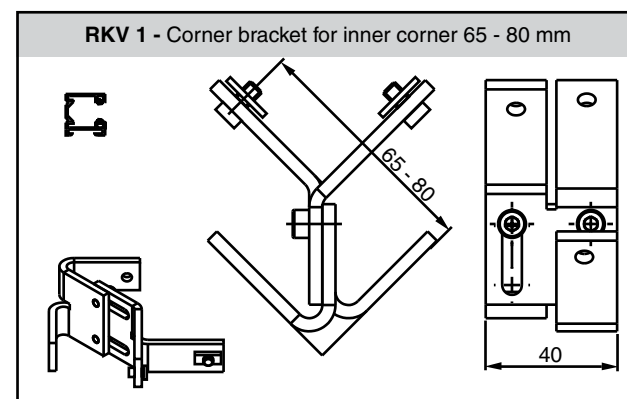


Legend: (N) - side part - riveted or enclosed (O) - side part - bent L - overall cover plate width --- - varnished areas

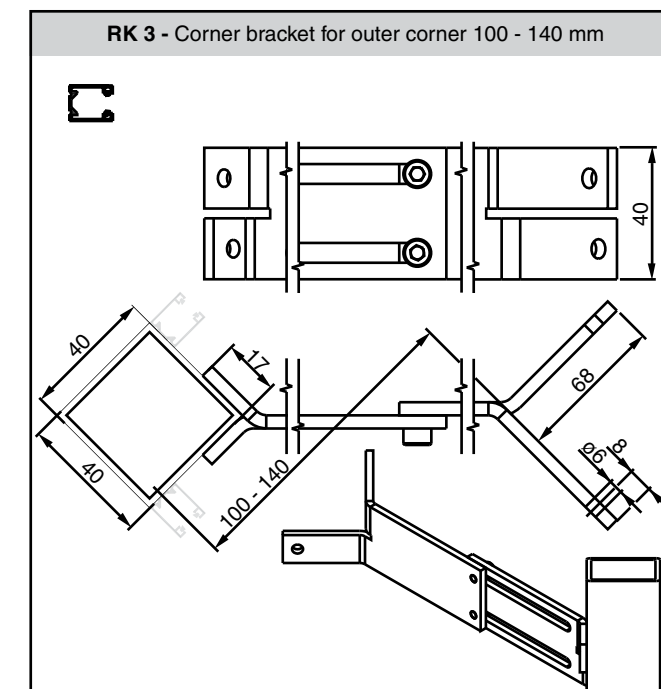
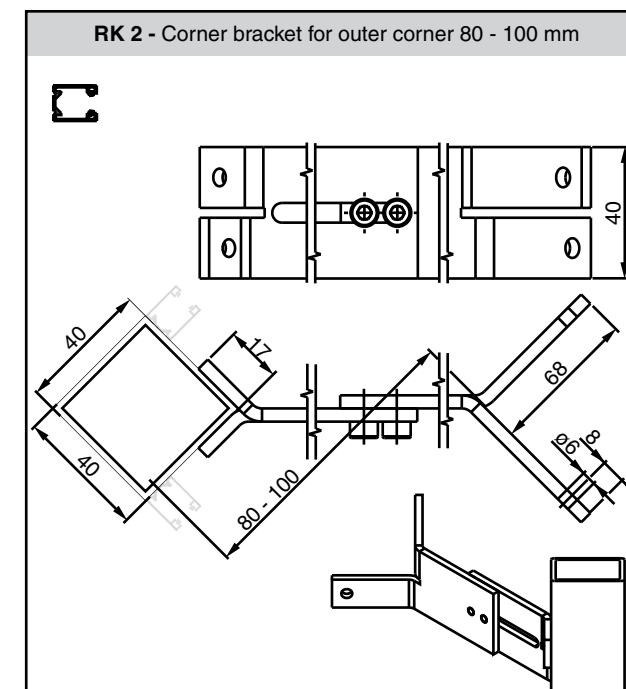
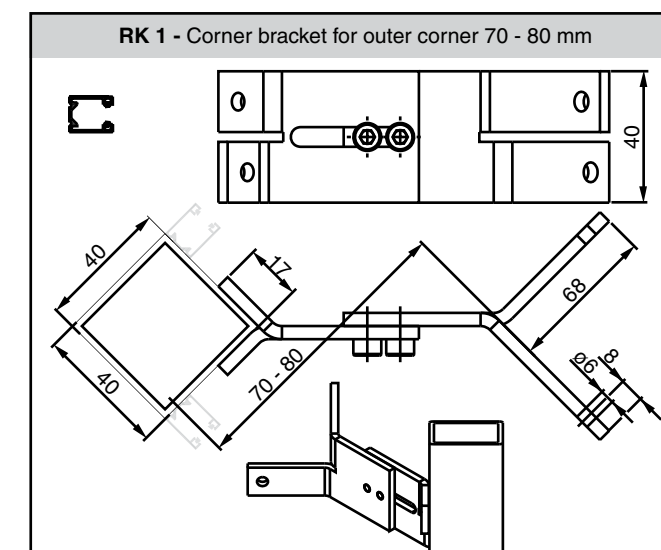
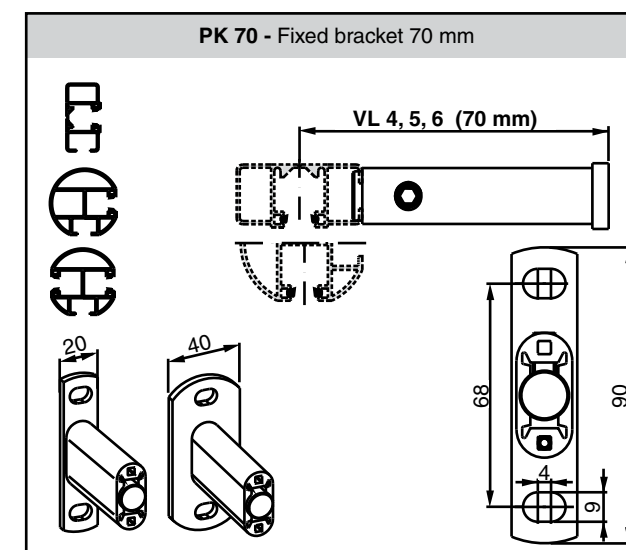
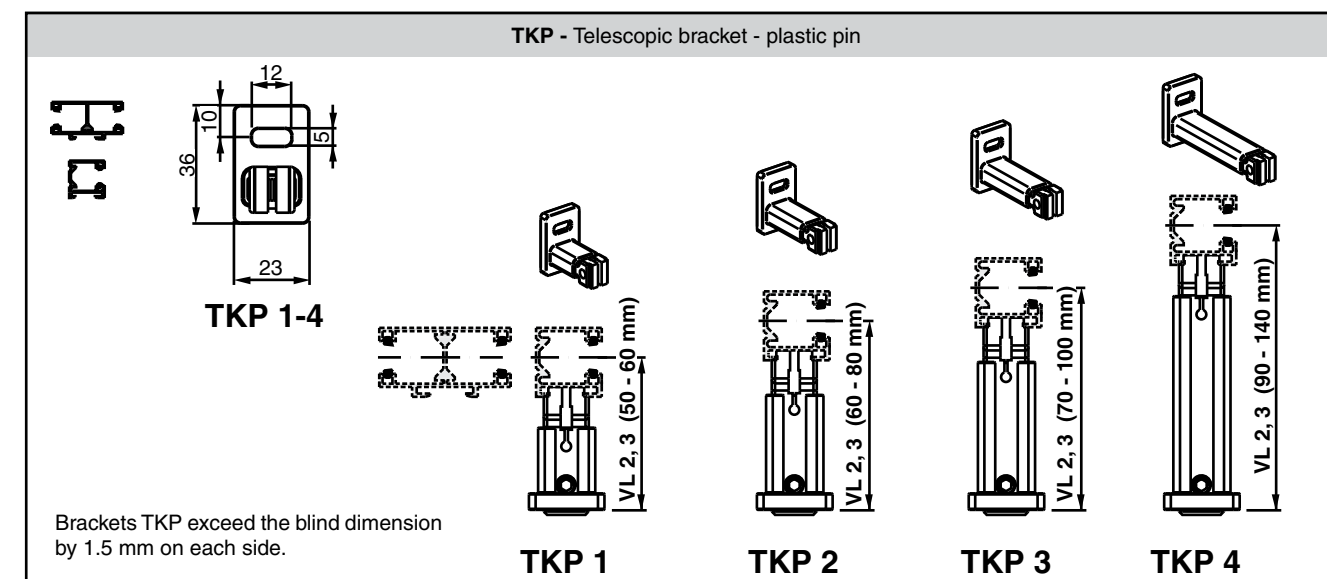
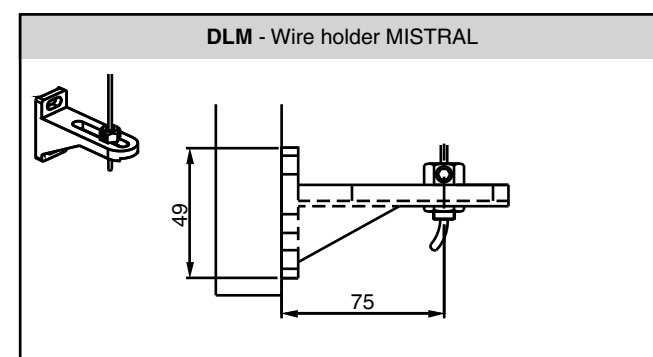
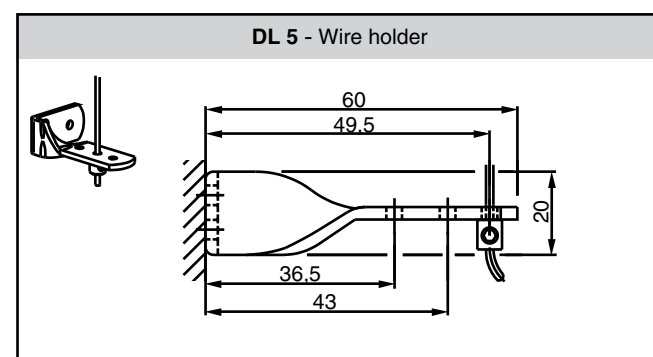
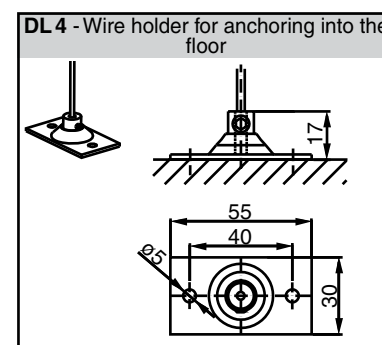
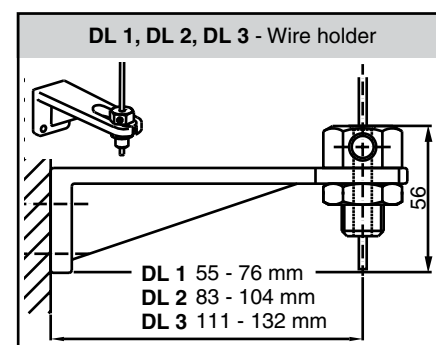
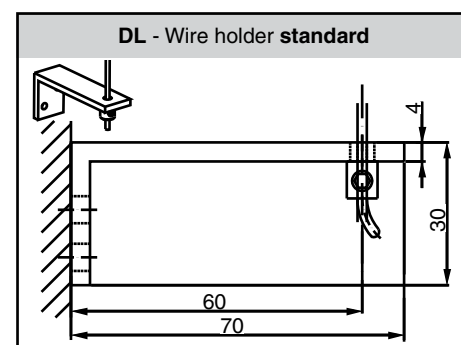
9.1 Guide rails and brackets



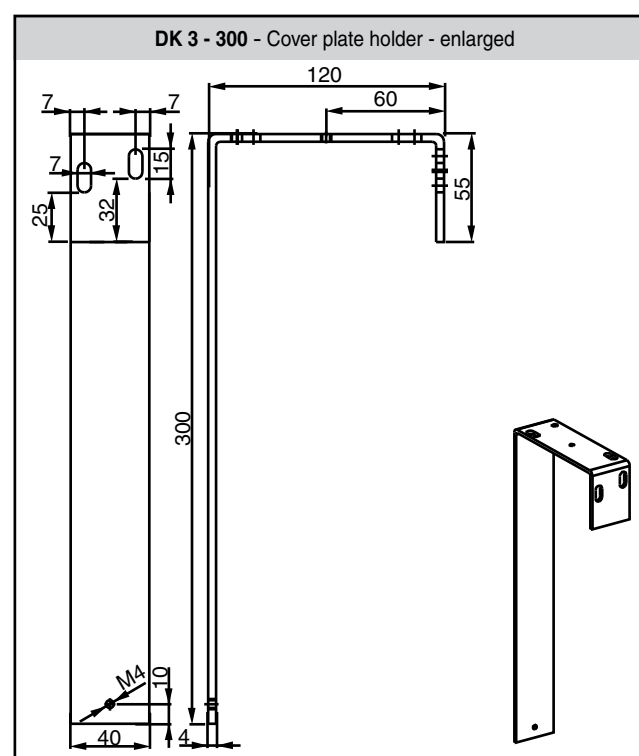
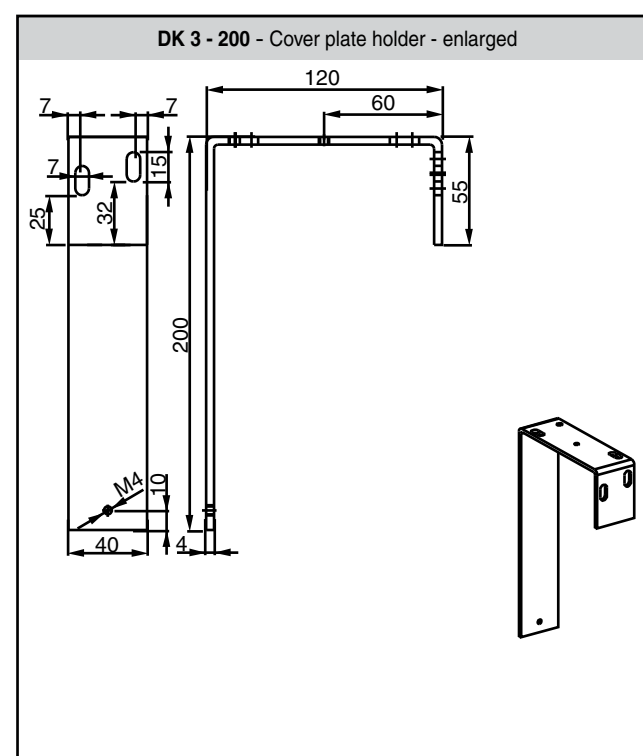
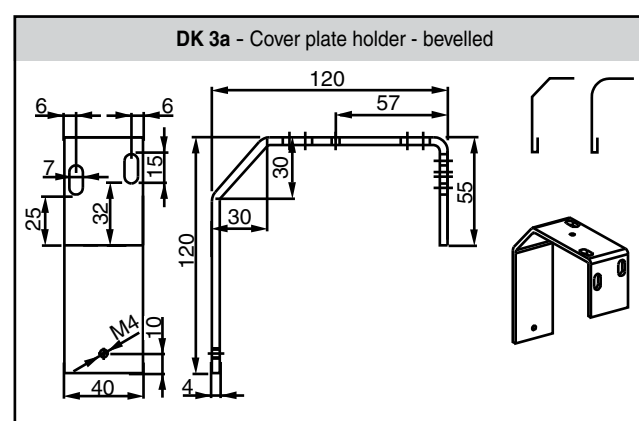
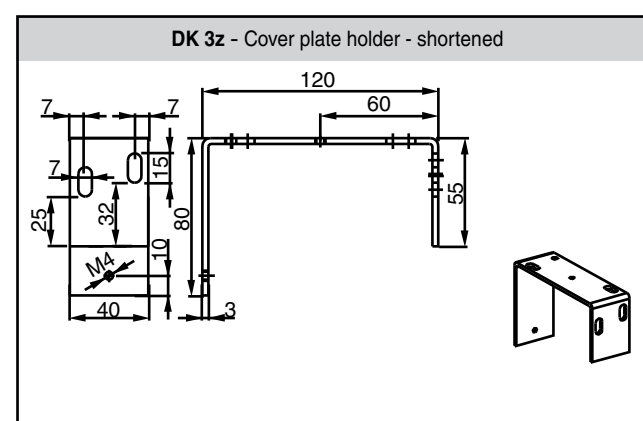
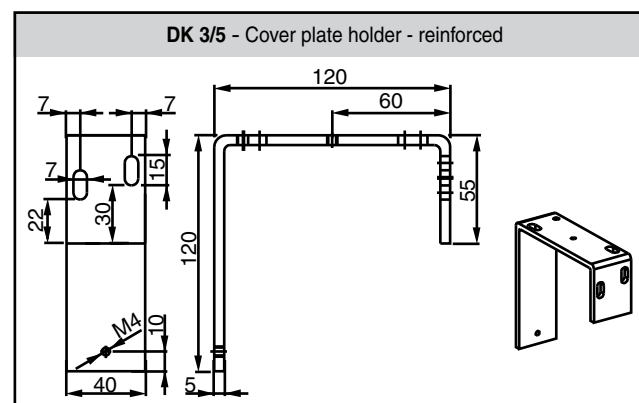
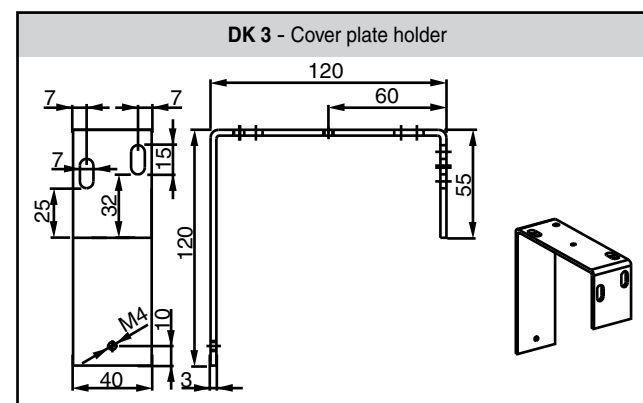
9.1 Guide rails and brackets



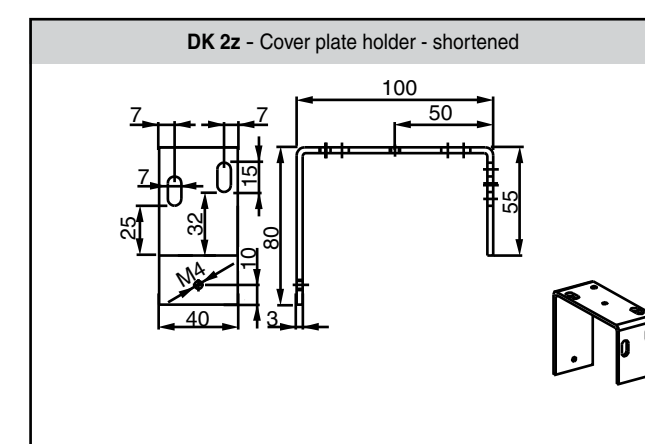
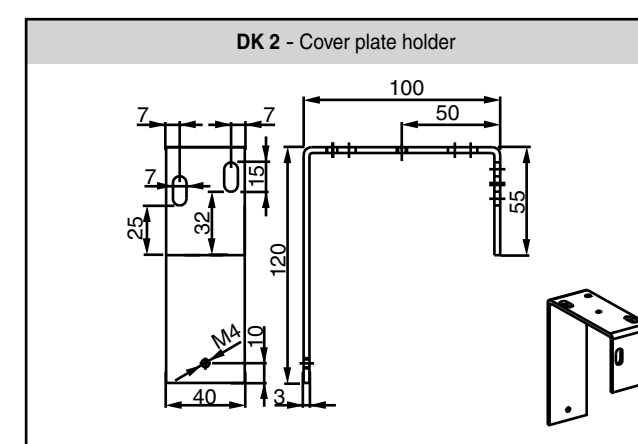
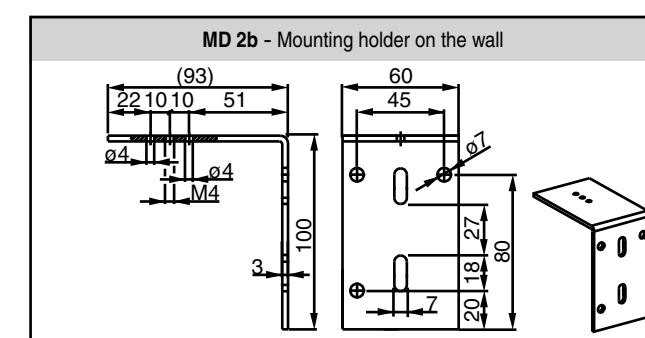
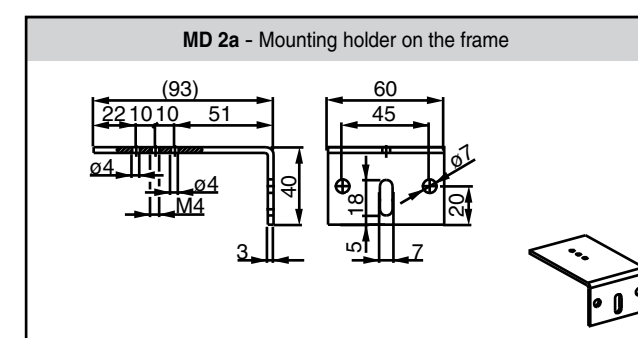
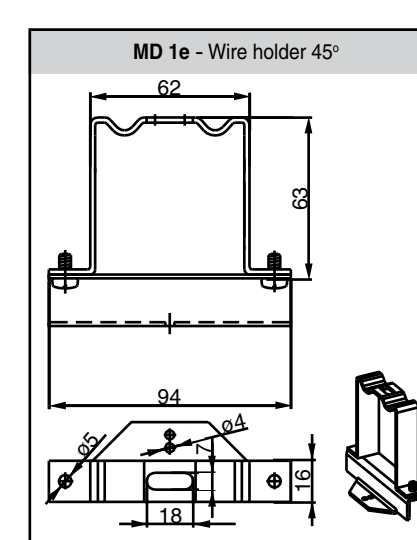
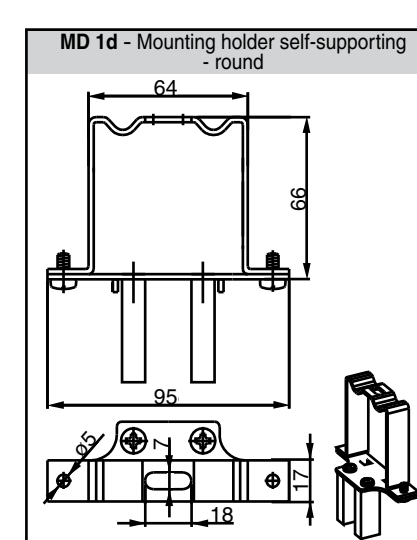
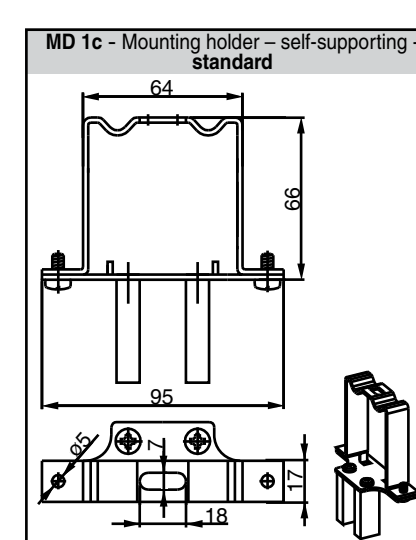
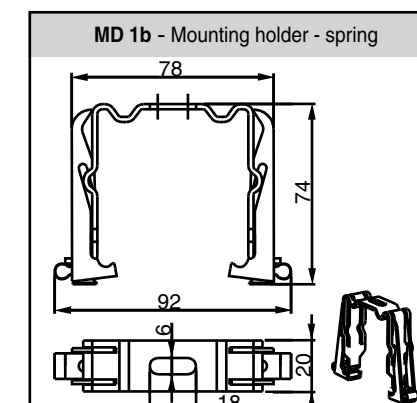
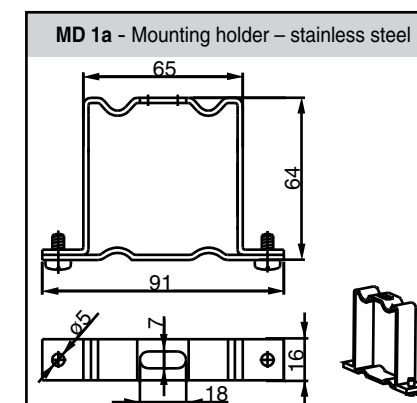
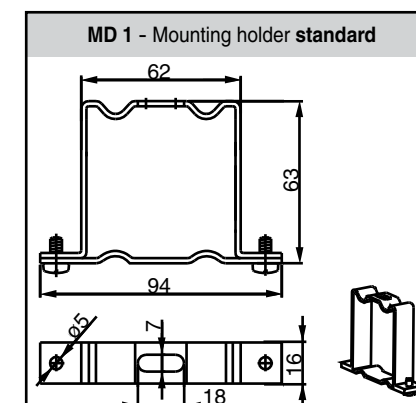
9.2 Wire holders



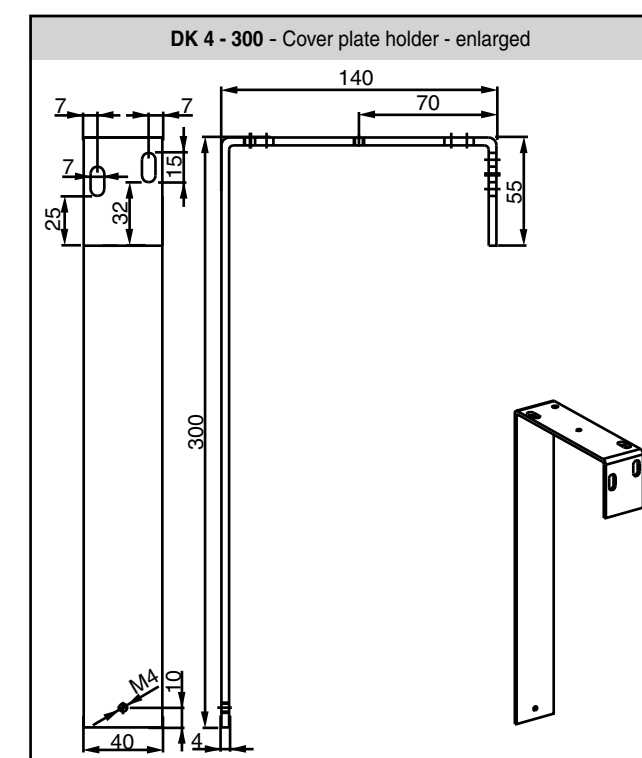
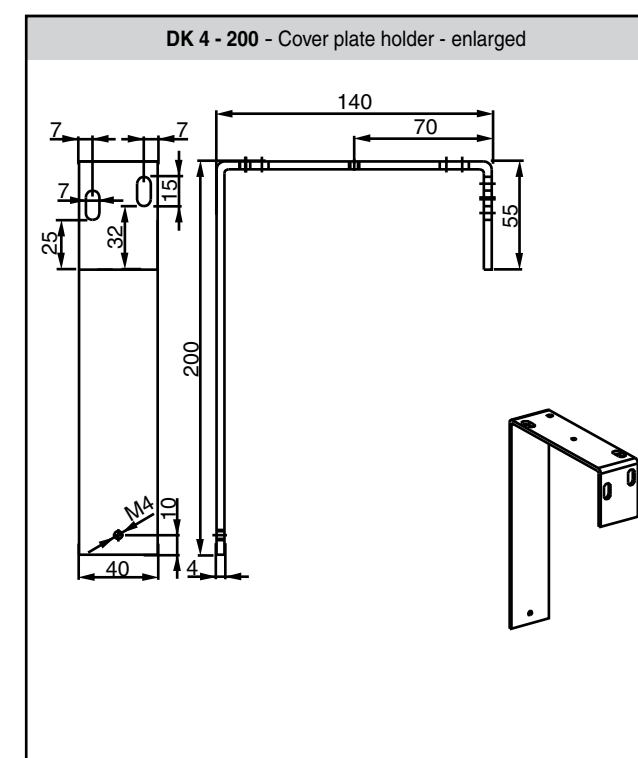
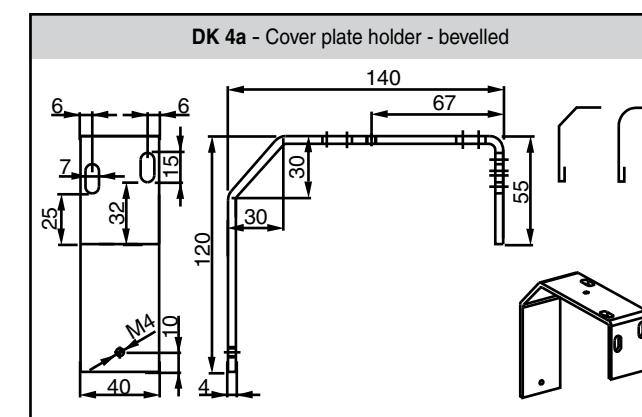
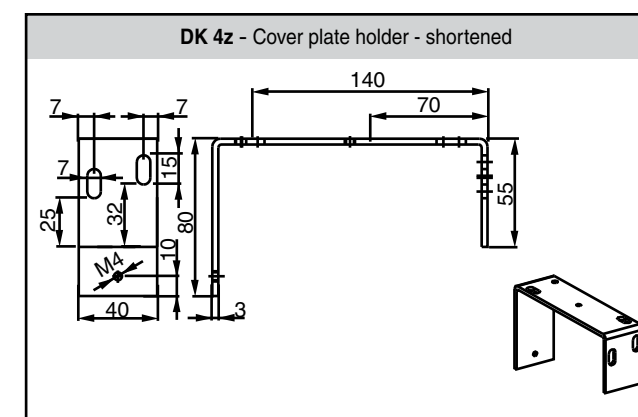
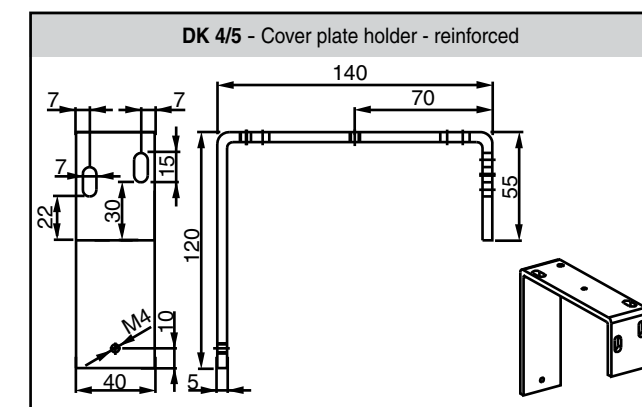
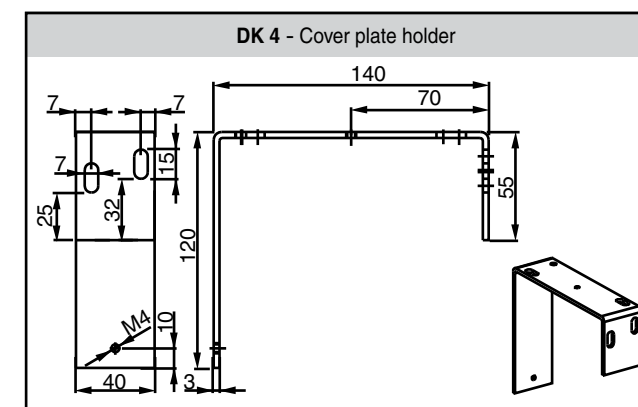
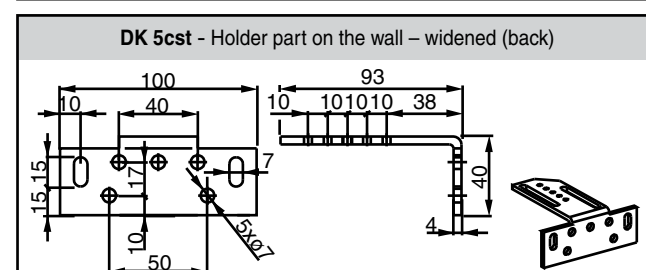
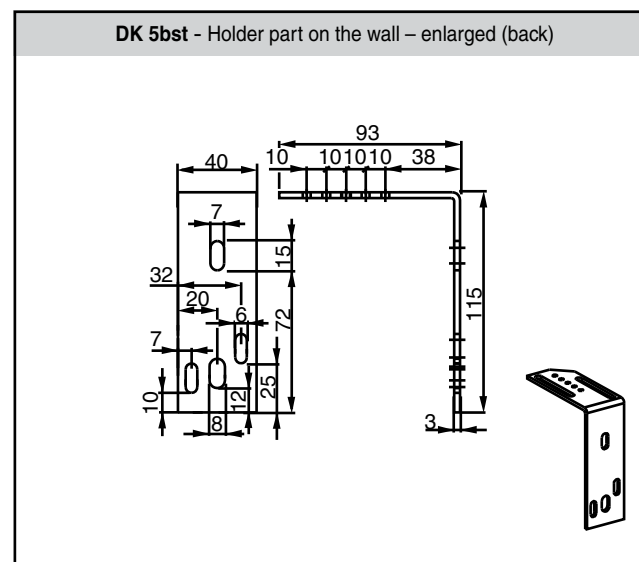
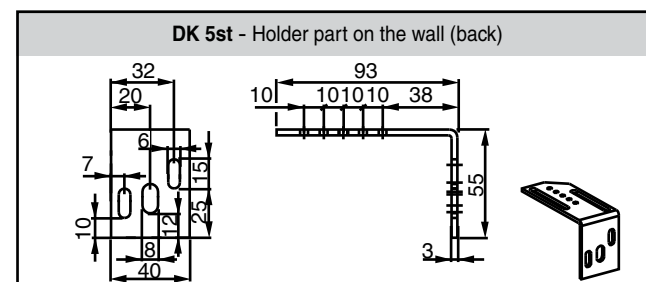
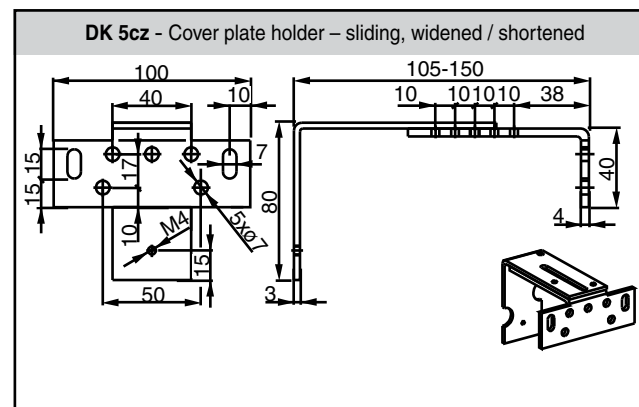
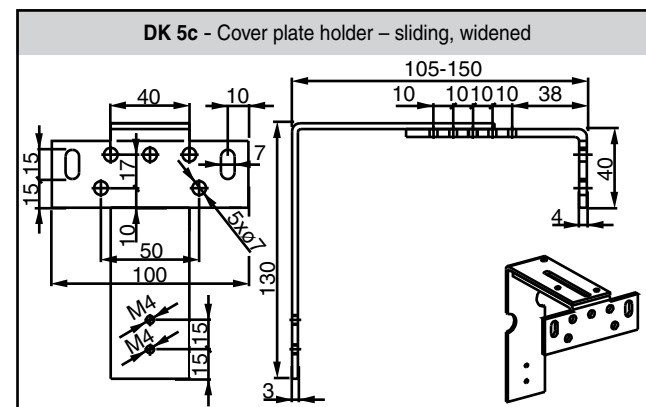
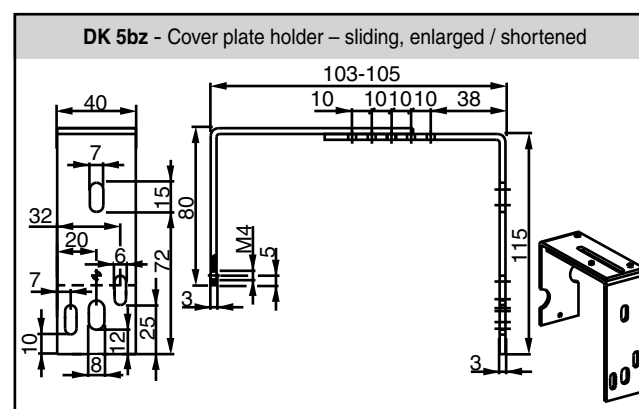
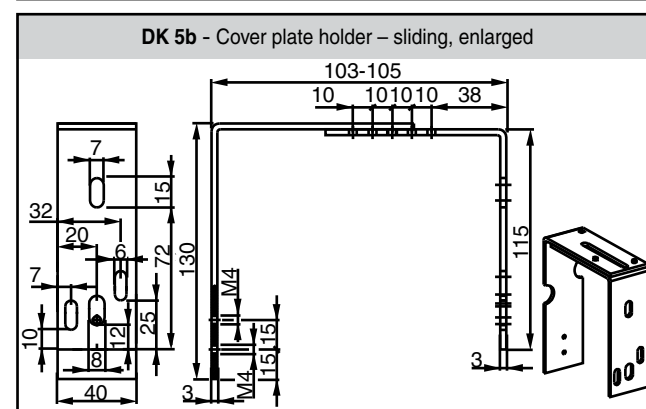
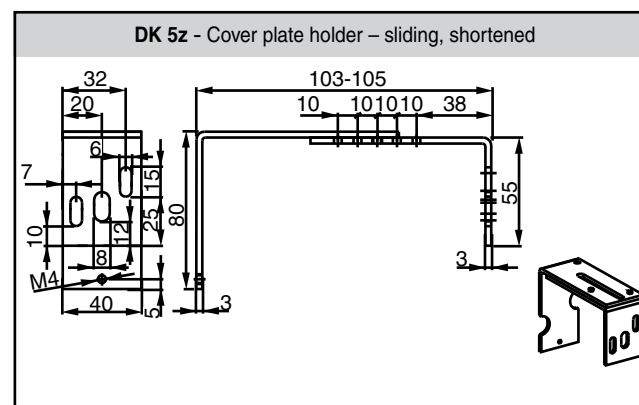
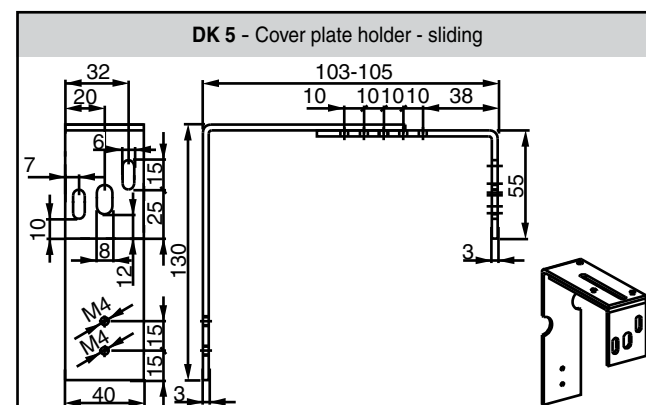
9.3 Mounting holders



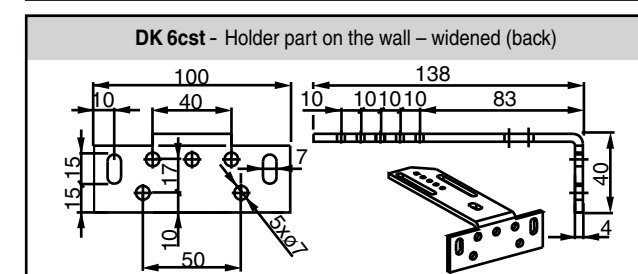
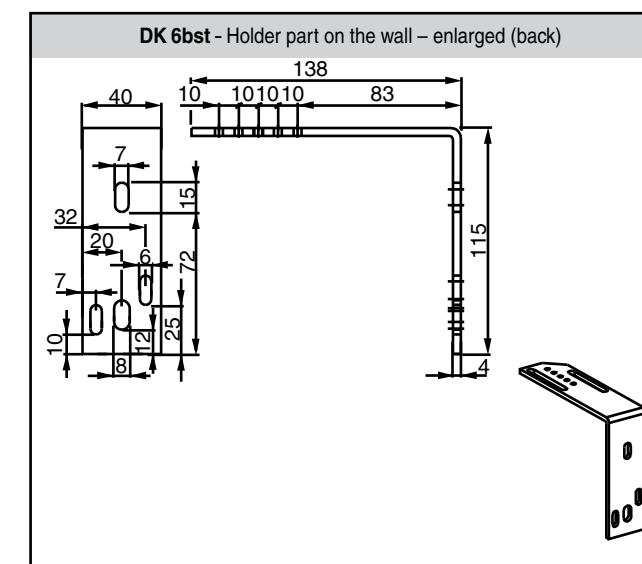
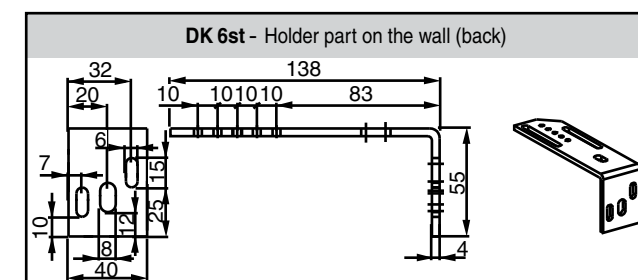
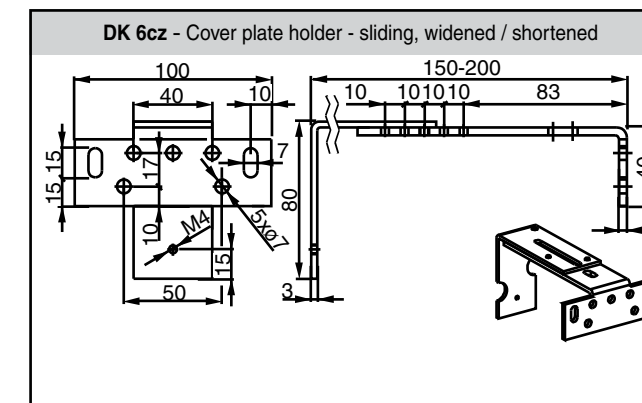
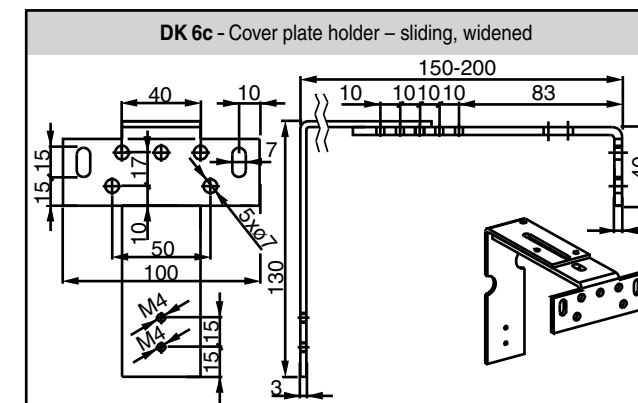
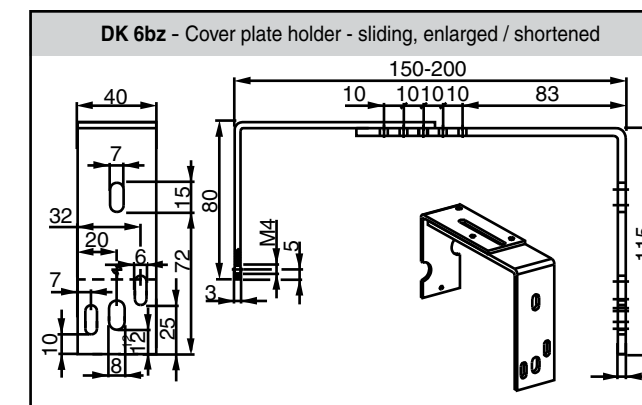
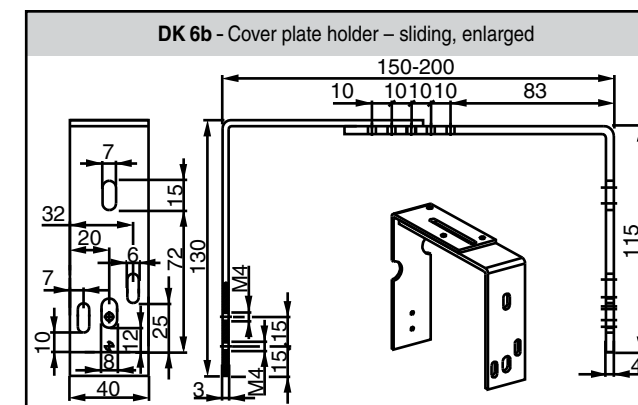
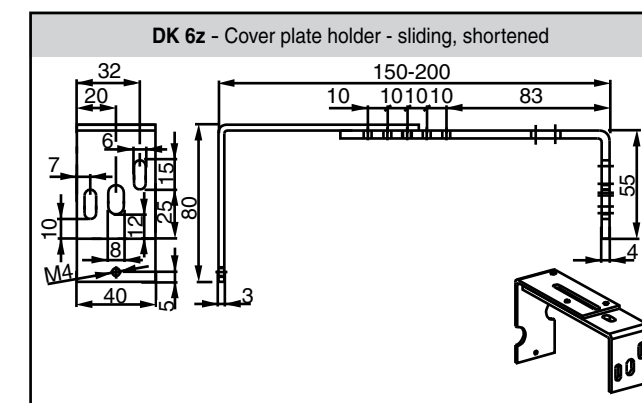
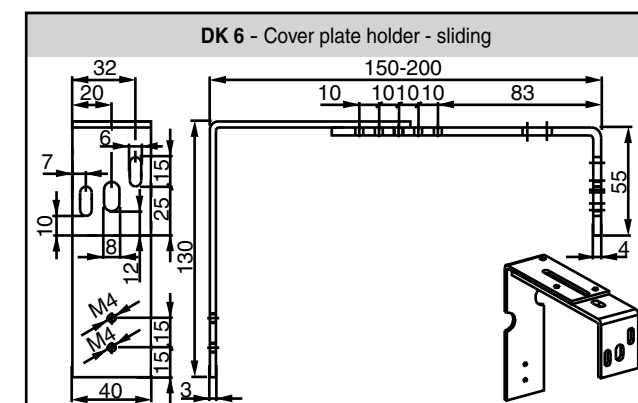
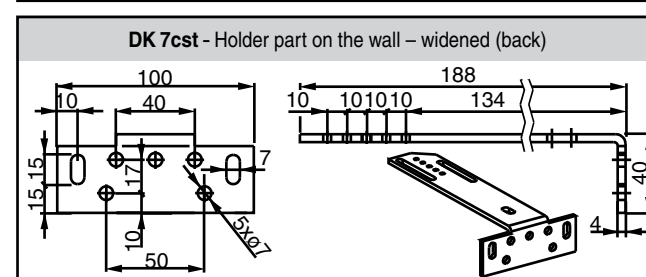
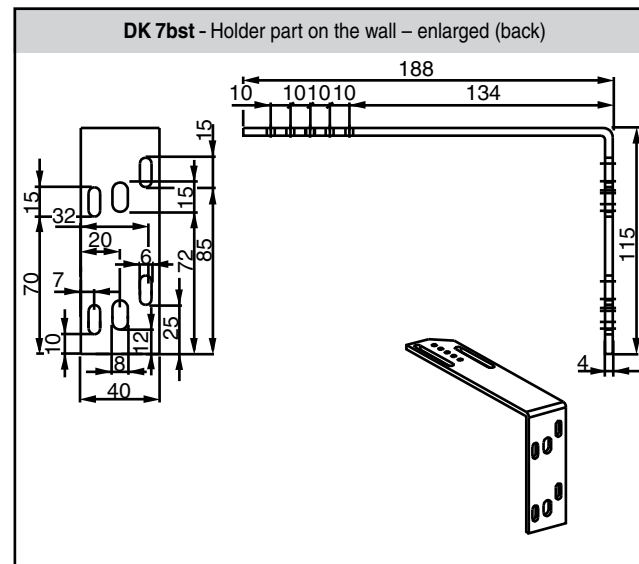
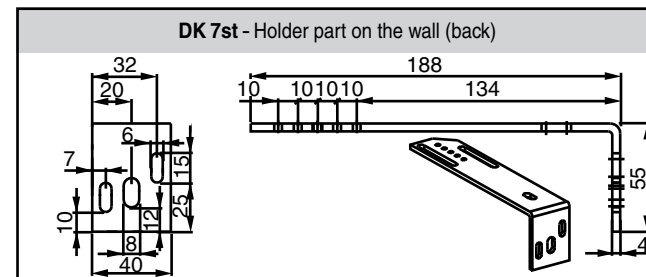
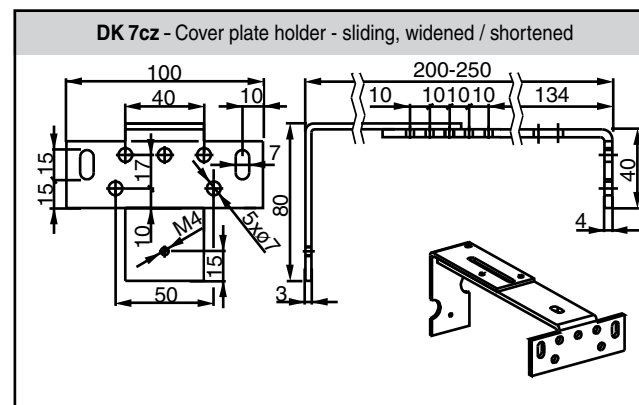
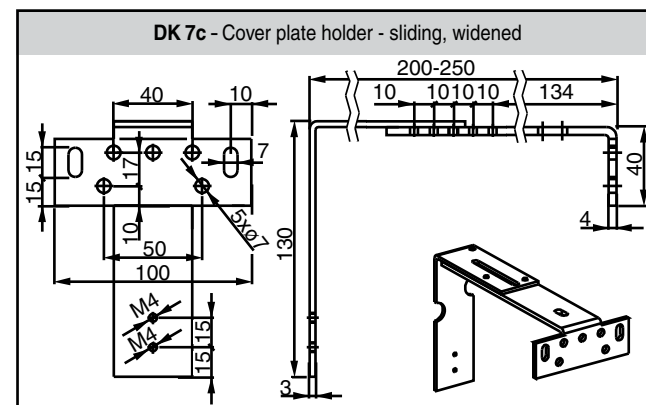
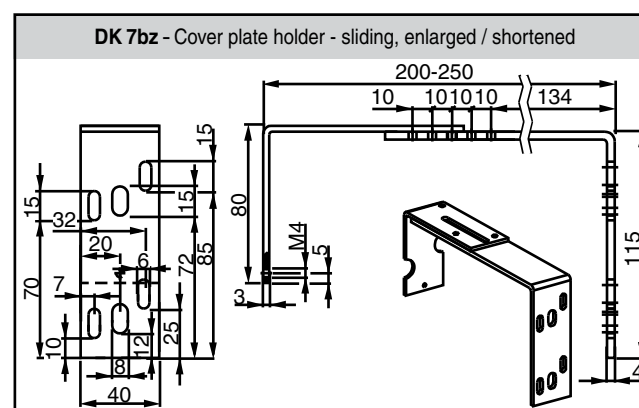
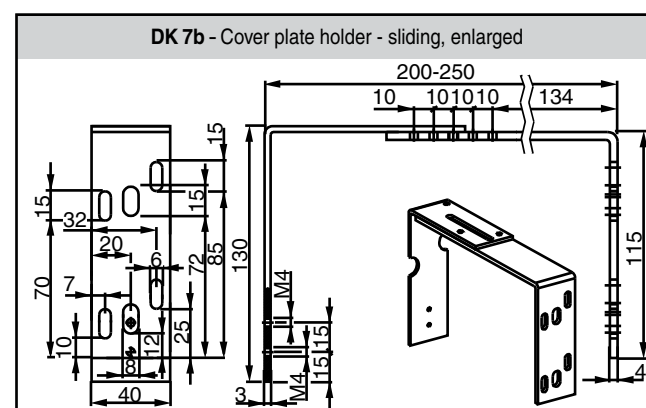
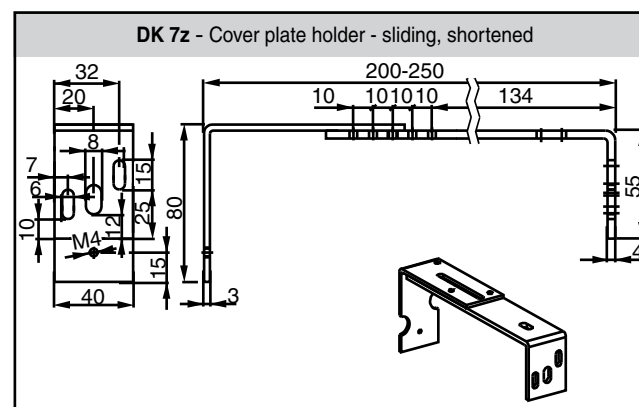
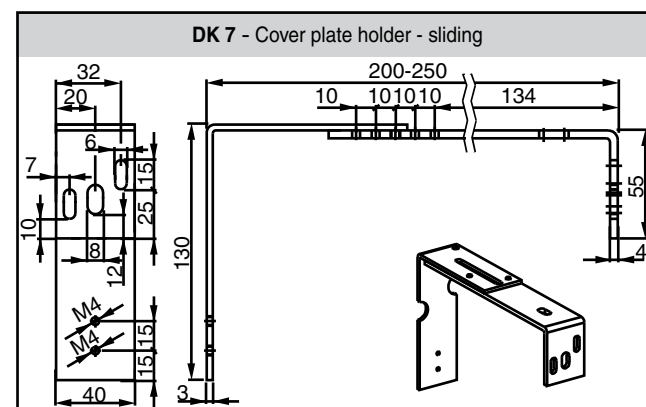
9.3 Mounting holders



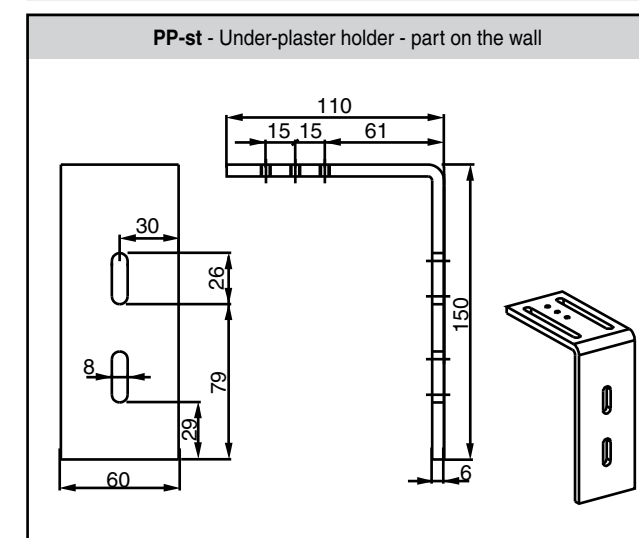
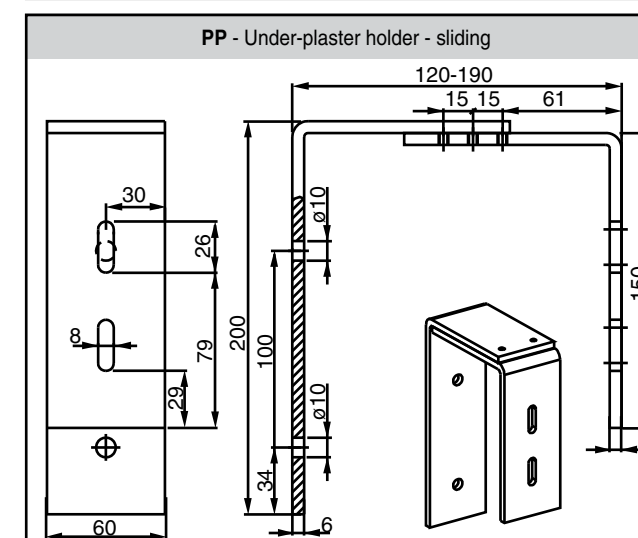
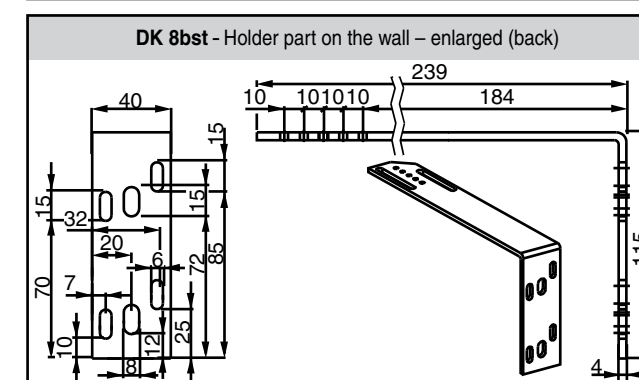
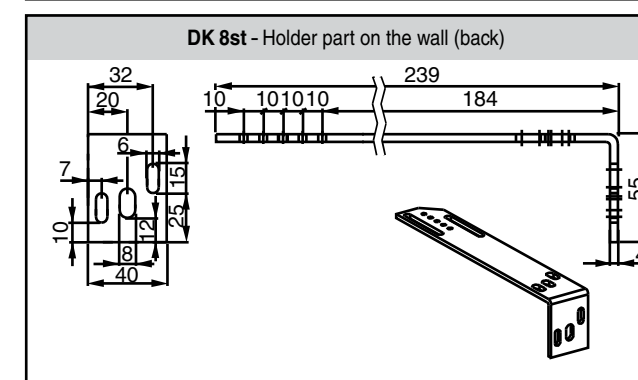
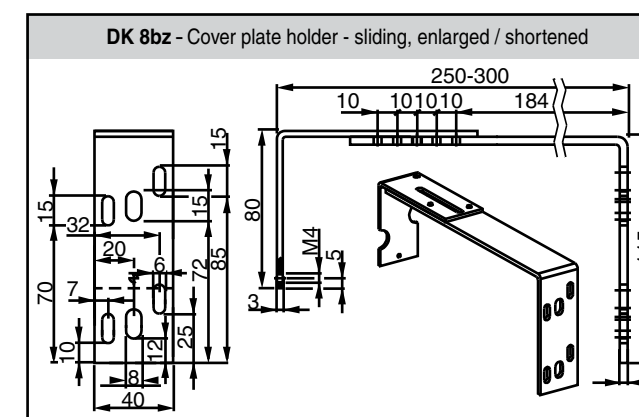
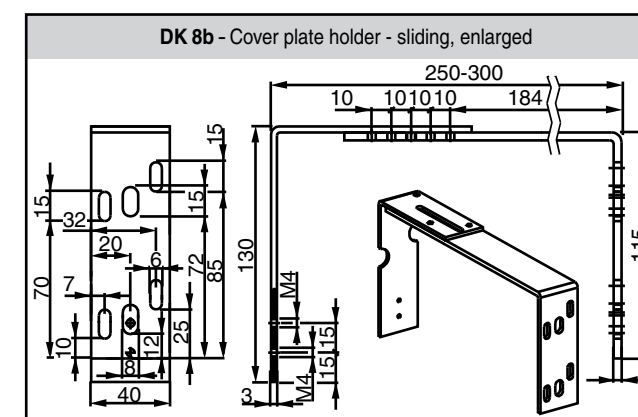
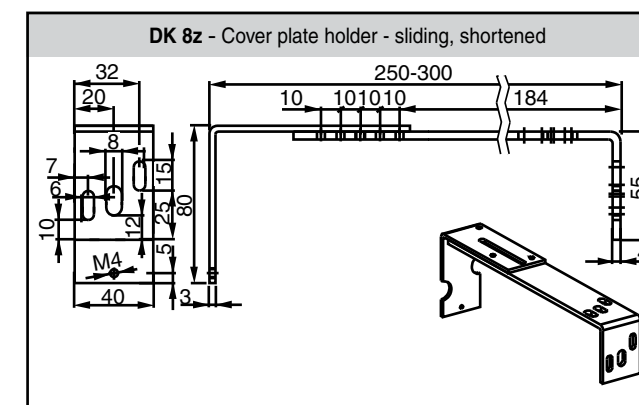
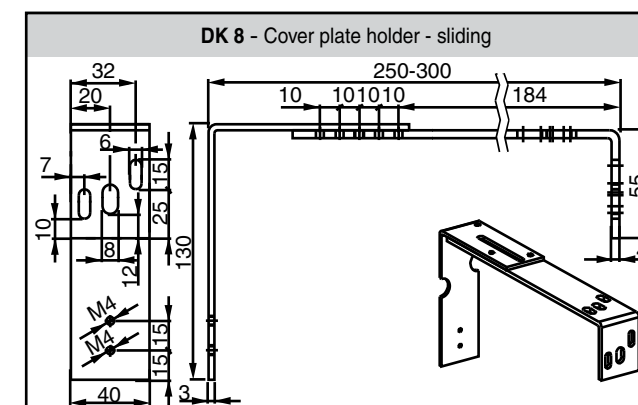
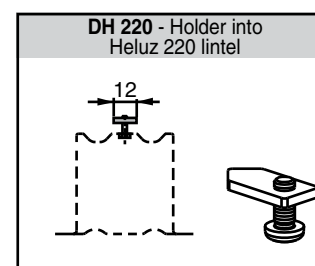
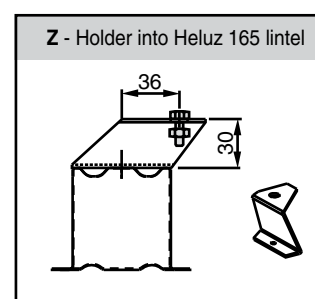
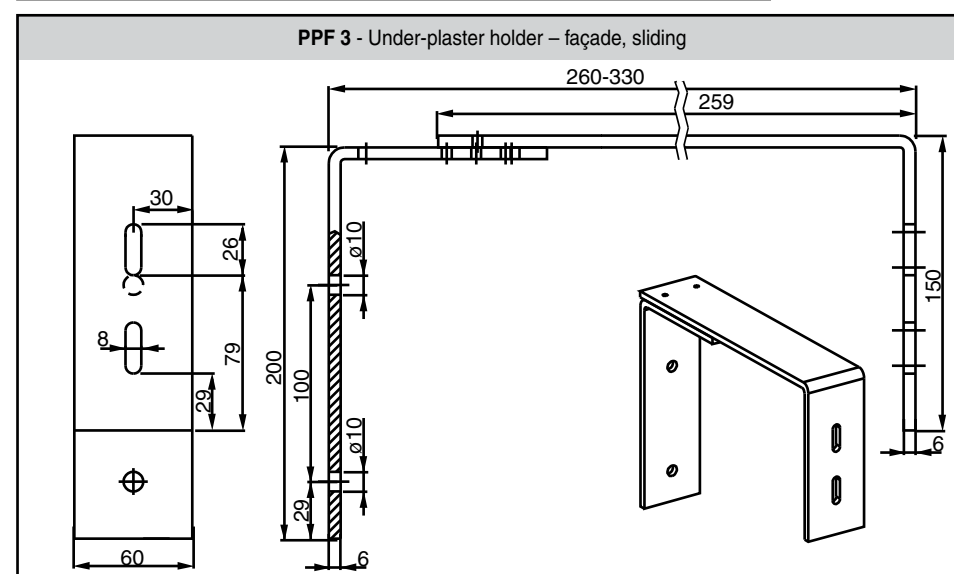
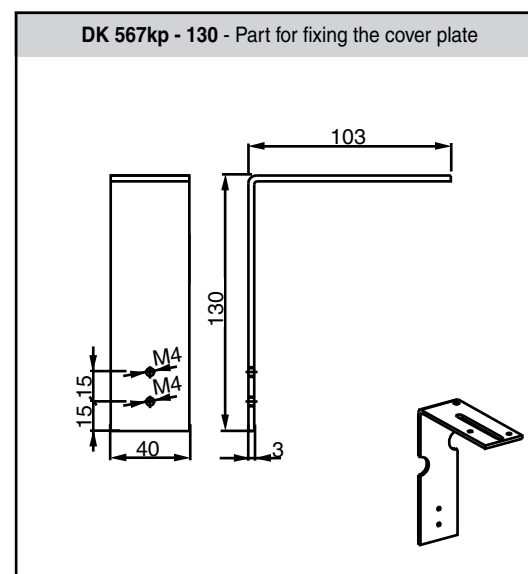
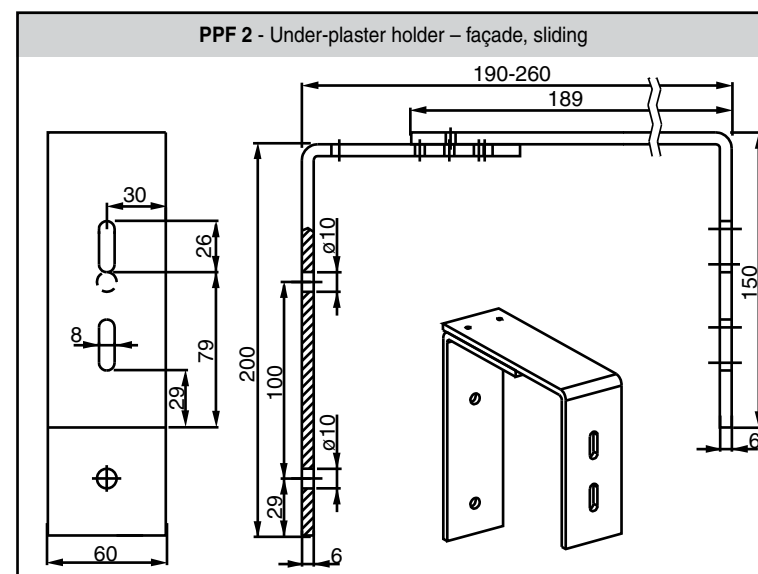
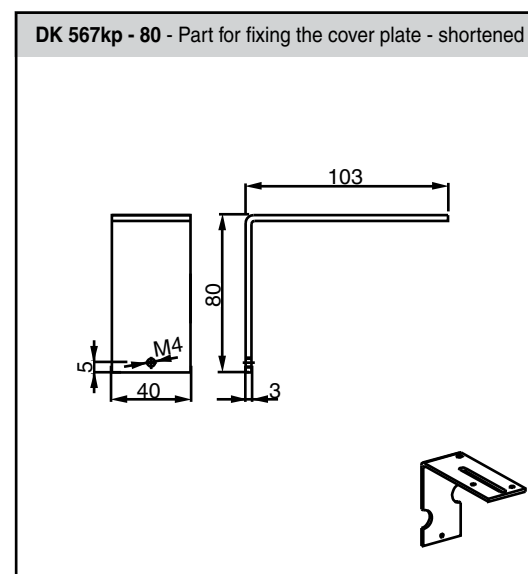
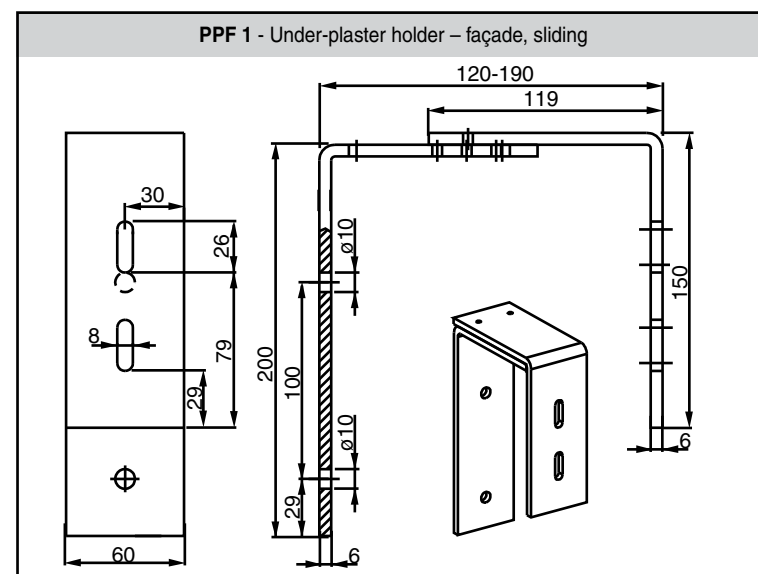
9.3 Mounting holders



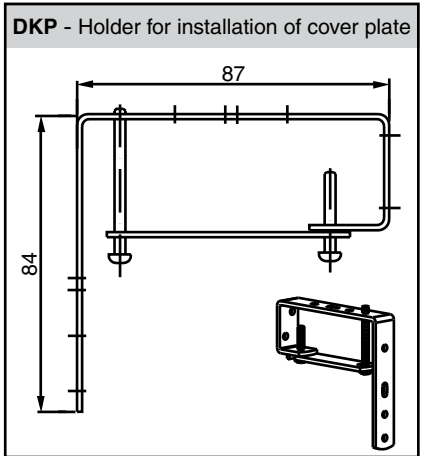
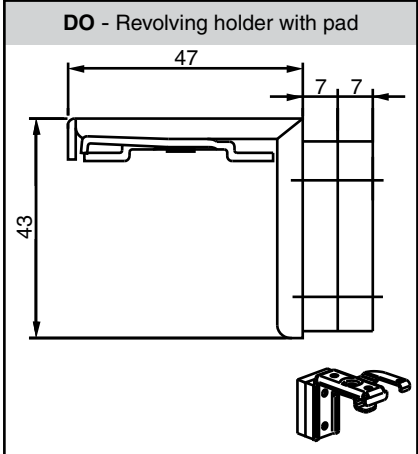
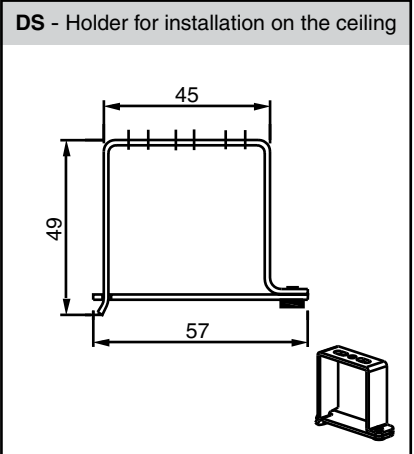
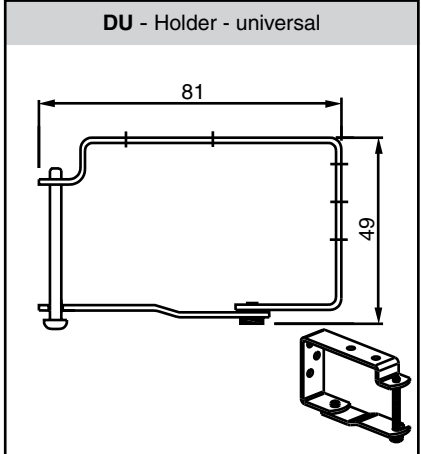
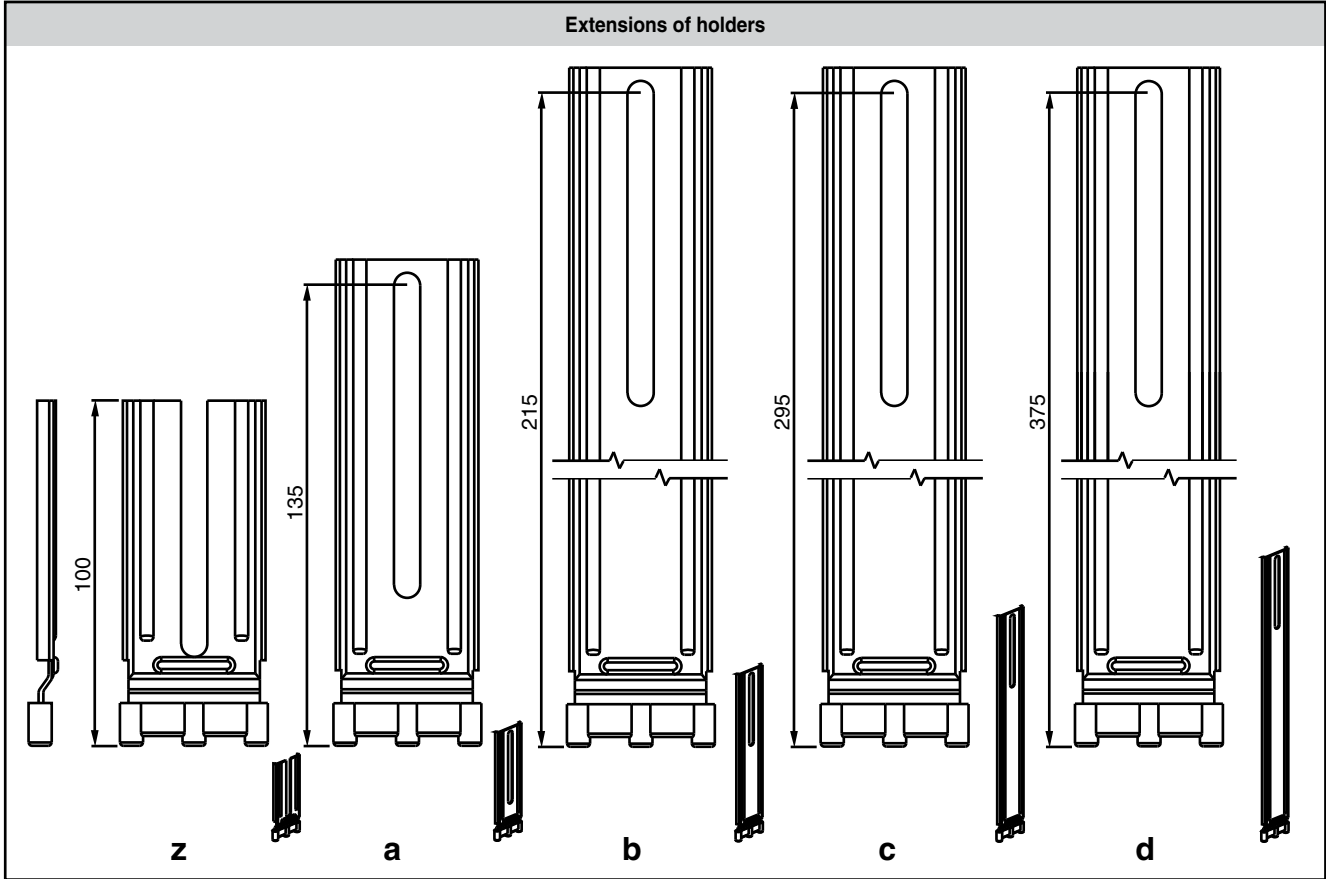
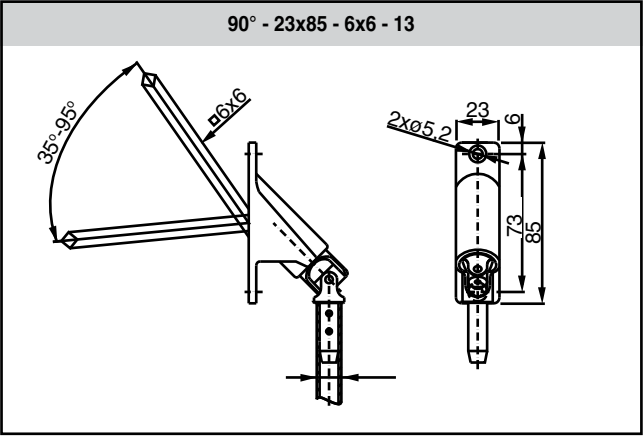
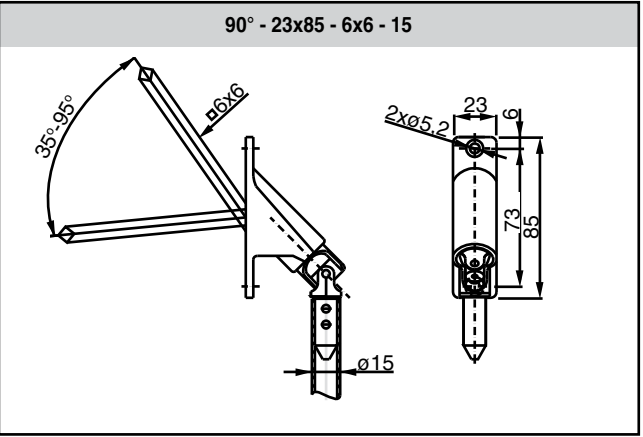
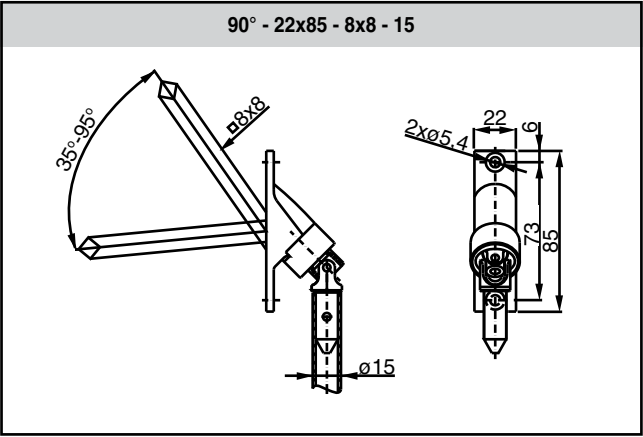
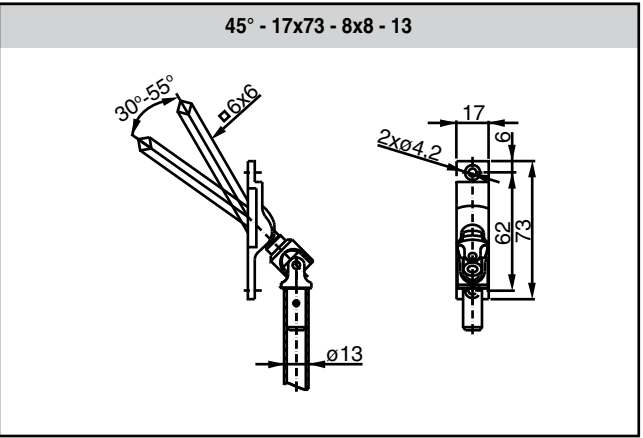
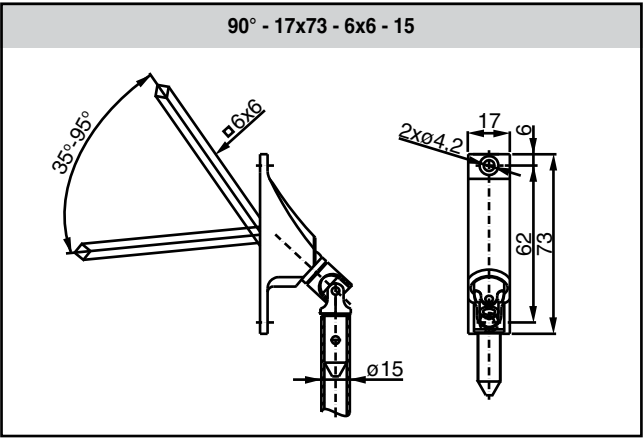
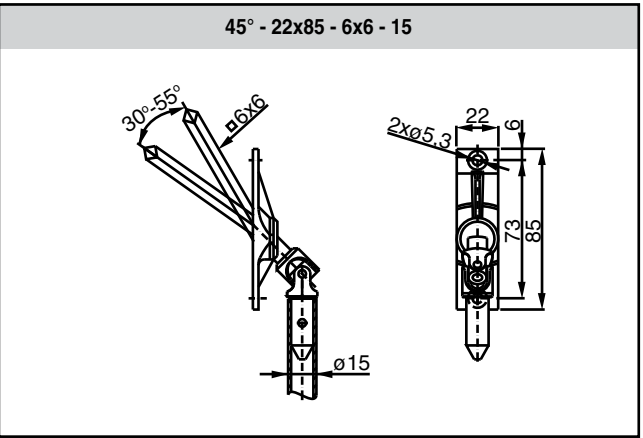
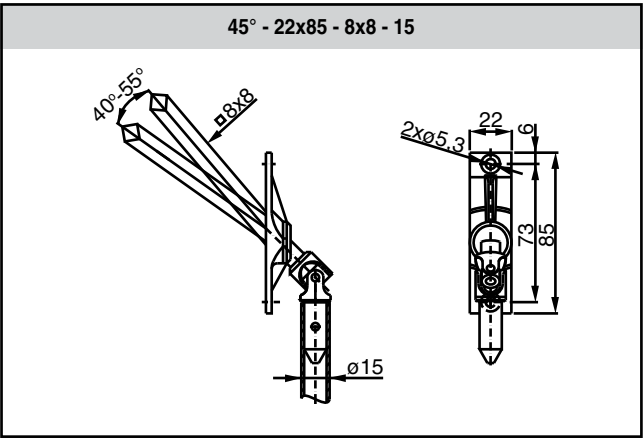
9.3 Mounting holders



9.3 Mounting holders

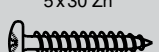
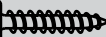
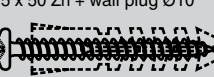


9.4 Bushings

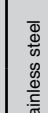
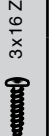
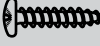
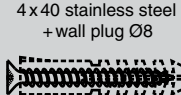
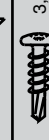


9.7 Fasteners

Fasteners for blinds C, Z, F

	Mounting holders				Guide rails and brackets										Wire holders	Bushings		Crank	
	MD 1	MD 2	DK 2-8	PP, PPF 1-3	VL 1	VL 7	ZP	K 1-6	TK 1-6	TKP 1-4	TKK 1-8	PK 70	RK 1-3	RKV 1-3	DL, DL 1-4	POK 45°	POK 90°	Holder	
wood plastic	5 x 30 Zn 				4 x 30 stainless steel 	3,9 x 22 stainless steel	3,9 x 16 stainless steel 	5 x 25 stainless steel 											
aluminium					4,8 x 19 stainless steel 														
concrete masonry	5 x 50 Zn + wall plug Ø10 				4 x 40 stainless steel + wall plug Ø8 		5 x 40 stainless steel + wall plug Ø10 												

Fasteners for blind EXT-50

	Mounting holders	Cover plate holder	Guide rails and brackets									Bushings	Wire holders		Cord fixation	Pulley	Crank holder	
	DU, DS, DZ	DKP	VL 1	VL 7	ZP	K 1-6	TK 1-6	TKP 1-4	TKK 1-8	RK 1-3	RKV 1-3		DL 5	DL, 1, 2, 3, 4				
wood plastic	4 x 25 Zn		 4 x 30 stainless steel	 3,9 x 22 stainless steel	 3,9 x 16 stainless steel	5 x 25 stainless steel 						4 x 25 stainless steel		5 x 25 stainless steel		 3 x 16 Zn	 3 x 30 Zn	 3,9 x 22 Zn
aluminium						4,8 x 19 stainless steel 												
concrete masonry	4 x 40 stainless steel + wall plug Ø8 		4 x 40 stainless steel + wall plug Ø8 	 3,9 x 22 stainless steel	 3,9 x 16 stainless steel	5 x 40 stainless steel + wall plug Ø10 						4 x 40 stainless steel + wall plug Ø8 				 3 x 16 Zn	 3 x 30 Zn	 3,9 x 22 Zn

9.5 Colour tuning of components C, Z, F

SLAT NO.	TAPE COLOUR	LADDER COLOUR				
	C-80, C-80 CC, C-80 VENTAL, Z-90 NOVAL, Z-70, F-80	C-80, C-80 CC	C-80 VENTAL	Z-90 NOVAL	Z-70	F-80
010	grey	grey	-	grey	grey	-
9010	grey	grey	grey	grey	grey	grey
140 S	grey	grey	-	grey	grey	-
140	grey	grey	-	grey	grey	grey
9007	grey	grey	grey	grey	grey	grey
DB 703	black	black	black	black	black	black
130	grey	grey	-	grey	-	-
240	grey	grey	-	grey	-	-
7032	grey	grey	-	-	-	-
220	grey	grey	-	grey	-	-
780 H	grey	grey	-	grey	-	-
780 D	grey	grey	-	grey	-	-
071	grey	grey	-	grey	-	-
7022	black	black	-	black	black	black
7016	black	black	black	black	black	black
905	black	black	-	black	-	-
110	grey	grey	-	grey	-	-
440	grey	grey	-	grey	-	-
330	black	black	-	black	-	-
120	black	black	-	black	-	-
720	grey	grey	-	grey	-	-
904	grey	grey	-	grey	-	-
909	grey	grey	-	grey	-	-
908	grey	grey	-	grey	-	-
903	grey	grey	-	grey	-	-
906	grey	grey	-	grey	-	-

Note: If you order a non-standard colour version, all components will be tuned in the grey colour.

9.6 Colour tuning of components EXT-50 H, EXT-50

SLAT NO.	TAPE	LADDER
1	white	white
12	white	white
13	grey	grey
14	grey	grey
14SP	grey	grey
22	white	white
36	white	white
44	grey	grey
49	black	black
190	grey	grey
191	black	black
380	black	black
702	grey	grey
950		

9.8.2 Technical data sheet: External blind - crank, guiding in rails

C80

C80 VENTAL

F80

Z70

Z90 NOVAL

EXT-50 H

No.

LEGEND

1.

Head rail

2.

Mounting holder

3.

Ladder

4.

Tape - 8 mm

5.

Slat

6.

Slat guiding pin

7.

Guide rail

8.

Bracket

9.

Shaft Ø14 mm

10.

Bottom rail

11.

Ladder connection

12.

Reeler

13.

Gear-box

14.

Mechanical end stop

15.

Bushing 45°

16.

Bushing 90°

17.

Crank ø15 mm

No.	Item	Note	Material
1	Head rail		
1.1	Head rail - zinc-coated 56 x 58 mm		zinc-coated steel
1.2	Head rail - aluminium 57 x 59 mm		aluminium alloy
2	Mounting holder		
2.1	Mounting holder MD 1	standard	zinc-coated steel
2.2	Mounting holder MD 1a		stainless steel
2.3	Mounting holder MD 1b	spring	zinc-coated steel
3	Ladder		polyester - PES
4	Tape - 8 mm		polyester - PES
5	Slat		aluminium alloy
6	Slat guiding pin		plastic - POM/zamak
7	Guide rail		
7.1	Guide rail VL 1		aluminium alloy
7.2	Guide rail VL 2		aluminium alloy
7.3	Guide rail VL 3		aluminium alloy
7.4	Guide rail VL 4		aluminium alloy
7.5	Guide rail VL 5		aluminium alloy
7.6	Guide rail VL 6		aluminium alloy
7.7	Guide rail VL 7		aluminium alloy
7.8	Built-in case ZP	for VL 7	aluminium alloy
7.9	Guide rail VL 8		aluminium alloy
7.10	Off-set guide rail RVL	for VL 9	aluminium alloy
7.11	Guide rail VL 9		aluminium alloy
8	Bracket		
8.1	Bracket K 1 - 3		aluminium alloy
8.2	Bracket K 4 - 6	for ZP	aluminium alloy
8.3	Telescopic bracket TK 1 - 4		aluminium alloy
8.4	Tel. bracket plastic TKP 1 - 4		aluminium alloy / plastic
8.5	Tel. bracket metal TKK 1 - 5		aluminium alloy
8.6	Tel. bracket metal TKK 6 - 8		aluminium alloy
8.7	Bracket - fixed PK 70	thickness of base 20, 40 mm	aluminium alloy
8.8	Corner bracket outer RK 1 - 3	incl. square 40 x 40 Al	aluminium alloy
8.9	Corner bracket inner RKV 1 - 3		aluminium alloy
9	Shaft Ø14 mm		aluminium alloy
10	Bottom rail		aluminium alloy
11	Ladder connection		plastic - POM
12	Reeler		plastic - POM
13	Gear-box		plastic / metal
14	Mechanical end stop		plastic - PA 6
15	Bushing 45°	axis - square, 6 x 6 mm	nickel-plated steel
16	Bushing 90°	axis - square, 6 x 6 mm	nickel-plated steel
17	Crank ø15 mm		aluminium alloy

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9.8.3 Technical data sheet: External blind - motor, guiding in wire

C80

C80 VENTAL

F80

Z70

Z90 NOVAL

EXT-50 H

No.

LEGEND

1.

Head rail

2.

Mounting holder

3.

Wire holder

4.

Ladder

5.

Tape - 8 mm

6.

Slat

7.

Wire protection

8.

Wire

9.

Wire holder

10.

Shaft Ø14 mm

11.

Bottom rail

12.

Ladder connection

13.

Reeler

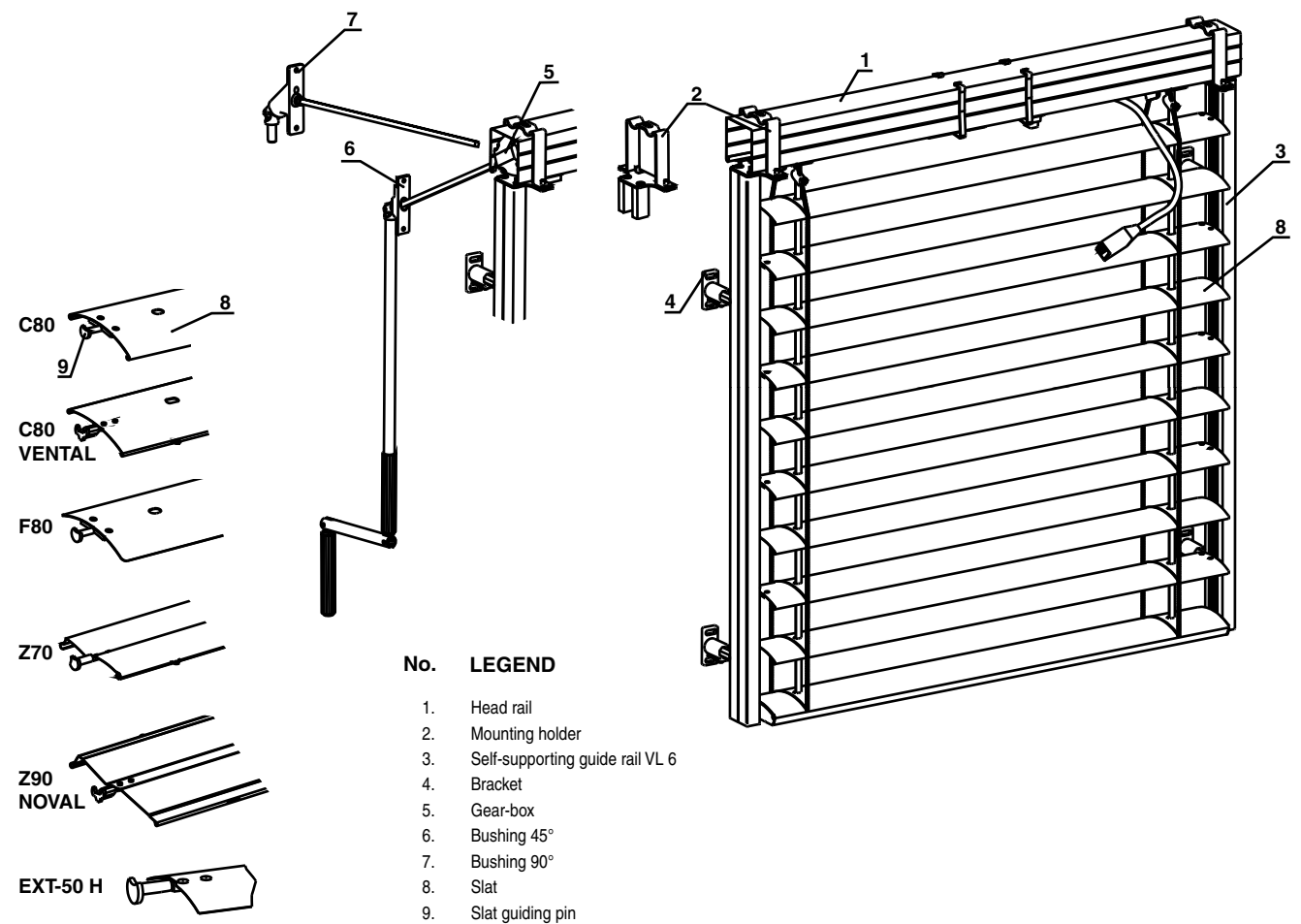
14.

Motor

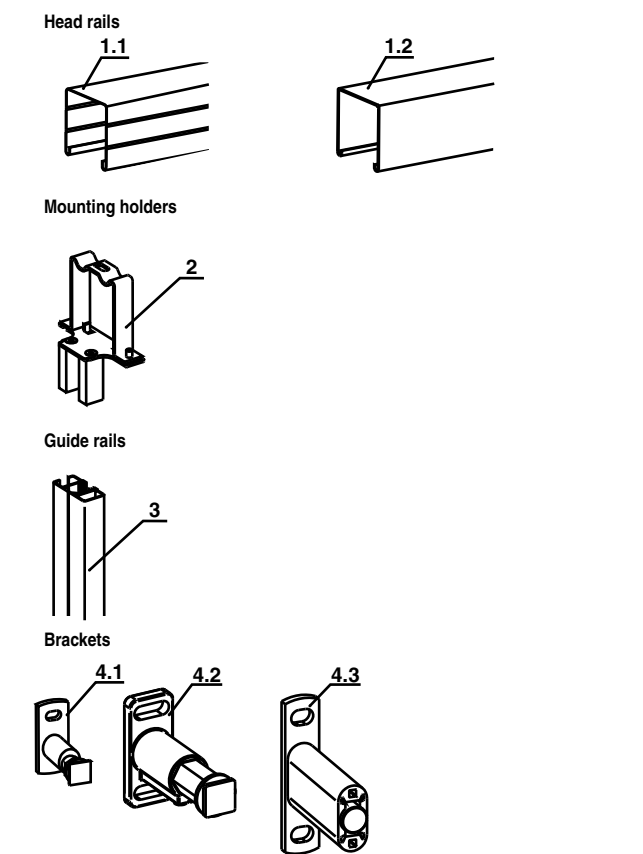
No.	Item	Note	Material
1	Head rail		
1.1	Head rail - zinc-coated 56 x 58 mm		zinc-coated steel
1.2	Head rail - aluminium 57 x 59 mm		aluminium alloy
2	Mounting holder		
2.1	Mounting holder MD 1		zinc-coated steel
2.2	Mounting holder MD 1a		stainless steel
2.3	Mounting holder MD 1b	spring	zinc-coated steel
3	Wire holder		plastic - PA6
4	Ladder		polyester - PES
5	Tape - 8 mm		polyester - PES
6	Slat		aluminium alloy
7	Wire protection	for F-80	plastic - PC
8	Wire - plastic-coated		steel / plastic
9	Wire holder		
9.1	Wire holder DL		aluminium alloy
9.2	Wire holder DL 1		aluminium alloy
9.3	Wire holder DL 2		aluminium alloy
9.4	Wire holder DL 3		aluminium alloy
9.5	Wire holder DL 4		aluminium alloy
9.6	Wire holder DL 5		aluminium alloy
10	Shaft Ø14 mm		aluminium alloy
10.1	Shaft - square, 6 x 6 mm		nickel-plated steel
10.2	Shaft - square, 6 x 6 mm		nickel-plated steel
11	Bottom rail		aluminium alloy
12	Ladder connection		plastic - POM
13	Reeler		plastic - POM
14	Motor		

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9.8.4 Technical data sheet: Self-supporting system – standard - crank, motor

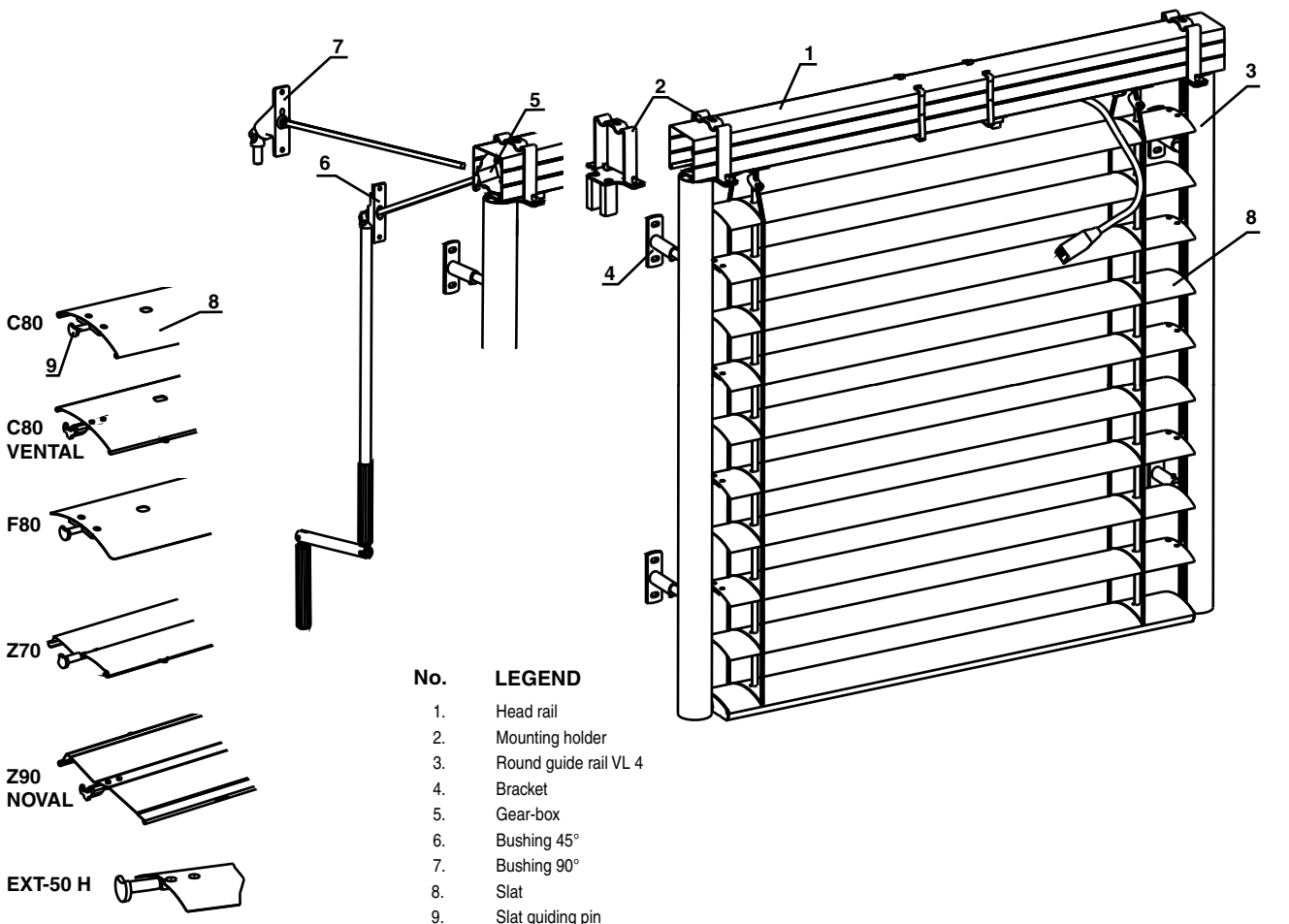


Optional components

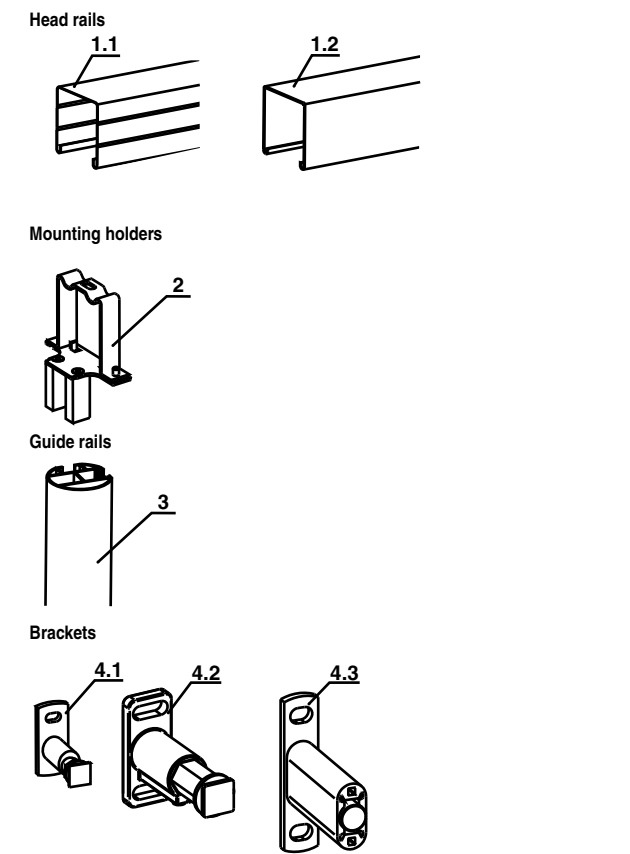


No.	Item	Note	Material
1	Head rail		
1.1	Head rail - zinc-coated 56 x 58 mm		zinc-coated steel
1.2	Head rail - aluminium 57 x 59 mm		aluminium alloy
2	Mounting holder MD 1c		stainless steel / Al
3	Self-supporting guide rail VL 6		aluminium alloy
4	Bracket		
4.1	Telescopic Bracket TK 1 - 3		aluminium alloy
4.2	Telescopic Bracket TK 5 - 6		aluminium alloy
4.3	Bracket - fixed PK 70	thickness of base 20, 40 mm	aluminium alloy
5	Gear-box		plastic / metal
6	Bushing 45°	□ axis - square, 6 x 6 mm	nickel-plated steel
7	Bushing 90°	□ axis - square, 6 x 6 mm	nickel-plated steel
8	Slat		aluminium alloy
9	Slat guiding pin		plastic POM/zamak

9.8.5 Technical data sheet: Self-supporting system – round - crank, motor

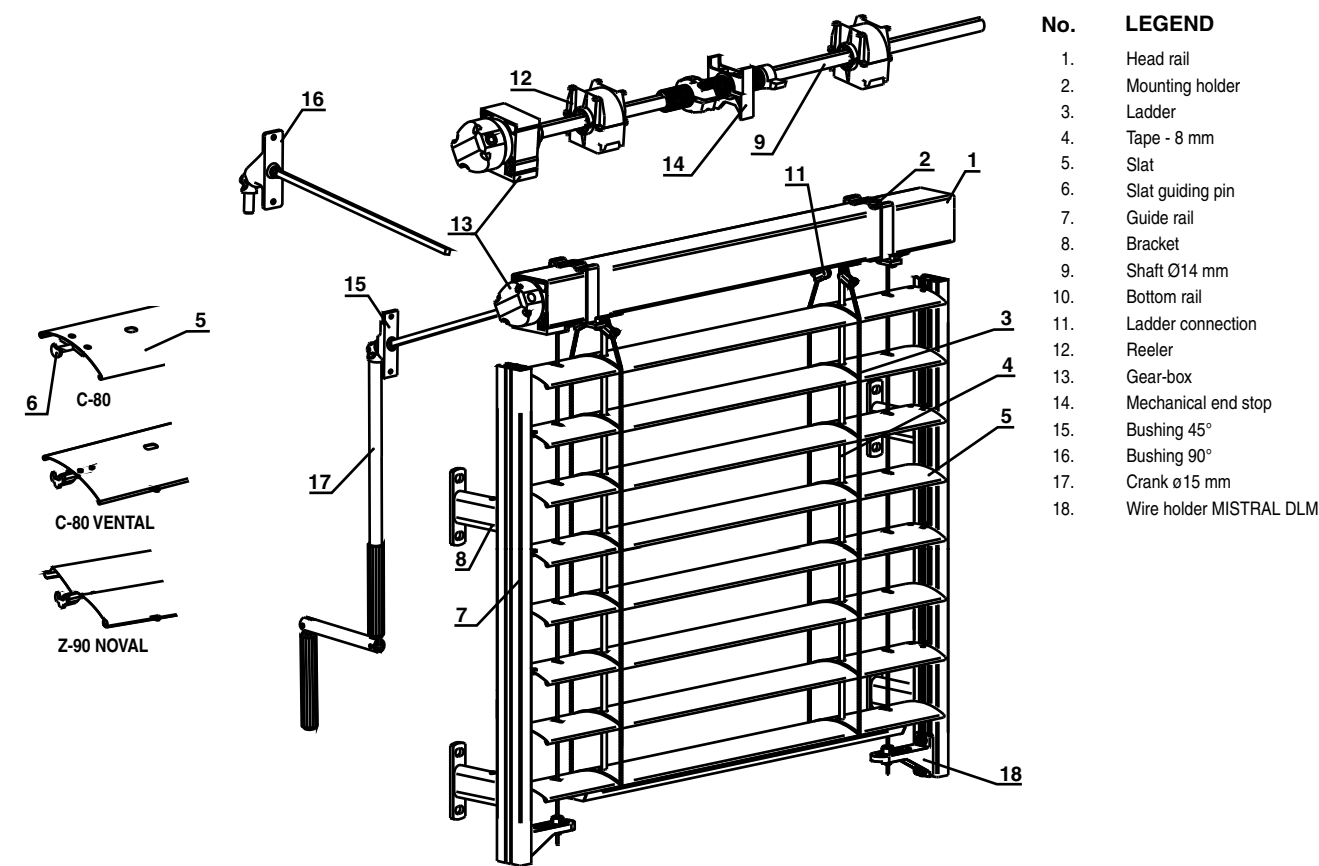


Optional components



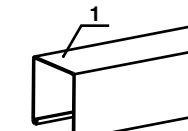
No.	Item	Note	Material
1	Head rail		
1.1	Head rail - zinc-coated 56 x 58 mm		zinc-coated steel
1.2	Head rail - aluminium 57 x 59 mm		aluminium alloy
2	Mounting holder MD 1d		stainless steel / Al
3	Round guide rail VL 4		aluminium alloy
4	Bracket		
4.1	Telescopic bracket TK 1 - 3		aluminium alloy
4.2	Telescopic bracket TK 5 - 6		aluminium alloy
4.3	Bracket - fixed PK 70	thickness of base 20, 40 mm	aluminium alloy
5	Gear-box		plastic / metal
6	Bushing 45°	□ axis - square, 6 x 6 mm	nickel-plated steel
7	Bushing 90°	□ axis - square, 6 x 6 mm	nickel-plated steel
8	Slat		aluminium alloy
9	Slat guiding pin		zamak

9.8.6 Technical data sheet: External blind – MISTRAL version



Optional components

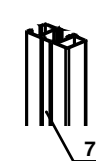
Head rails



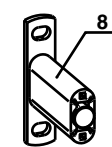
Mounting holders



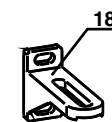
Guide rails



Brackets

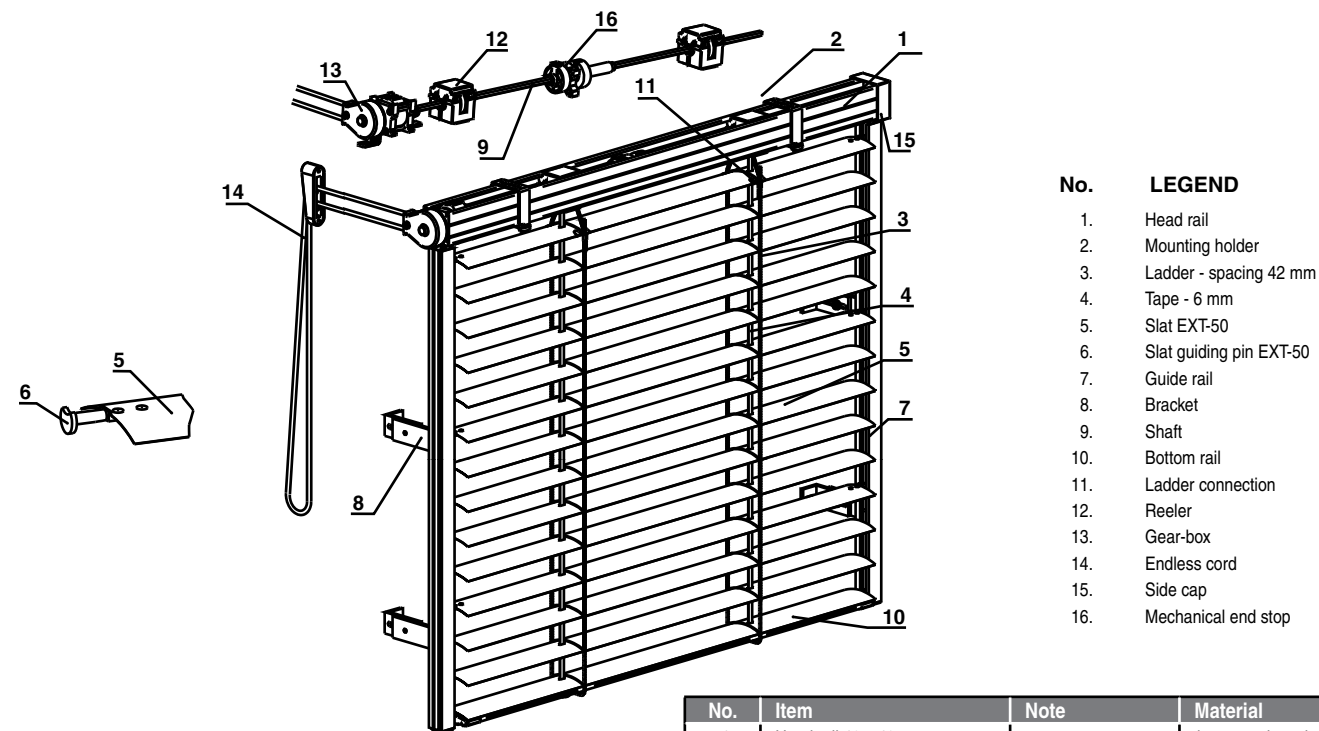


Wire holders



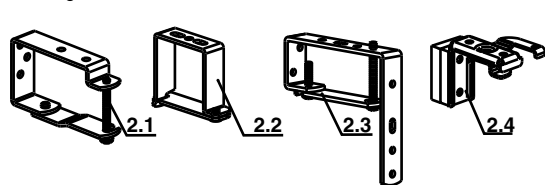
No.	Item	Note	Material
1	Head rail aluminium 57 x 59 mm		aluminium alloy
2	Mounting holder		
2.1	Mounting holder MD 1a	for head rail - Al, zinc-coated	stainless steel
2.2	Mounting holder MD 1b	spring	zinc-coated steel
3	Ladder		polyester - PES
4	Tape - 8 mm		polyester - PES
5	Slat		aluminium alloy
6	Slat guiding pin		plastic - POM/zamak
7	Guide rail VL 6		aluminium alloy
8	Bracket - fixed PK 70	thickness of base 20, 40 mm	aluminium alloy
9	Shaft Ø14 mm		aluminium alloy
10	Bottom rail		aluminium alloy
11	Ladder connection		plastic - POM
12	Reeler		plastic - POM
13	Gear-box		plastic / metal
14	Mechanical end stop		plastic - PA 6
15	Bushing 45°	□ axis - square, 6 x 6 mm	nickel-plated steel
16	Bushing 90°	□ axis - square, 6 x 6 mm	nickel-plated steel
17	Crank ø15 mm		aluminium alloy
18	Wire holder MISTRAL DLM		aluminium alloy

9.8.7 Technical data sheet: External blind EXT-50 – cord, guide rails

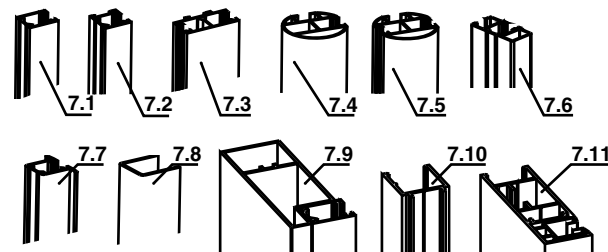


Optional components

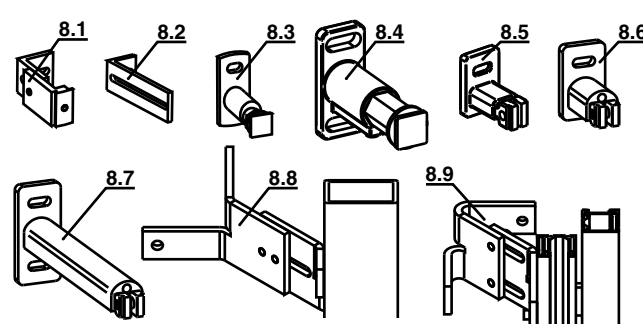
Mounting holders



Guide rails

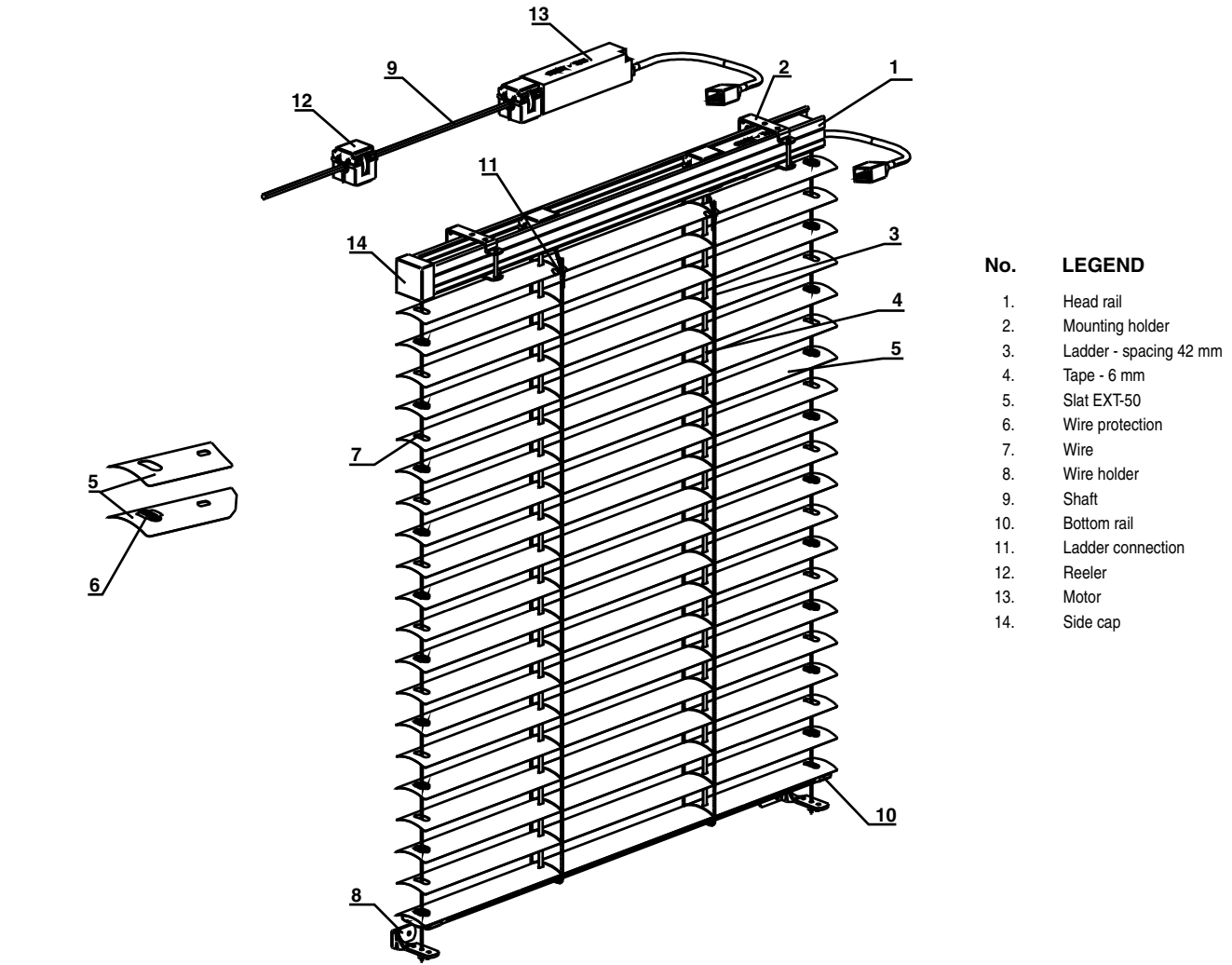


Brackets

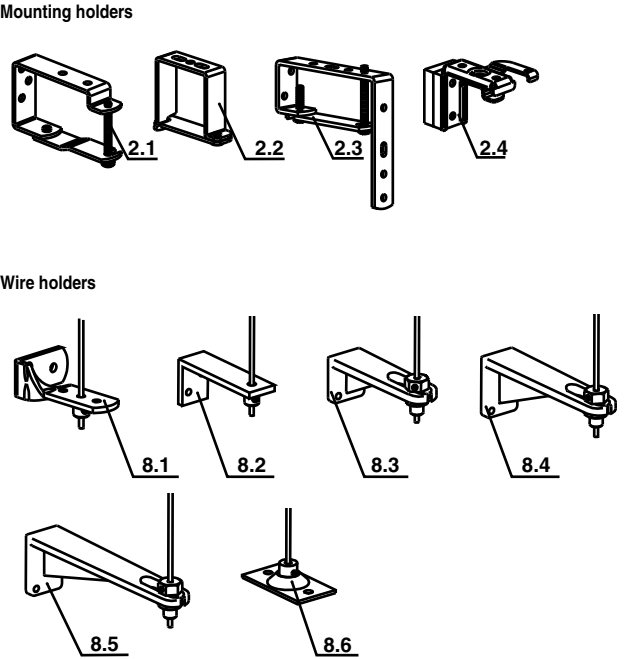


No.	Item	Note	Material
1	Head rail 40 x 40 mm		zinc-coated steel
2	Mounting holder		
2.1	Mounting holder DU		zinc-coated steel
2.2	Mounting holder DS		zinc-coated steel
2.3	Mounting holder DKP		zinc-coated steel
2.4	Mounting holder DO		zinc-coated steel
3	Ladder - spacing 42 mm		polyester - PES
4	Tape - 6 mm		polyester - PES
5	Slat EXT-50		aluminium alloy
6	Slat guiding pin EXT-50		zamak
7	Guide rail		
7.1	Guide rail VL 1		aluminium alloy
7.2	Guide rail VL 2		aluminium alloy
7.3	Guide rail VL 3		aluminium alloy
7.4	Guide rail VL 4		aluminium alloy
7.5	Guide rail VL 5		aluminium alloy
7.6	Guide rail VL 6		aluminium alloy
7.7	Guide rail VL 7		aluminium alloy
7.8	Built-in case ZP	for VL 7	aluminium alloy
7.9	Guide rail VL 8		aluminium alloy
7.10	Off-set Guide rail RVL	for VL 9	aluminium alloy
7.11	Guide rail VL 9		aluminium alloy
8	Bracket		
8.1	Bracket K 1 - 3		aluminium alloy
8.2	Bracket K 4 - 6	for ZP	aluminium alloy
8.3	Telescopic Bracket TK 1 - 4		aluminium alloy
8.4	Telescopic Bracket TK 5 - 6		aluminium alloy
8.5	Tel. Bracket plastic TKP 1 - 4		aluminium alloy / plastic
8.6	Tel. Bracket metal TTK 1 - 5		aluminium alloy
8.7	Tel. Bracket metal TTK 6 - 8		aluminium alloy
8.8	Corner Bracket outer RK 1 - 3	incl. square 40 x 40 Al	aluminium alloy
8.9	Corner Bracket inner RKV 1 - 3		aluminium alloy
9	Shaft hexagonal 6,5 mm		aluminium alloy
10	Bottom rail		aluminium alloy
11	Ladder connection		plastic - POM
12	Reeler		plastic - POM
13	Gear-box		plastic / metal
14	Endless cord		artificial fiber
15	Side cap		plastic
16	Mechanical end stop		plastic / metal

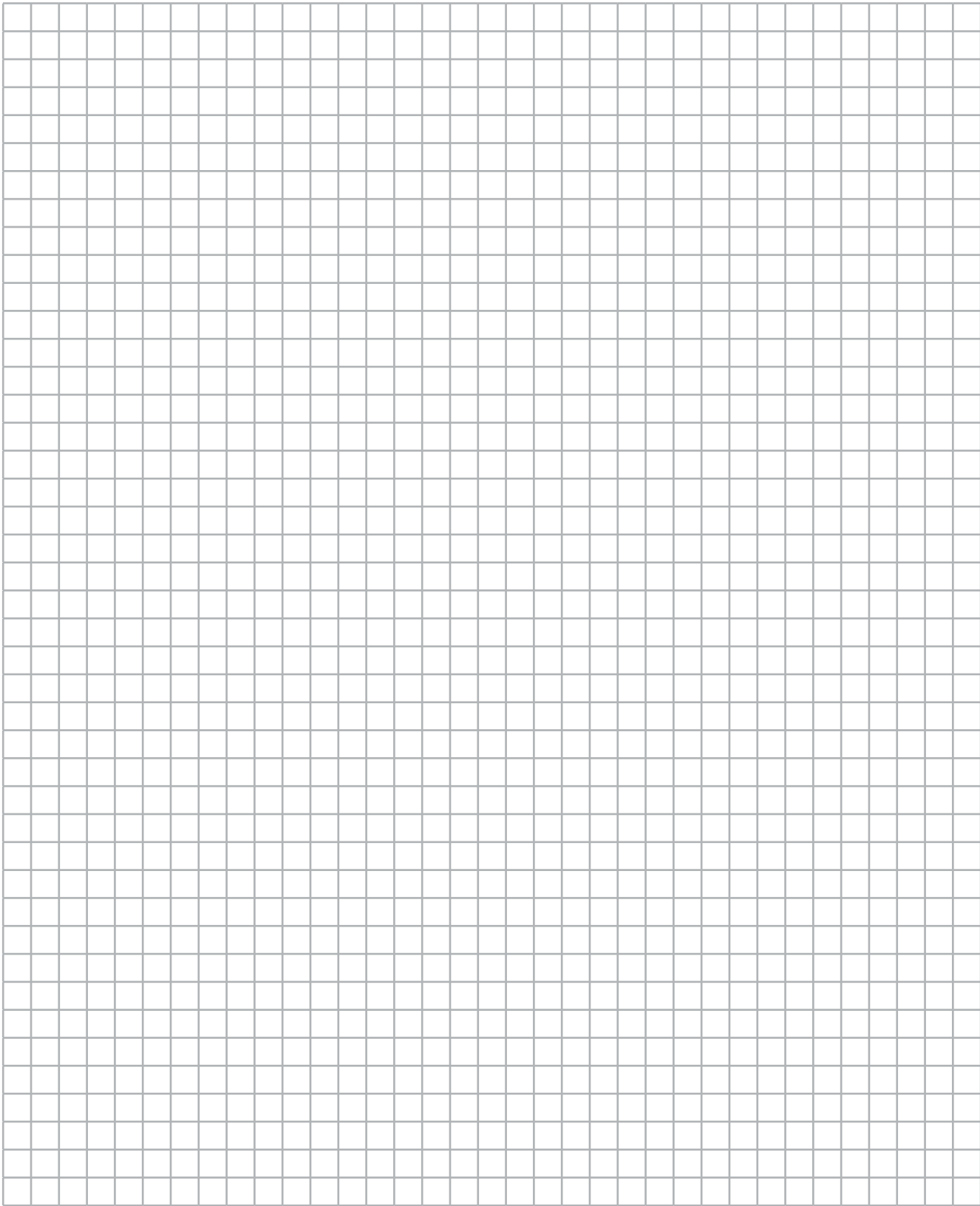
9.8.8 Technical data sheet: External blind EXT-50 – motor, wire



Optional components

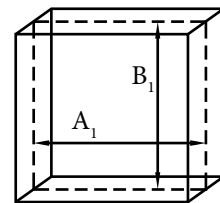


No.	Item	Note	Material
1	Head rail 40 x 40 mm		zinc-coated steel
2	Mounting holder		
2.1	Mounting holder DU		zinc-coated steel
2.2	Mounting holder DS		zinc-coated steel
2.3	Mounting holder DKP		zinc-coated steel
2.4	Mounting holder DO		zinc-coated steel
3	Ladder - spacing 42 mm		polyester - PES
4	Tape - 6 mm		polyester - PES
5	Slat EXT-50		aluminium alloy
6	Wire protection		plastic - PC
7	Wire - plastic-coated		steel / plastic
8	Wire holder		
8.1	Wire holder DL 5		aluminium alloy
8.2	Wire holder DL		aluminium alloy
8.3	Wire holder DL 1		aluminium alloy
8.4	Wire holder DL 2		aluminium alloy
8.5	Wire holder DL 3		aluminium alloy
8.6	Wire holder DL 4		aluminium alloy
9	Shaft hexagonal 6,5 mm		aluminium alloy
10	Bottom rail		aluminium alloy
11	Ladder connection		plastic - POM
12	Reeler		plastic - POM
13	Motor		plastic / metal
14	Side cap		plastic



10. Manual

10.1 Measuring instructions – blind into window opening



Legend:

A₁ – window opening width
B₁ – window opening height

A – blind width
B – blind height

Blind width A:

Measure the inner width of the recess (**A₁**) at least at top, middle and bottom parts. Take the minimum measured dimension and deduct approx. 5 mm (according to the lining evenness) from this value in order to create a certain allowance for installation.

Blind width **A** = **A**₁ - 5 mm.

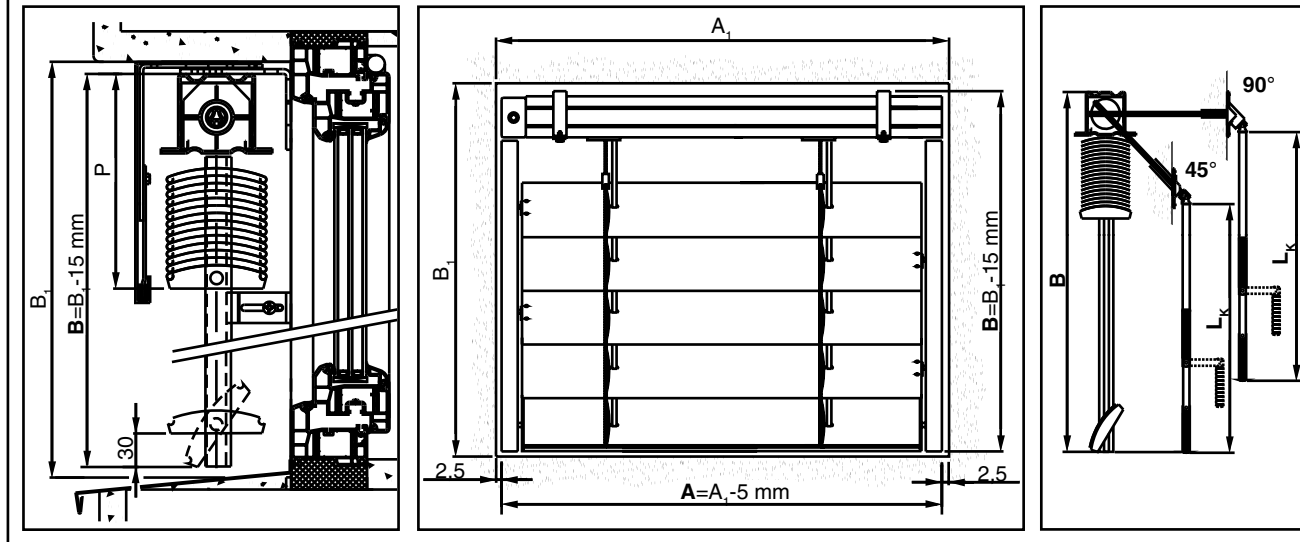
Blind height B:

Measure the inner height of the recess (**B_i**) again at the three points. Take the minimum measured dimension and deduct approx. 15 mm from this value. Blind height **B = B_i - 15 mm**.

Crank length L_K :

The length of the crank is measured when straightened The standard length of the crank is $L_k = B - 250 \text{ mm}$.

Measuring of blind into window opening



10.2 Measuring instructions – blind with built-in guide rails

Blind width A:

Measure the width of the window opening between the edge of the built-in case which are embedded in the lining.

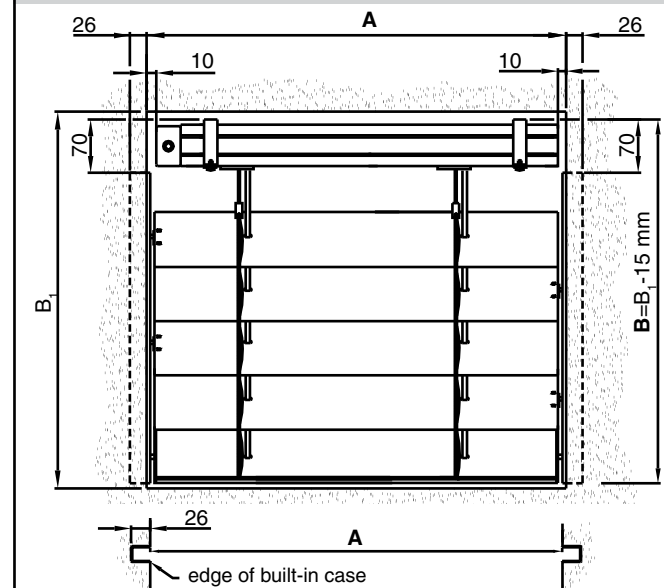
This value corresponds to the blind width (**A**) according to the picture.

Blind height B:

Measure the inner height of the recess (**B_i**) again at the three points. Take the minimum measured dimension and deduct approx. 15 mm from this value.

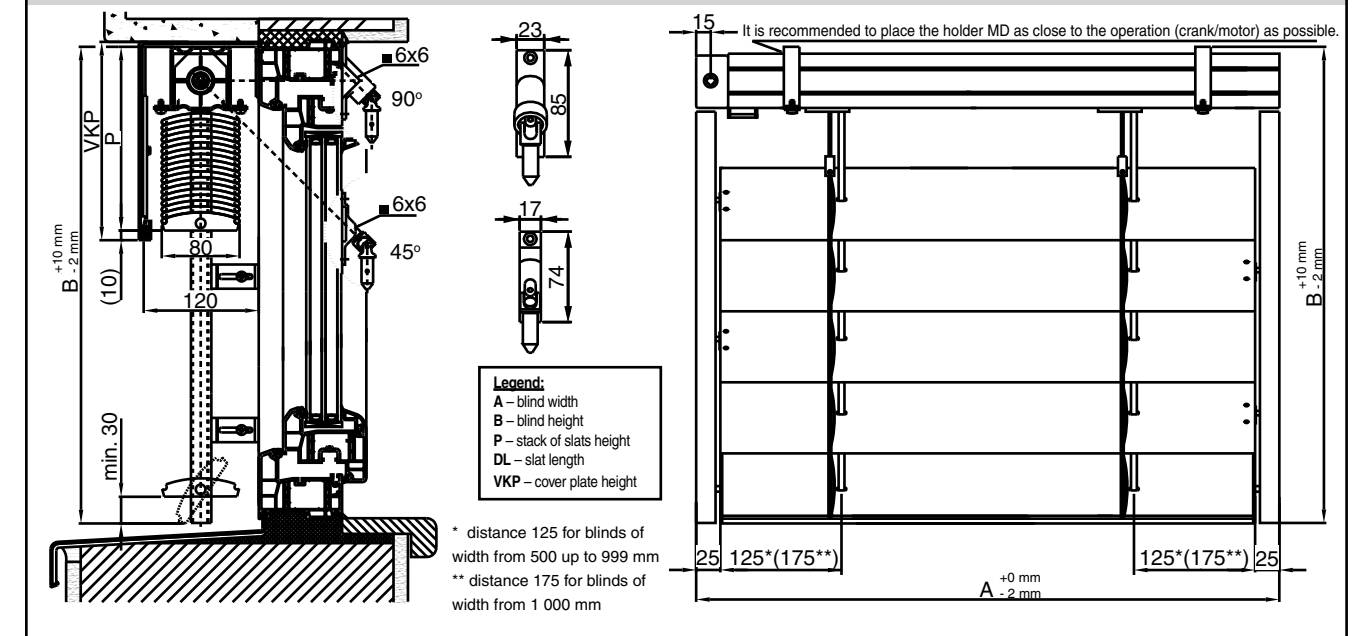
Blind height $B = B_1 - 15 \text{ mm}$.

Measuring of blind with built-in guide rails

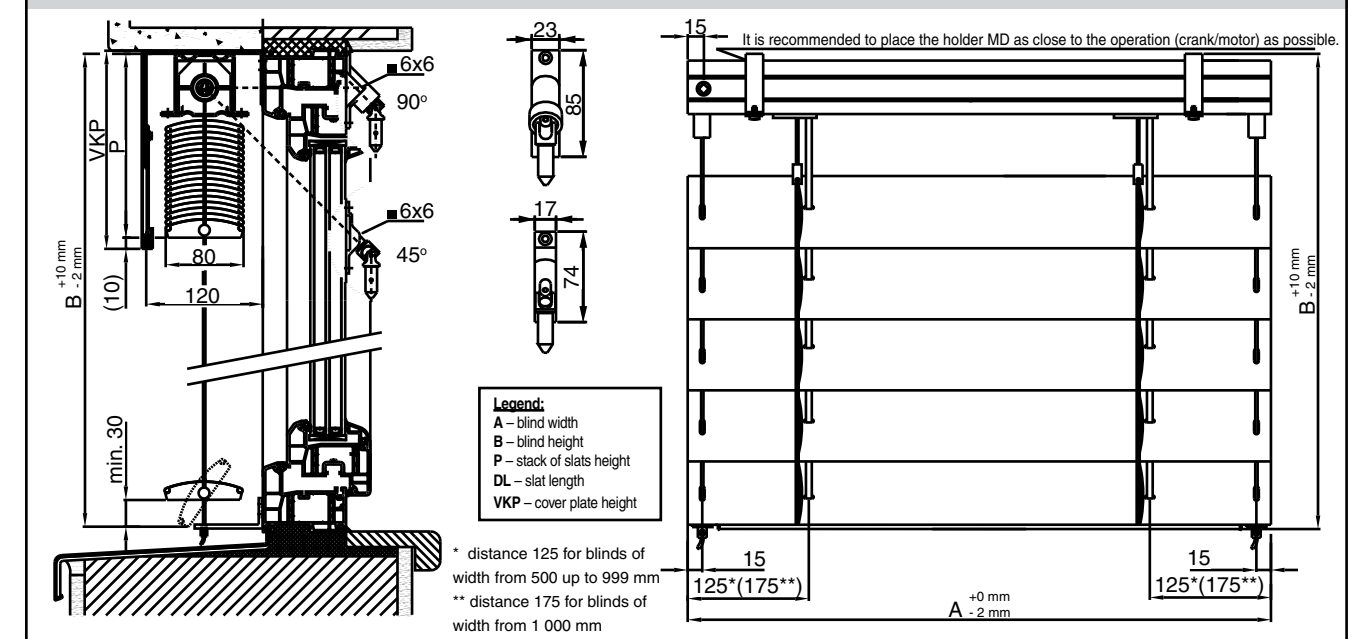


10.3 Measuring instructions – blind in guide rails / wire

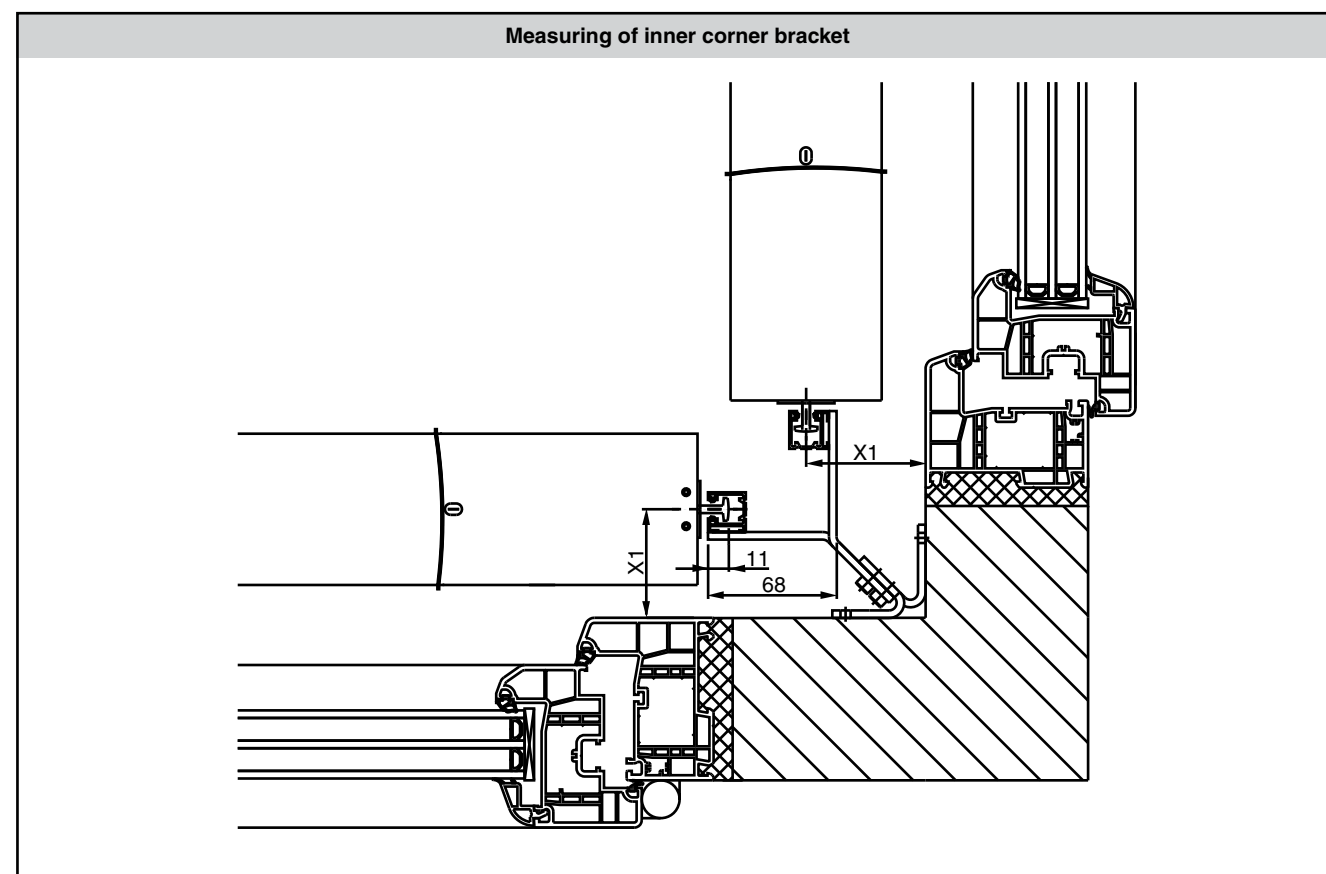
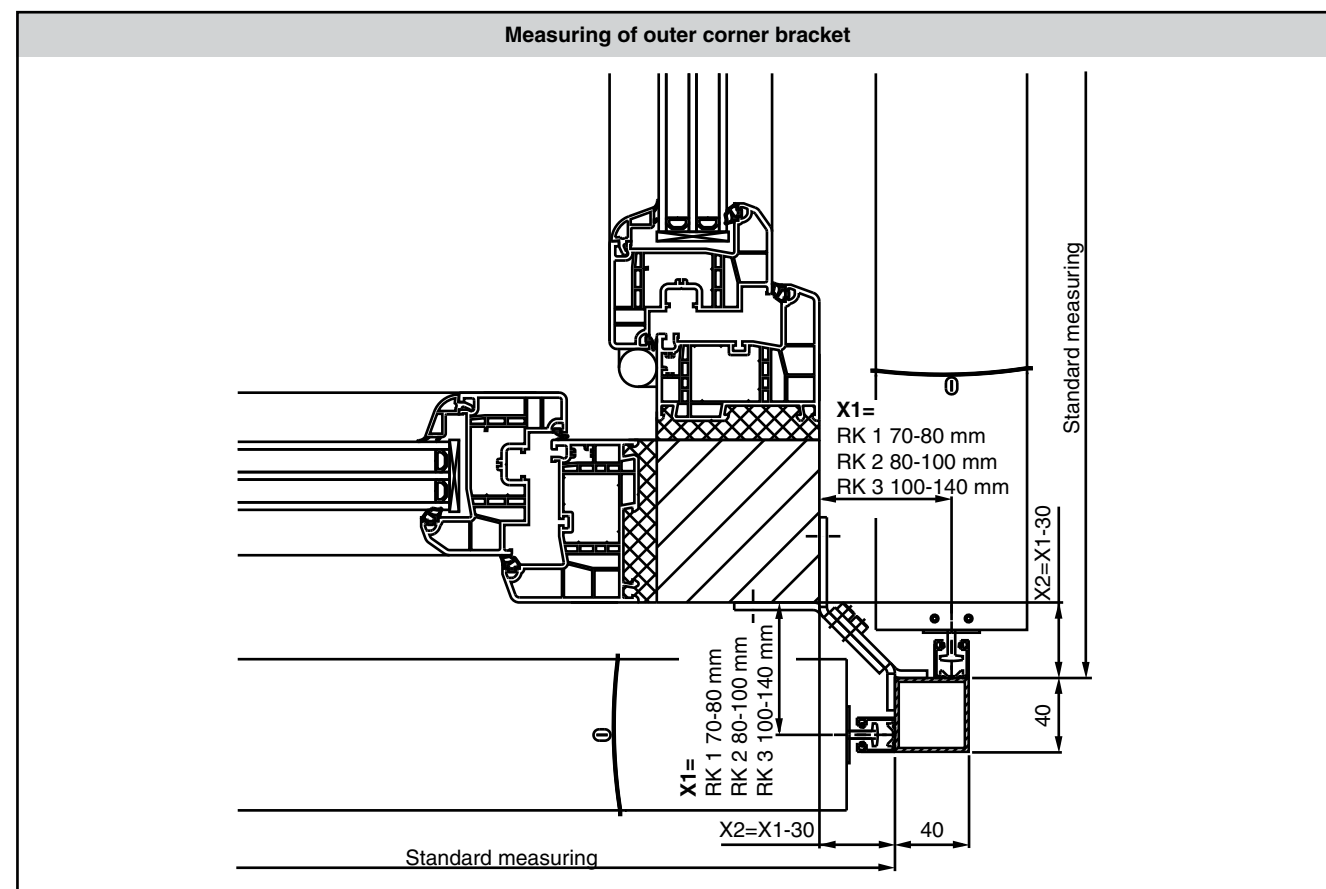
C-80 - guiding in rails



C-80 - guiding in wire

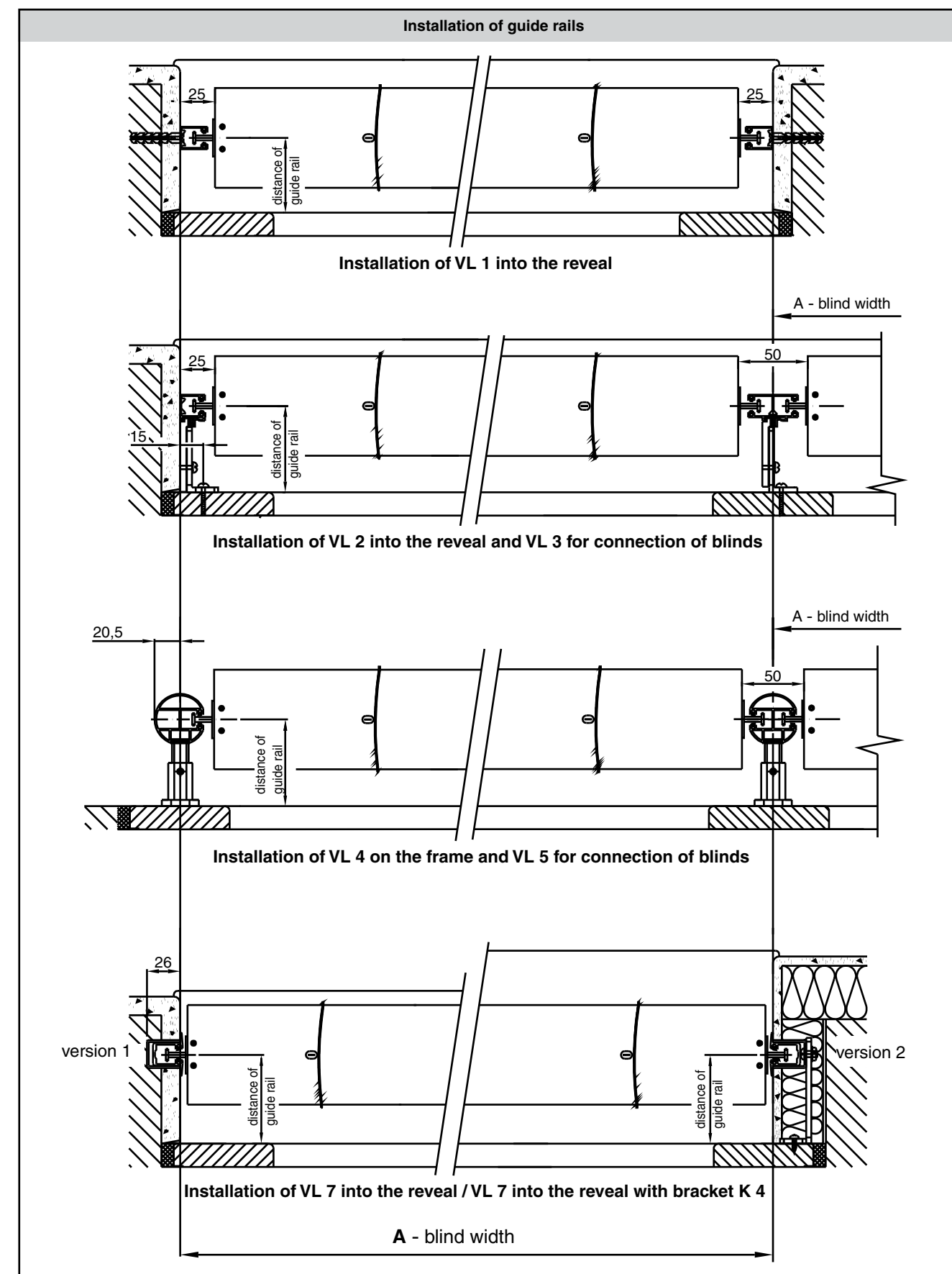


10.7 Measuring – corner bracket

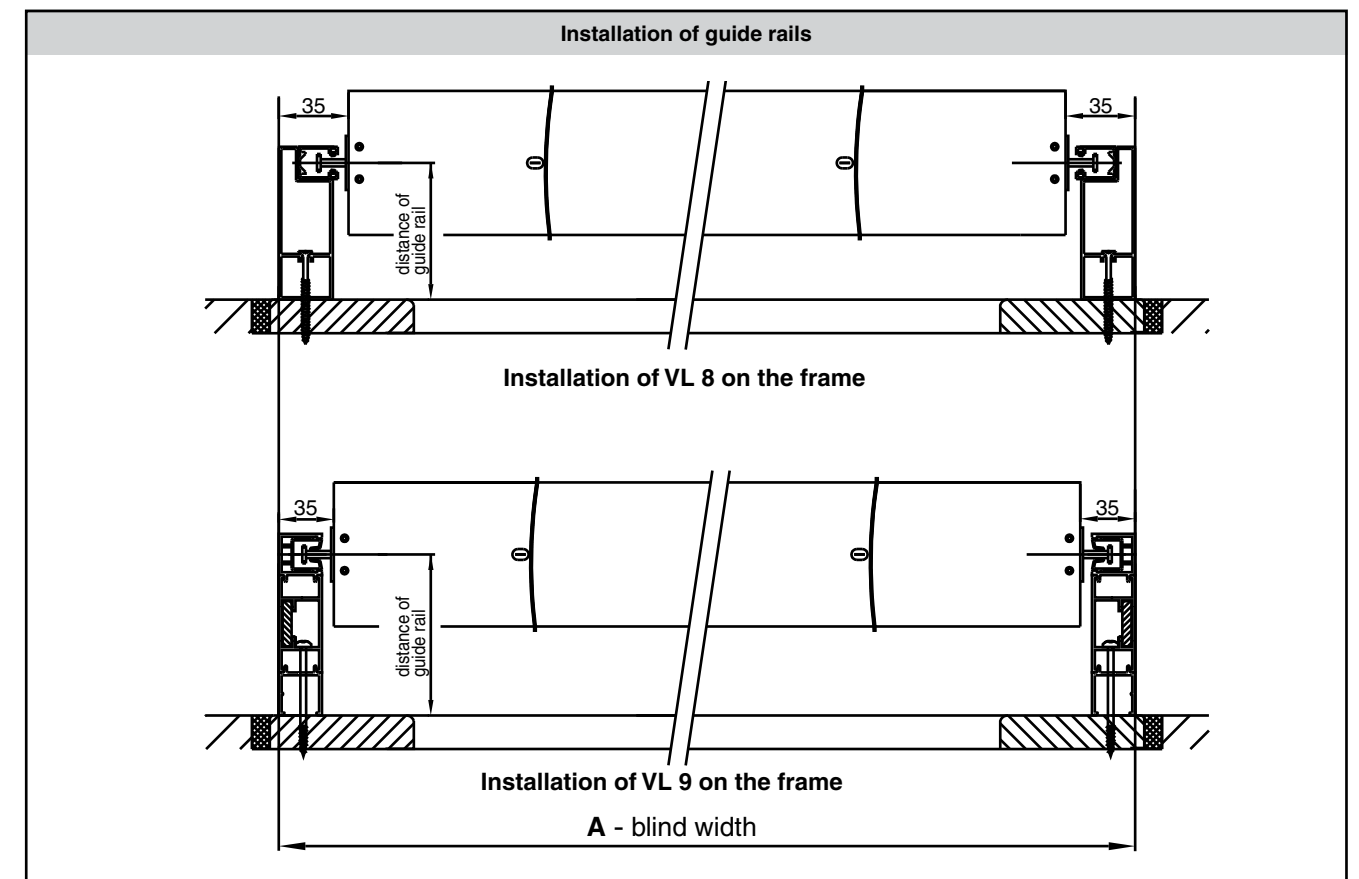
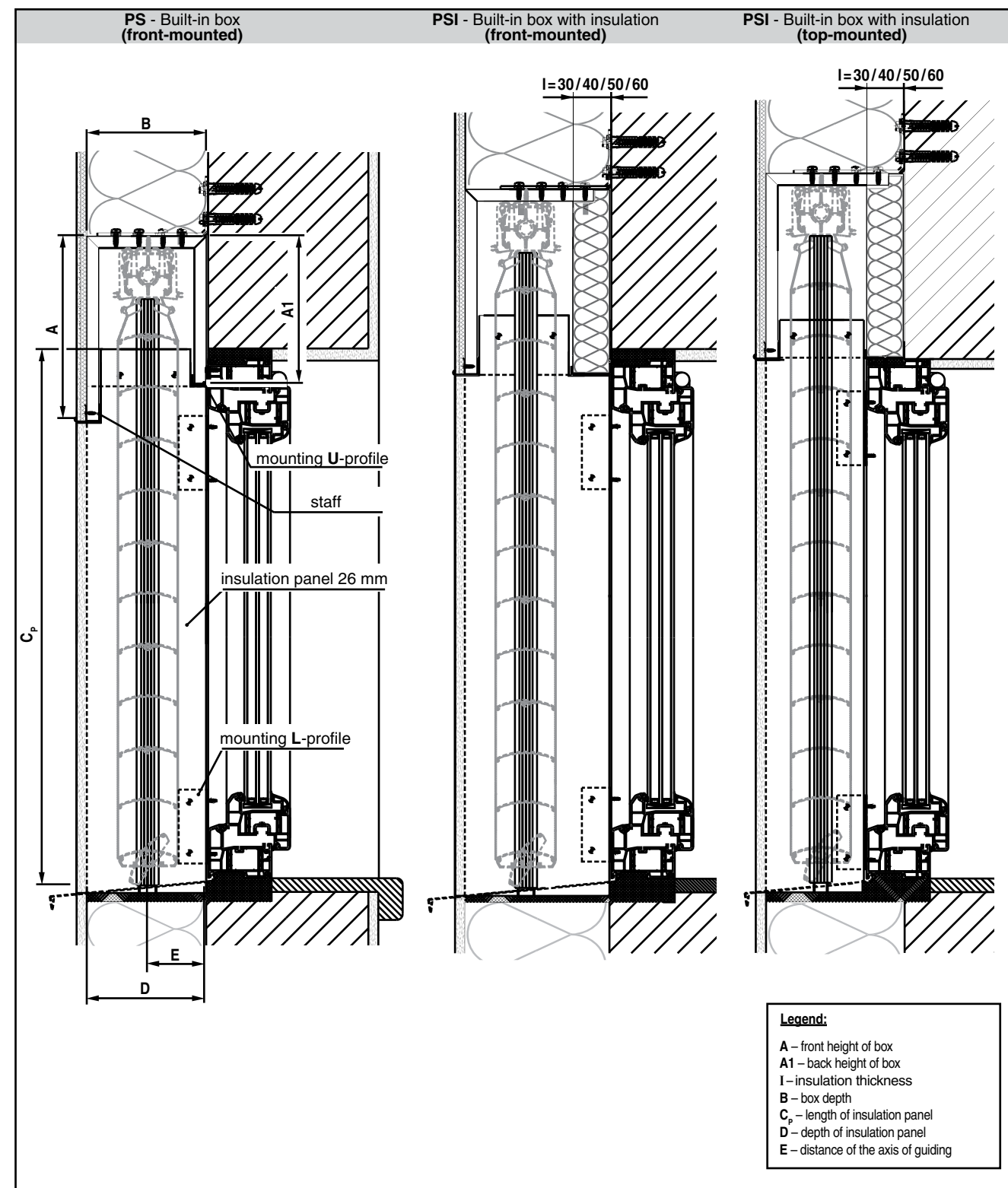


10.9 Examples of installation

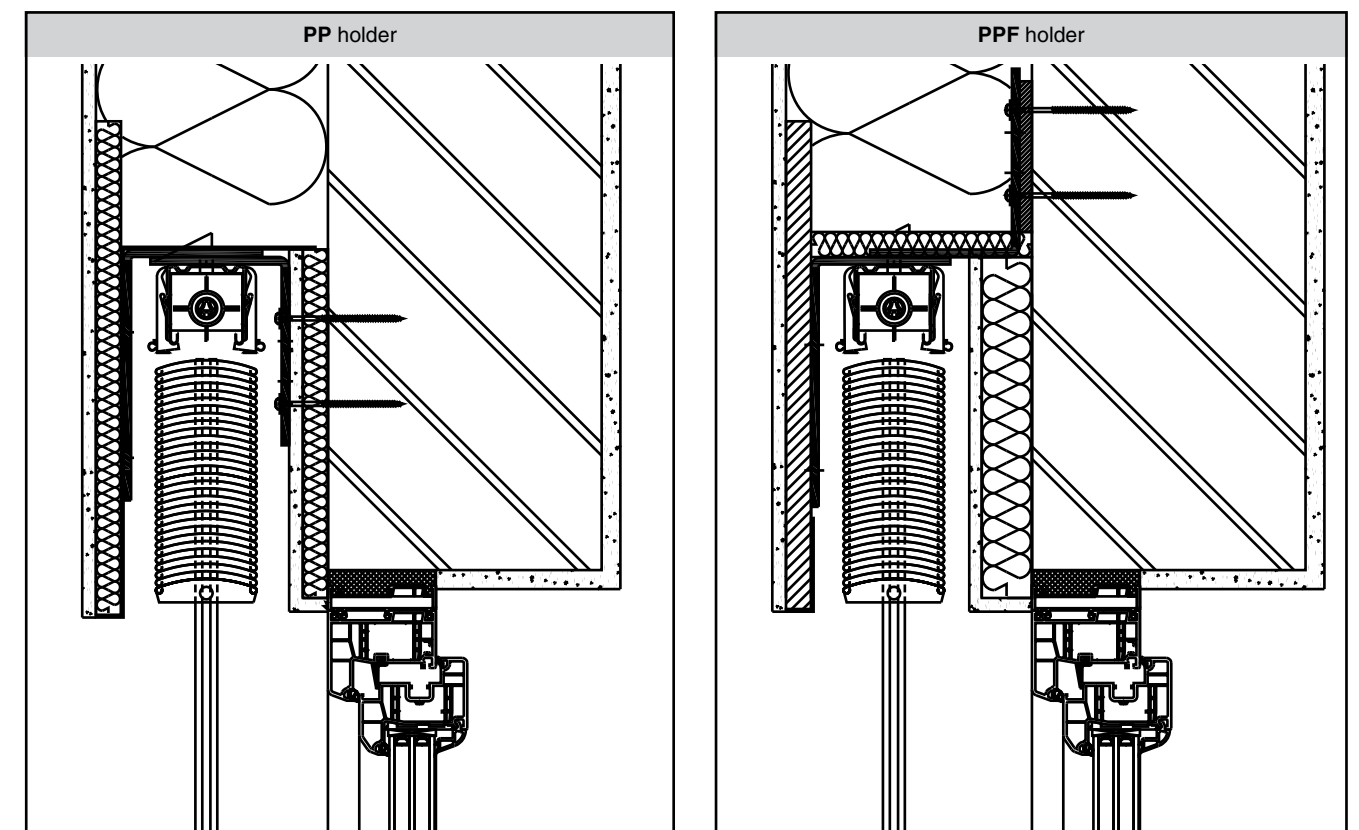
10.9.1 Installation of guide rails



10.9.3 Installation of built-in boxes

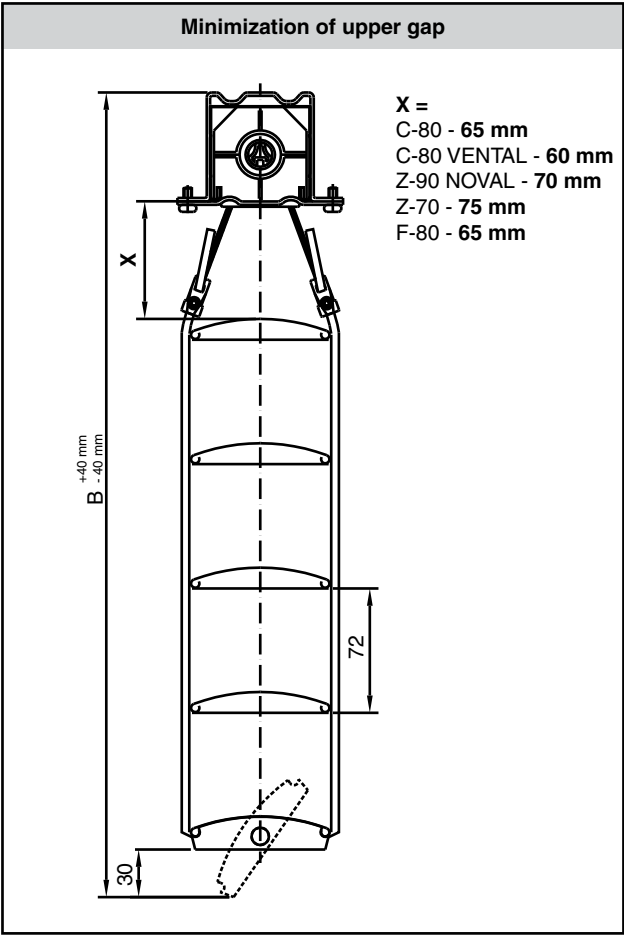
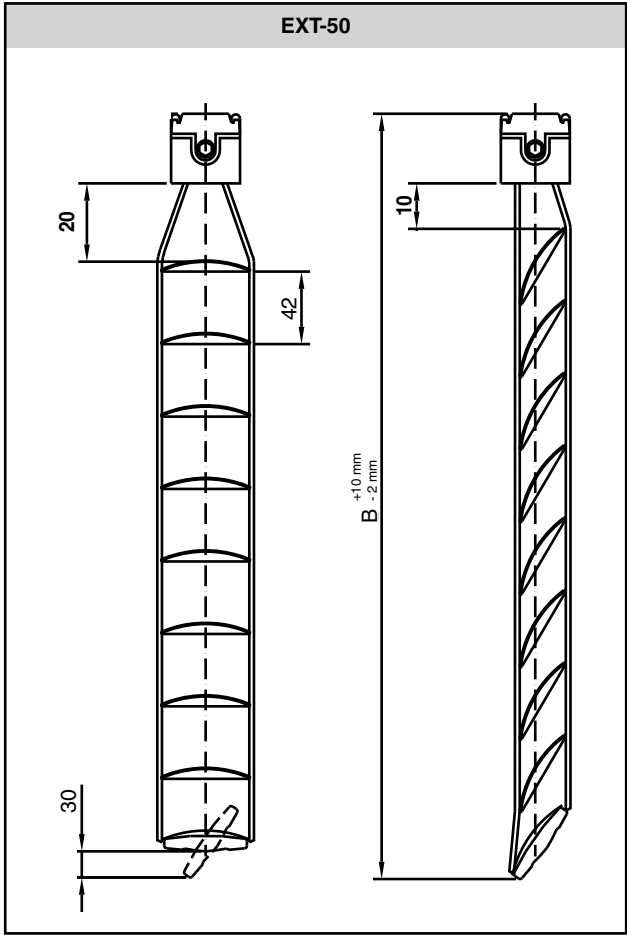
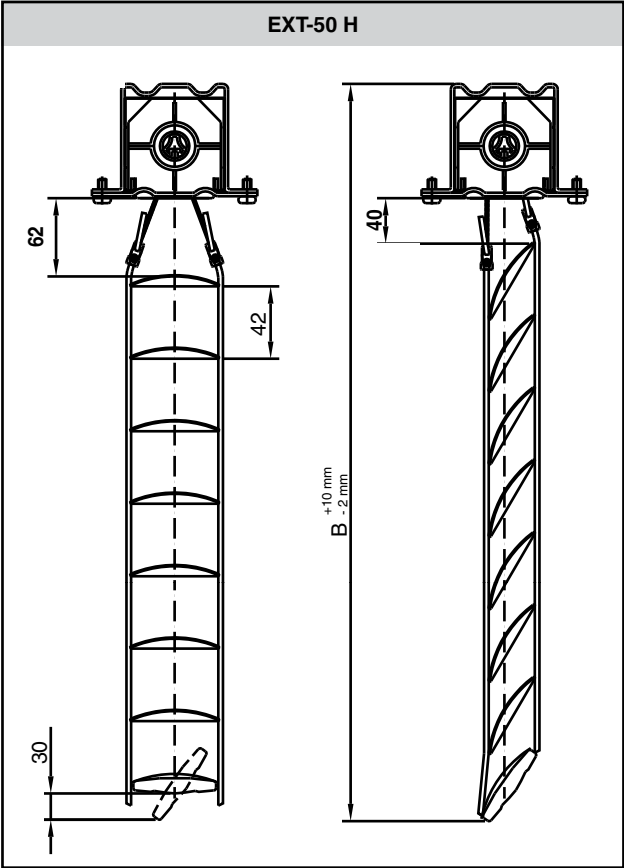
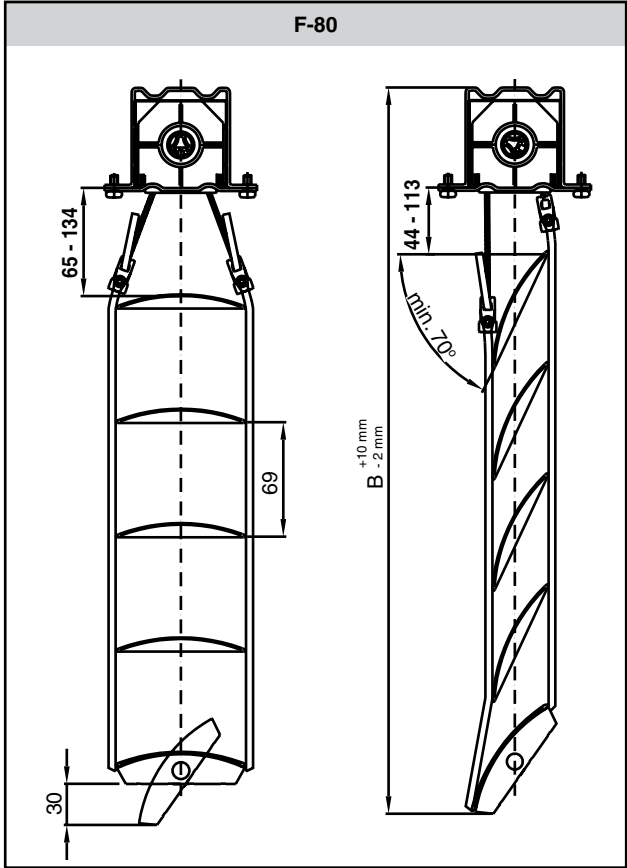
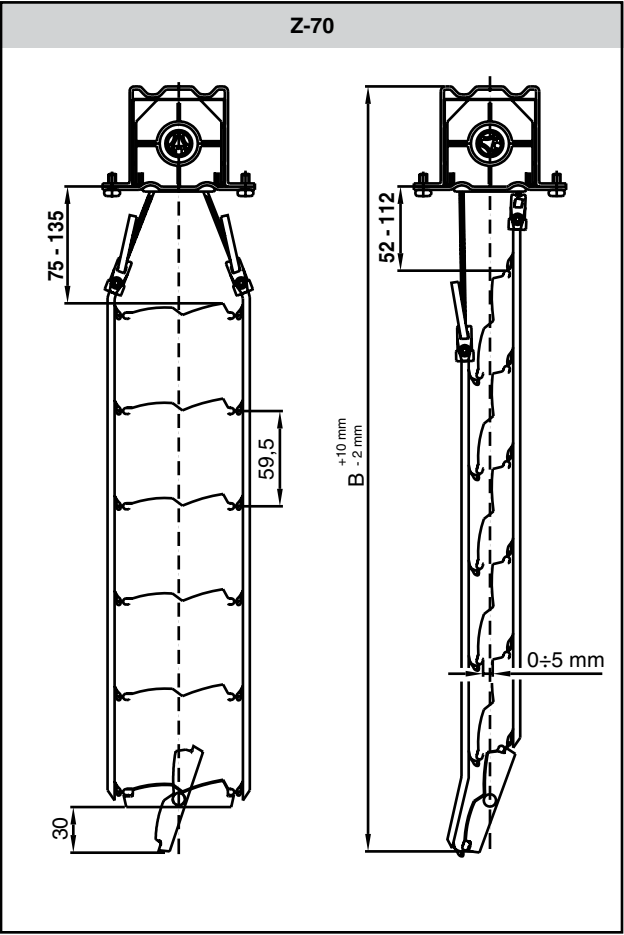
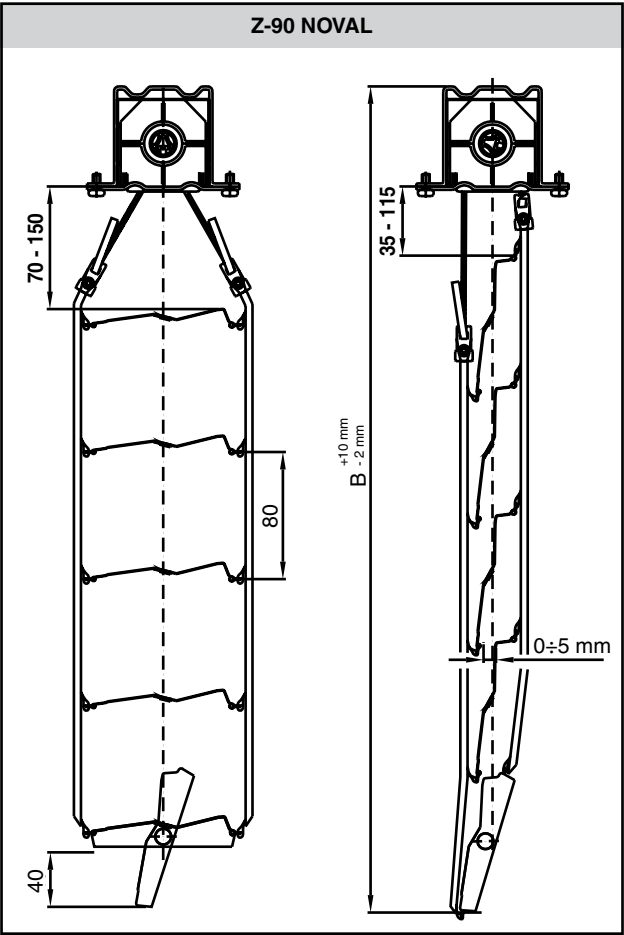
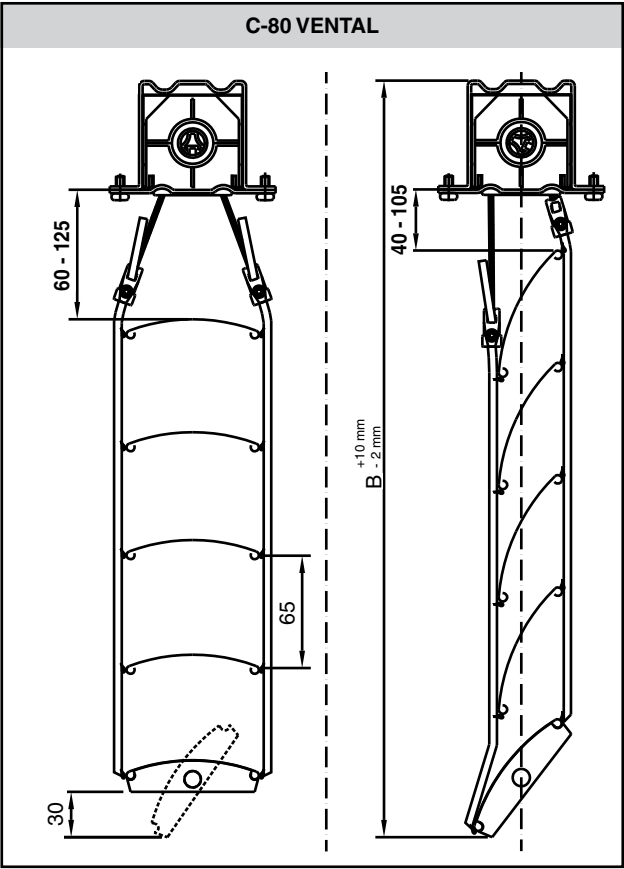
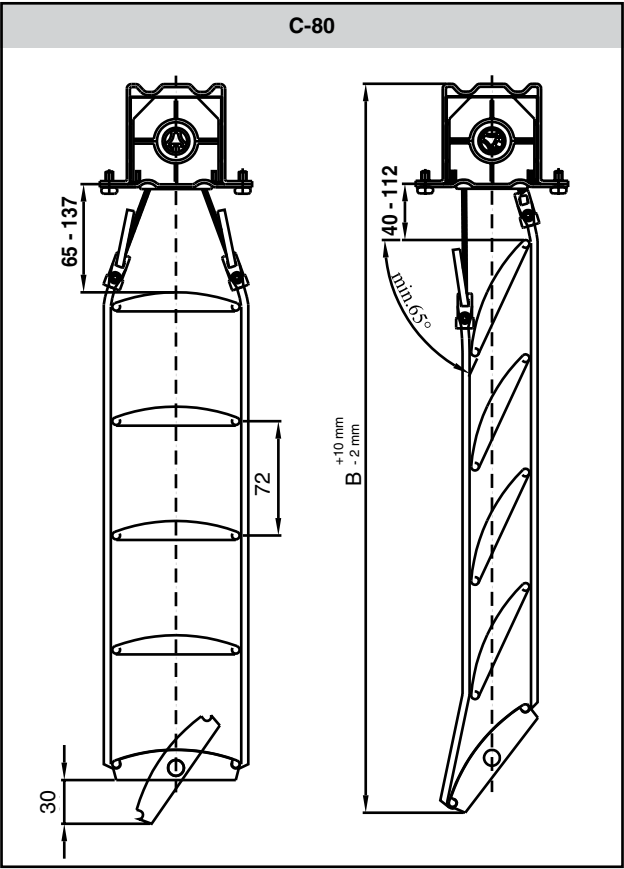


10.9.2 Under-plaster holders - installation

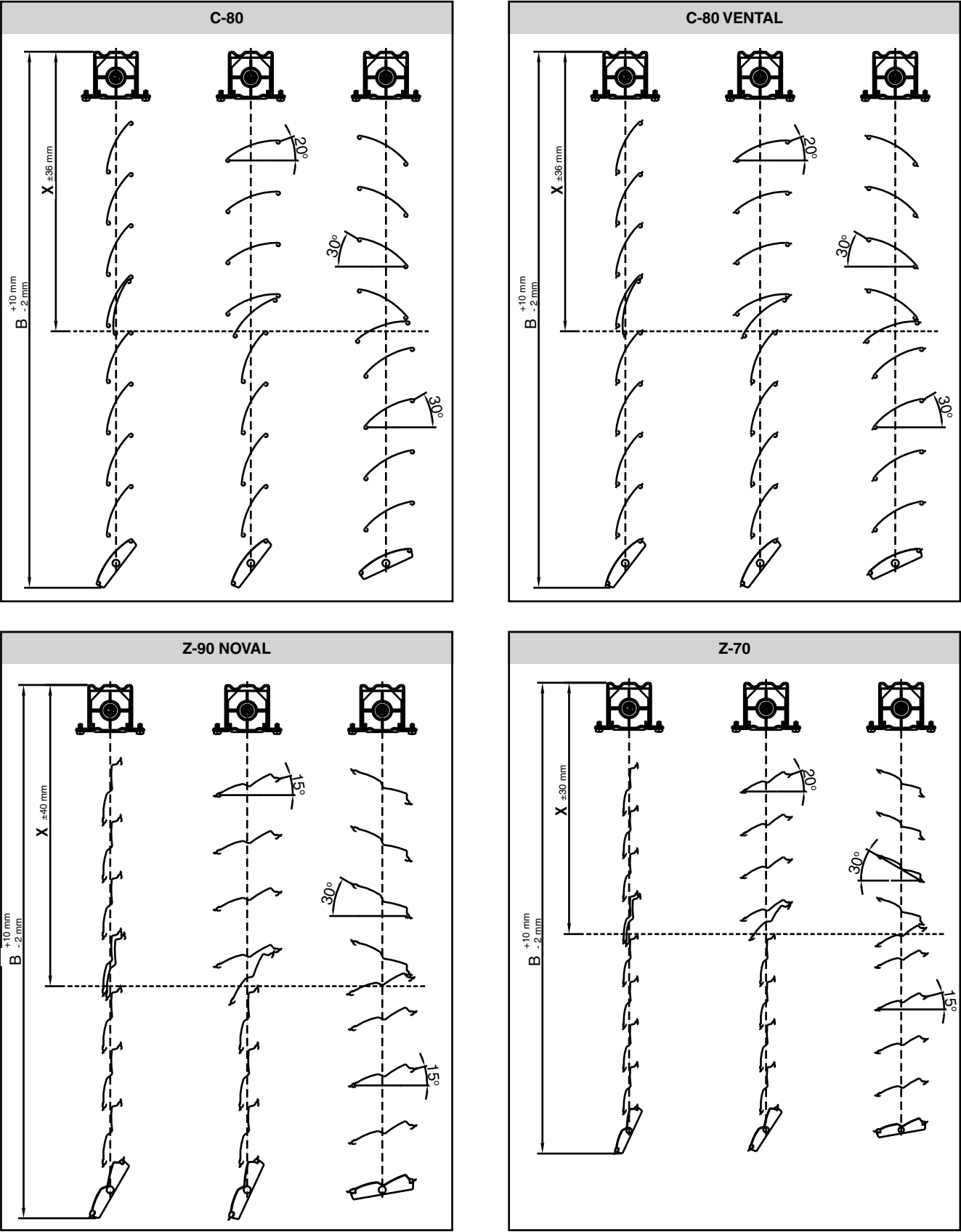


Notice: Number of holders should be considered in accordance with the selected façade elements. The basic number of holders is given according to the blind width.

10.12 Manufacturing dimensions

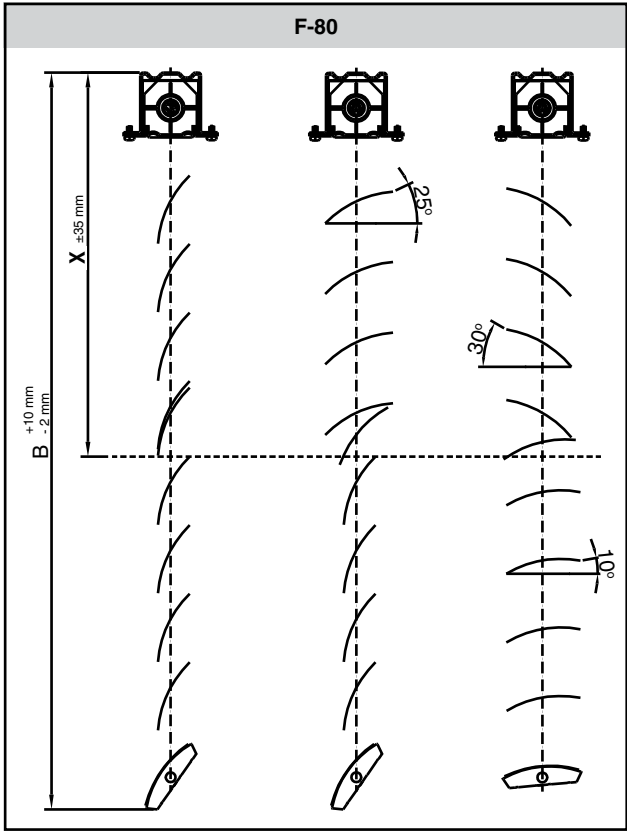


10.13 Segmented tilting of slats

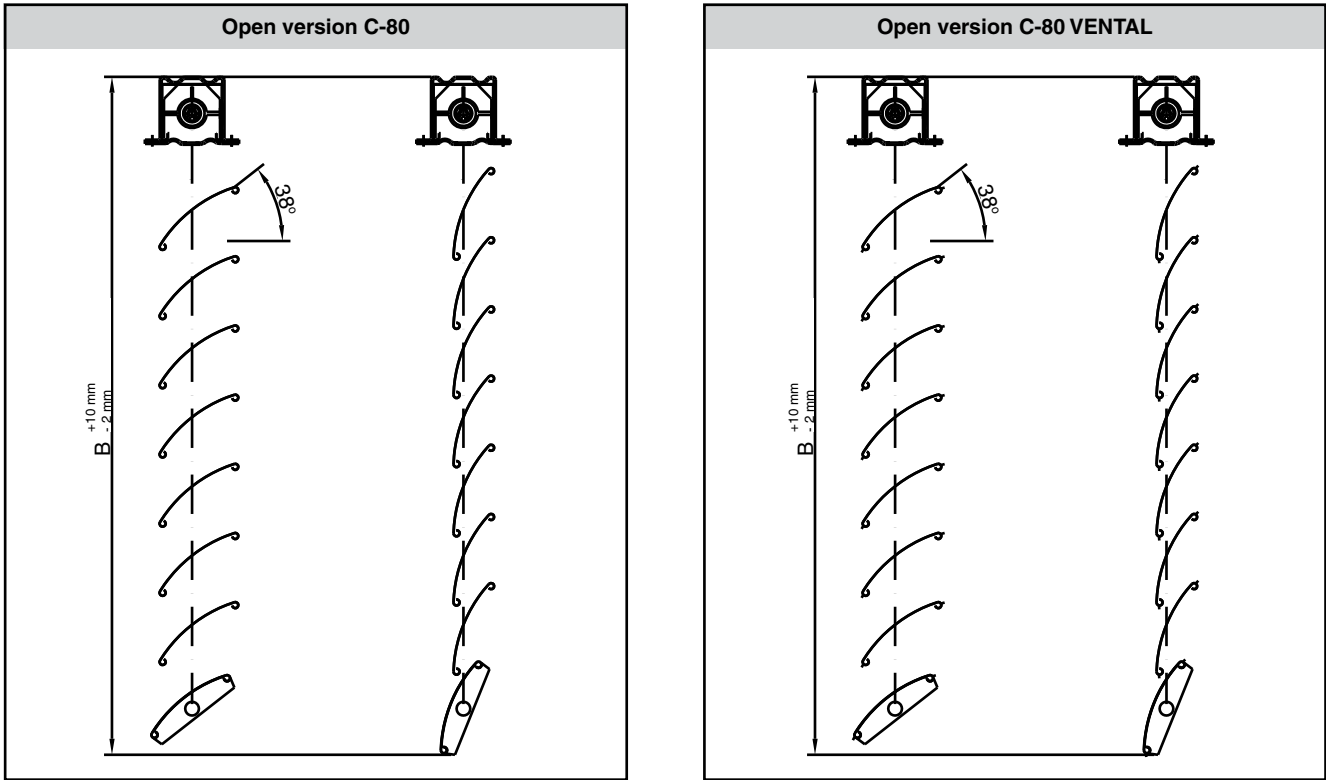


Notice: the angles of slat tilting are only approximate values.

Legend:
B – blind height
X – the height of slat segmentation



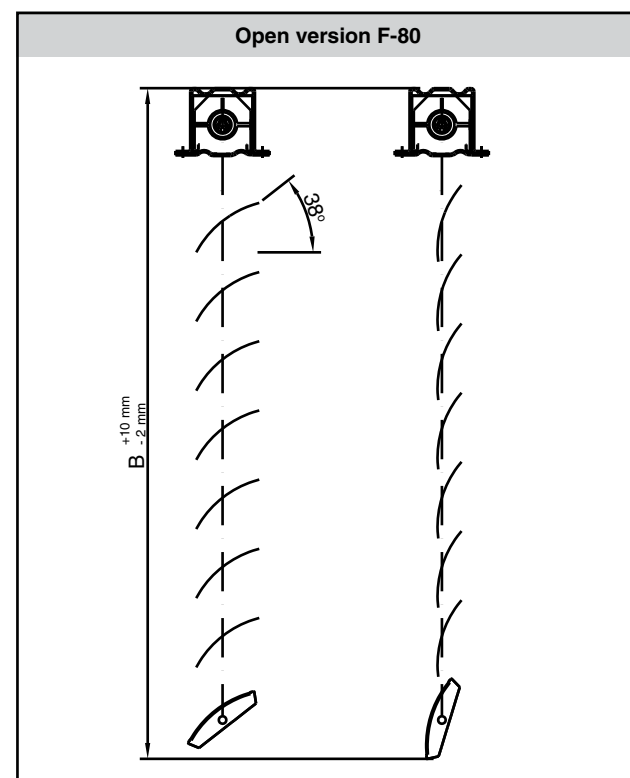
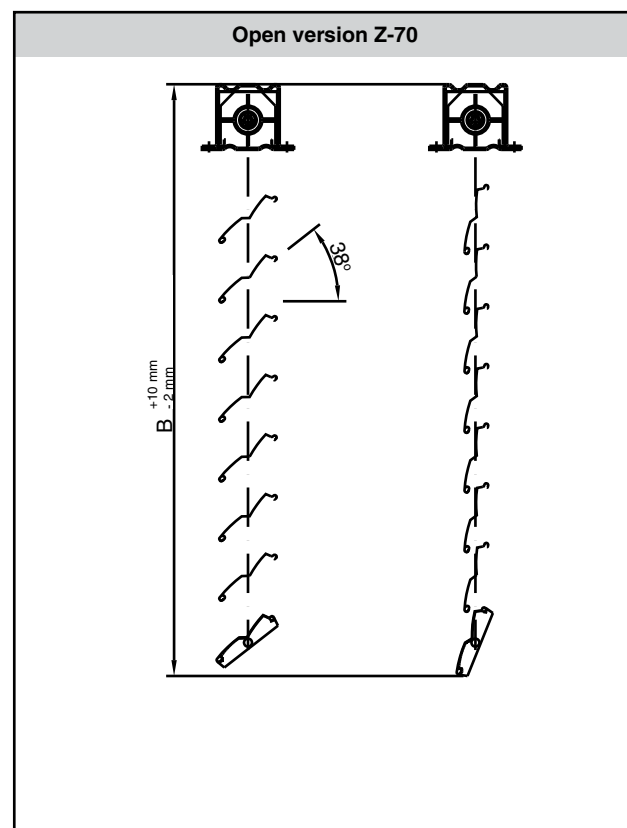
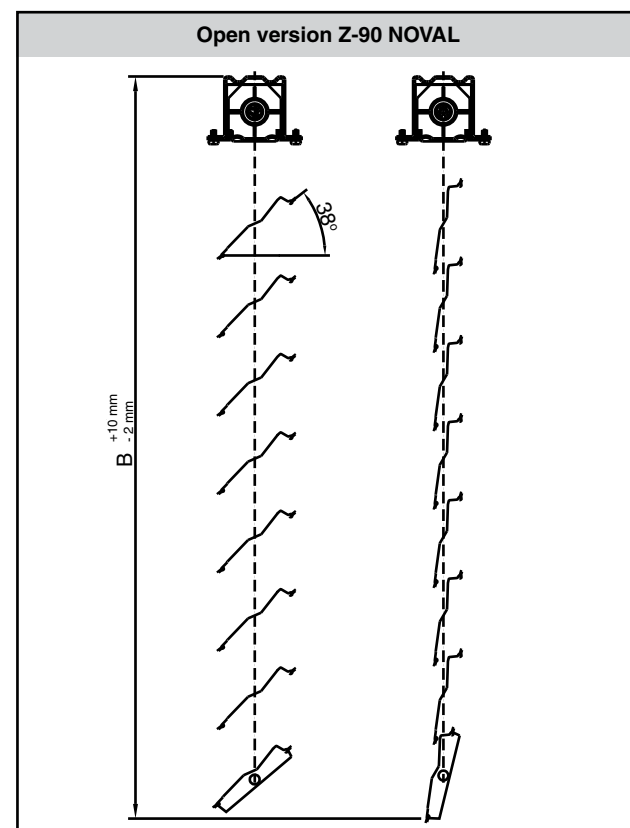
10.14 Open version



Notice: the angles of slat tilting are only approximate values.

Legend:
B – blind height
X – the height of slat segmentation

10.14 Open version

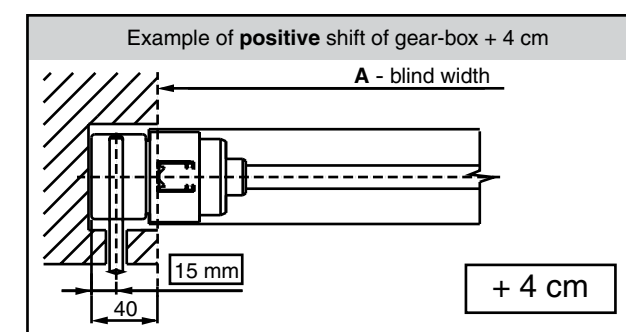
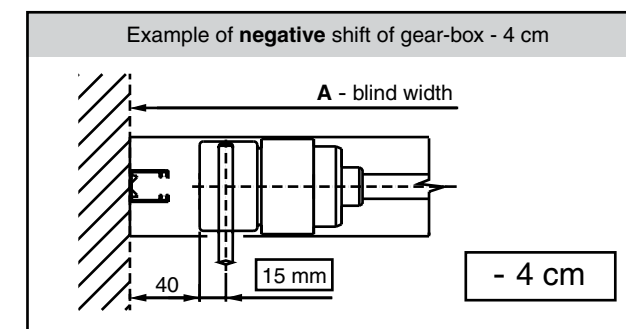
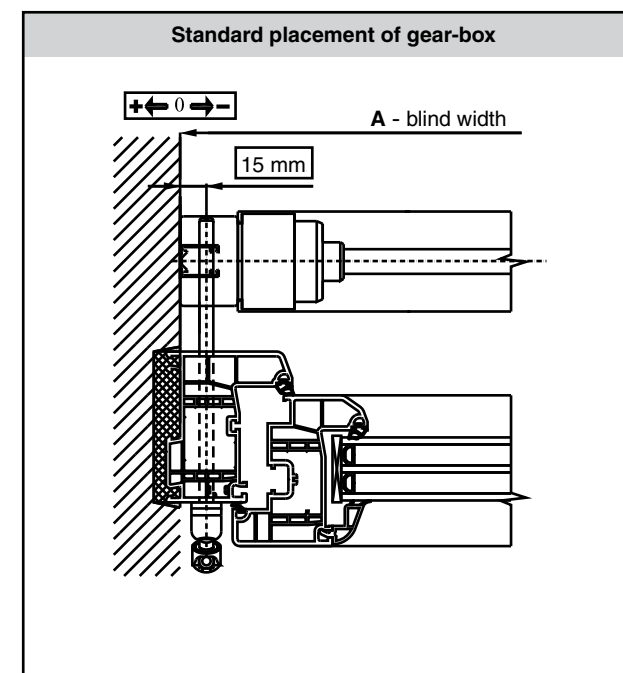


Legend:
B - blind height

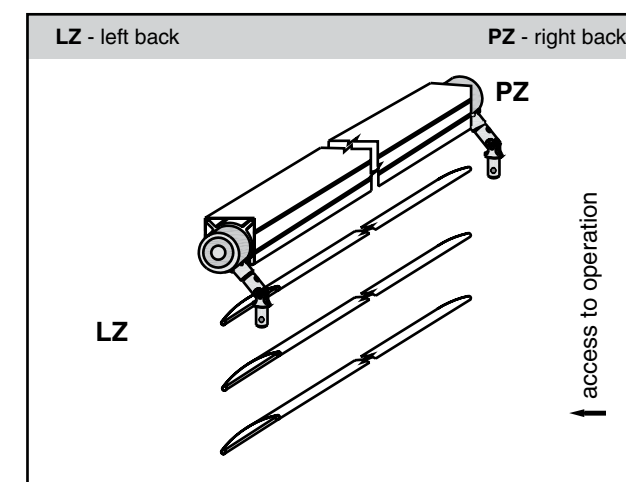
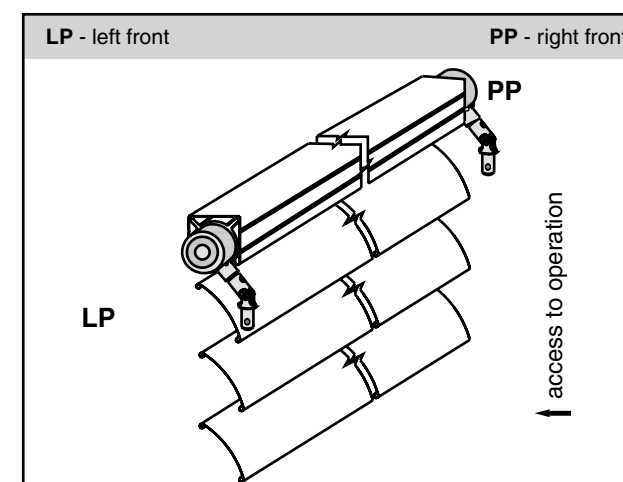
Notice: the angles of slat tilting are only approximate values.

Open version - When the blind is pulled down, the slats are always open at angle of 38°, to tilt the slats is possible only when the blind reaches the bottom end position. When the blind is retracted, the slats are always in the open position.

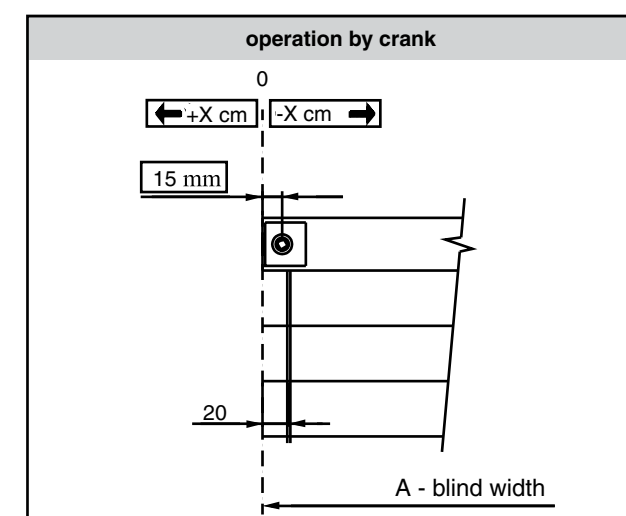
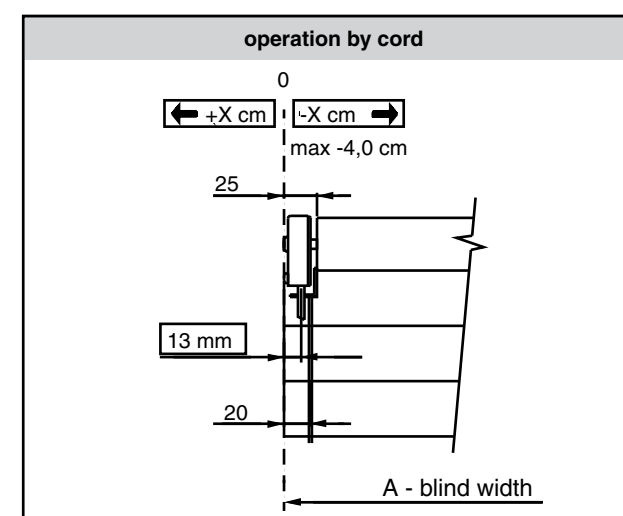
10.10 Standard placement of gear-box, shift of gear-box C, Z, F, EXT-50 H



Determination of side of operation of the interior gear-box



10.11 Standard placement of gear-box, shift of gear-box EXT-50



10.16 Calculation of mounting space for holders for external blinds C, Z, F

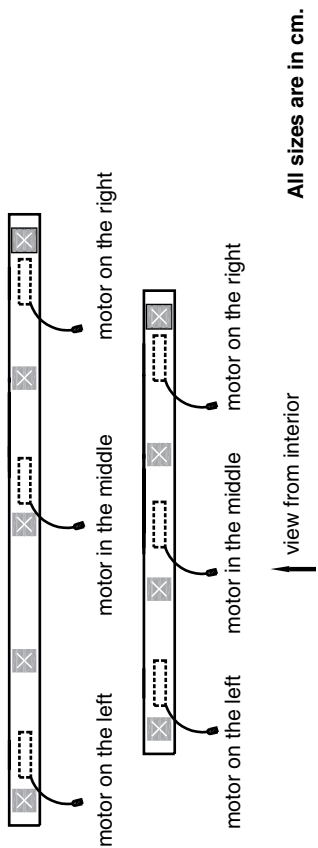
Number of reels	2		3		4		5		6	
	width A	height B	width A	height B	width A	height B	width A	height B	width A	height B
50 - 250 cm	50 - 120 cm	130 cm	140 cm	150 - 200 cm	210 - 220 cm	230 - 240 cm	250 - 280 cm	290 - 310 cm	320 - 340 cm	350 - 400 cm
	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails
260 - 300 cm	50 - 120 cm	130 cm	140 cm	150 - 200 cm	210 - 220 cm	230 - 240 cm	250 - 280 cm	290 - 310 cm	320 - 340 cm	350 - 400 cm
	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails
310 - 500 cm	50 - 120 cm	130 cm	140 cm	150 - 200 cm	210 - 220 cm	230 - 240 cm	250 - 280 cm	290 - 310 cm	320 - 340 cm	350 - 400 cm
	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails	guiding in guide rails

Legend:

A - blind width
B - blind height
C - distance between single reels (measured in the middle of the tape)
- reeler (width 8 cm)

Notice:

* - applies only for motor-operated blinds
When exceeding the upper limit dimensions, the values may differ.
Place the holder MD1 off-axis of the reeler, closer to the operation.



10.15 Slat perforation

Type 055-200

Type 11-200

Type 13-250

Type 18-354

Type 20-425

10.18 Wind resistance of external blinds

Classes of wind resistance were assigned on the basis of tests carried out at Civil Engineering Centre (Centrum stavebního inženýrství) in Zlín in accordance with the standard ČSN EN 13 659.

Blind type	C-80, C-80 VENTAL/ C-80 CC		Z-90 NOVAL		Z-70		F-80			EXT-50 / EXT-50 H	
Blind width	do 240 cm	241-500 cm	do 240 cm	241-500 cm	do 240 cm	241-500 cm	do 200 cm	201-300 cm	301-350 cm	do 200 cm	201-250 cm
Wind resistance	6	4	6	5	5	4	3	2	1	3	2
Max. wind speed (km/h)	90	60	90	75	75	60	45	35	30	45	35
Wind resistance class based on Beaufort scale	10	7	10	9	9	7	6	5	5	6	5

In case of blinds with the mentioned widths, deflection caused by wind pressure load will not lead to any permanent deformation over 5 thousandths, will not adversely affect assembly functionality or create the risk of release from the guide elements. The stated classes of wind resistance, or the wind speed, are valid for the product while pulled down and with closed slats, and provided that the wind is heading to the blind surface at a right angle with a minimum dynamic effect.

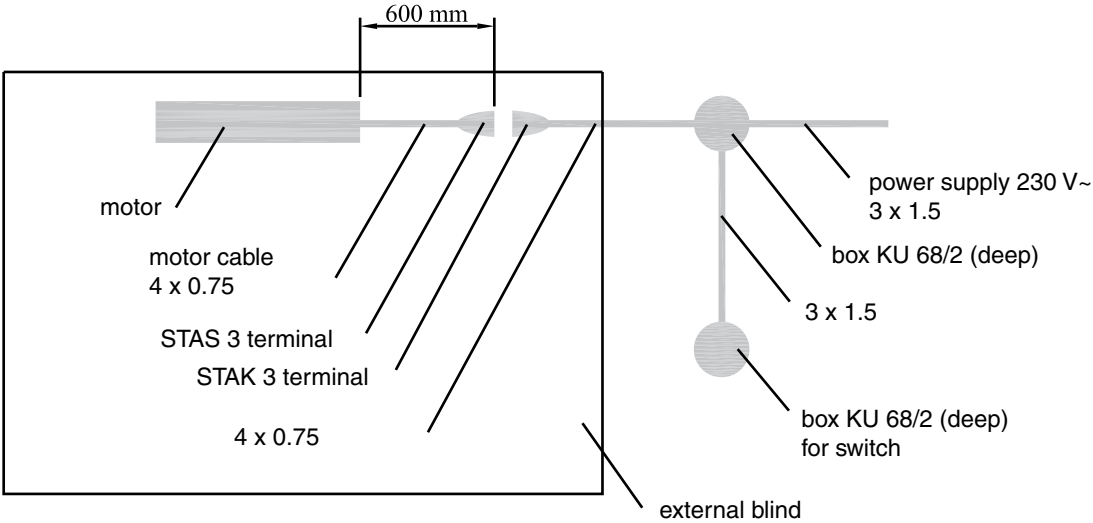
In case of wind exceeding 36 km/h, it is highly recommended to retract the blind and not to manipulate with it any more as it might result in damaging it.

Judging wind speed using the Beaufort scale

Beaufort scale					
Wind resistance class	Beaufort class	Wind speed [km/h]	Wind type	Wind characteristics	Wind resistance class acc. to UNI EN 13561 A 1932
0	0	0 to 1	calm	Smoke rises vertically.	
	1	2 to 5	light air	Smoke drift indicates wind directions, vanes do not move.	
	2	6 to 11	light breeze	Wind felt on face; leaves rustle; vanes begin to move.	
	3	12 to 19	gentle breeze	Leaves, small twigs in constant motion; light flags extended.	
	4	20 to 28	moderate breeze	Dust, leaves and loose paper raised up; small branches move.	
1	5	29 to 38	fresh breeze	Small trees begin to sway.	Value corresponds to class 2
2	6	39 to 49	strong breeze	Lagre branches of trees in motion; whistling heard in wires.	Value corresponds to class 3
3	7	50 to 61	moderate gale	Whole trees in motion; resistance felt in walking against the wind.	
4	8	62 to 74	fresh gale	Twigs and small branches broke off trees; walking in straight position against the wind is not possible.	
5	9	75 to 88	strong gale	Slight structural damage occurs; slate, chimneys blown from roofs.	
6	10	89 to 102	whole gale	Seldom experienced on land; trees broken, structural damage occurs.	
	11	103 to 117	storm	Widespread damage on land.	
-	12	more than 118	hurricane	Severe widespread damage to vegetation and structures. Debris and unsecured objects are hurled about.	

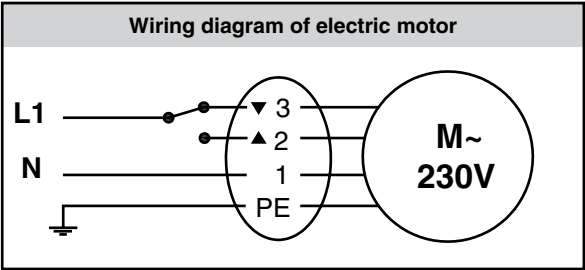
10.17 Electrical wiring

Building readiness for electrical wiring

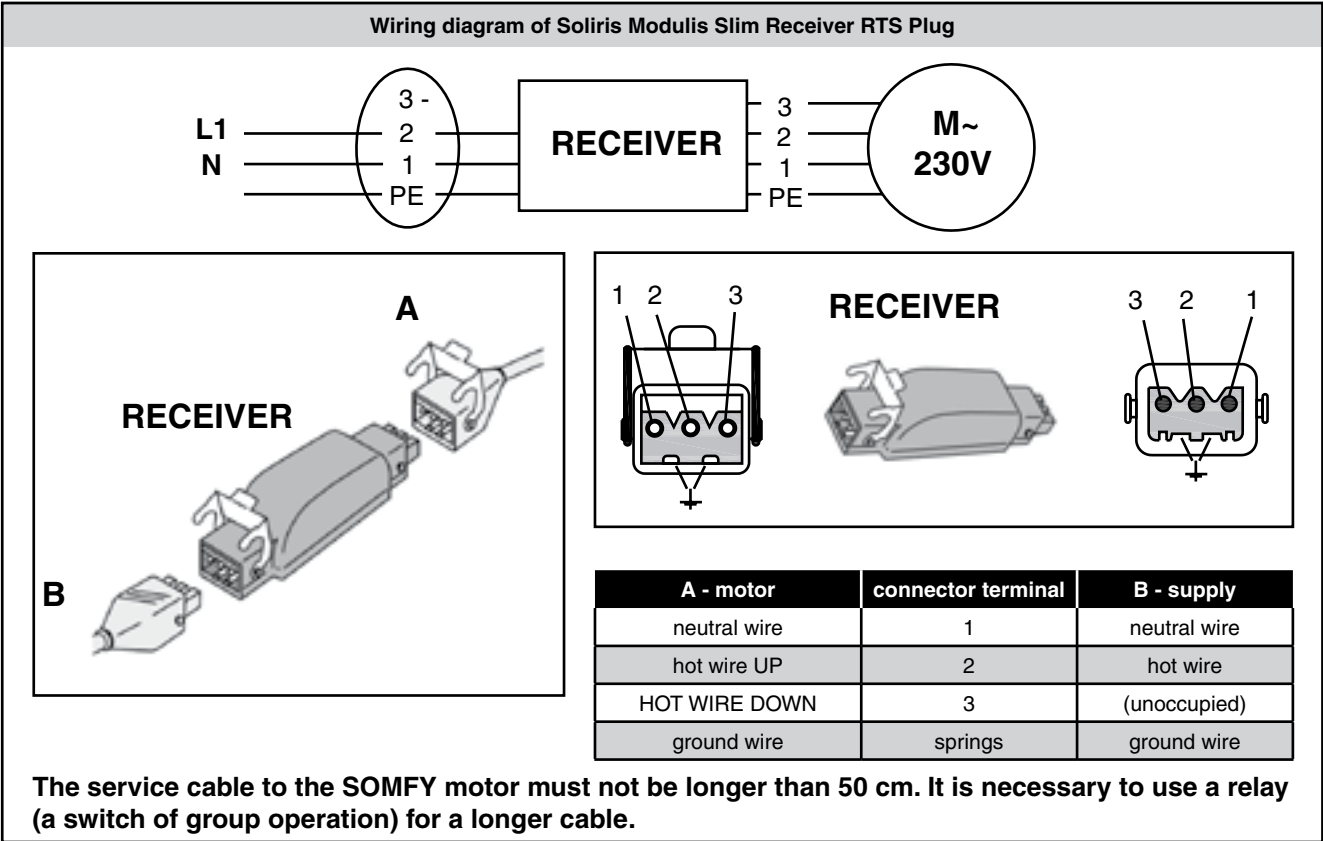


Motor and STAS terminal wiring

- The supply cable 600 mm long is terminated with a STAS terminal.
- The wiring shall be carried out by a skilled person.



connector terminal	
1	blue neutral wire
2	black hot wire
3	brown hot wire
PE	yellow/green ground wire



1.4 Standard colours of slats C, Z, F

SLAT NUMBER	PAINT	DESCRIPTION	RAL	VSR	C-80/CC	C-80 VENTAL	Z-90 NOVAL	Z-70	F-80
010	H	white	9003	010	■	-	■	■	-
9010	H	white	9010	-	■	■	■	■	■
140	S	silver (structured)	9006	140	■	-	■	■	-
140	H	silver	9006	140	■	■	■	■	■
9007	H	grey (silver)	9007	907	■	■	■	■	■
DB 703	H	dark grey	-	-	■	■	■	■	■
130	H	grey	7038	130	■	-	■	-	-
240	H	light beige	-	240	■	-	■	-	-
220	H	dark green	6005	220	■	-	■	-	-
780 H	H	bronze light	-	780	■	-	■	-	-
780 D	H	bronze dark	-	780	■	-	■	-	-
071	H	brown	8028	071	■	-	■	-	-
7022	H	grey	7022	-	■	-	■	■	■
7016	H	black (anthracite)	7016	-	■	■	■	■	■
905	H	black	9005	-	■	-	■	-	-
110	H	beige	-	110	■	-	■	-	-
440	H	azure blue	5009	440	■	-	■	-	-
330	H	purple red	3011	330	■	-	■	-	-
120	H	terracotta	3013	120	■	-	■	-	-
720	H	chrome yellow	1007	720	■	-	■	-	-
904	H	light grey	7035	904	■	-	■	-	-
909	H	green beige	1000	909	■	-	■	-	-
908	H	turquoise blue	5018	908	■	-	■	-	-
903	H	light grey-blue	5014	903	■	-	■	-	-
906	H	ultramarine blue	5002	906	■	-	■	-	-
9010 M*	H	grey	9010	-	■	-	■	-	-
140 M*	H	silver	9006	140	■	-	■	-	-
9007 M*	H	grey (silver)	9007	907	■	-	■	-	-
DB 703 M*	H	dark grey	-	-	■	-	■	-	-
7016 M*	H	black (anthracite)	7016	-	■	-	■	-	-

* Meco protect – self-cleaning slat

1.4.1 Standard colours of slats EXT-50 H, EXT-50

SLAT NUMBER	PAINT	DESCRIPTION	RAL	VSR
1	H	white (signal)	(9003)	010
12	H	light grey	-	904
13	H	grey (agate)	7038	-
14	H	silver (aluminium)	9006	140
14SP	SP	silver (aluminium)	9006	140
22	H	coffee	-	240
36	H	ivory	1013	-
44	H	wood imitation	-	-
49	H	black	9004	-
190	S	silver brocade	-	140
191	S	flint grey	(9007)	-
380	H	dark grey	7043	-
702	H	light green	-	-
950	H	brushed silver-grey	-	-

Legend:

H - smooth paint

S - structured paint

SP - half-perforated smooth paint

Note: Each colour VSR is matched to the closest colour shade of the RAL collection. Slat colours - gloss 60%, other painted components - gloss 80%.



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