



TECHNICAL MANUAL

EXTERIOR BLINDS

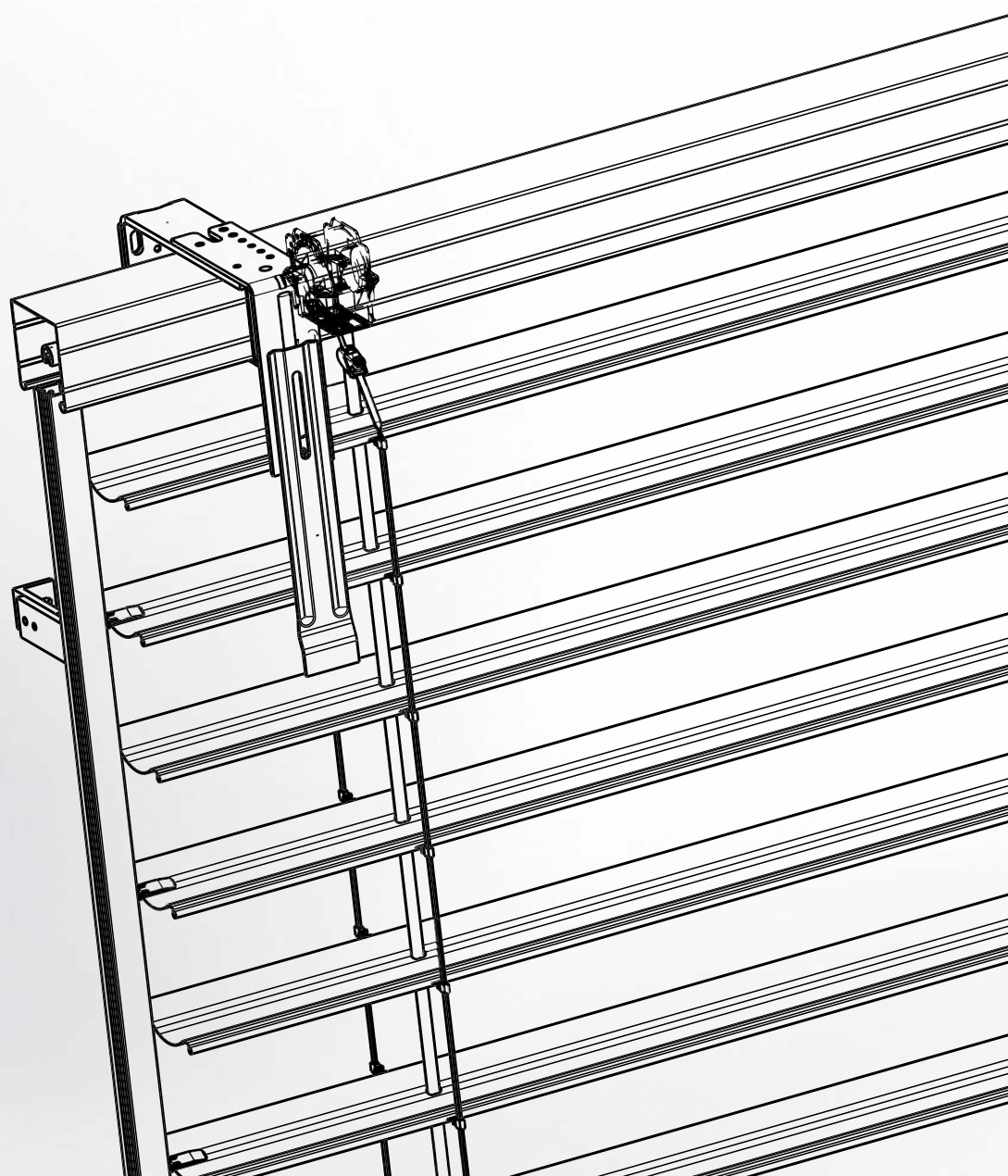


Tableau de matières - Stores d'extérieur

Désignation des produits CE	3	Variantes de réalisation	21 - 32
Spécification technique principale	4	Système DUO	21 - 22
Hauteurs de paquet	4	Stores de façade	23 - 27
Stores d'extérieur Cetta 50	5	Stores autoportants	28
Fiche technique du produit	6	Stores sur le linteau	29 - 31
		Stores couplés	32
Stores d'extérieur Cetta 65	7	Accessoires	33 - 43
Fiche technique du produit	8	Types des lambrequins	33 - 34
Stores d'extérieur Cetta 80	9	Supports pour les types de	
Fiche technique du produit	10	lambrequins principaux	35 - 39
		Supports pour lambrequins atypiques	40 - 43
Stores d'extérieur Cetta 80-Slim	11	Guidage par coulisses	44 - 50
Fiche technique du produit	12	Guidage par câble	51
Stores d'extérieur Cetta 80 – Flexi	13	Manœuvre par manivelle	52 - 54
Fiche technique du produit	14	Manœuvre par moteur	55 - 56
Stores d'extérieur Setta 65	15	Prise des mesures	57
Fiche technique du produit	16	Montage	58 - 61
		Coupes schématiques	62 - 71
Stores d'extérieur Setta 90		Bon de commande	72 - 77
Fiche technique du produit			
Stores d'extérieur Zetta 70	17		
Fiche technique du produit	18		
Stores d'extérieur Zetta 90	19		
Fiche technique du produit	20		

ISOTRA*Quality*

A mark symbolising long tradition, inestimable investment into development, the use of quality materials, state-of the-art technologies, reliable work from hundreds of employees and numerous other parameters, constituting one entity – the final product of ISOTRA.

CE Product Marking

All exterior blinds of ISOTRA a.s.
comply with the standard ČSN EN 13659+A1:2009

European Marking of CE Compliance – marking on products

		
ISOTRA a.s. Bílovecká 2411/1, 746 01 Opava Czech Republic Company Registration No.: 47679191		
12		
EN 13659+A1:2009		
Exterior shutters (outside Venetian blinds) with manual or motor-driven operation, Typee: CETTA 50, CETTA 65, SETTA 65, CETTA 80, ZETTA 70, ZETTA 90, SETTA 90, FLEXI 80 - designed as fore-window aperture panes of external structures of building envelopes		
Wind resistance: technical class 6 (5,4,2,1)		

Note: CE marking applies only to equipment release and condition.

Wind Resistance of Exterior Blinds

The wind resistance tests were conducted by Centrum stavebního inženýrství, a.s., Zlín, according to standard ČSN EN 13659+A1:2009.

CETTA 50	Width (m)	
	up to 2,20	2,21 - 3,15
Technical class / max wind speed (km/h)	4 / (58)	2 / (38)

CETTA 65	Width (m)	
	up to 2,20	2,21 - 4,00
Technical class / max wind speed (km/h)	6 / (90)	4 / (58)

CETTA 80	Width (m)	
	up to 2,40	2,41 - 4,00
Technical class / max wind speed (km/h)	6 / (90)	4 / (58)

CETTA 80-FLEXI	Width (m)		
	up to 2,20	2,21 - 3,15	3,16 - 4,00
Technical class / max wind speed (km/h)	4 / (58)	2 / (38)	1 / (32)

SETTA 65	Width (m)	
	up to 2,20	2,21 - 4,00
Technical class / max wind speed (km/h)	4 / (58)	4 / (58)

SETTA 90	Width (m)	
	up to 2,40	2,41 - 4,00
Technical class / max wind speed (km/h)	6 / (90)	4 / (58)

ZETTA 70	Width (m)	
	up to 2,20	2,21 - 4,00
Technical class / max wind speed (km/h)	6 / (90)	4 / (58)

ZETTA 90	Width (m)	
	up to 2,40	2,41 - 4,00
Technical class / max wind speed (km/h)	6 / (90)	5 / (74)

Basic Technical Specification

Engineering Limit Values

Type	Width (mm)		Height (mm)	Area (m²)			Guidance	Slat Weight (kg per m²)	Blind Weight (kg per m²)	Holder Weight (kg per m²)	6 Nm Motor Weight (kg)
	max.	min.	max.	Cord	Handle	Motor					
Cetta 50	3150	400	3000	6	8	10	without / wire	0,76	2,1	0,087	1,84
Cetta 65	4000	600	4000	-	8	16	wire / channel	1,44	3,42	0,35	
Setta 65	4000	600	4000	-	8	16	channel	1,59	3,57		
Cetta 80 (Cetta 80 -Slim)	4000	600	4000	-	8	16	wire / channel	1,54	3,47		
Cetta 80 Flexi				-	8	16	wire / channel	1,12	3,55		
Zetta 70				-	8	16	channel	1,60	3,55		
Zetta 90				-	8	16	channel	1,56	3,53		
Setta 90				-	8	16	channel	1,66	3,63		

Note:

Two guidance types (wire / guiding channel) can be combined, or Venetian blind with no guidance can be chosen, for some Venetian blind types.

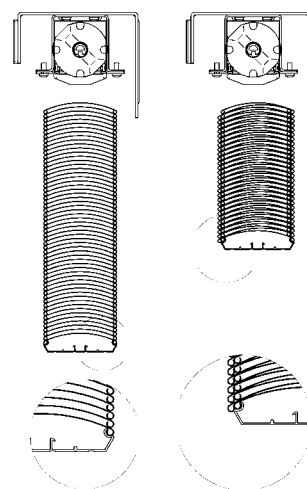
Warning:

Inclined slat operation cannot be avoided with small width.

Wound Up Venetian Blind Height Including Head Rail and Bottom Rail



Cetta 80-Slim
Visible packet saving
in comparison with Cetta 80.



Blind Type	Coiling Height Based on Blind Height (mm)																	
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
Cetta 50 - channel	130	135	145	160	170	180	190	200	210	220	230	240	250	265	275	280	295	305
Cetta 50 - wire	85	90	95	100	100	105	110	110	115	120	120	125	125	130	135	140	145	145
Cetta 65	135	145	155	160	165	175	185	190	195	205	215	220	230	235	245	250	260	265
Cetta 80 - Flexi - channel	120	125	125	130	135	140	145	150	150	155	160	165	170	170	175	180	185	185
Cetta 80 - Flexi - wire	110	115	115	120	120	125	130	130	135	135	140	140	145	145	150	150	155	155
Cetta 80	130	140	145	155	155	165	170	180	185	190	195	205	210	215	225	230	235	240
Cetta 80-Slim	125	135	135	145	150	155	160	165	170	180	180	190	195	195	205	205	215	220
Setta 65	135	145	150	160	170	175	185	190	195	205	215	220	230	240	245	250	260	265
Setta 90	125	135	140	145	150	155	165	170	170	175	185	190	195	200	205	215	215	220
Zetta 70	135	140	145	155	165	165	175	185	190	195	205	210	220	225	230	240	245	250
Zetta 90	125	135	140	145	150	160	165	170	170	180	185	190	195	205	210	215	215	225

Blind Type	Coiling Height Based on Blind Height (mm)																	
	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
Cetta 50 - channel	315	325	335	350	355	365	380	385	400	410	420	430	440	450	460	470	485	495
Cetta 50 - wire	150	155	160	170	175	180	185	195	200	205	210	215	220	225	230	235	235	235
Cetta 65	270	280	290	300	300	310	320	325	335	340	350	355	365	375	380	385	395	405
Cetta 80 - Flexi - channel	190	195	200	205	210	210	215	220	225	225	230	235	240	245	245	250	255	260
Cetta 80 - Flexi - wire	160	160	165	165	170	170	175	175	180	180	185	185	190	190	195	195	200	200
Cetta 80	250	255	265	265	275	280	290	295	300	305	315	320	325	335	340	345	350	360
Cetta 80-Slim	225	230	235	240	250	250	260	265	270	275	280	285	290	295	300	305	310	320
Setta 65	275	285	290	300	305	310	320	330	335	345	355	360	365	375	380	390	400	405
Setta 90	225	235	240	245	250	255	260	265	270	275	285	290	295	300	305	310	315	320
Zetta 70	260	270	270	280	290	295	300	310	315	325	330	335	345	350	355	365	375	375
Zetta 90	230	235	240	250	255	260	260	270	275	280	285	295	300	305	305	315	320	325

Note: For Cetta 50 (motor), the coiling height will change by +40 mm. For Cetta 65, 80, 80-Flexi and Zetta 70 a 90 (motor), the coiling height will change by +20 mm. The coiling heights are approximate values which can deviate positively or negatively for technical reasons.

Cetta 50



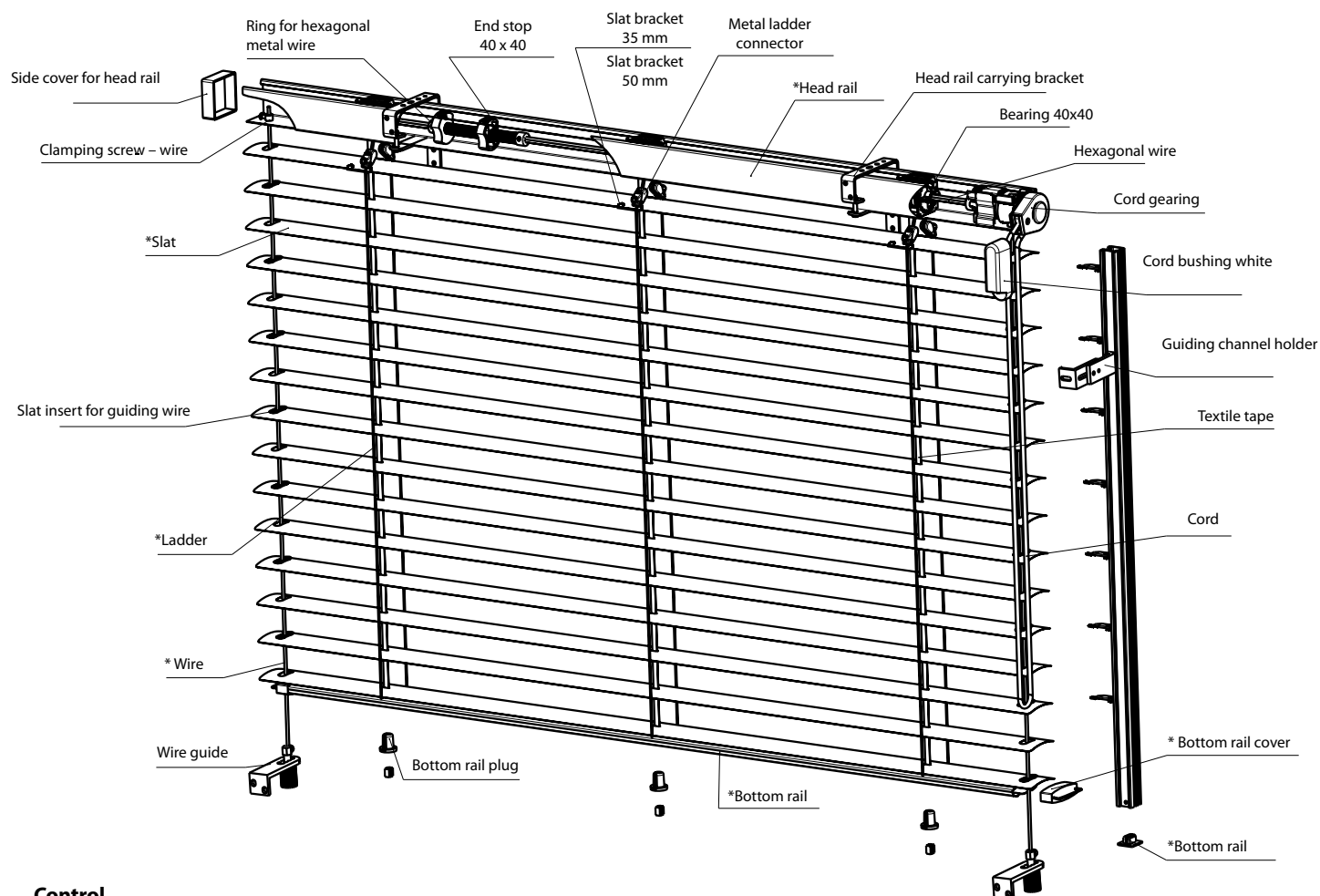
SLAT SHAPE

- Suitable for shading small areas
- Optional assembly in interior
- Electrical control option

ISOTRA *Quality*

Cetta 50

Basic Product Specification



Control

Used for pulling the blind up and down and setting the slat

2-00152-0000-C

Cord - a plastic cord bushing is installed on the window frame from the interior, which protects the cord against abrasion. The head rail is shortened by 20 mm against the required length from the control side in order to facilitate the cord gearing installation (color: black-white).

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Specification

	Head Rail			Bottom Rail	Slat	Side Guidance		Ladder	Textile tape	Installation
	Cord/Handle	Motor	Motor			Steel Wire	Guiding Channel			
Commercial Name Dimension (mm) Material	P 528 40 x 40 Fe	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 508 49 x 12 Fe	P 529 0,23 x 50 Al	P 501 ø 2,2 Fe/PVC	See Chapter "Guidance" for guiding channel alternatives	P 509 42 x 54 PES	P 531 6 x 0,28 PES	See chapter „Installation“ on page 63-66 for installation alternatives.
Color	Standard: RAL 9003 White RAL 9006 Silver galvanized (Fe profil); natural (Al profil) Other RAL colors sprayed Galvanized steel plate or anodized aluminum for motor alternative.				According to current ISOTRA a.s. scheme	grey	Basic design – anodized Varnished in RAL colors	grey white	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
400	3150	3000	6 m ² (Cord control)
400	3150	3000	8 m ² (Handle control)
600	3150	3000	10 m ² (Motor control)

Cetta 65



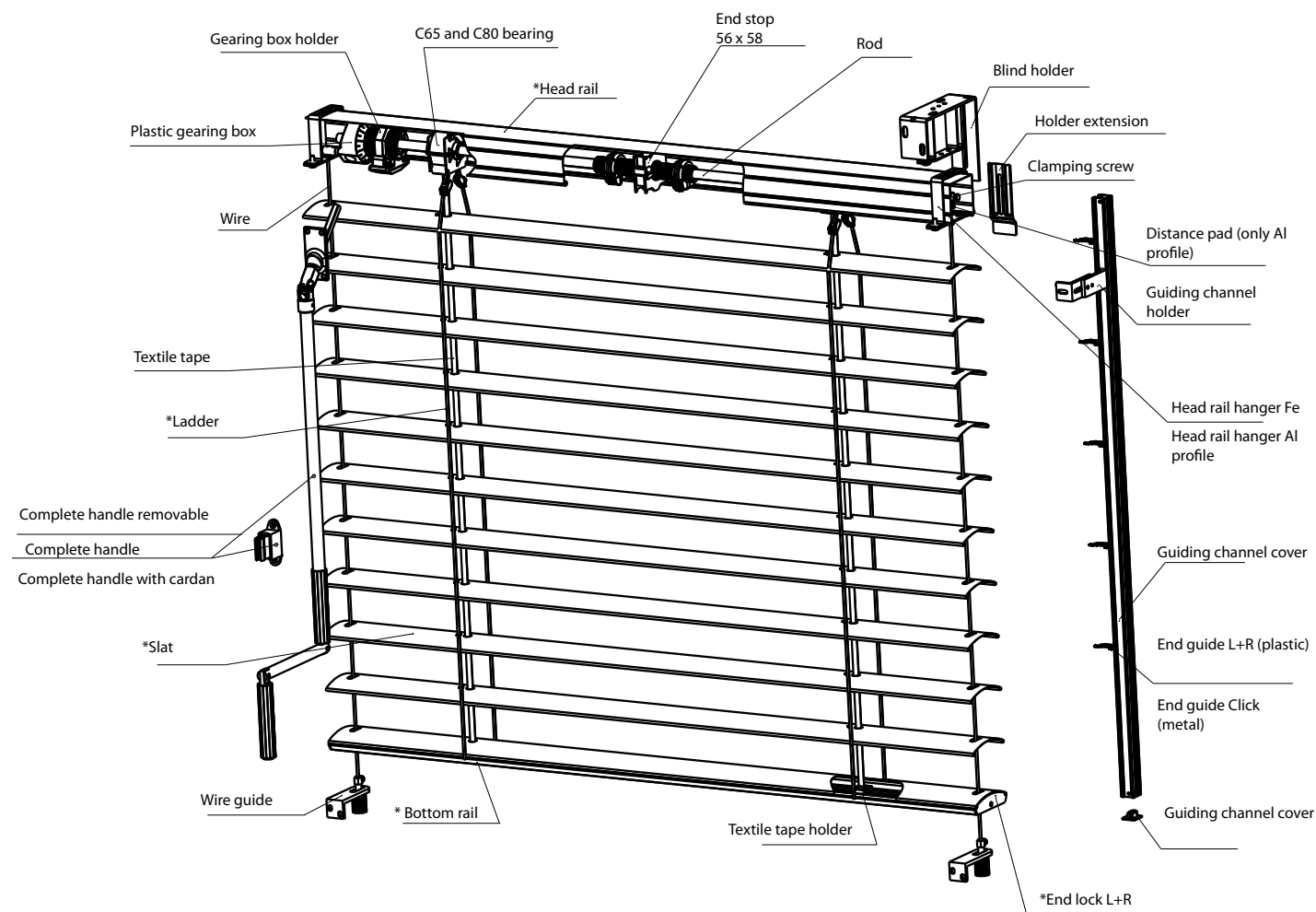
SLAT SHAPE

- Bottom rail made of extruded aluminum
- Higher slat rigidity
- Electrical control option

ISOTRA *Quality*

Cetta 65

Basic Product Specification



2-00171-XXXX-H

Control

Used for pulling the blind up and down and setting the slat

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Specification

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile tape	Installation
					Steel Wire	Guiding Channel			
Commercial Name Dimension (mm) Material	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/2 67 x 13 Al	P 039 0,42 x 83 Al	P 036 ø 3,2 Fe/PVC	See Chapter "Guidance" for guiding channel alternatives	P 030/2 58 x 70 PES	P 028 8 x 0,34 PES	See chapter „Installation“ on page 63-66 for installation alternatives.
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed		Standard: anodized aluminum Other RAL colors sprayed	According to current ISOTRA a.s. scheme	grey	Basic design – anodized Varnished in RAL colors	grey	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	4000	4000	8 m ² (Handle control) 16 m ² (Motor control)

Cetta 80



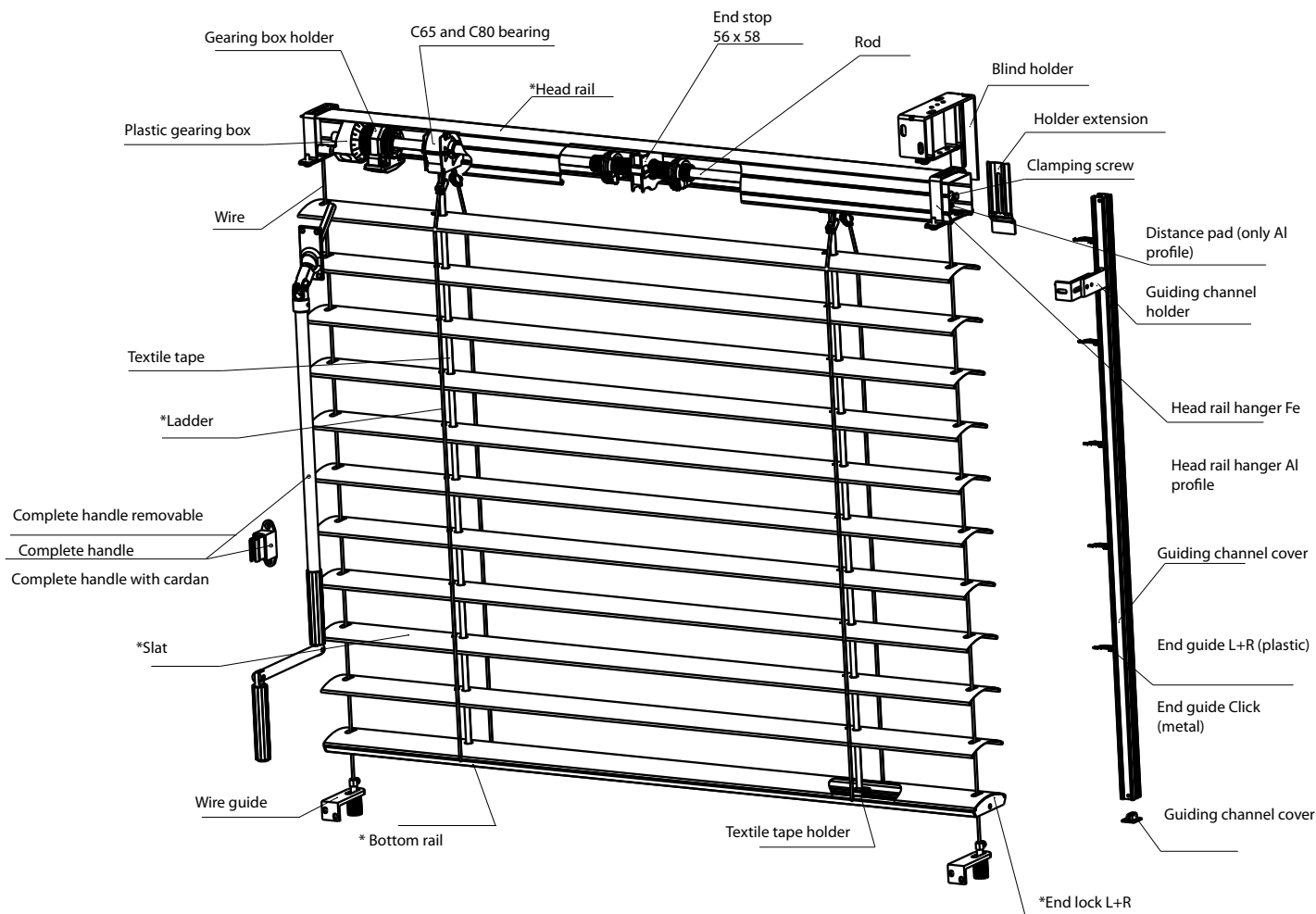
SLAT SHAPE

- Bottom rail made of extruded aluminum
- DUO system – double slat tilting
- Higher slat rigidity
- Electrical control option

ISOTRA *Quality*

Cetta 80

Basic Product Specification



2-00171-XXXX-H

Control

Used for pulling the blind up and down and setting the slat

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Specification

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile tape	Installation
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/3 80 x 13 Al	P 040 0,42 x 98 Al	Steel Wire	Guiding Channel	P 030/1 68 x 85 PES	P 028 8 x 0,34 PES	
Commercial Name									
Dimension (mm)									
Material									See chapter „Installation“ on page 63-66 for installation alternatives.
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed		Standard: anodized aluminum Other RAL colors sprayed	According to current ISOTRA a.s. scheme	grey	Standard: anodized Other RAL colors sprayed	grey	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	4000	4000	8 m ² (Handle control) 16 m ² (Motor control)

Cetta 80 - Slim



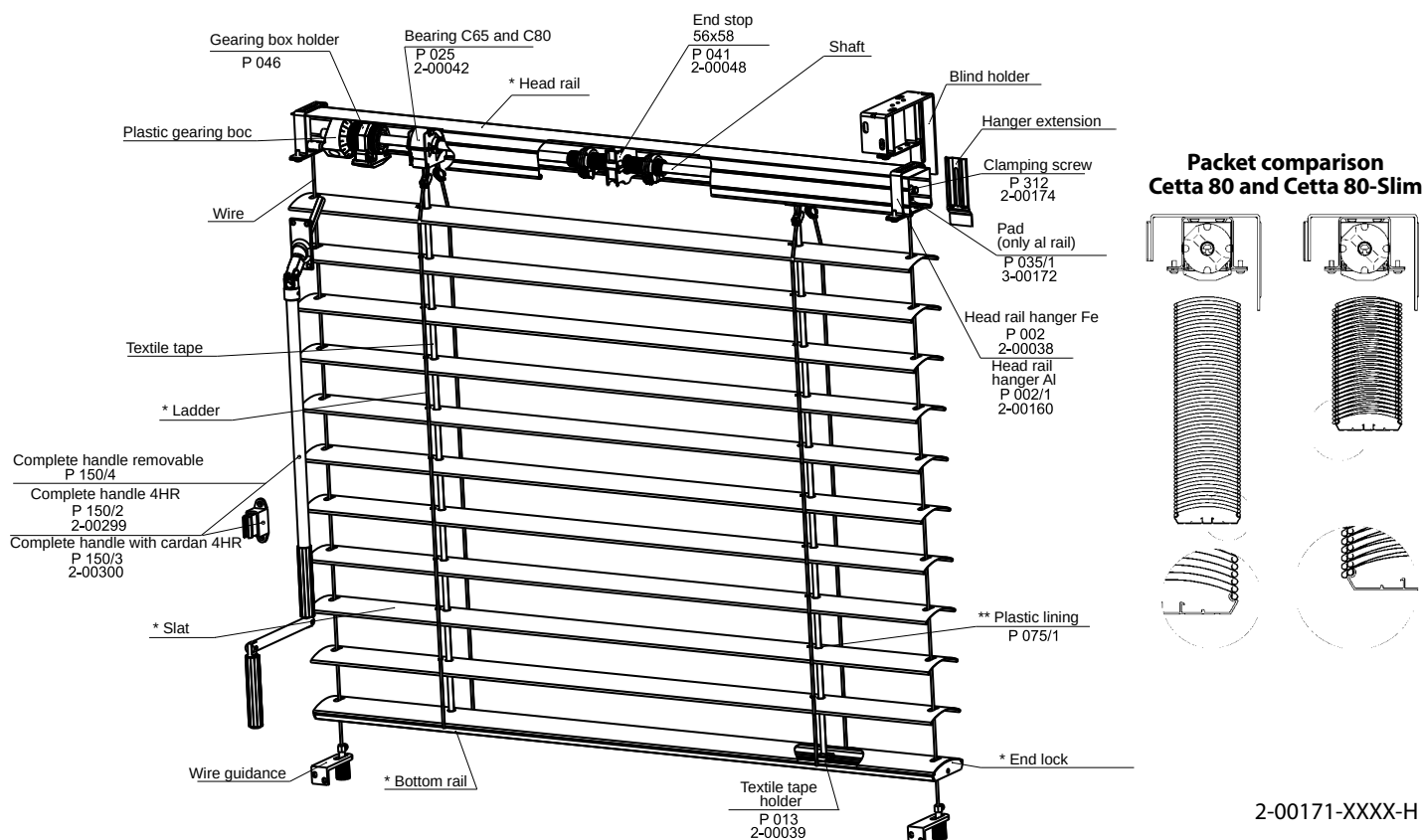
- Low packet height
- Specific assembling of slats
(side alternating overlap of adjacent slats)

TVAR LAMEL

ISOTRA *Quality*

Cetta 80 – Slim

Basic Product Specification



Control

Used for pulling the blind up and down and setting the slat

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Packet comparison Cetta 80 and Cetta 80-Slim

blind type	blind height (mm)																	
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
Cetta 80	130	140	145	155	155	165	170	180	185	190	195	205	210	215	225	230	235	240
Cetta 80-Slim	125	135	135	145	150	155	160	165	170	180	180	190	195	195	205	205	215	220

blind type	blind height (mm)																	
	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
Cetta 80	250	255	265	265	275	280	290	295	300	305	315	320	325	335	340	345	350	360
Cetta 80-Slim	225	230	235	240	250	250	260	265	270	275	280	285	290	295	300	305	310	320

Specification

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile tape	Installation
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/3 80 x 13 Al	P 040 0,42 x 98 Al	Steel Wire P 036 ø 3,2 Fe/PVC	Guiding Channel See chapter „Guidance“ for guiding channel alternatives	P 030/1 68 x 85 PES	P 028 8 x 0,34 PES	See chapter „Installation“ on page 63-66 for installation alternatives.
Commercial Name									
Dimension (mm)									
Material									
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed		Standard: anodized aluminum Other RAL colors sprayed	According to current ISOTRA a.s. scheme	grey	Standard: anodized Other RAL colors sprayed	grey	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	4000	4000	8 m ² (Handle control) 16 m ² (Motor control)

Cetta 80 - Flexi



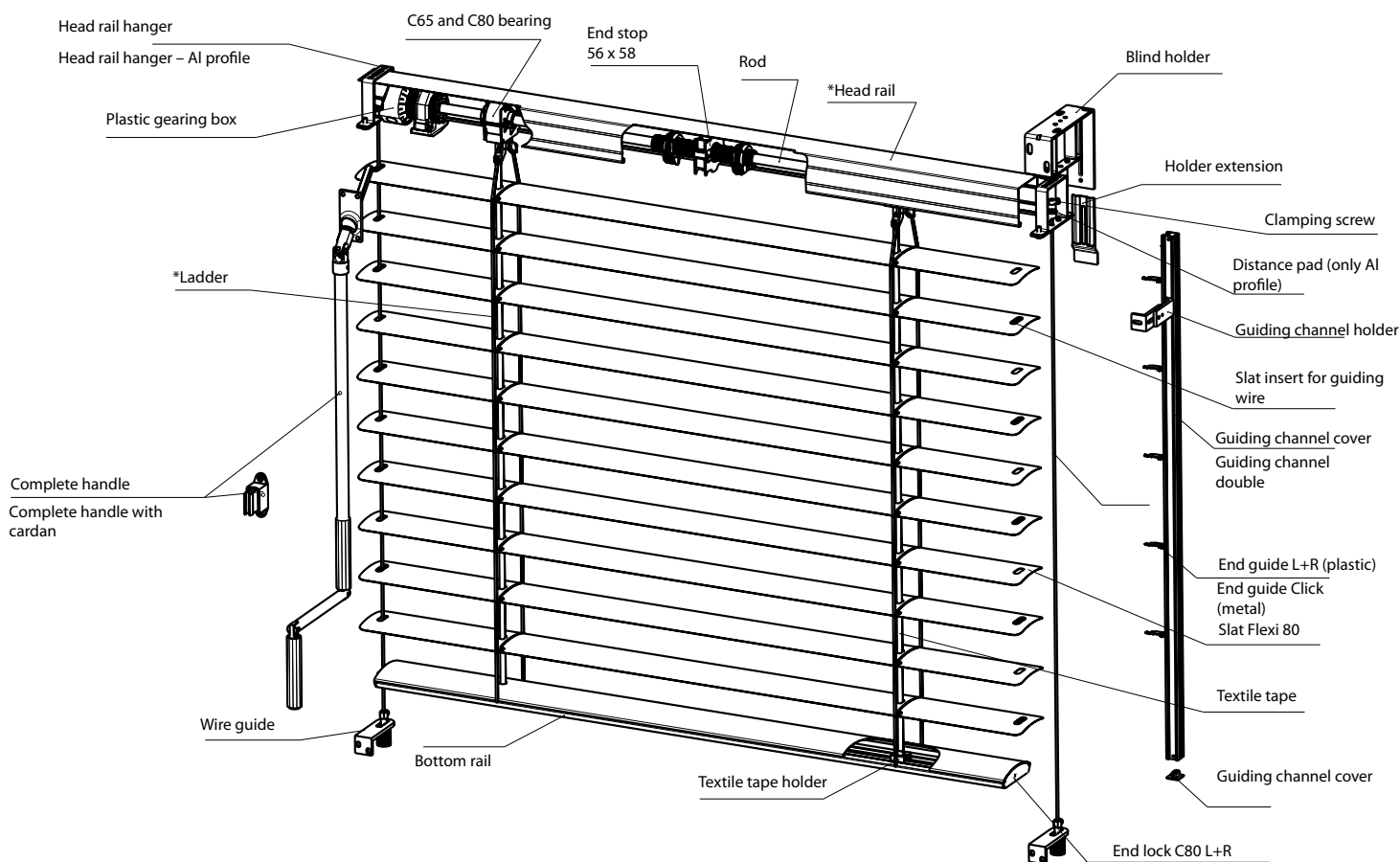
SLAT SHAPE

- Bottom rail made of extruded aluminum
- DUO system – double slat tilting
- Lower blind coiling height
- Electrical control option

ISOTRA *Quality*

Cetta 80 - Flexi

Basic Product Specification



Control

Used for pulling the blind up and down and setting the slat

2-00135-XXXX-B

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Specification

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile tape	Installation
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/3 80 x 13 Al	P 309 0,42 x 80 Al	Steel Wire	Guiding Channel	P 310 72 x 85 PES	P 028 8 x 0,34 PES	See chapter „Installation“ on page 63-66 for installation alternatives.
Commercial Name									
Dimension (mm)									
Material									
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed		Standard: anodized aluminum Other RAL colors sprayed	According to current ISOTRA a.s. scheme	grey	Standard: anodized Other RAL colors sprayed	grey	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	4000	4000	8 m ² (Handle control) 16 m ² (Motor control)

Setta 65



SLAT SHAPE SETTA 65

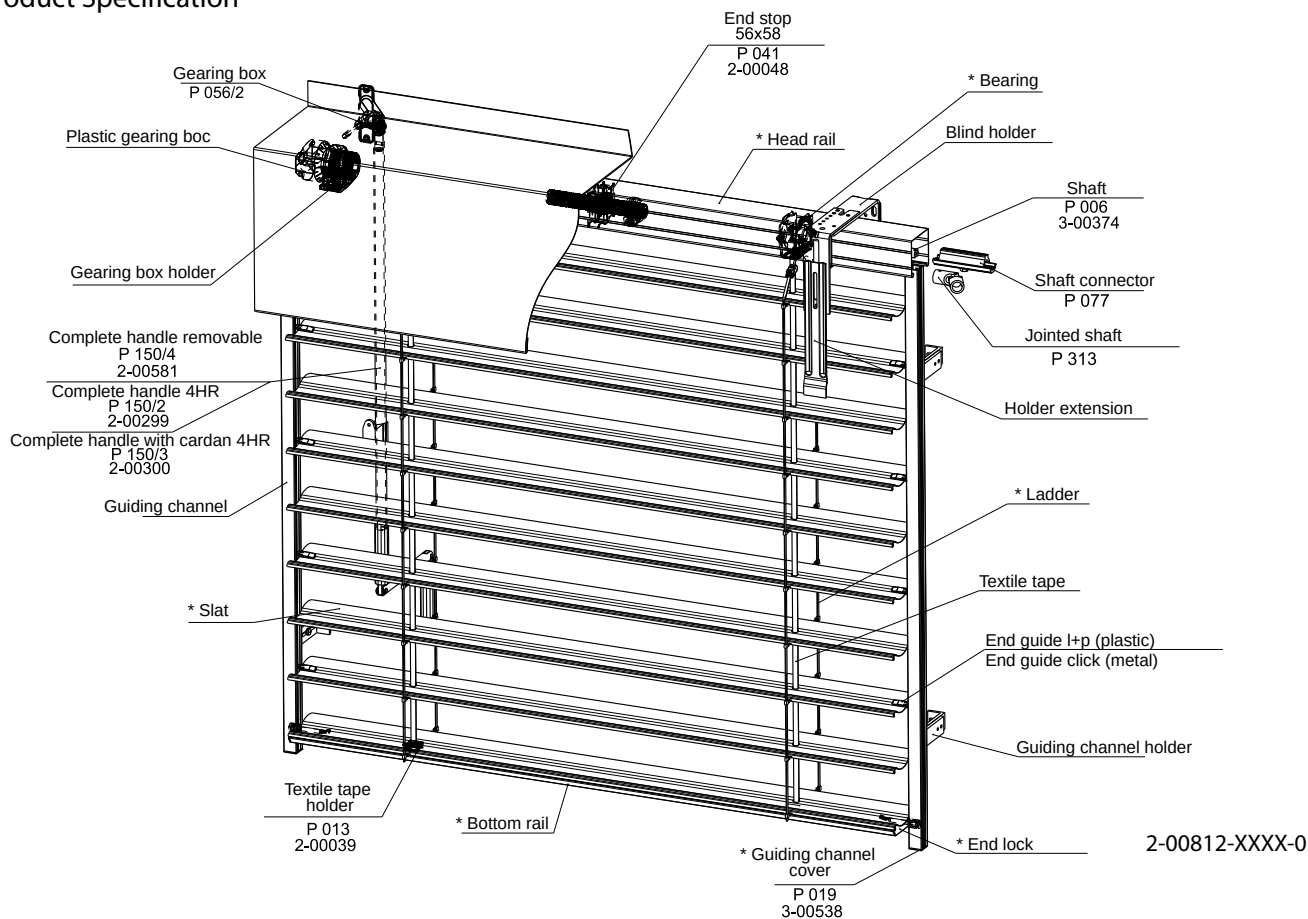


- Elegant slat shape „S“
- Bottom rail made of extruded aluminium
- Electrical control option
- Rubber pressed in along the entire slat width ensure lower

ISOTRA *Quality*

Setta 65

Basic Product Specification



Control

Used for pulling the blind up and down and setting the slat

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Specification

Setta 65	Head Rail		Bottom Rail	Slat	Side Guidance Guiding Channel	Ladder	Textile tape	Installation
Commercial Name Dimension (mm) Material	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/4 67 x 13 Al	S 39/2 0,42 x 83 Al	See Chapter "Guidance" for guiding channel alternatives	P 029/2 60 x 9,5 PES S029/22 PES	P 028 8 x 0,34 PES	See Chapter "Installation" on page 63-66 for installation alternatives
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed		Standard: anodized aluminum Other RAL colors sprayed	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed	grey	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	4000	4000	8 m ² (Handle control) 16 m ² (Motor control)

Setta 90



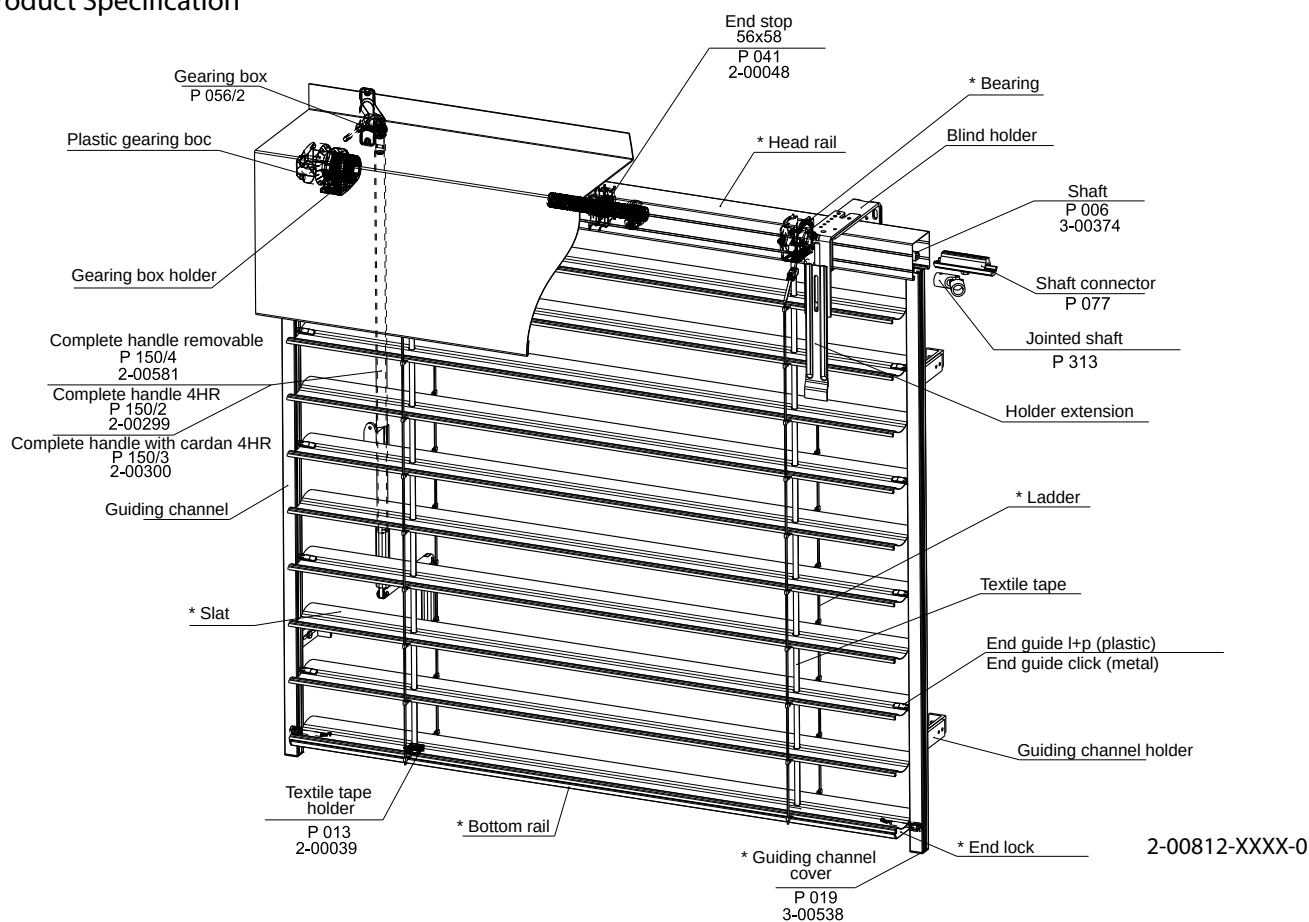
TVAR LAMEL

- Elegant slat shape „S“
- Bottom rail made of extruded aluminium
- Electrical control option
- Rubber pressed in along the entire slat width ensure lower

ISOTRA *Quality*

Setta 90

Basic Product Specification



Control

Used for pulling the blind up and down and setting the slat

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Specification

Setta 90	Head Rail		Bottom Rail	Slat	Side Guidance Guiding Channel	Ladder	Textile tape	Installation
Commercial Name Dimension (mm) Material	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/1 93 x 14 Al	S 37/2 0,42 x 113 Al	See Chapter "Guidance" for guiding channel alternatives	S029/1 86 x 9,5 PES S029/21 PES	P 028 8 x 0,34 PES	See Chapter "Installation" on page 63-66 for installation alternatives
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed		Standard: anodized aluminum Other RAL colors sprayed	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed	grey	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	4000	4000	8 m ² (Handle control) 16 m ² (Motor control)

Zetta 70



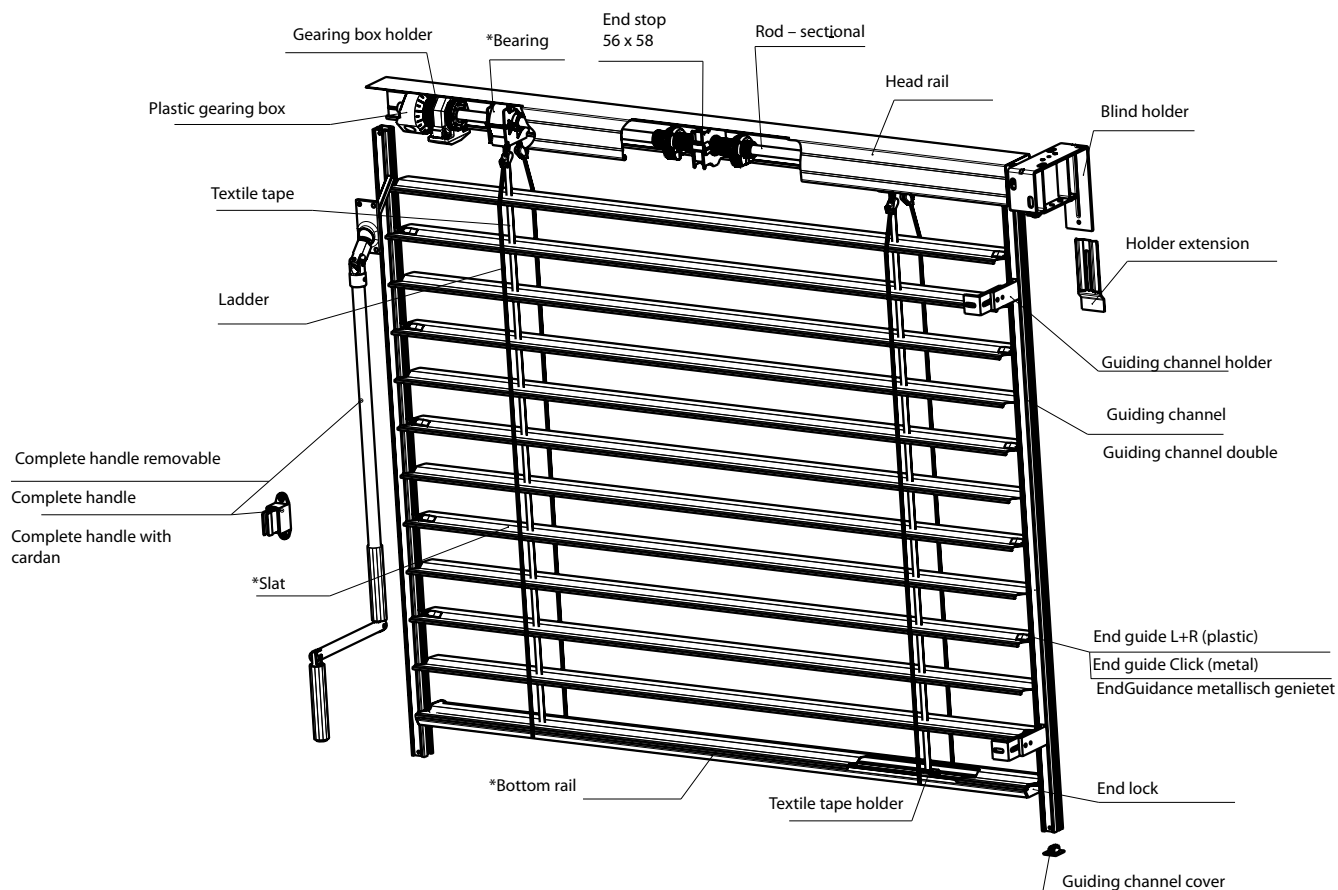
SLAT SHAPE

- High degree of shading
- Thermo-regulating and protecting effect
- Outside noise level reduction
- Bottom rail made of extruded aluminum
- Electrical control option
- Rubber pressed in along the entire slat width

ISOTRA *Quality*

Zetta 70

Basic Product Specification



2-00157-XXXX-E

Control

Used for pulling the blind up and down and setting the slat

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Specification

	Head Rail		Bottom Rail	Slat	Side Guidance Guiding Channel	Ladder	Textile tape	Installation
Commercial Name	P 001	P 001/2	P 012/2	P 038	See Chapter "Guidance" for guiding channel alternatives	P 029/2	P 028	See Chapter "Installation" on page 63-66 for installation alternatives
Dimension (mm)	56 x 58	58 x 60	67 x 13	0,42 x 83		60 x 9,5	8 x 0,34	
Material	Fe	Al	Al	Al		PES	PES	
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed		Standard: anodized aluminum Other RAL colors sprayed	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed	grey	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	4000	4000	8 m² (Handle control) 16 m² (Motor control)

Zetta 90



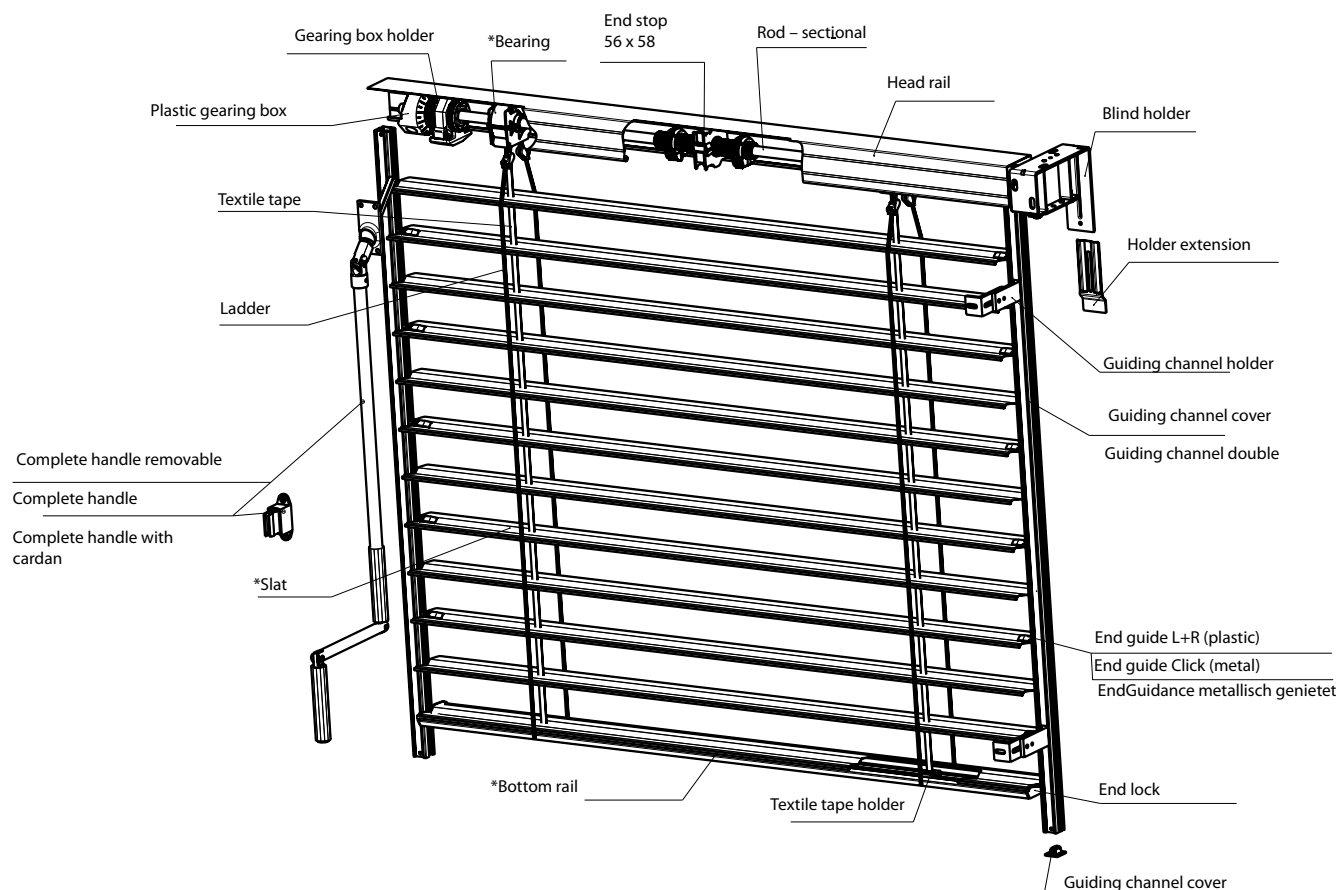
SLAT SHAPE

- High degree of shading
- Thermo-regulating and protecting effect
- Outside noise level reduction
- Bottom rail made of extruded aluminum
- Electrical control option
- Rubber pressed in along the entire slat width

ISOTRA *Quality*

Zetta 90

Basic Product Specification



2-00157-XXXX-E

Control

Used for pulling the blind up and down and setting the slat

Handle - The control wand mechanism is protracted to the interior at the angle of 45° and 90° using a bushing and a hexagonal wand (color design: white / grey / anodized).

Motor - Optional control using the sun / wind sensor or by a remote control or switch. One motor can control even more Venetian blinds simultaneously based on blind dimensions. The motor is then installed on one Venetian blind of the group.

Specification

	Head Rail		Bottom Rail	Slat	Side Guidance	Ladder	Textile tape	Installation
					Guiding Channel			
Commercial Name Dimension (mm) Material	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/1 93 x 14 Al	P 037 0,42 x 113 Al	See Chapter "Guidance" for guiding channel alternatives	P 029/1 80 x 9,5 PES	P 028 8 x 0,34 PES	See Chapter "Installation" on page 63-66 for installation alternatives
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed		Standard: anodized aluminum Other RAL colors sprayed	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed	grey	grey	

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	4000	4000	8 m ² (Handle control) 16 m ² (Motor control)

DUO System



SLAT SHAPE

- System with double slat tilting
- Blind divided into fully opened part and fully closed part
- Suitable for conference, training and work rooms

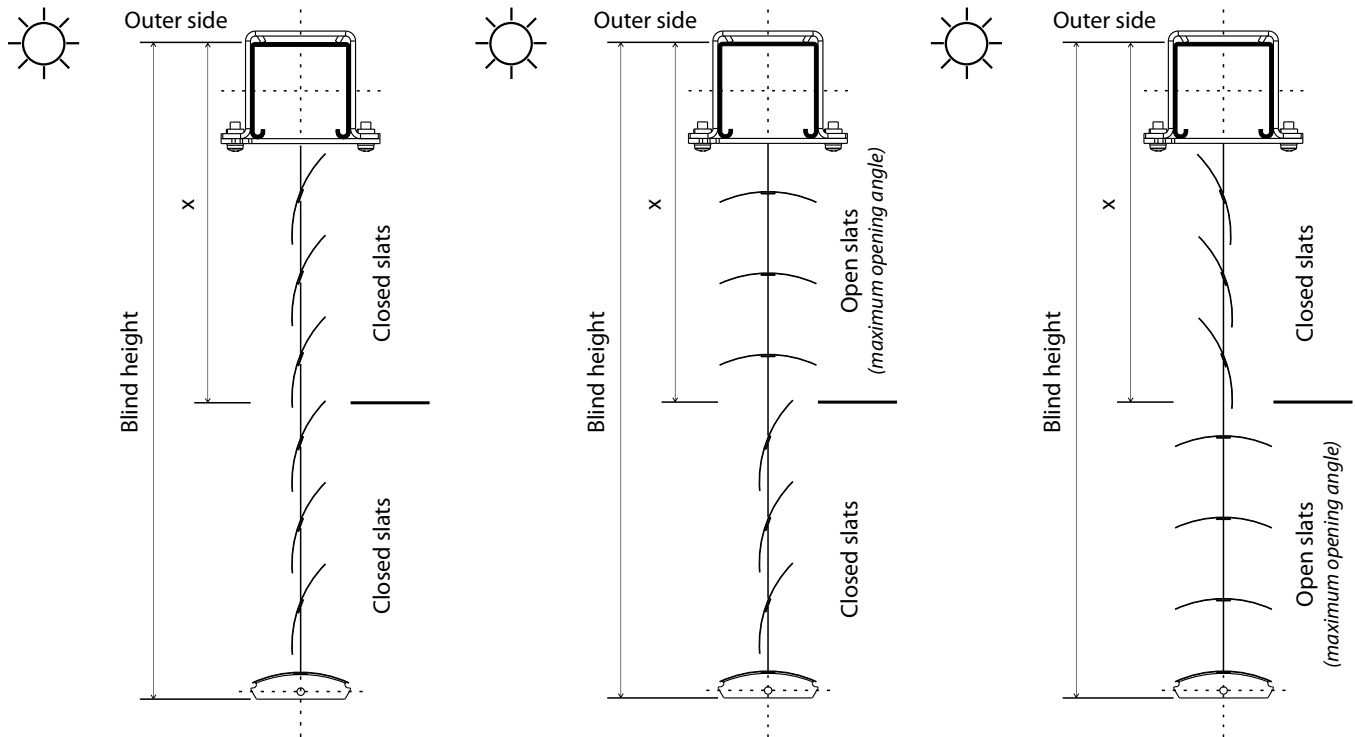
ISOTRA *Quality*

Alternative Designs

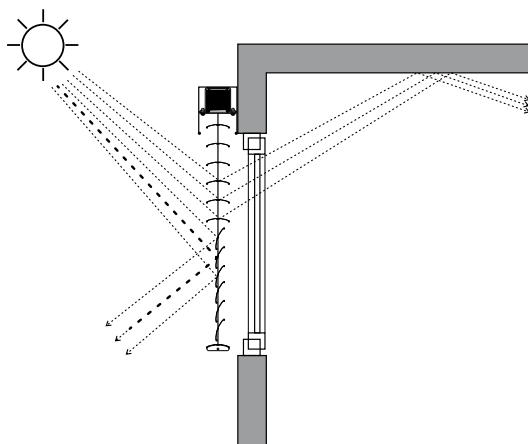
DUO System (double slat tilting)

Applies to the handle / motor control: Cetta 65, Cetta 80, Cetta 80-Flexi

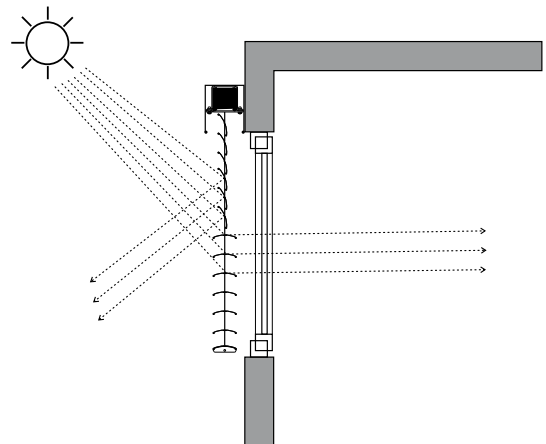
Upper blind part or lower blind part closed is available. It is impossible to fully open all slats at the same time. Different slat tilting is achieved by the ladder shortened on one side.



Slats closed at the bottom – opened at the top
work room / living room



Slats closed at the top – opened at the bottom
conference / training room



X = height for DUO design

Height measured from the upper edge of head rail. The height (in mm) needs to be stated in the order form. The precise division of slats is given by manufacture according to the ladder span.

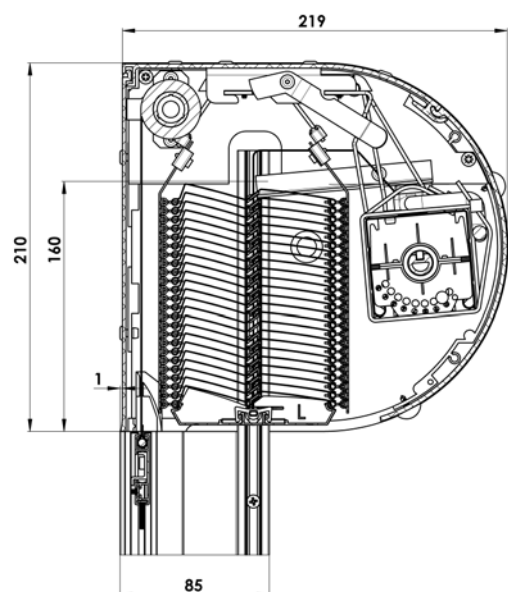
Note: Arrangement (height) for the DUO design can be adapted to special spatial conditions.

Alternative Designs

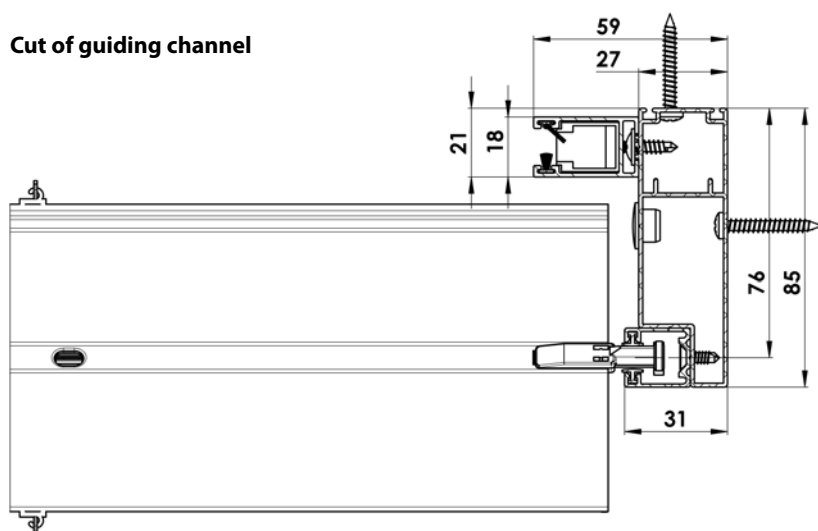
Self-supporting blind, uprolling outside the channel

Technical Specification

Cut of head rail



Cut of guiding channel



The maximum height of blind, which the box of 210 mm is suitable for.

Blind Type	Height of blind (mm)
Cetta 65	1900
Cetta 80	2200
Cetta 80-flexi	3000
Cetta 80-slim	2600
Setta 65	1900
Setta 90	2700
Zetta 70	2100
Zetta 90	2500

You save 40 mm of height of box if you use this possibility.

Dimensions

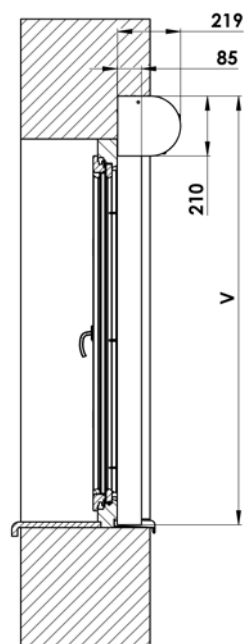
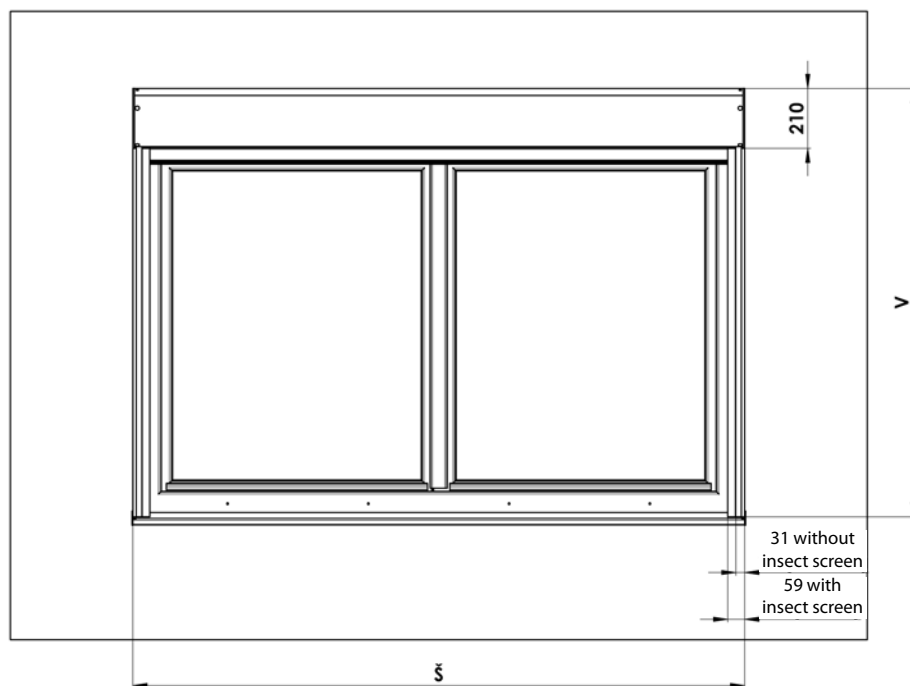
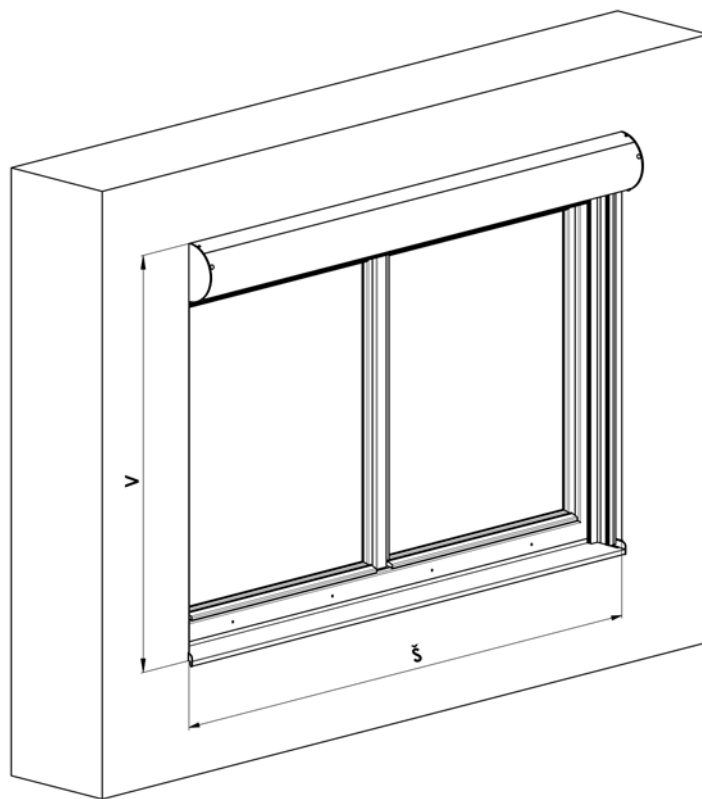
	Min. Width	Max. Width	Min. Height	Max. Height	Max. Guaranteed Area
without insect screen	600	3500	500	3000	9 m ²
with insect screen	720	1800	500	2500	3 m ²

Alternative Designs

Self-supporting blind, uprolling outside the channel

The self-supporting blind is suitable for smaller spaces.

Measurement

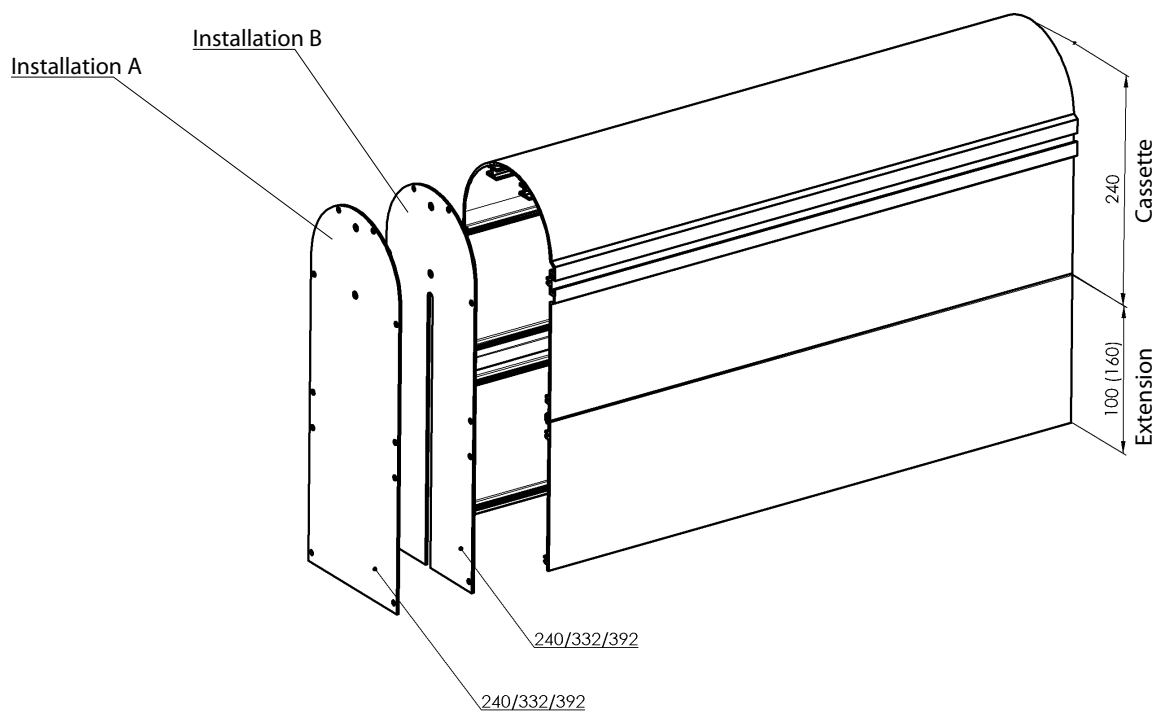


Alternative Designs

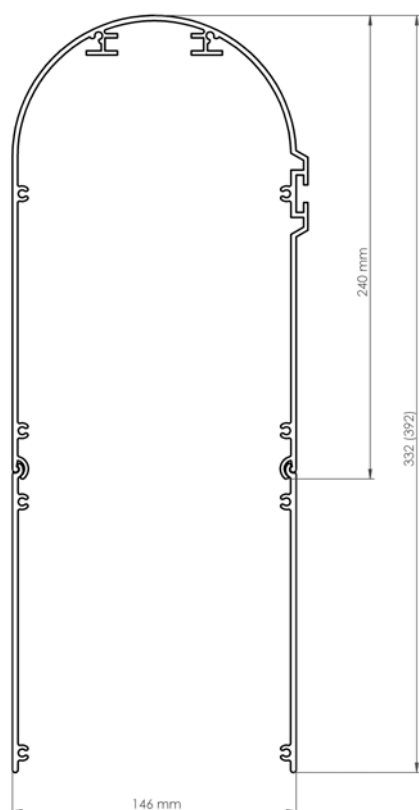
Façade Blinds

Front covers based on blind height (mm)

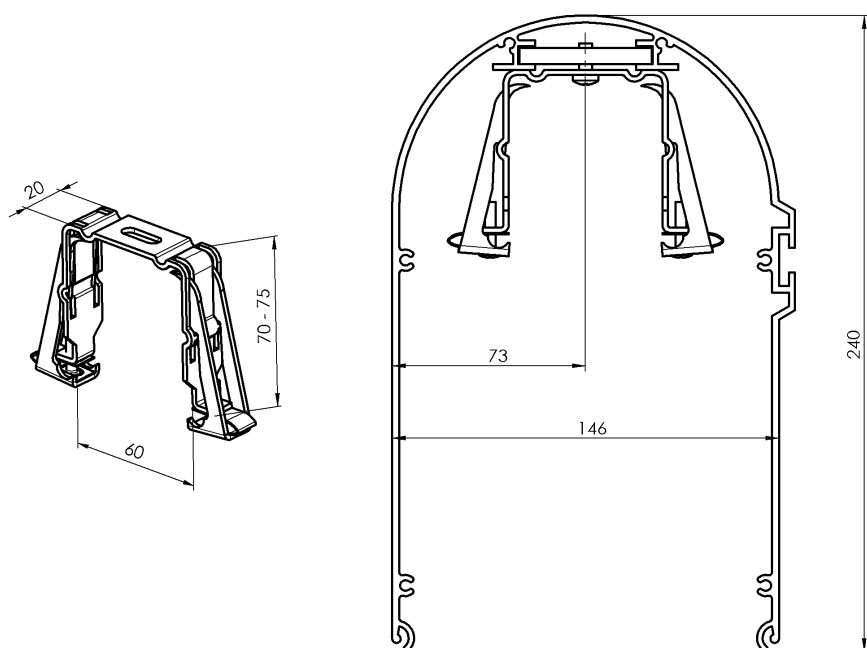
	Cetta 80	Zetta 90
Cassette 240	< 1750	< 3700
Cassette 332	< 3700	< 3700
Cassette 392	< 4000	< 4000



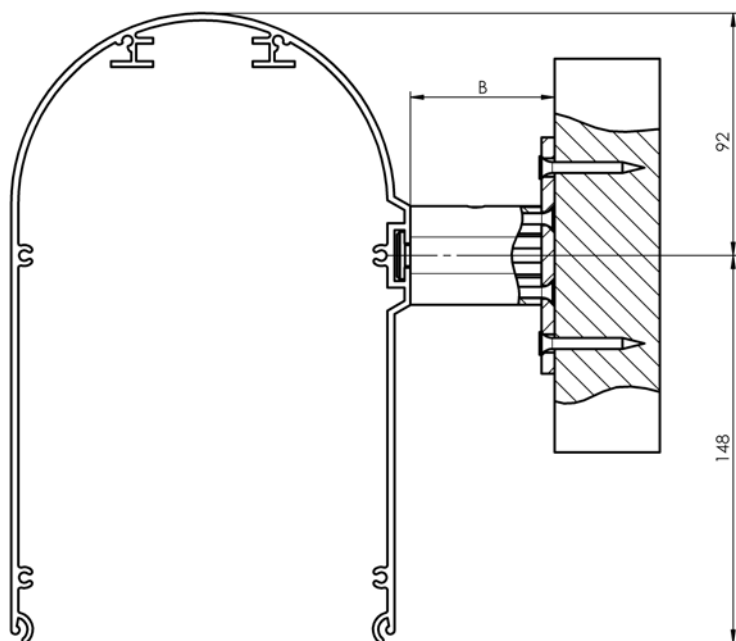
Standard head rail holder



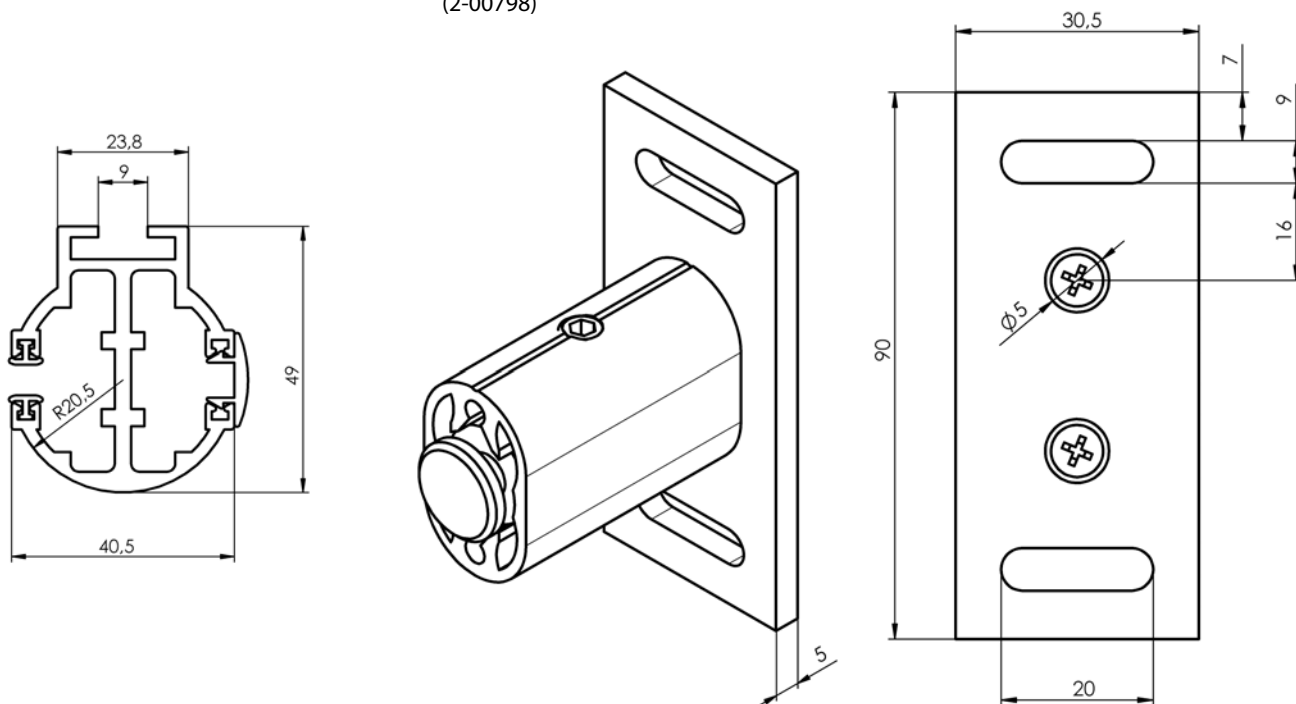
Head rail bracket mechanical (Fe)
P 002/3 (6-002319)



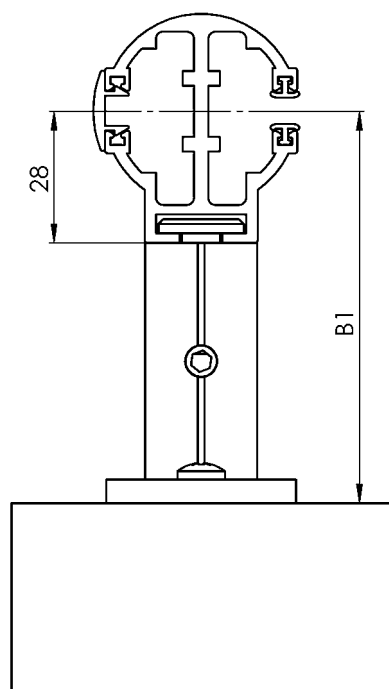
Front cover bracket



Double-sided / single-sided guiding channel

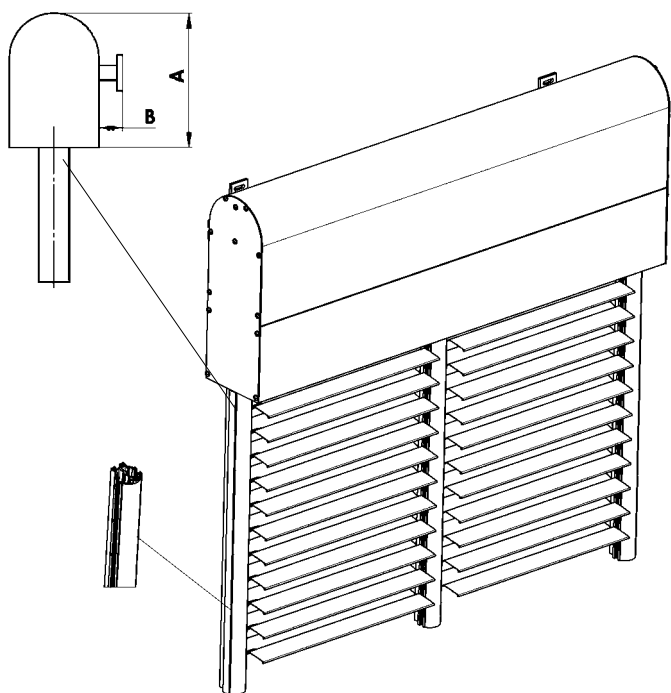
Holder of guiding channel
(2-00798)

Guiding channel attachment



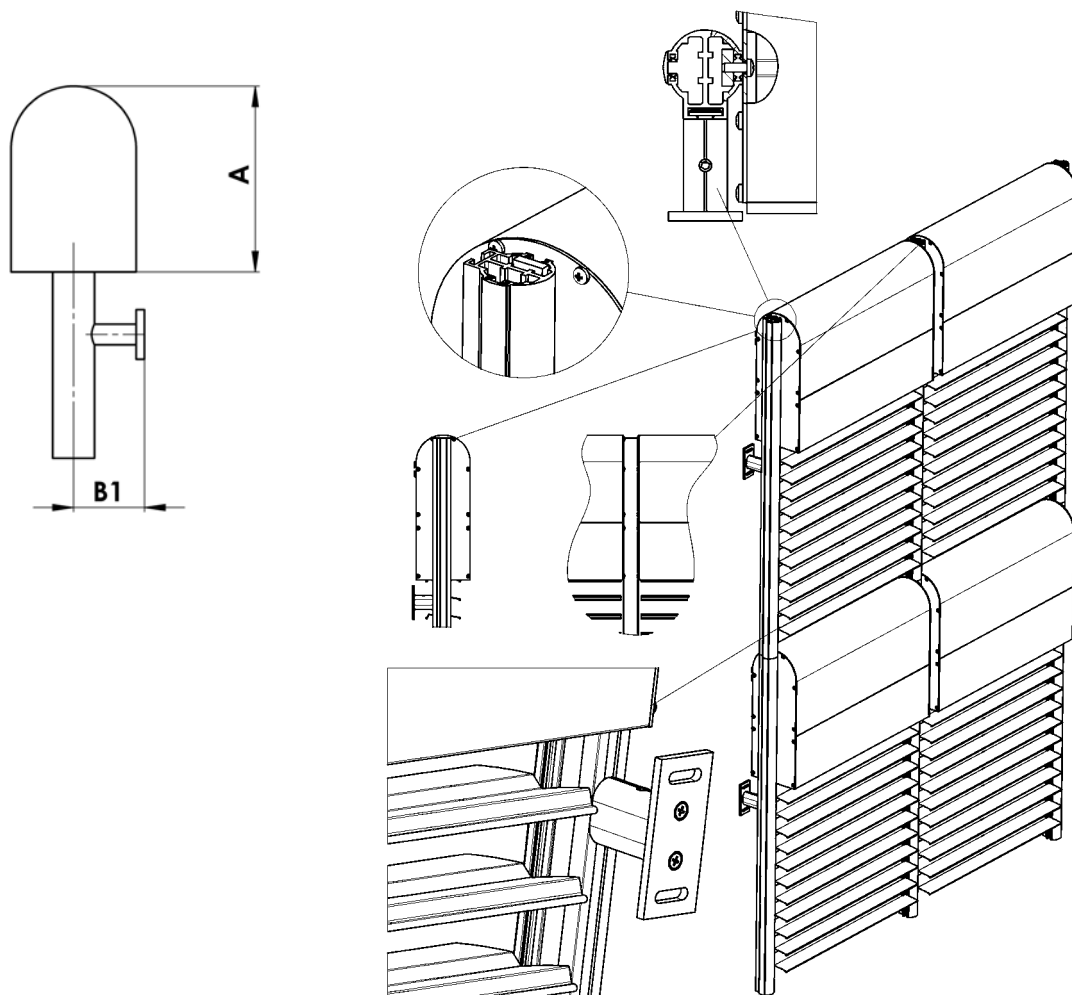
Installation A – guiding channels inside the cassette

One cover plate for more blinds. The guiding channels are installed inside the cassette. The guiding rails are fitted with a rubber gasket. Every other slat is fitted with a guide.



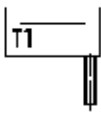
Installation B – guiding channels outside the cassette

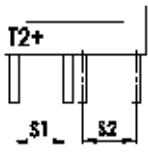
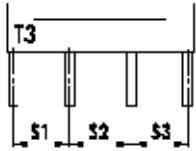
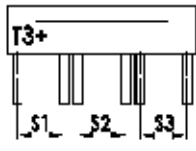
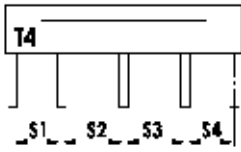
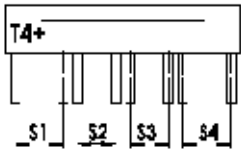
The guiding channels constitute the bearing element. The guiding rails with slots are fitted with a rubber gasket. Every other slat is fitted with a guide.



Variations of BOXES

T1	1 section, 1 guiding channel
T1+	1 section, 2 guiding channels
T2	2 sections, 3 guiding channels
T2+	2 sections, 2 guiding channels for each section
T3	3 sections, 4 guiding channels
T3+	3 sections, 2 guiding channels for each section
T4	4 sections, 5 guiding channels
T4+	4 sections, 2 guiding channels for each section
X	Other - consult your SR

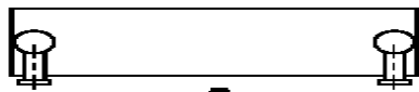


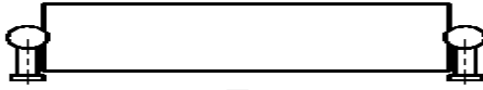
Placing of guiding channels

A	Outer guiding channels placed inside cover
B	Outer guiding channels placed outside cover
A/B	Outer guiding channels placed 1x inside and 1x outside cover
B/A	Outer guiding channels placed 1x inside and 1x outside cover

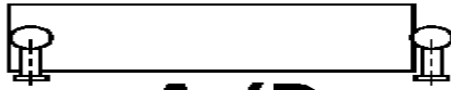
Position A/B and B/A - necessary to consult your SR.



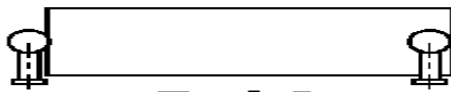
A



B



A/B



B/A

Alternative Designs

Self-Supporting Exterior Blinds

Installation on Façade

Suitable for all exterior blinds types except Cetta 50.

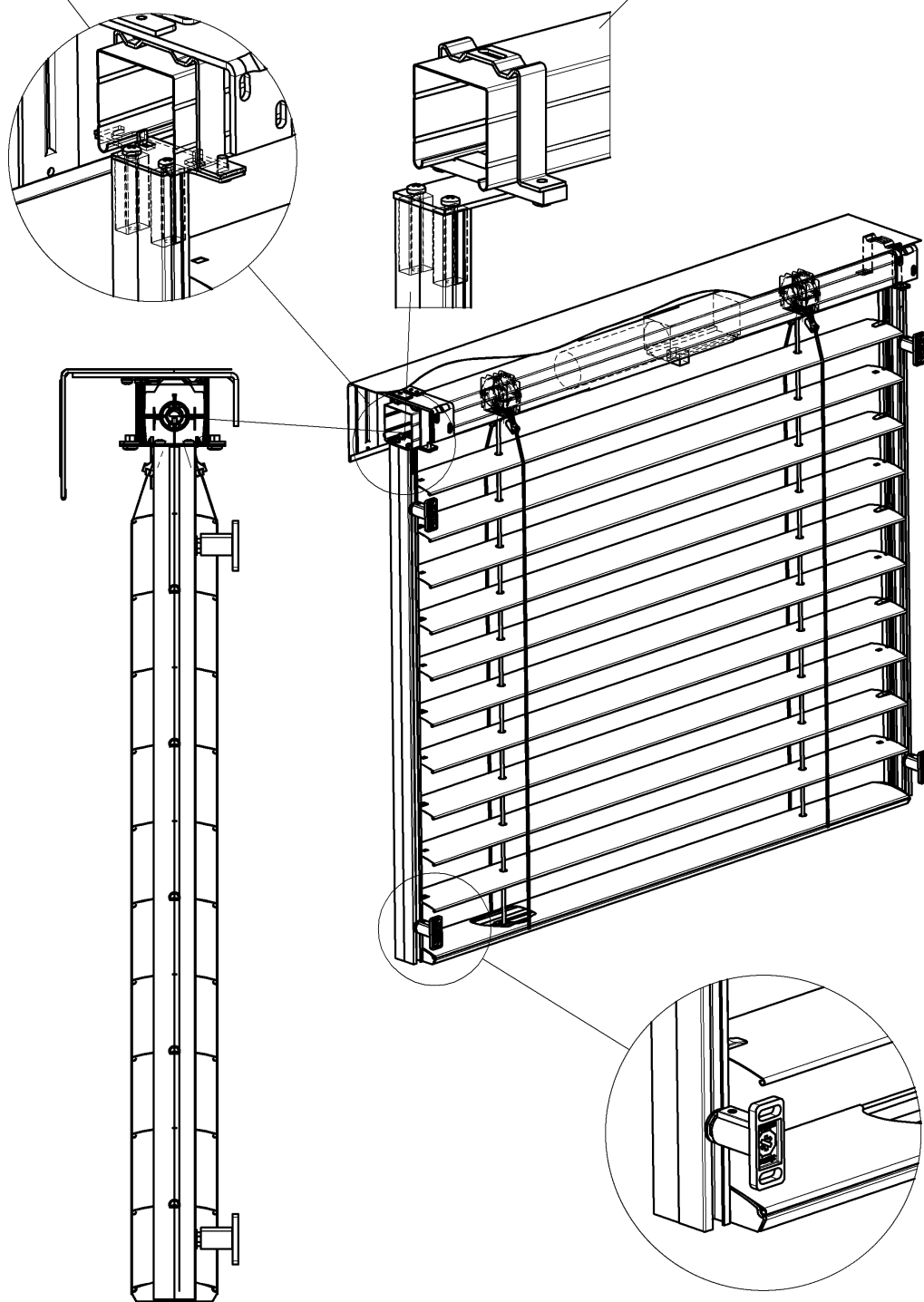
Maximum width for self-supporting blinds: 2.4 m. Areas exceeding this size require consulting with the manufacturer!

Required components:

- self-supporting guiding channel
- holders for self-supporting guiding channel 50 – 70 mm P021/5 and 75 – 120 mm P021/6
- sleeve
- hanger P002/4

In the case the handle does not intervene in the sleeve
and in the case of motor control

In the case of collision of sleeve with gearing axle

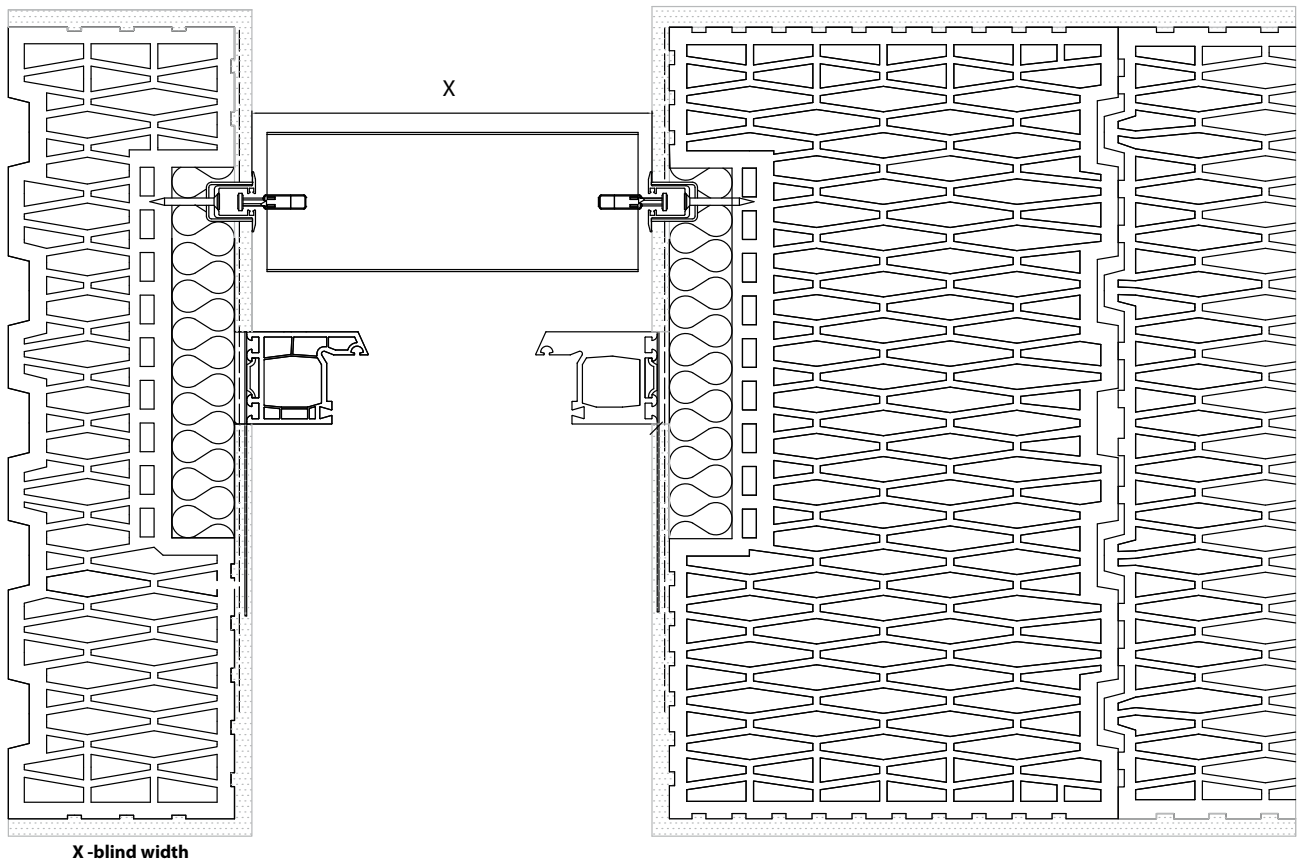


Alternative Designs

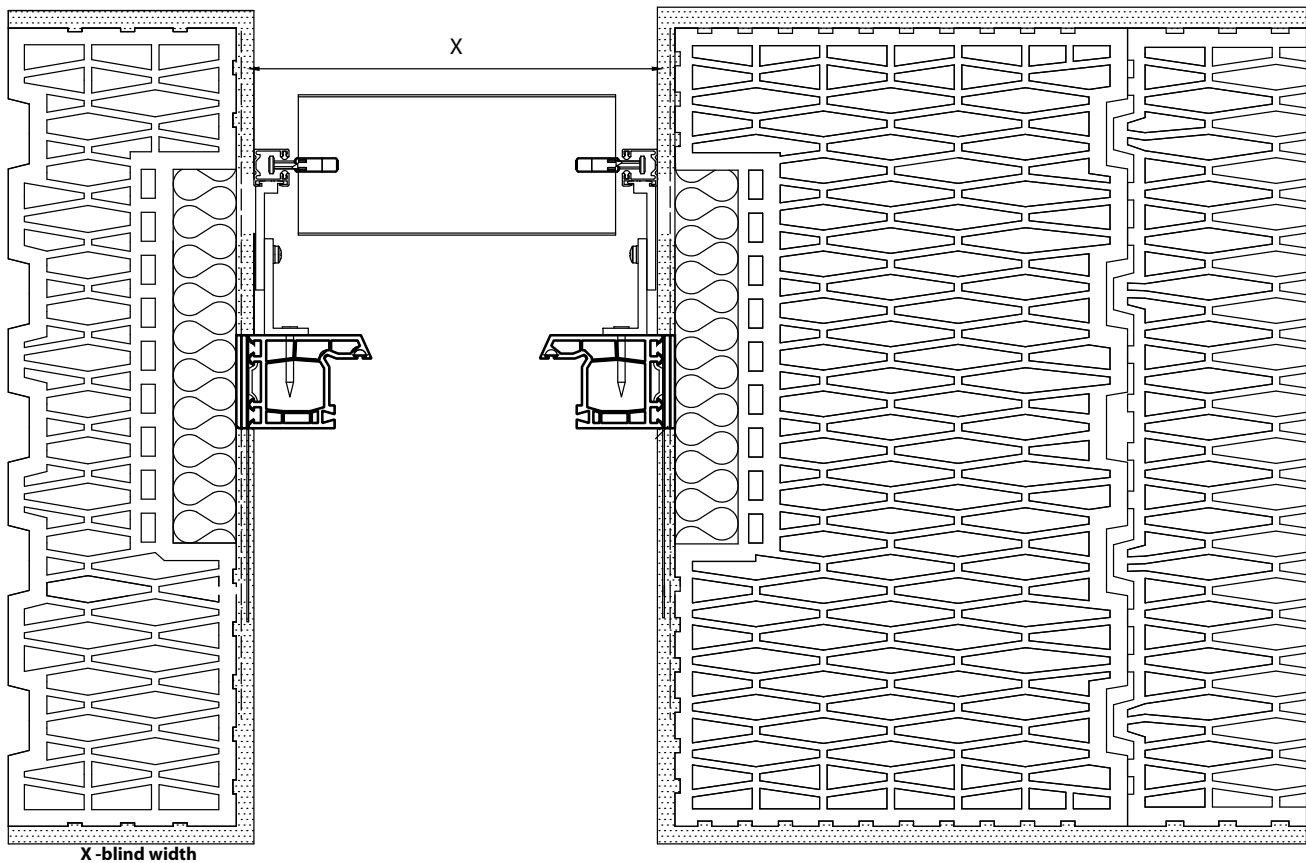
Lintel Exterior Blinds

The bushings for the guiding channels can be recessed in an insulation sandwich. The Venetian blind guiding channels can also be fixed to a window frame using attachments.

Fitting of bushing of exterior blinds with recessed guiding channel – standard Installation



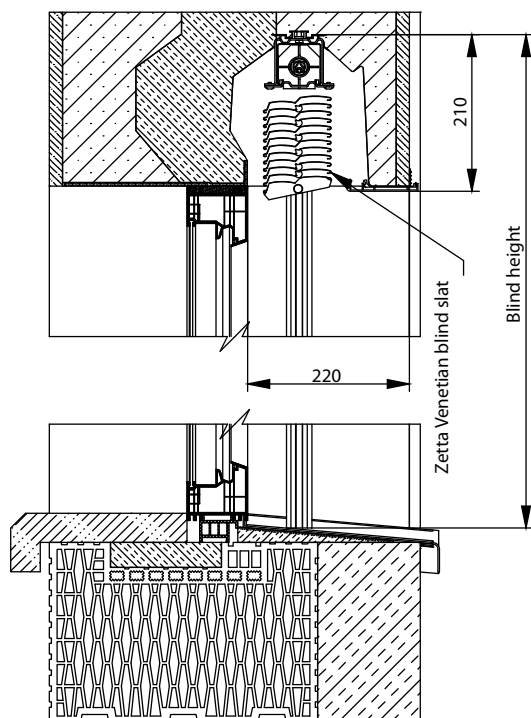
Fitting of Venetian blind guiding channel in reveal



Fitting of window frame for exterior blind Installation

The window frame can be fixed to the rolling lintel in the upper part using metal attachments and dowels.

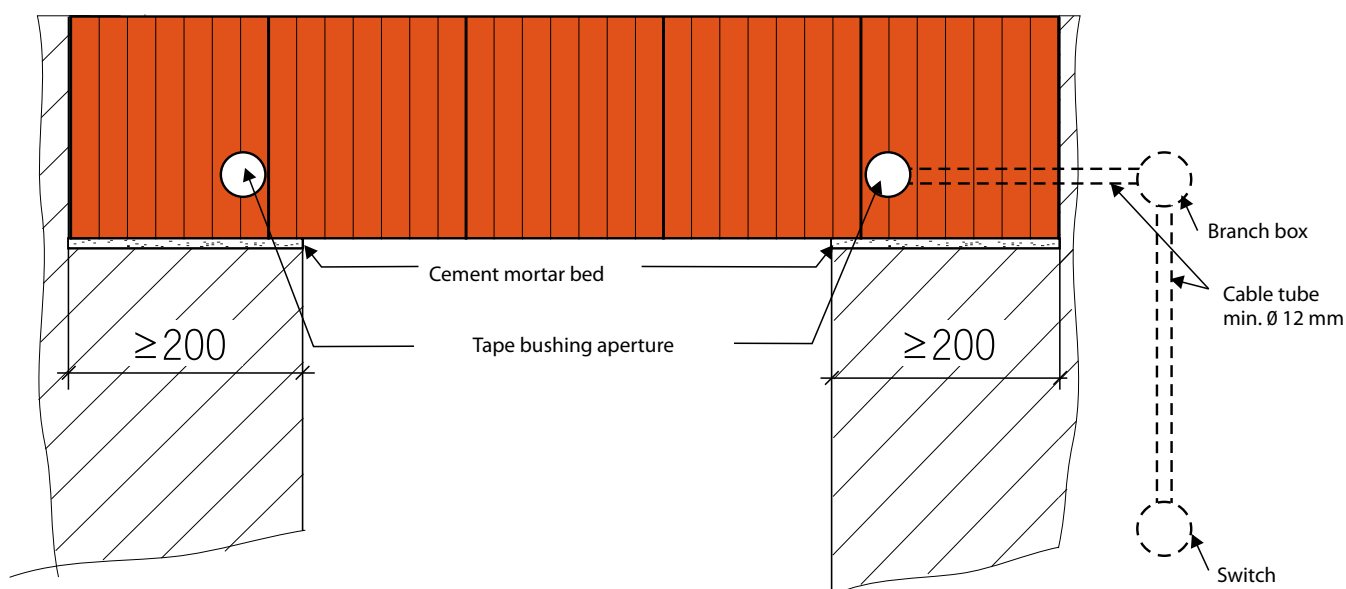
Distance between the outside brick molding of lintel and outside part of window frame is 220 mm.



Standard Dimensions

Minimum Width (mm)	Maximum Width (mm)	Maximum Height (mm)	Maximum Guaranteed Area
600	3850	1300 (Cetta 65) 1800 (Cetta 80) 2700 (Cetta 80 - Flexi) 1500 (Zetta 70, Zetta 90)	8 m ² (Handle control) 16 m ² (Motor control)

Recessing of components for motor control



In the case of handle control, protrude the handle through the prepared aperture into the blind gearing. Then screw to the lintel.

Control

The bearing HELUZ roller blind lintel can be fitted either with manual or electric control.

If the customer decides for the manual control using a handle, it is necessary to keep the lintel seating of 200, rather 250 mm, if possible, on the control side. In the case of electrical control of the shading systems, a wiring branch box is to be installed next to the lintel and a cable with minimum of 3 wires with the section of 1.5 mm² for 230 V power supply will lead into it. The branch box with the cable tube with the a minimum diameter of 16 mm will be interconnected with the inner part of the lintel, eventually with a switch. The electrical drive is to be located in the Venetian blind carrier. The entire wiring system needs to be consulted with the shading equipment assembling company prior to applying the plastering.

When using the electrical control, we can place the lintel symmetrically on the assumption of keeping the minimum lintel seating of 200 mm on both sides.



Motor control



Handle control

The handle bushing extends 15 mm in the space for later plastering.

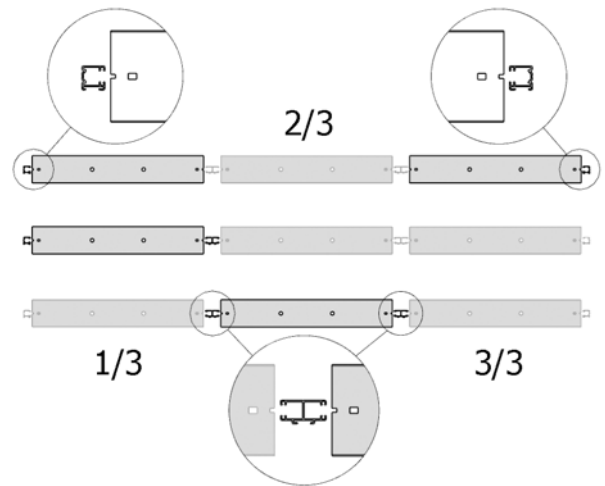
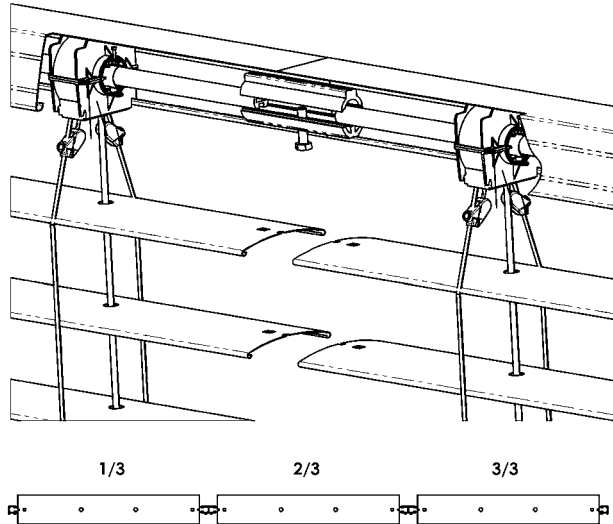
Alternative Designs

Connected Exterior Blinds

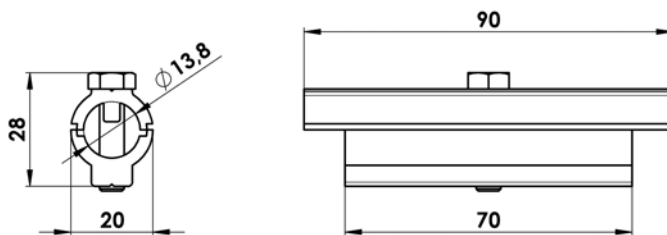
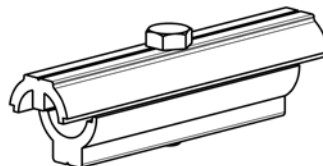
The connected Exterior blinds always have a connected rod and joint control. The handle or motor control can be installed in any place (on the right, on the left, in the center) and on any blind of the group.

Cetta 65, Cetta 80, Cetta 80-Felxi, Zetta 70, Zetta 90 and Setta 90 Exterior blinds can be connected (not Cetta 50). It is also possible to connect blinds in the HELUZ lintel.

Maximum area of connected motor-controlled Exterior blinds:	20 m ²
Maximum area of connected handle -controlled Exterior blinds:	16 m ²
Maximum number of connected Exterior blinds:	3



Blind connector



Required components: rod connector
Usable components: double guiding channel, single guiding channel

It is required to follow the below-listed rules when connecting the axial profiles:

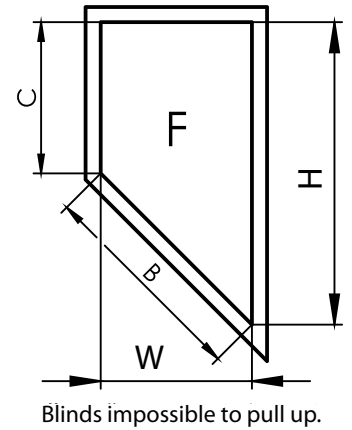
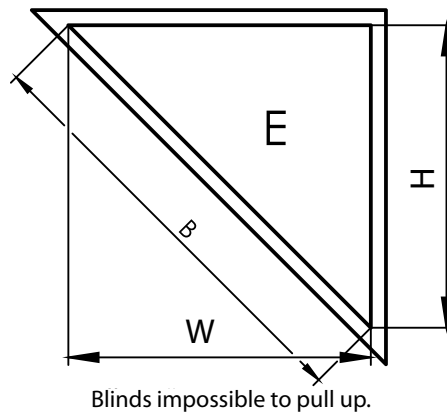
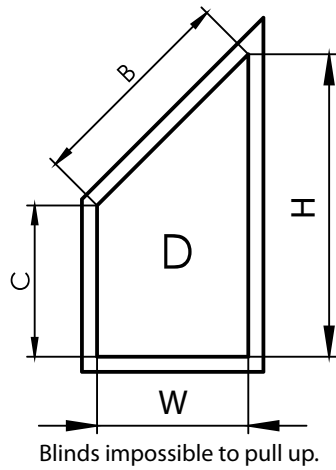
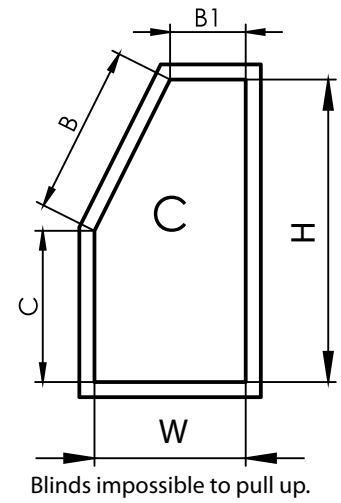
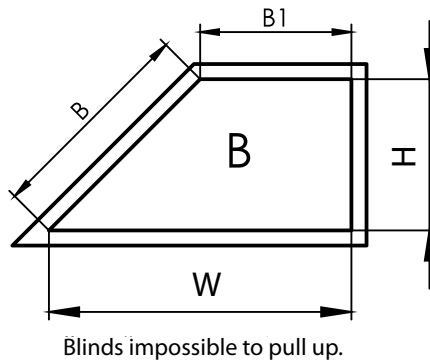
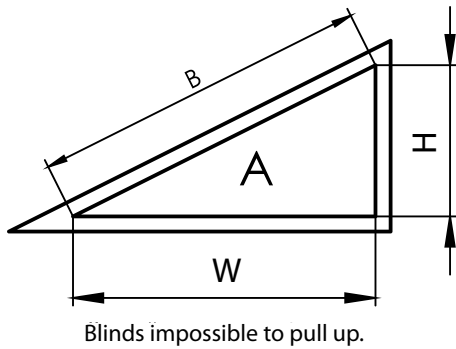
- both driving and driven blinds must be installed at identical horizontal and vertical planes
- blinds must be connected in their identical coiling positions
- for easier installation, shortening of the head rails by 50 mm on both connected sides can be required
- axes of connected blinds must be approximately 10 mm apart; notches in the axes should be on the bottom blind side, if possible.

Procedure: Cover both axle ends of the connected blinds with a half of the rod connector from above. Put the other half of the rod connector from below and tighten with a screw.

Alternative Designs

Atypical Designs of Exterior Blinds

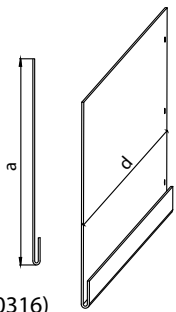
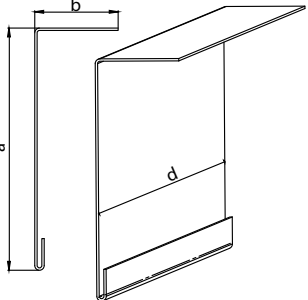
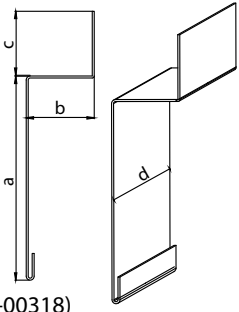
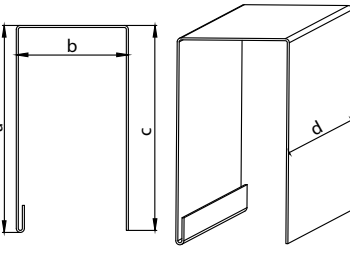
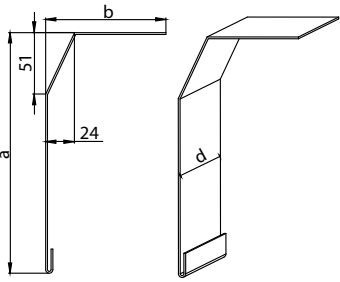
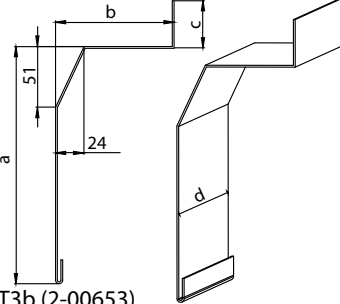
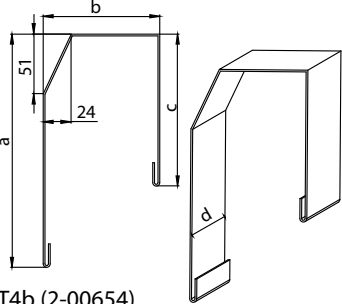
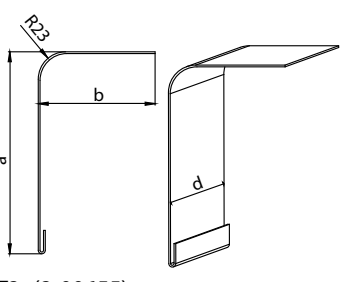
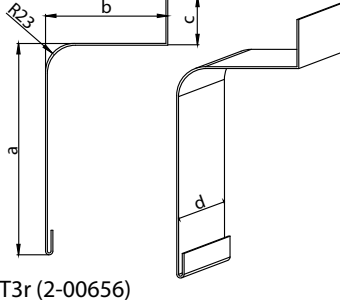
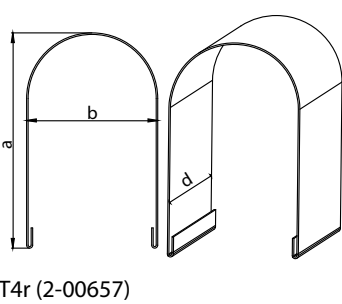
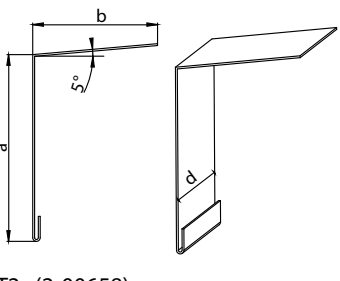
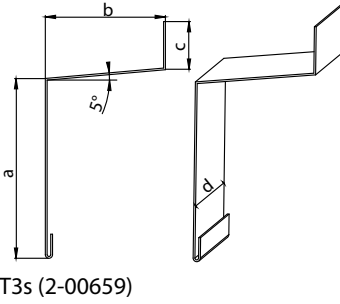
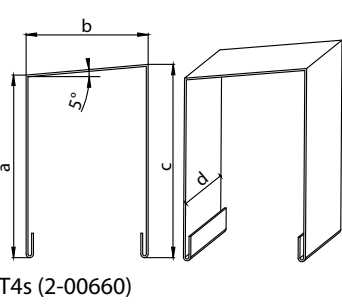
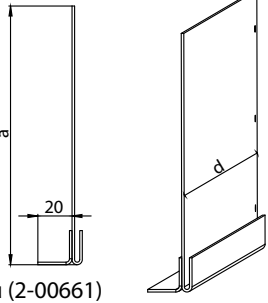
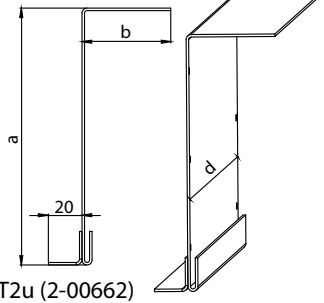
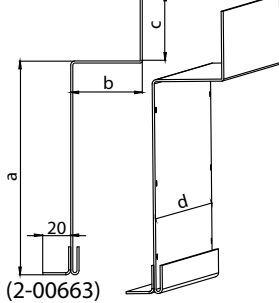
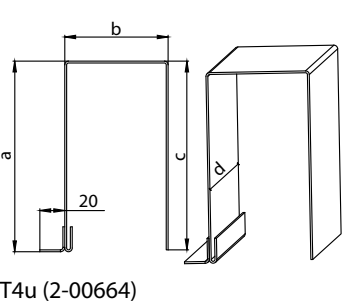
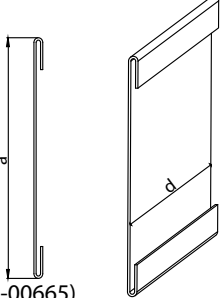
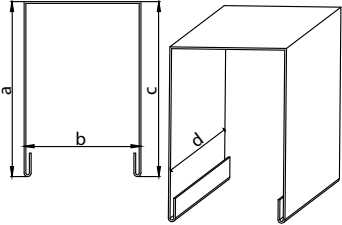
All atypical designs can be controlled by motor or handle limited by specified angle.



Min. weight for motor control: 600 mm
Min. weight for handle control: 600 mm

Accessories

Front Cover Typees

 T1 (2-00316)	 T2 (2-00317)	 T3 (2-00318)	 T4 (2-00319)
	 T2b (2-00652)	 T3b (2-00653)	 T4b (2-00654)
	 T2r (2-00655)	 T3r (2-00656)	 T4r (2-00657)
	 T2s (2-00658)	 T3s (2-00659)	 T4s (2-00660)
 T1u (2-00661)	 T2u (2-00662)	 T3u (2-00663)	 T4u (2-00664)
 T1c (2-00665)			 T4c (2-00666)

Number of Exterior Blind Holders Based on Width (mm)

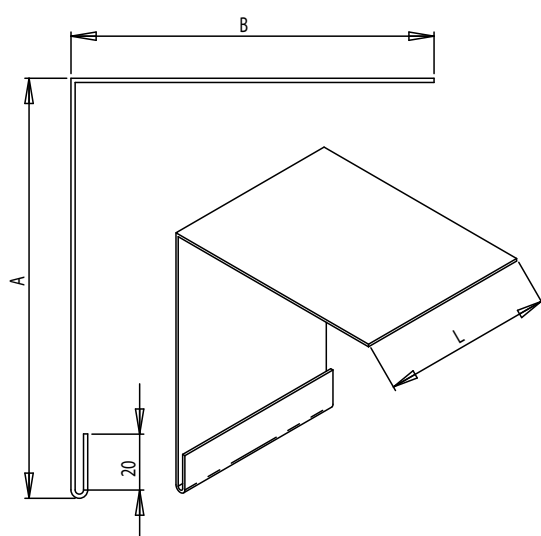
Blind Width (mm)	Pcs.
to 1599	2
from 1600 to 2399	3
from 2400 to 3199	4
from 3200 to 4000	5

For arrangement of holders, consider the following:

- maximum distance between two holders
- motor cable outlet
- symmetry of both holders (identical outer distance) and central holder (right in the center)

Warning: Installation of the holders must be carried out on a base without vibrations in order to minimize the transmission of produced sound.

Front Cover



Ordering dimension of front cover

Material:

Thickness:

Maximum length of front cover without joint:

Unwound width of cover plate:

Color:

Al

1,5 mm / 2 mm

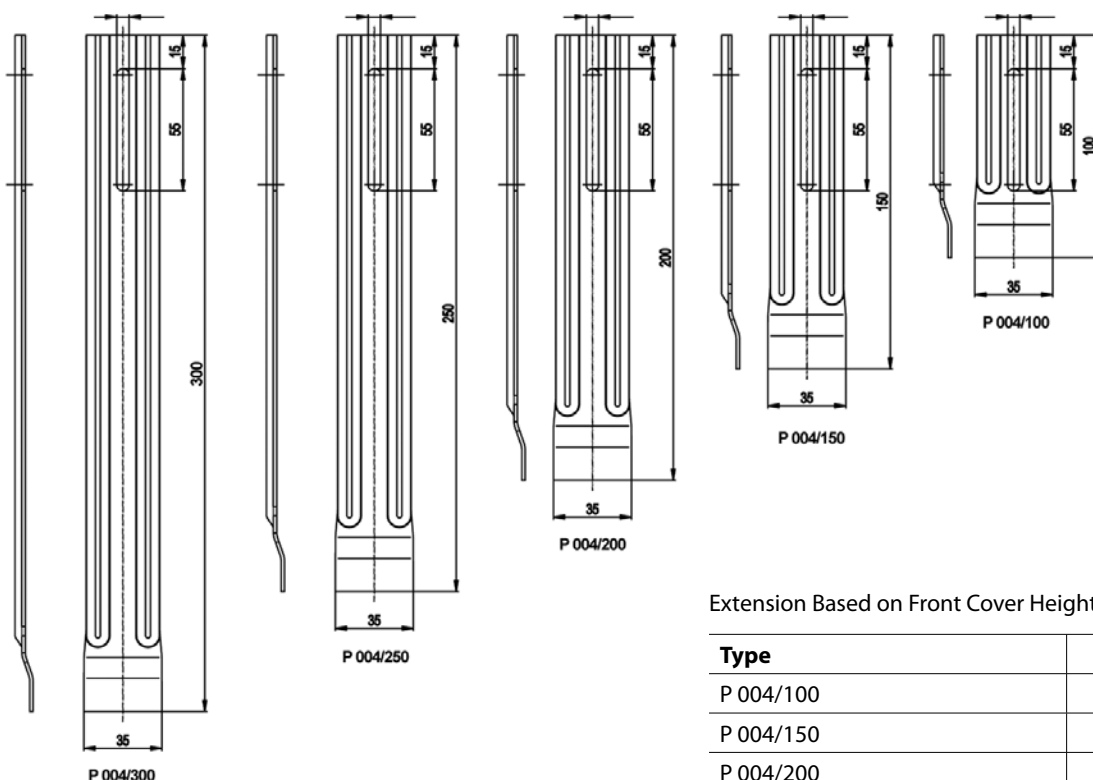
3000 mm

$L = a + b + c$

any color according to RAL scheme

The side cover of the front cover is supplied upon customer's request.

Extension of front cover holder

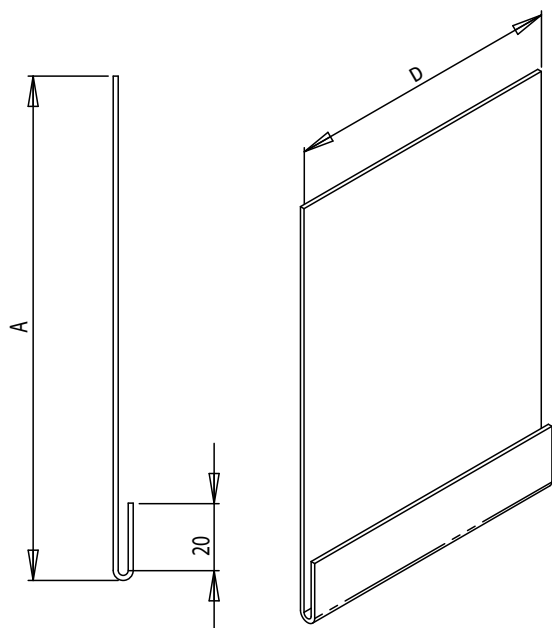


Extension Based on Front Cover Height

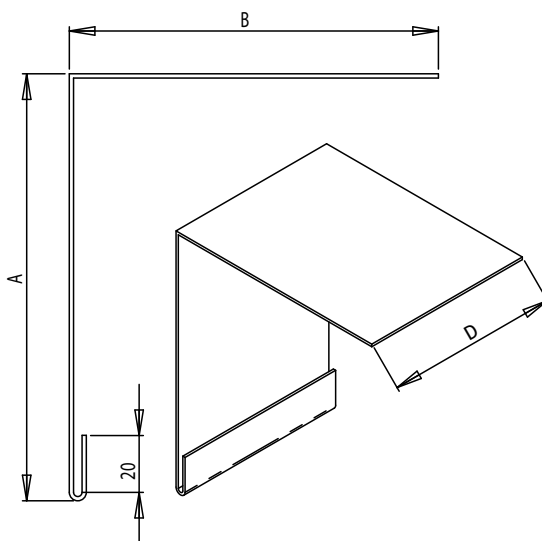
Type	Dimension "A"
P 004/100	140 - 190 mm
P 004/150	191 - 240 mm
P 004/200	241 - 290 mm
P 004/250	291 - 340 mm
P 004/300	341 - 500 mm
P 004/350	391 - 440 mm

Holders for Basic Front Cover Types TYPE 1 – 4

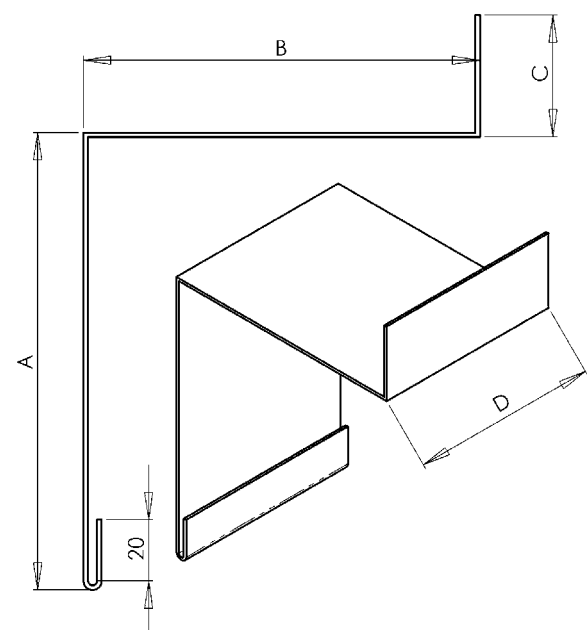
Front cover T1 (2-00316)



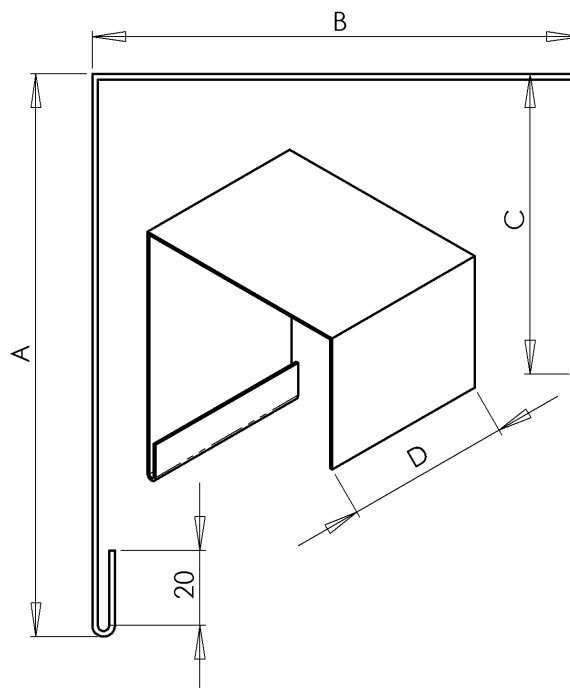
Front cover T2 (2-00317)



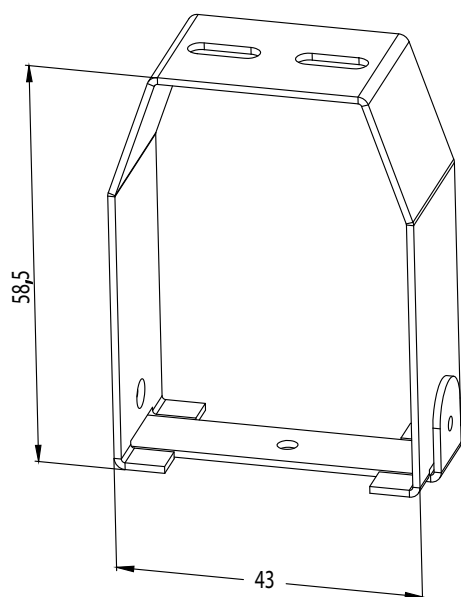
Front cover T3 (2-00318)



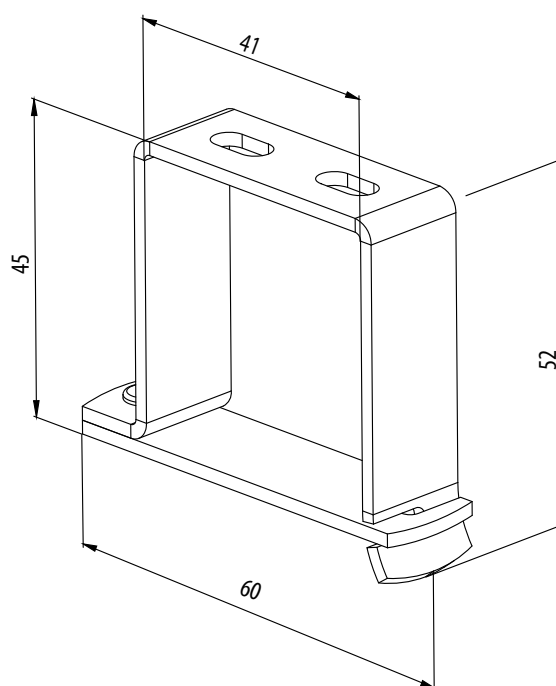
Front cover T4 (2-00319)



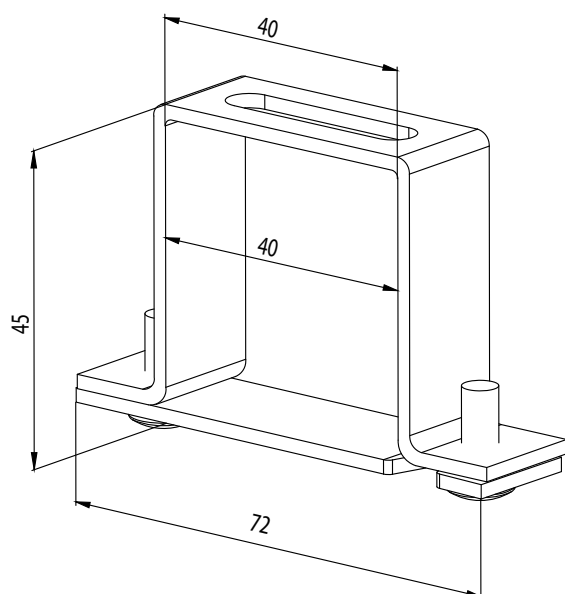
Side hanger for C50
P 512/5 (2-00651)
(for head rail 40 x 40)



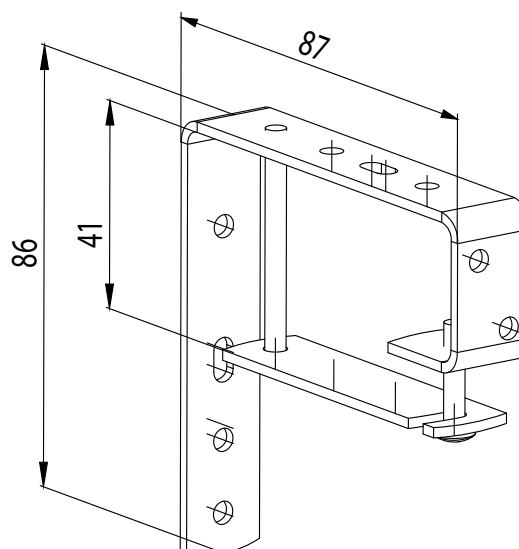
Ceiling hanger for C50
P 512/4 (2-00793)
(for head rail 40 x 40)



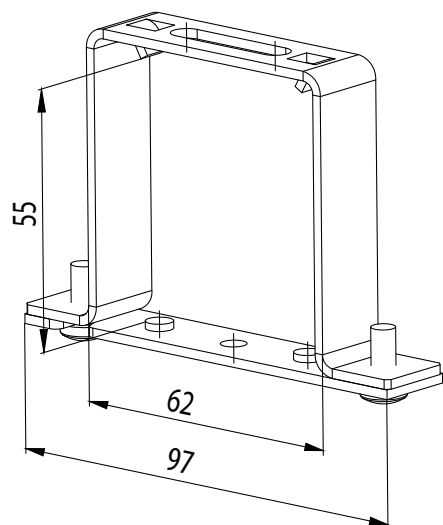
Fixed hanger for C50
P 512 (2-00057)
(for head rail 40 x 40)



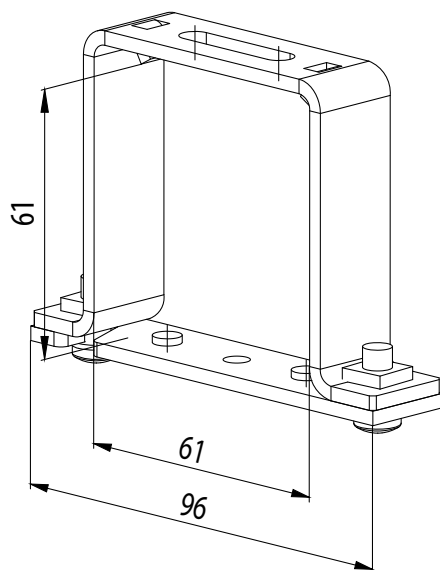
Fixed hanger for C50 with front cover
P 513 (6-001244)
(for head rail 40 x 40)



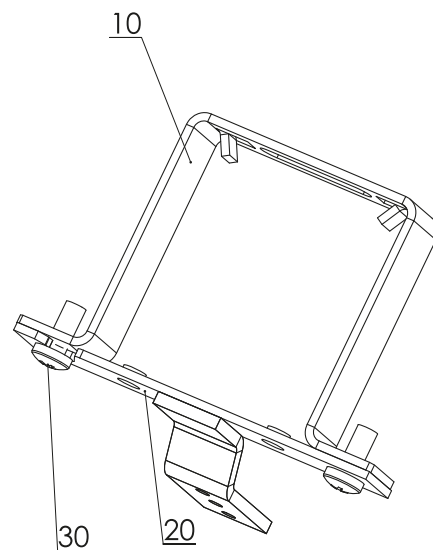
Head rail hanger Fe
P 002 (2-00038)
(for head rail 56 x 58)



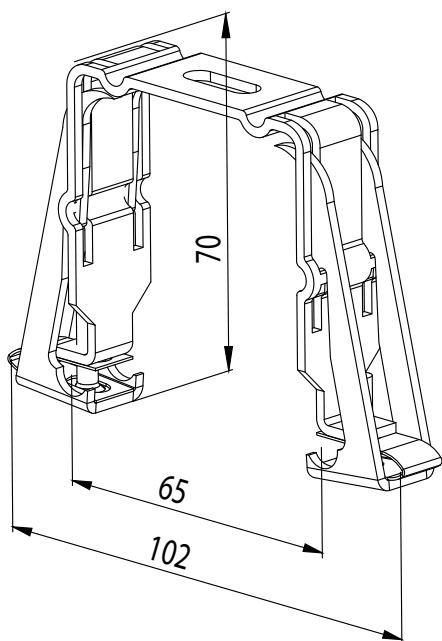
Head rail hanger Al
P 002/1 (2-00160)
(for head rail 58 x 60)



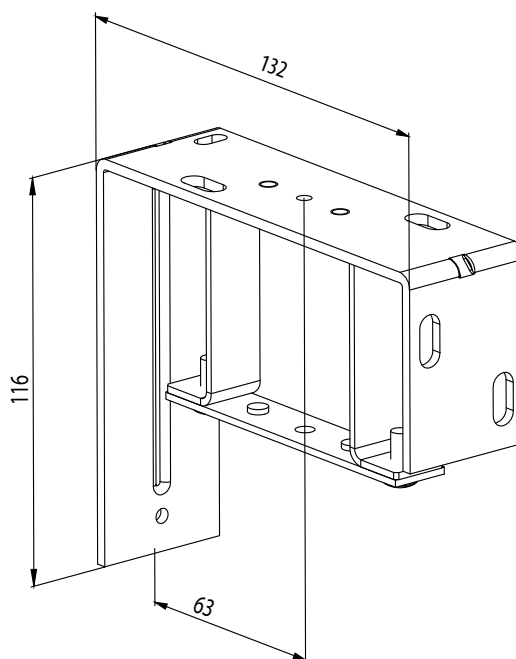
Head rail hanger Fe – wire
2-00685
(for head rail 56 x 58)



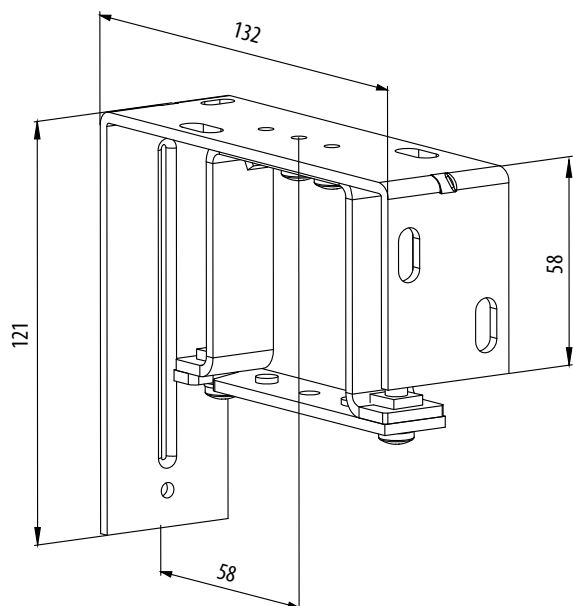
Head rail hanger Fe Click
P 002/3 (6-002319)
(for head rail 56 x 58)



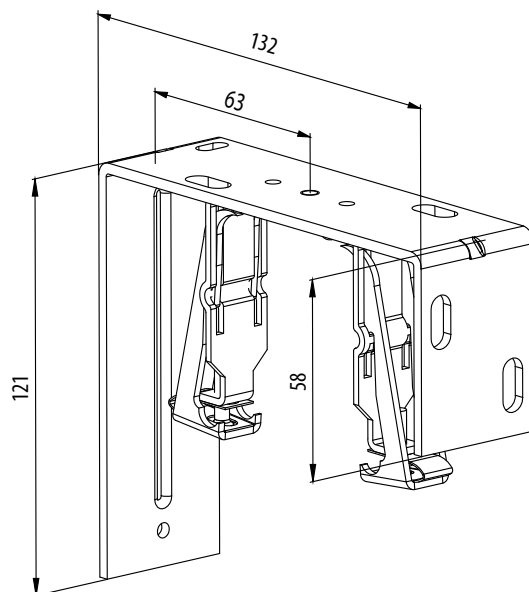
Fixed hanger (inner hanger Fe) 132 mm
P 010 (2-00353)
(for head rail 56 x 58)



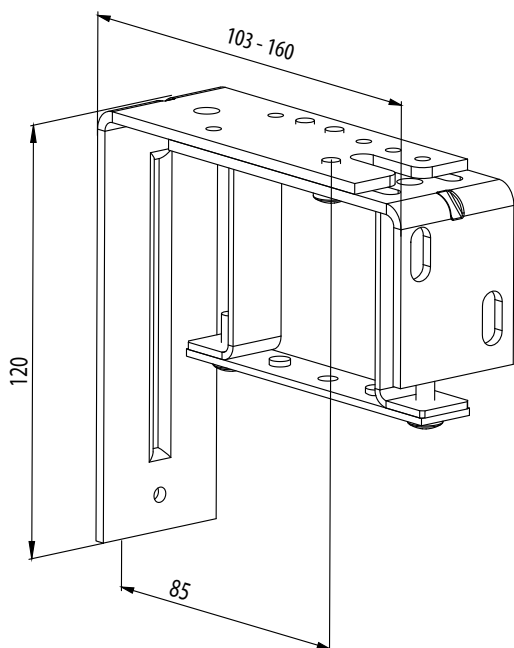
Fixed hanger (inner hanger Al) 132 mm
P 011 (2-00384)
(for head rail 58 x 60)



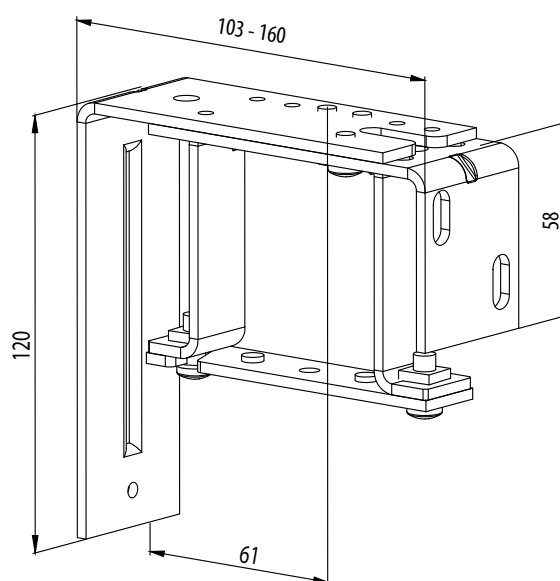
Fixed hanger (inner hanger Fe Click) 132 mm
P 009 (2-00403)
(for head rail 56 x 58)



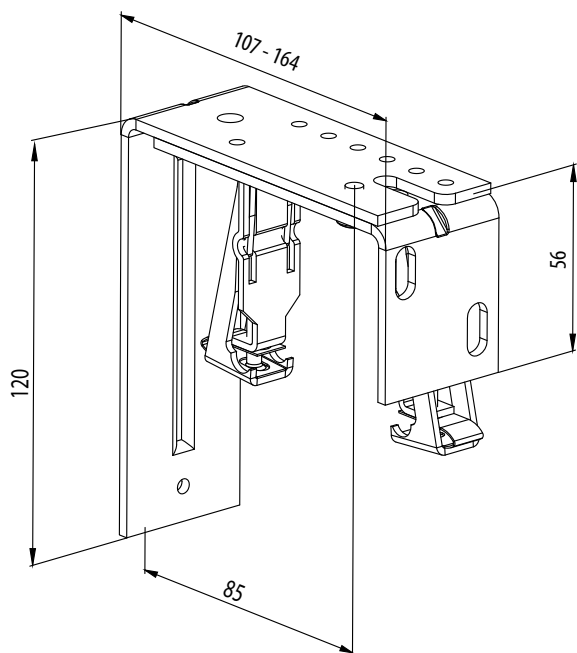
Adjustable hanger (inner hanger Fe) 103 - 160 mm
P 010/1 (2-00354)
(for head rail 56 x 58)



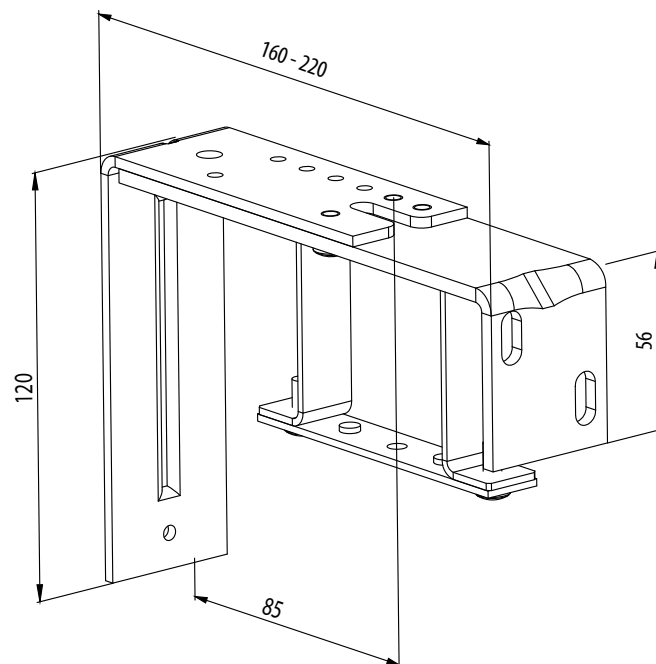
Adjustable hanger (inner hanger Al) 103 - 160 mm
P 011/1 (2-00373)
(for head rail 58 x 60)



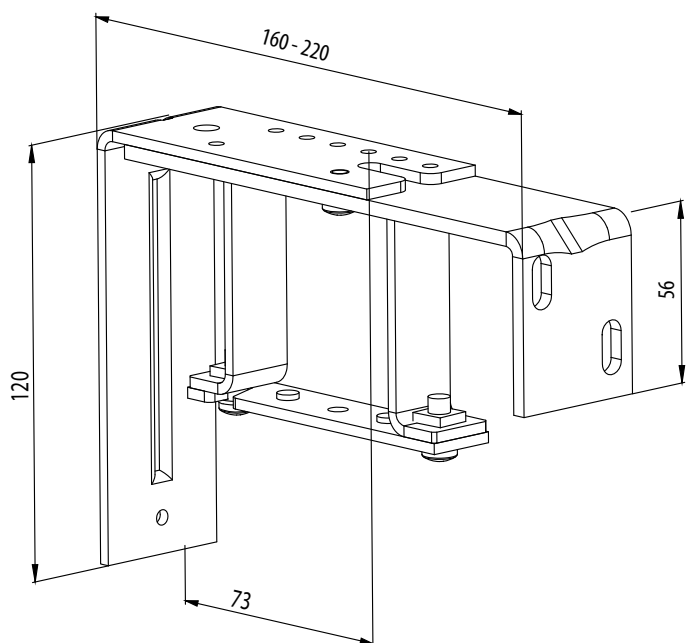
Adjustable hanger (inner hanger Fe Click) 107 - 164 mm
P 009/1 (2-00404)
(for head rail 56 x 58)



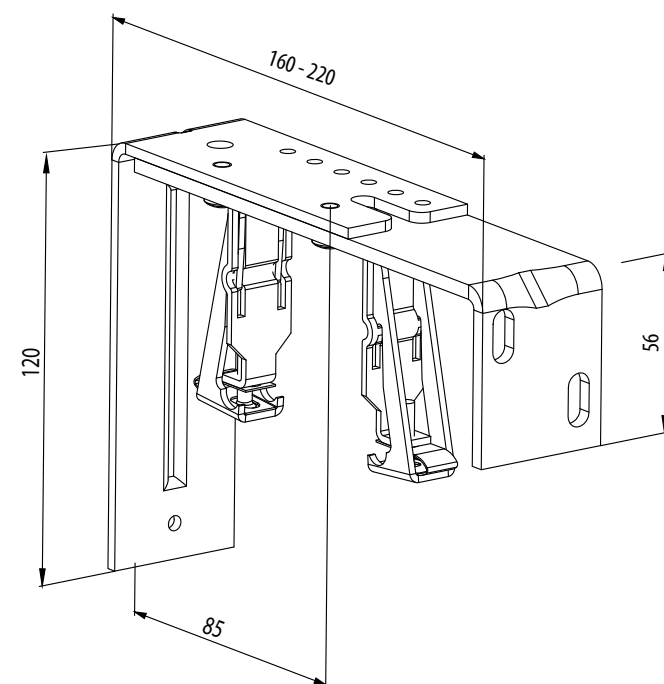
Adjustable hanger (inner hanger Fe) 160 - 220 mm
P 010/2 (2-00355)
(for head rail 56 x 58)



Adjustable hanger (inner hanger Al) 160 - 220 mm
P 011/2 (2-00374)
(for head rail 58 x 60)



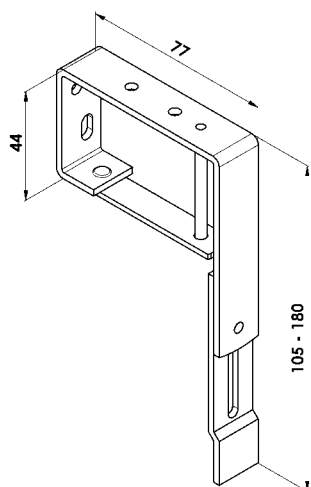
Adjustable hanger (inner hanger Fe Click) 160 - 220 mm
P 009/2 (2-00405)
(for head rail 56 x 58)



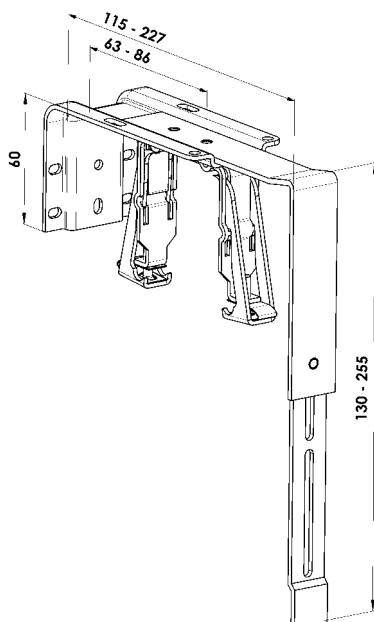
Atypical Holders for Front Covers P008_KBT1 – 11

(individual lead times)

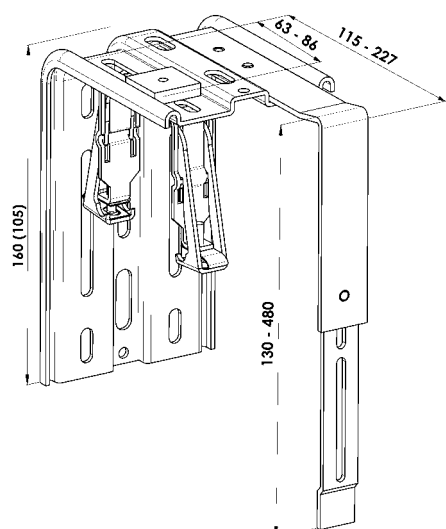
P008_KBT 1 (6-010604-0001)
(for head rail 40 x 40)



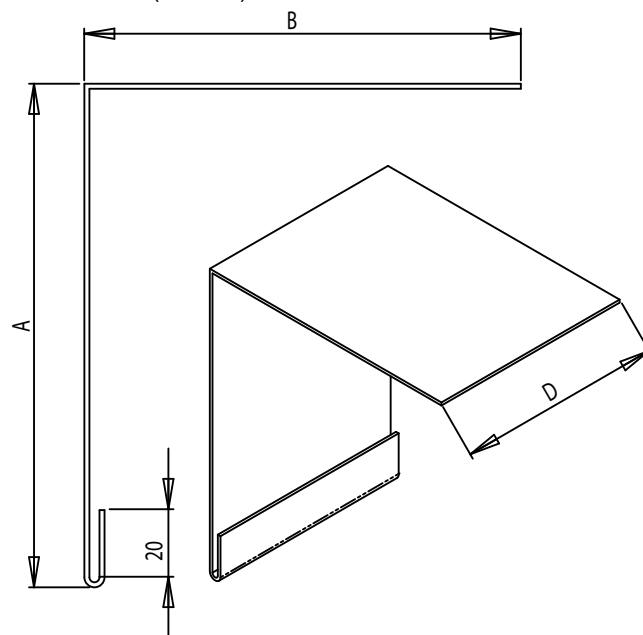
P008_KBT 2 (6-010604-0002)
(for head rail 56 x 58)



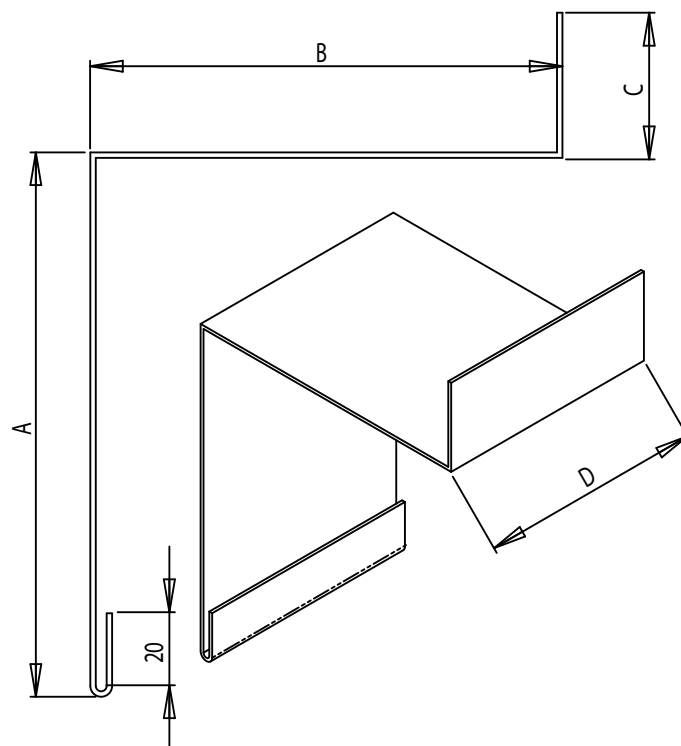
P008_KBT 3 (6-010604-0003)
(for head rail 56 x 58)



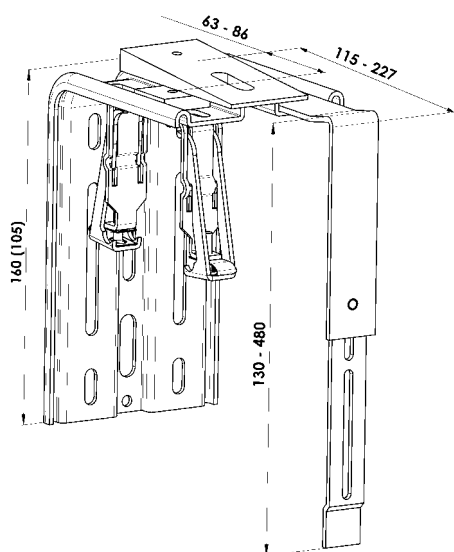
Front cover T2 (2-00317)



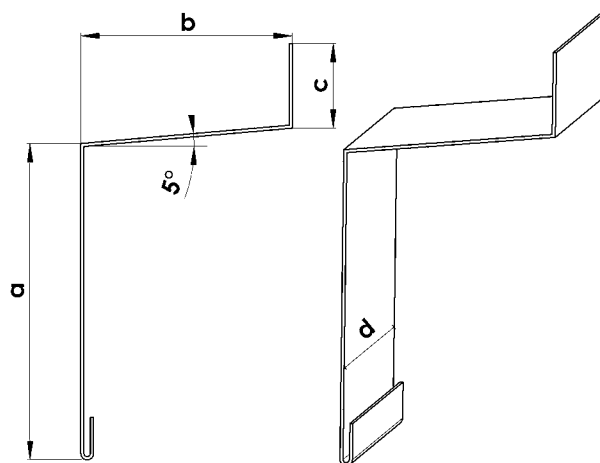
Front cover T3 (2-00318)



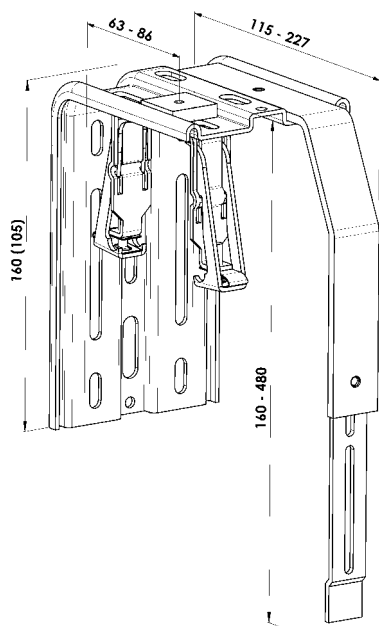
P008_KBT 4 (6-010604-0004)
(for head rail 56 x 58)



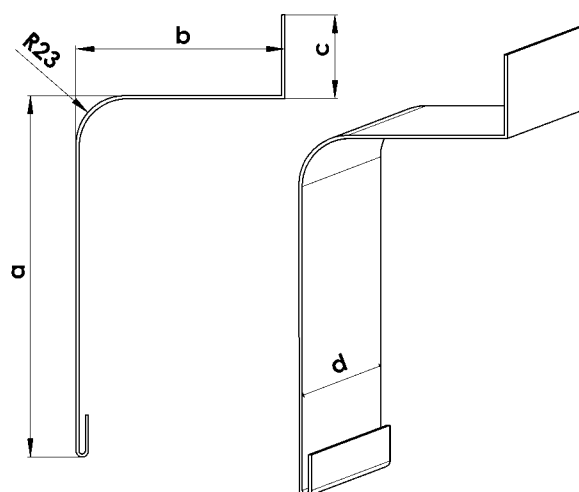
Front cover T3s (2-00659)



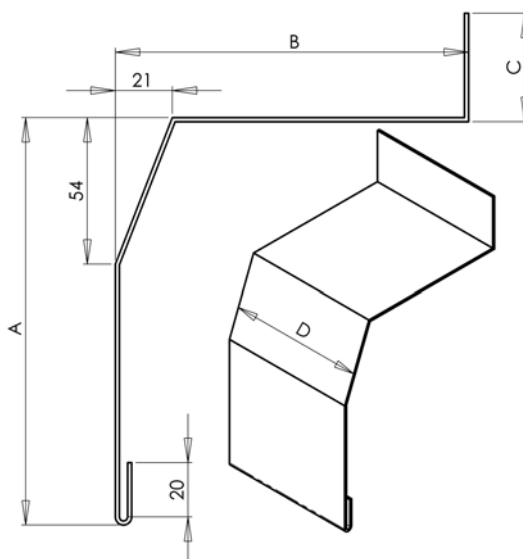
P008_KBT 5 (6-010604-0005)
(for head rail 56 x 58)



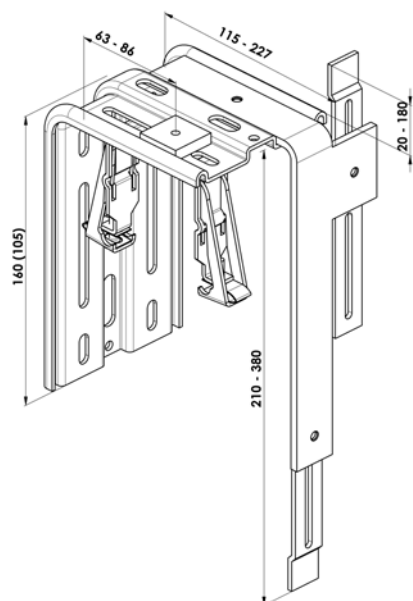
Front cover T3r (2-00656)



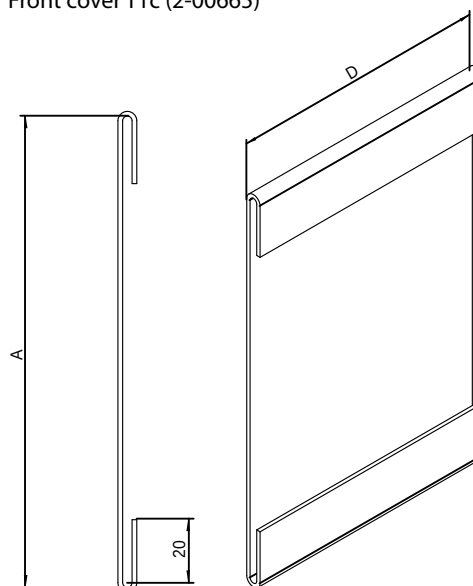
Front cover T3b (2-00653)



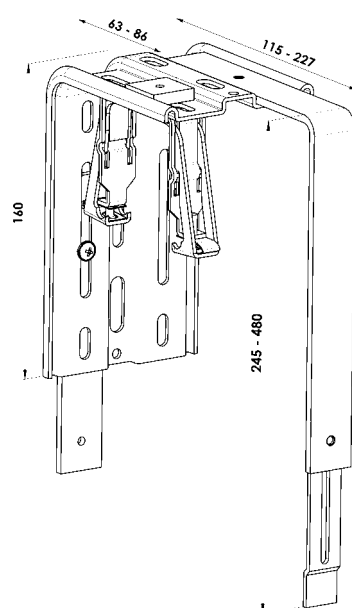
P008_KBT 7 (6-010604-0007)
(for head rail 56 x 58)



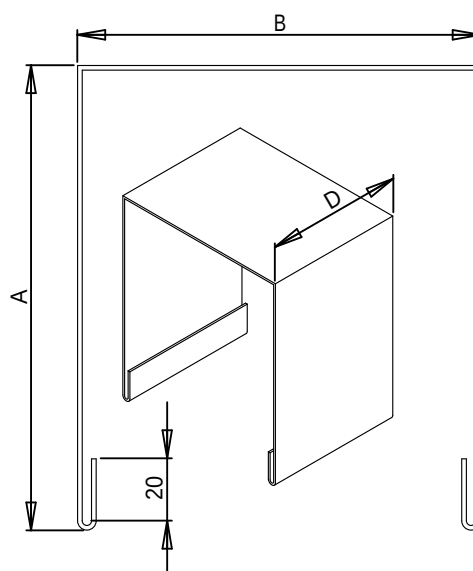
Front cover T1c (2-00665)



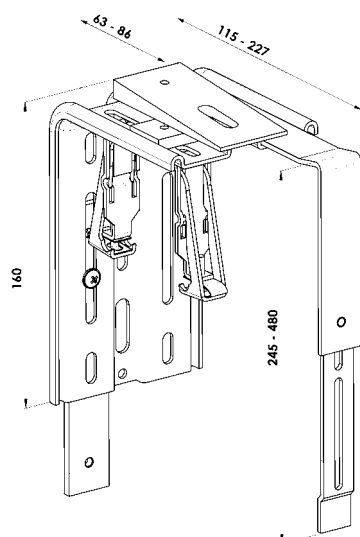
P008_KBT 8 (6-010604-0008)
(for head rail 56 x 58)



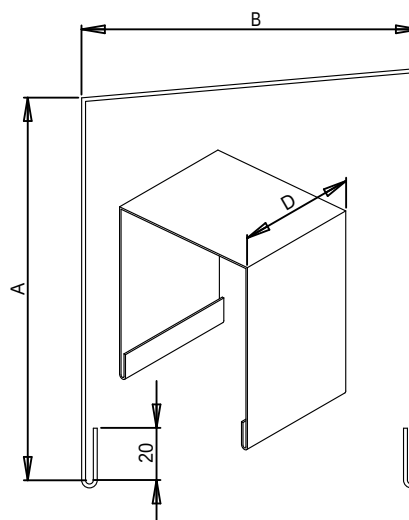
Front cover T4c (2-00666)



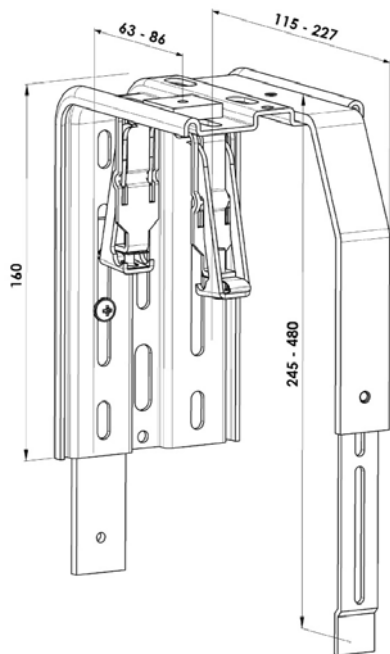
P008_KBT 9 (6-010604-0009)
(for head rail 56 x 58)



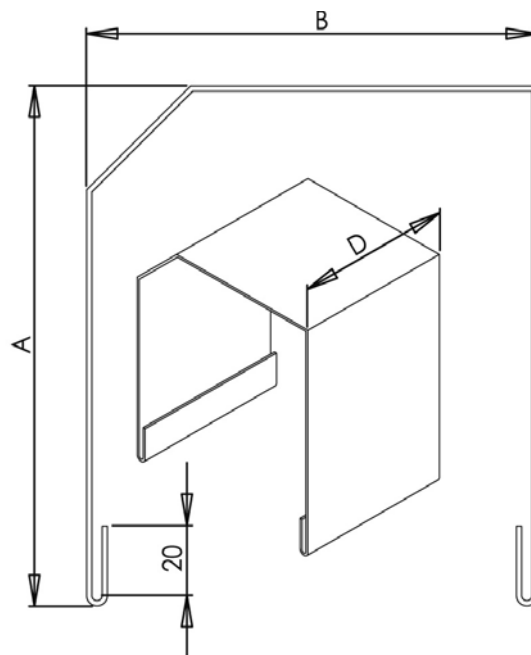
Front cover T4s (2-00660)



P008_KBT 10 (6-010604-0010)
(for head rail 56 x 58)

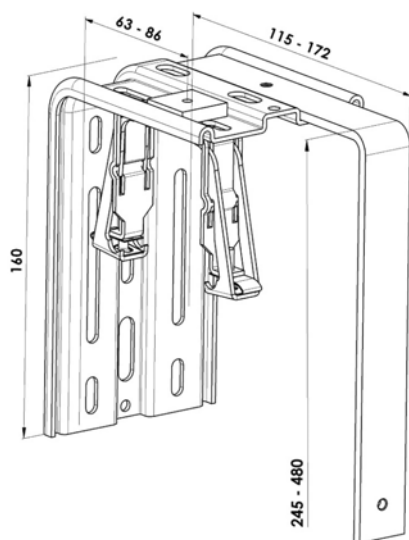


Front cover T4b (2-00654)

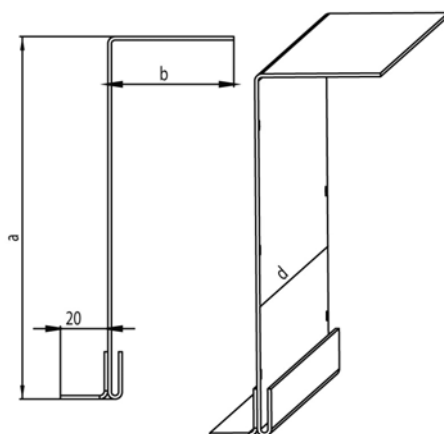


Holders for Applications under Plastering

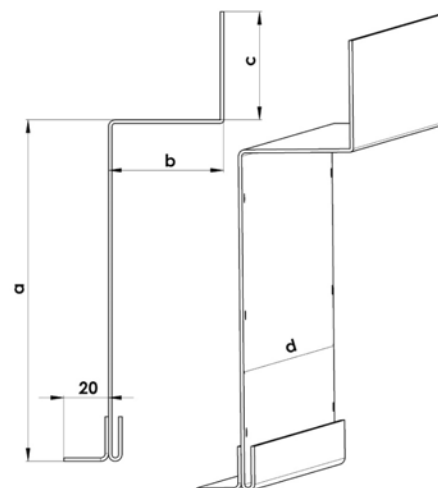
P008_KBT 6 (6-010604-0006)
(for head rail 56 x 58)



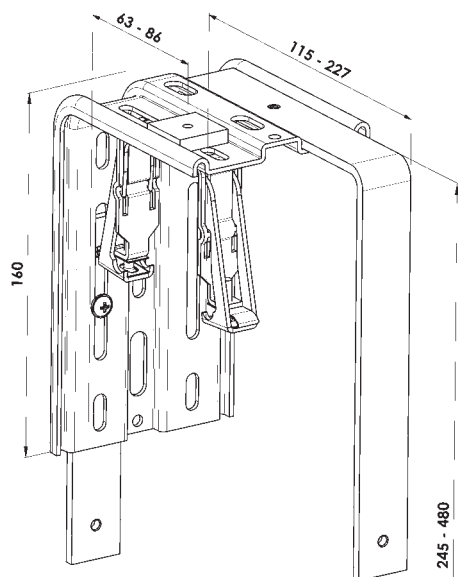
Front cover T2u (2-00662)



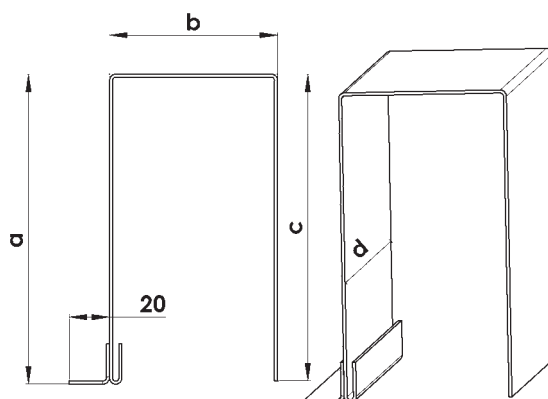
Front cover T3u (2-00663)



P008_KBT 11 (6-010604-0011)
(for head rail 56 x 58)

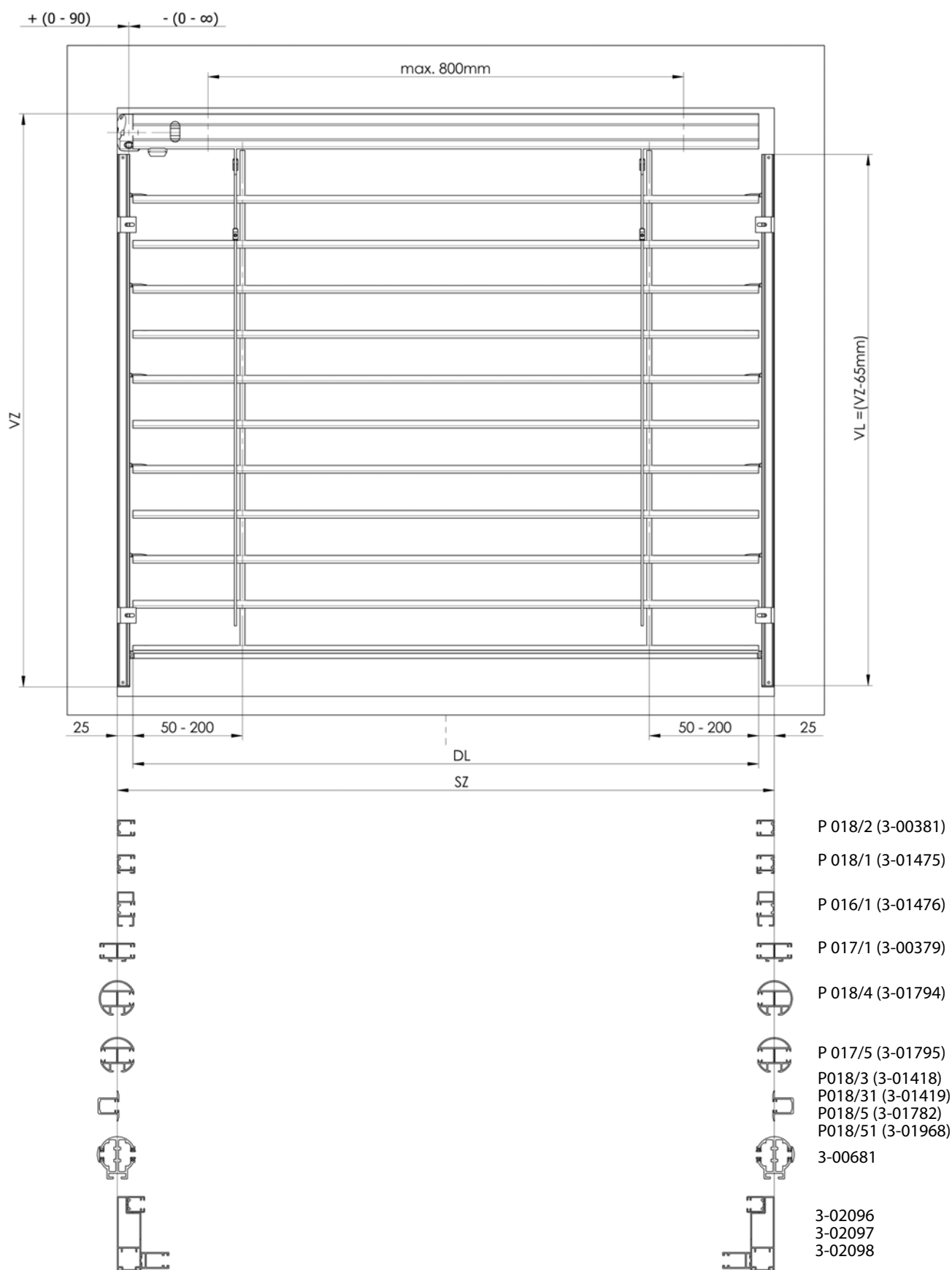


Front cover T4u (2-00664)



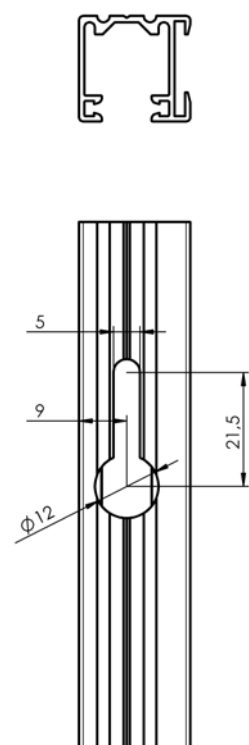
Guidance - Guiding Channel

Guiding channels applies to: Cetta 50, Cetta 65, Cetta 80, Cetta 80-Flexi, Zetta 70, Zetta 90, Setta 65, Setta 90

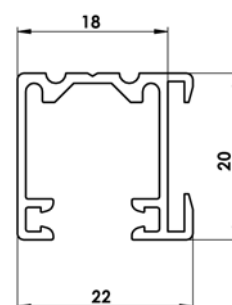


SZ - blind width
DL - slat length = blind width - 50 mm
VZ - blind height
VL - guiding channel height = blind height - 56 mm

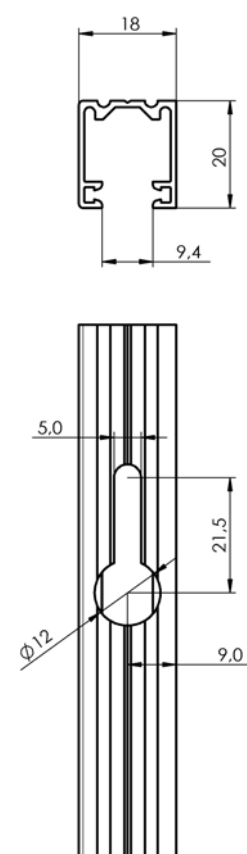
Single Guiding Channel P 018/1 (3-01475)
for installation in lining (with use of bracket)



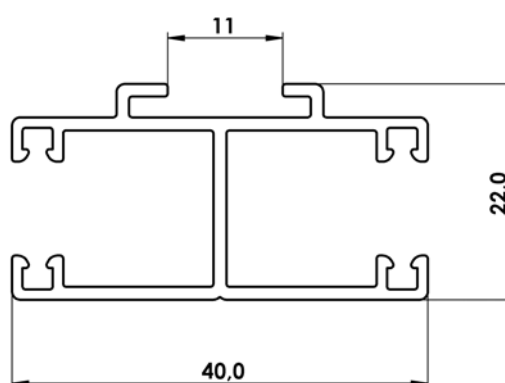
Single Guiding Channel P 018/1 (3-01475)
for installation on frame and façade (with use of bracket)



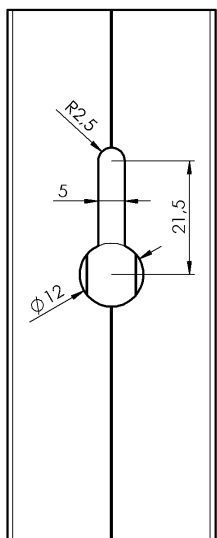
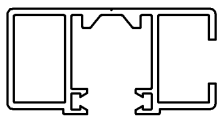
Single Guiding Channel P 018/2 (3-00381)
for installation in lining (without use of bracket)



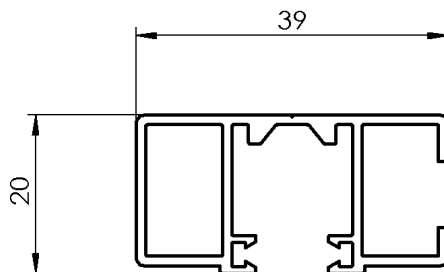
Single Guiding Channel P 017/1 (3-00379)
for installation on frame and façade (with use of bracket)



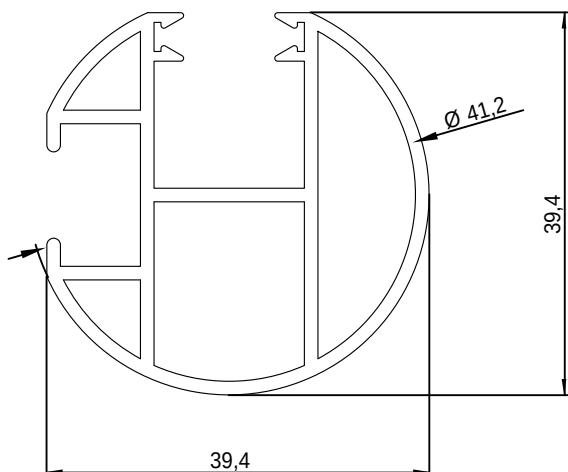
Self-Supporting Guiding Channel P 016/1 (3-01476)
for installation in lining (without use of ejector)



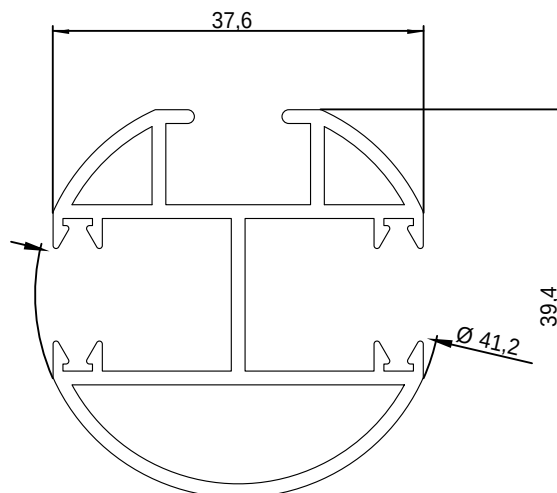
Self-Supporting Guiding Channel P 016/1 (3-01476)
for installation on frame and façade (with use of ejector)



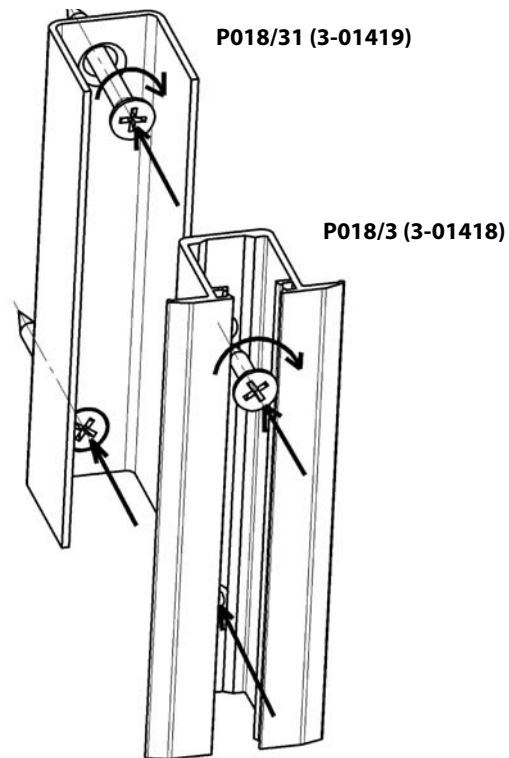
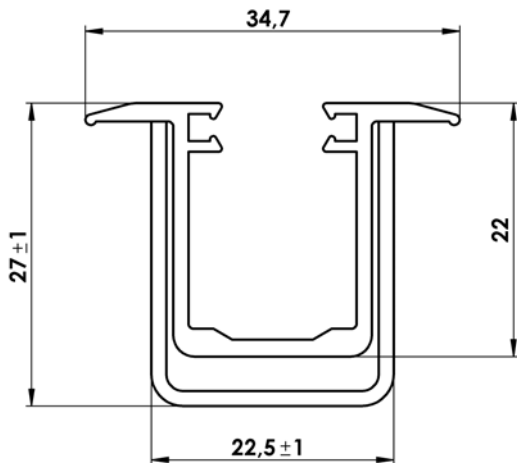
Single-Sided Round Channel P 018/4 (3-01794)
for installation on frame and façade (with use of ejector)



Double-Sided Round Guiding Channel P 017/5 (3-01795)
for installation on frame and façade (with use of ejector)

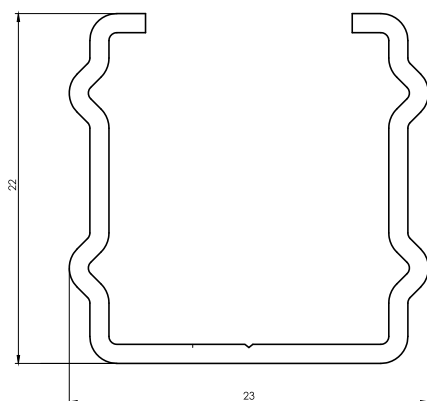


Guiding Channel under Plastering
P018/31 (3-01419) + P018/3 (3-01418)
 for installation under plastering

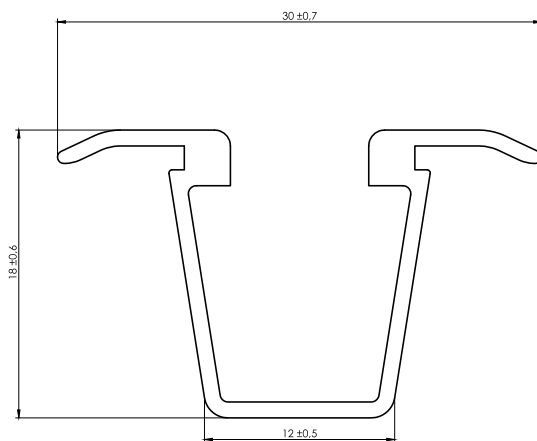


Guiding Channel under Plastering P018/51 (3-01968, Al)
 for installation under plastering

Available from 08-2011

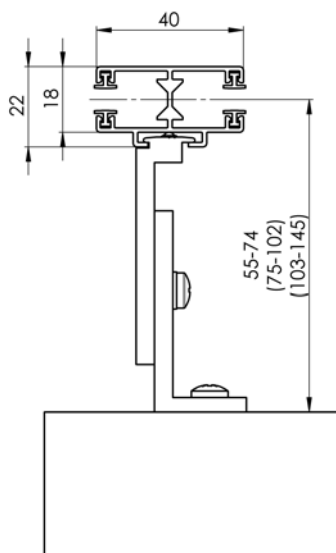


Insert in Channel under Plastering P018/5 (3-01782, PVC)

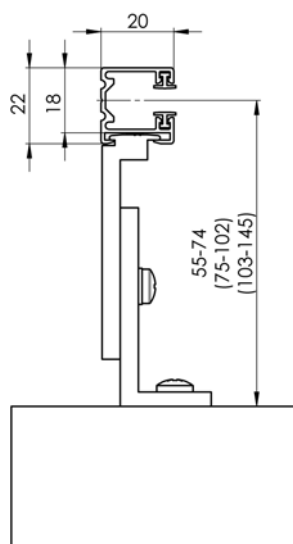


Guiding Channel Holders

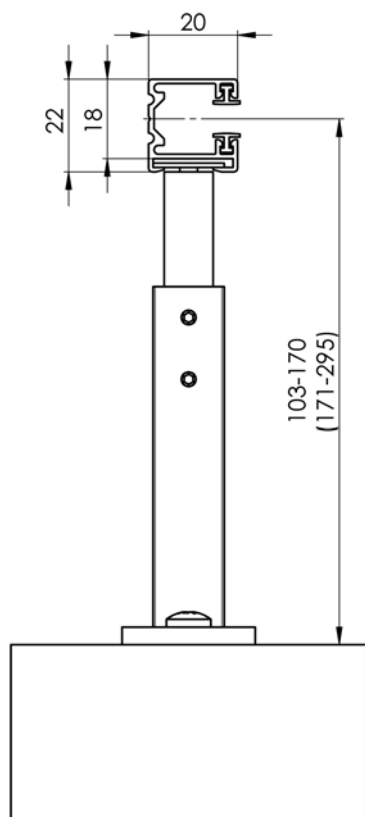
Guiding channel holder, P021 (2-00050) Guiding for
guiding channel P017/1



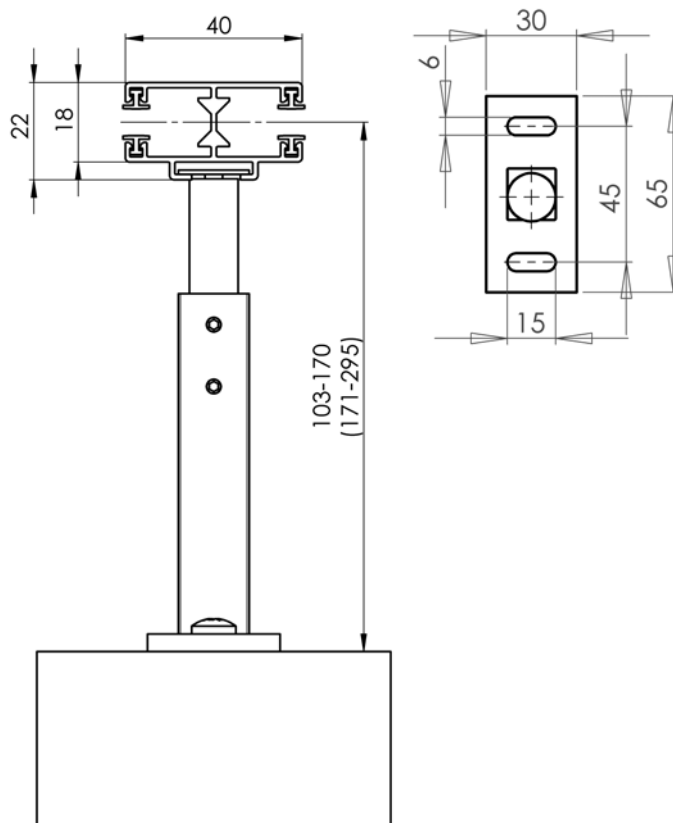
Guiding channel holder, P021 (2-00050) for guiding
channel P018/1



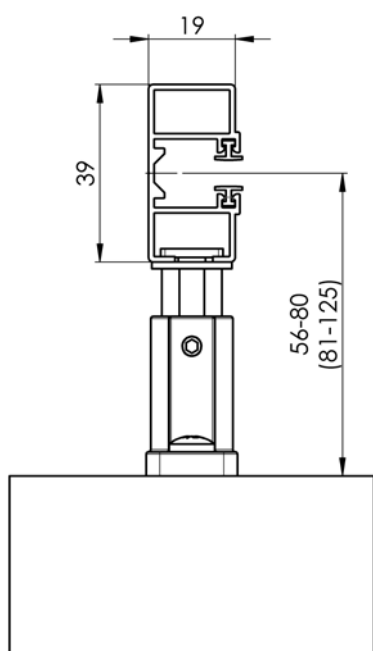
Telescopic guiding channel holder,
P021/3 (6-004497-1700) for guiding channel P018/1,
P 018/4 and P 017/5



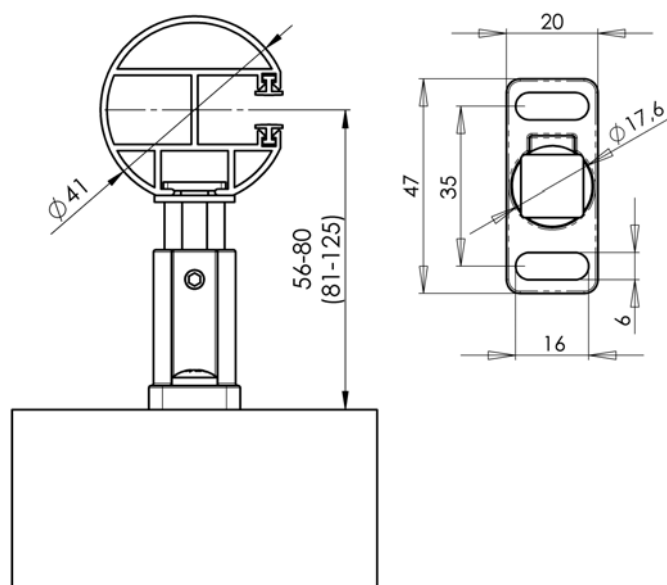
Telescopic guiding channel holder,
P021/4 (6-004497-2950) for guiding channel P018/1,
P 018/4 and P 017/5



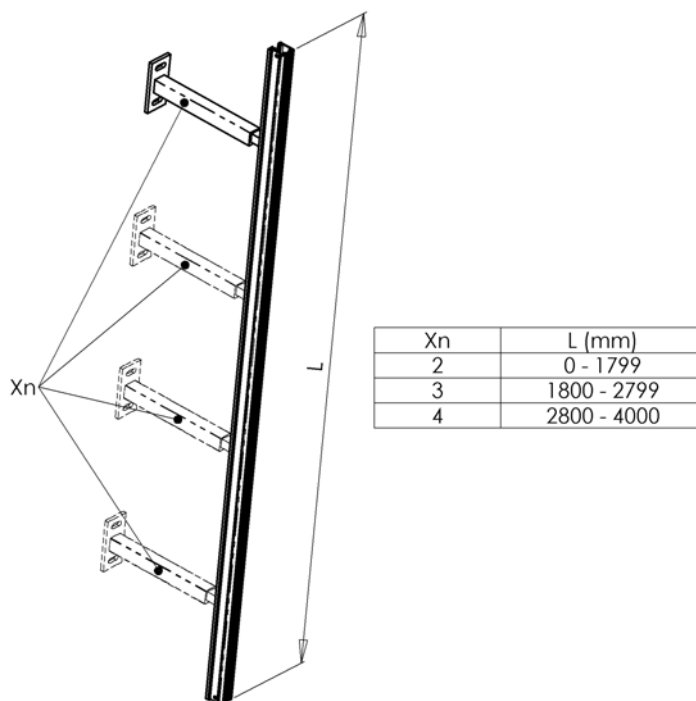
Telescopic guiding channel holder STS, 50 – 70 mm
P021/5 (6-008113) for guiding channel P016/1



Telescopic guiding channel holder, STS, 75 – 120 mm
P021/6 (6-008114)



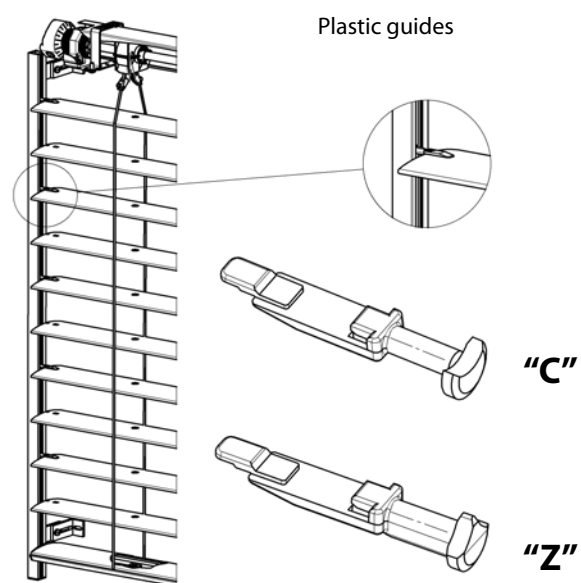
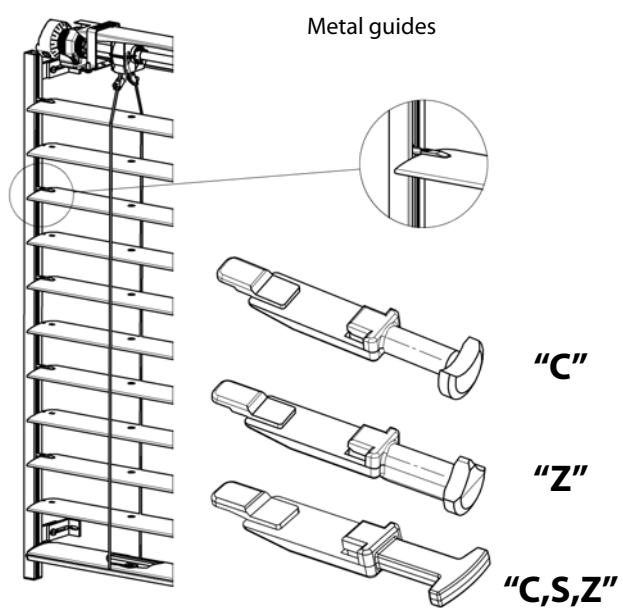
Guiding Channel Holder Type	Distance between Guiding Rail and Window Frame (mm)
Guiding channel holder, 50 - 70 mm P 021	43 - 62
Guiding channel holder, 70 - 100 mm P 021/1	63 - 92
Guiding channel holder, 100 - 145 mm P 021/2	93 - 145
Telescopic guiding channel holder, 104 - 170 mm P 021/3	105 - 170
Telescopic guiding channel holder, 170 - 295 mm P 021/4	170 - 295
Telescopic guiding channel holder STS, 50 - 70 mm P 021/5	50 - 70
Telescopic guiding channel holder STS, 75 - 120 mm P 021/6	75 - 120



Recommended quantity of holders per one guiding channel based on blind height (mm)

Blind height (mm)	Quantity
< 1801	2
1801 - 2800	3
higher than 2800	4

Guide types for Venetian blinds with guidance using guiding channels

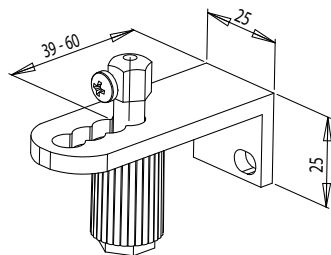


Guidance – Wire

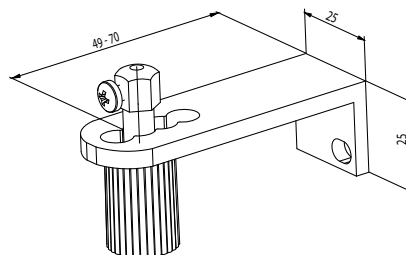
Guide types for wire-guided blinds

(Cetta 35, Cetta 50, Cetta 65, Cetta 80, Cetta 80-Flexi)

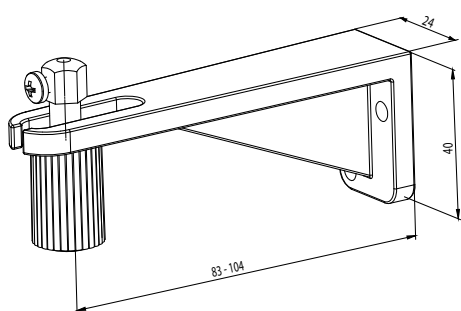
Corner wire guide, 39 - 60 mm P 031 (2-00195)



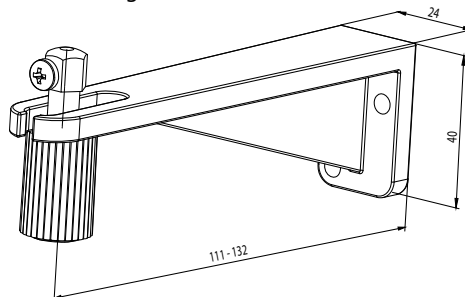
Corner wire guide, 49 - 70 mm P 031/1 (2-00137)



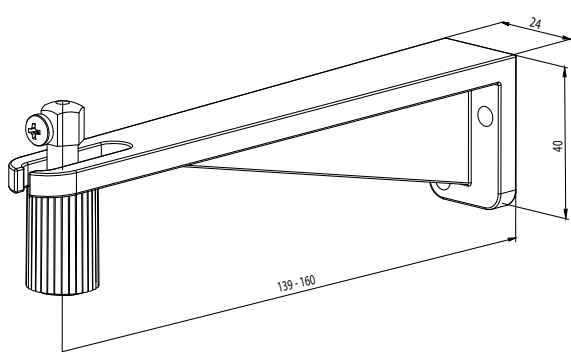
Corner wire guide, 83 - 104 mm 031/2 (2-00136)



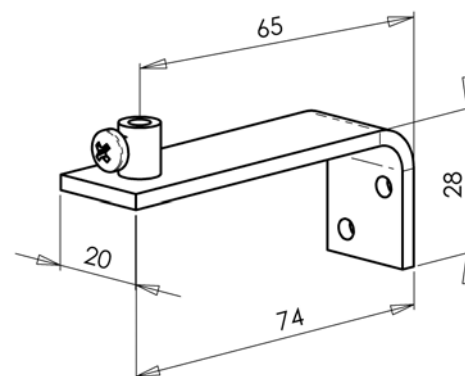
Corner wire guide, 111 - 132 mm P 031/3 (2-00559)



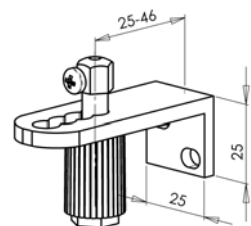
Corner wire guide, 139 - 160 mm P 031/4 (2-00560)



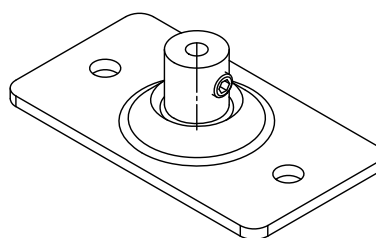
Corner wire guide, P 031/5 (6-009346)



Corner wire guide P 031/6 (2-00822)



Stretching square P043/1 (6-011032)



Typ vodítka lanka	Vzdálenost lanka od rámu okna (mm)
Corner wire guide, 39 - 60 mm P 031	39 - 60
Corner wire guide, 49 - 70 mm P 031/1	49 - 70
Corner wire guide, 83 - 104 mm P 031/2	83 - 104
Corner wire guide, 111 - 132 mm P 031/3	111 - 132
Corner wire guide, 139 - 160 mm P 031/4	139 - 160
Corner wire guide, P 031/5	76
Corner wire guide, 25 - 46 mm P031/6	65

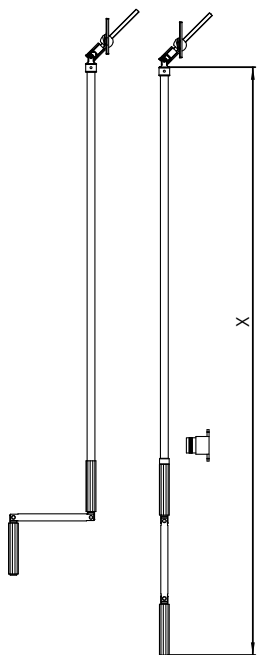
Distance between wire guide and window frame

There are 3 different distances between wire and window frame for Cetta 50. This distance is given by the spacing of apertures in the corner guide.

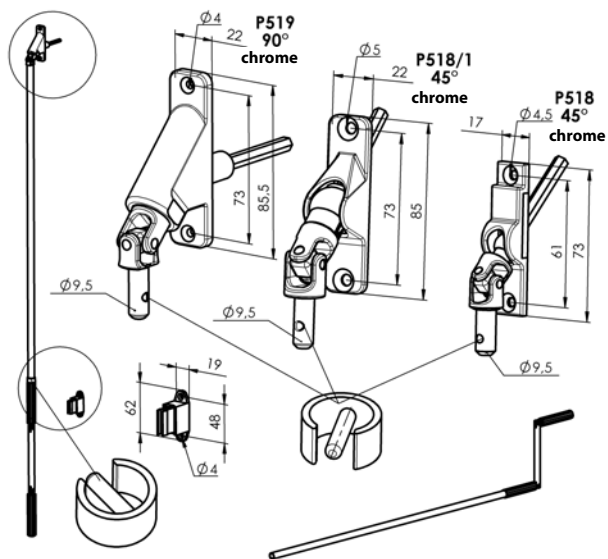
A corner guide with optionally regulated distance between wire and window frame is designated for Cetta 65 and Cetta 80.

Control – Handle

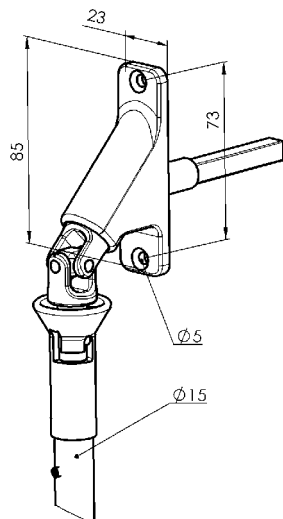
Handle length determination



Handle hexagonal 45° and 90° (P 150/1, 2-00298)
(Cetta 50)

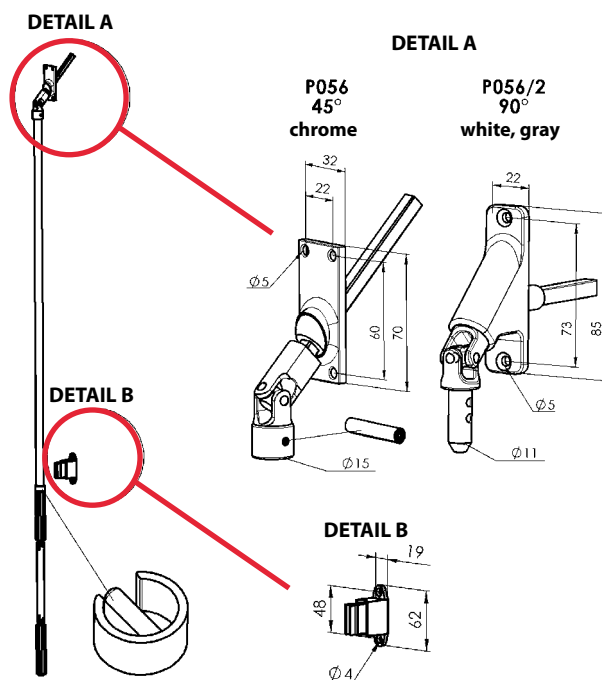


Handle square 90° removable (P 150/4, 2-00581)
(Cetta 65, Setta 65, Cetta 80, Cetta 80-Flexi, Zetta 70, Zetta 90, Setta 90)

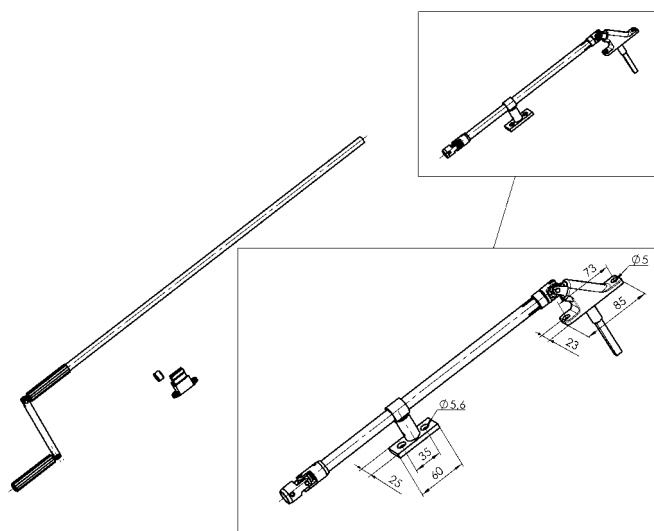


Handle types

Handle square 45° and 90° (P 150/2, 2-00299)
(Cetta 65, Setta 65, Cetta 80, Cetta 80-Flexi, Zetta 70, Zetta 90, Setta 90)

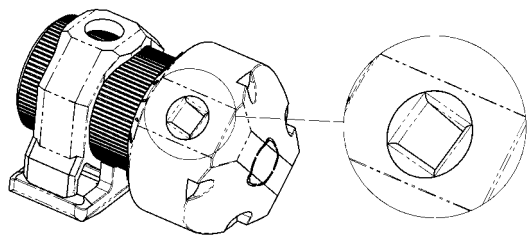


Handle square 90° with cardan (P 150/3, 2-00300)
(Cetta 65, Setta 65, Cetta 80, Cetta 80-Flexi, Zetta 70, Zetta 90, Setta 90)

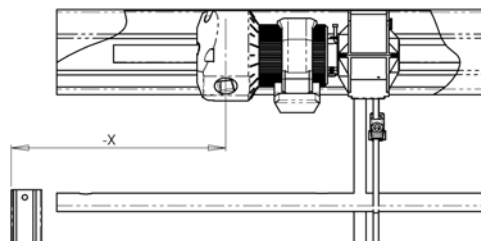


Gearing Type

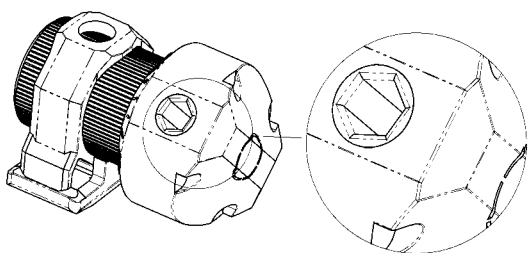
Gearing with square aperture
P045 (6-001179)



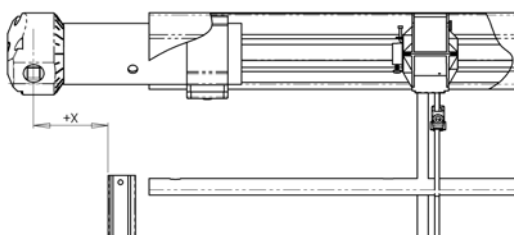
Gearing with square aperture, through
P045/1 (6-001180)



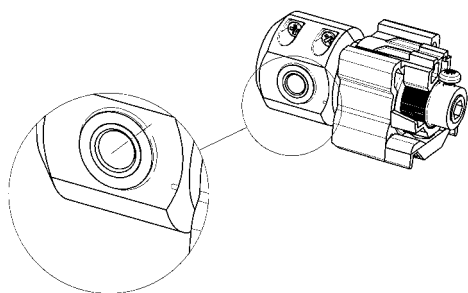
Gearing with hexagonal aperture
P045/2 (6-003417)



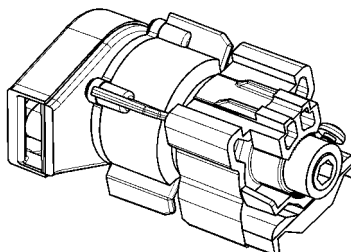
Gearing with hexagonal aperture, extended (STS)
P045/4 (6-008115)



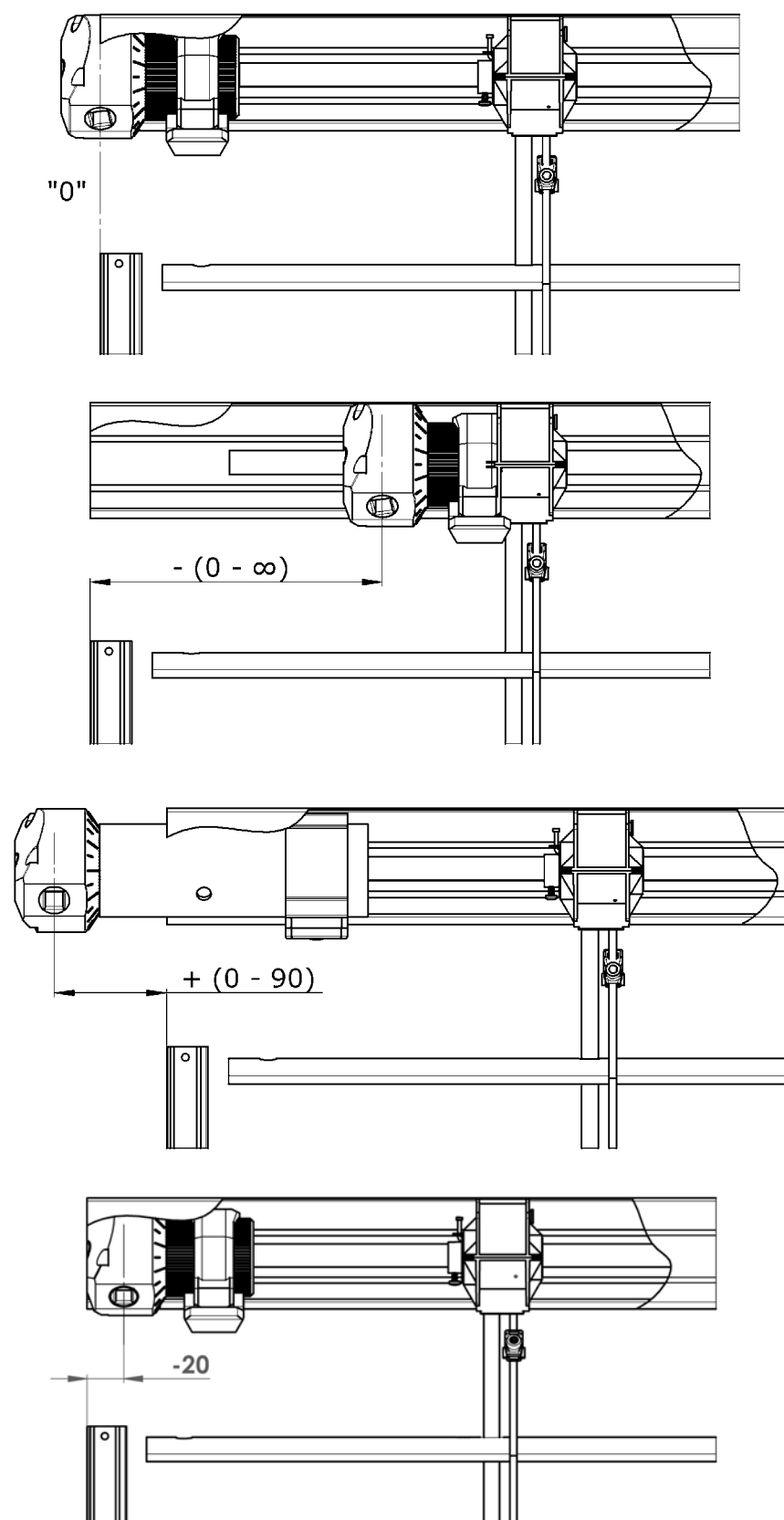
Gearing with hexagonal aperture for handle control
(Cetta 35, Cetta 50)
P228 (2-00132)



Gearing for cord control
(Cetta 35, Cetta 50)
P227 (2-00133)



Gearing Shift Scheme



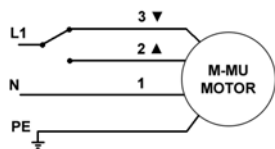
The gearing position (possible shift) in the head rail depends on the specific mounting of frame window, reveal. The gearing axis is the distance of the gearing center axis from the outer edge of guiding channel, or outer edge of slat in the case of the steel wire guidance.

Safety Instructions:

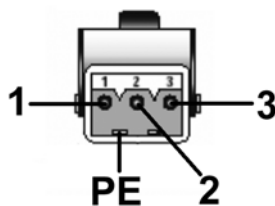
- As soon as you reach the end stop, do not try to continue moving the handle.
- Rotate the handle only in the respective direction, evenly, and without applying force.

Motor control

Motor Wiring Diagram

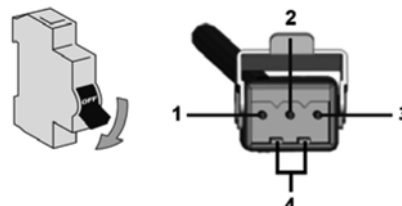


1 - Blue
2 - Black
3 - Brown
PE - Yellow-green



L1 : phase
N : neutral
PE : ground

RTS Motor Wiring Diagram



1 - neutral wire (N)
2 - phase wire (L)
3 - not connected
4 - ground wire (PE)

Parameter	Motor Somfy	Motor Geiger	Motor Elero
Torque	6 - 18 Nm	3 - 20 Nm	5 - 9 Nm
Power Input	90 - 210 W	90 - 190 W	110 - 170 W
Current Consumption	0,41 - 0,7 A	0,4 - 0,85 A	0,45 - 0,85 A
Nominal Voltage	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
RPM	24 rpm	26 rpm	26 rpm
End Switch Capacity	73	80	85
Motor Protection Class	IP54	IP54	IP44
Maximum Operation Time	approx. 6 min.	approx. 6 min.	4 - 5 minutes
Weight	1,35 - 2,41 kg	-	-

Important Instructions:

- The electric equipment can be assembled only by qualified persons.
- Never connect more than one motor to one switch. One switch can control more drives only in the case of group control.

Note: See the manuals of Somfy, Geiger and Elero companies for detailed wiring diagrams.

Setting of Upper and Lower End Position (end stop)

a) Geiger, Elero, Somfy HTM Motors – using the Somfy Installation cable

The motors applied have two integrated, freely adjustable end switches. The white button is the lower stop, the black (color) one is the upper stop.

Setting of Upper End Position:

- Lower the Venetian blind using the installation cable approximately 300 mm below the required end position.
- Note: the installation cable is not, however, required for setting the end stops in this case.
- Press the black setting button on motor.
- Lift the Venetian blind to the required upper end position.
- Lower the Venetian blind for approximately 6 seconds downwards until the black setting button jumps out (clicks) audibly.

The upper end position is now set.

The motors have another upper end stop integrated, the emergency one. It is the "mushroom" in the motor bodies that automatically switches the Venetian blinds off only when moving up at anytime, whenever touched by the upper blind slat.

Setting of Lower End Position:

- Lift the Venetian blind approximately 300 mm above the required end position.
- Press the white setting button on the motor.
- Lower the Venetian blind to the required lower end position.
- Lift the Venetian blind for approximately 6 seconds upwards until the white setting button jumps out (clicks) audibly.

The lower end position is now set.

The setting can be changed at any time, if required.

Setting Adjustment

When setting the end position, the motor speed is set. If the end position is not set correctly, or if the Venetian blind behavior, and thus the bottom rail end position, has changed due to ambient effects and increased friction, the required end position must be re-set according to the above-described procedure.

b) Setting of end stops of Somfy WT motors – using the Somfy Installation cable

The motors applied do not have visibly adjustable end switches.

Setting of Upper End Position:

- Lower the Venetian blind using the installation cable approximately 300 mm below the required end position.
- Press the following: button RTS on Somfy Installation cable
up and down buttons simultaneously on normal installation cable.
- The motor rotates for approximately 1 second.
- Lift the Venetian blind to the required upper end position.
- Lower the Venetian blind for approximately 3 seconds downwards.

The upper end position is now set.

The motors have another upper end stop integrated, the emergency one. It is the “mushroom” in the motor bodies that automatically switches the Venetian blinds off only when moving up at anytime, whenever touched by the upper blind slat.

Setting of Lower End Position:

- Lift the Venetian blind approximately 300 mm above the required end position.
- Press the following: button RTS on Somfy Installation cable
up and down buttons simultaneously on normal installation cable.
- The motor rotates for approximately 1 second.
- Lift the Venetian blind to the required lower end position.
- Lower the Venetian blind for approximately 3 seconds downwards.

The lower end position is now set.

The setting can be changed at any time, if required.

Setting Adjustment

When setting the end position, the motor speed is set. If the end position is not set correctly, or if the Venetian blind behavior, and thus the bottom rail end position, has changed due to ambient effects and increased friction, the required end position must be re-set according to the above-described procedure.

Recommended Torque for Motor Controlled Blinds (Nm)

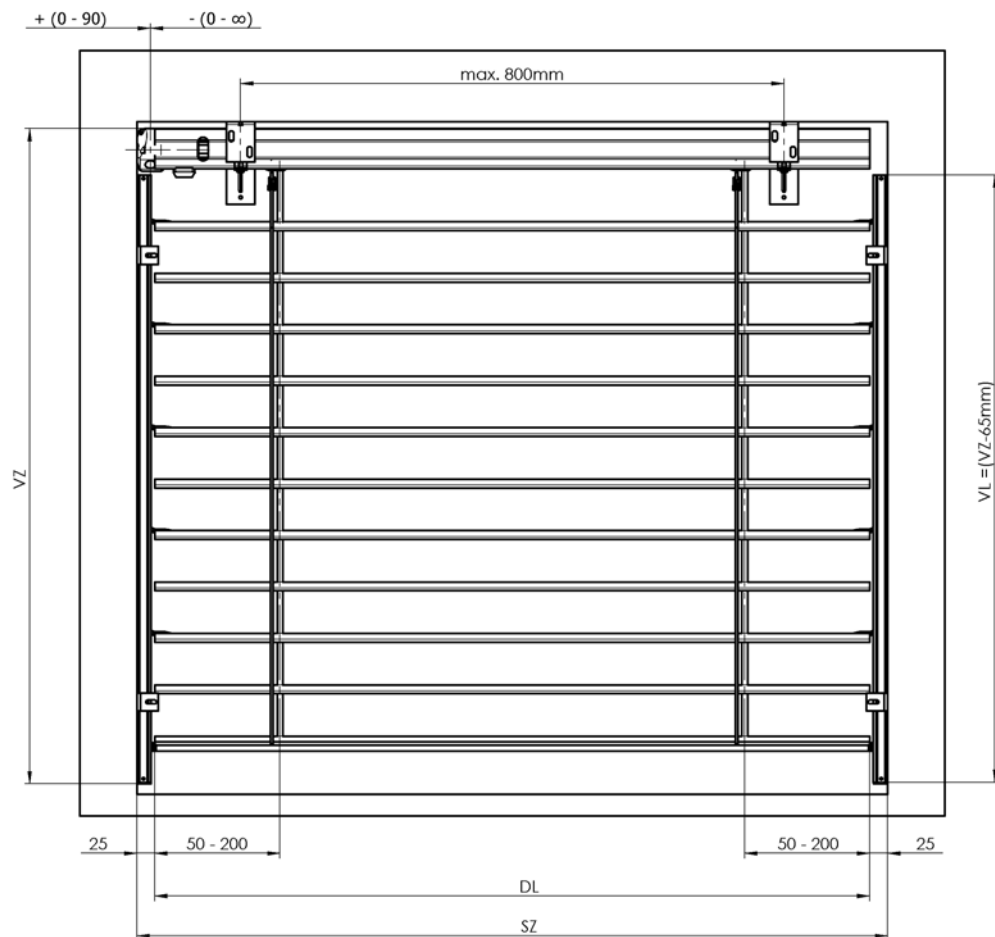
Blind Width (mm) Blind height (mm)										
	400	1800	2400	3000	3600	4200	4800	5400	6600	7200
1000	3	3	3	3	3	3	3	3	3	3
2000	3	3	3	3	6	6	6	6	6	10
3000	3	3	6	6	6	6	10	10	10	20
4000	3	6	6	10	10	10	10	20	20	20

Measurement

Measurement of the Standard Blind

Both width and height is always to be measured in three points. The manufacturing dimension of the exterior blind is always the smallest measured value. Always carry out measuring after the frame is fitted in the construction aperture, event. window after the internal and external reveals are completed, including parapets.

The method of measuring the exterior blinds is such a specific matter that we recommend always consulting the technical aspects on the site. There are other specific solutions available, as well.

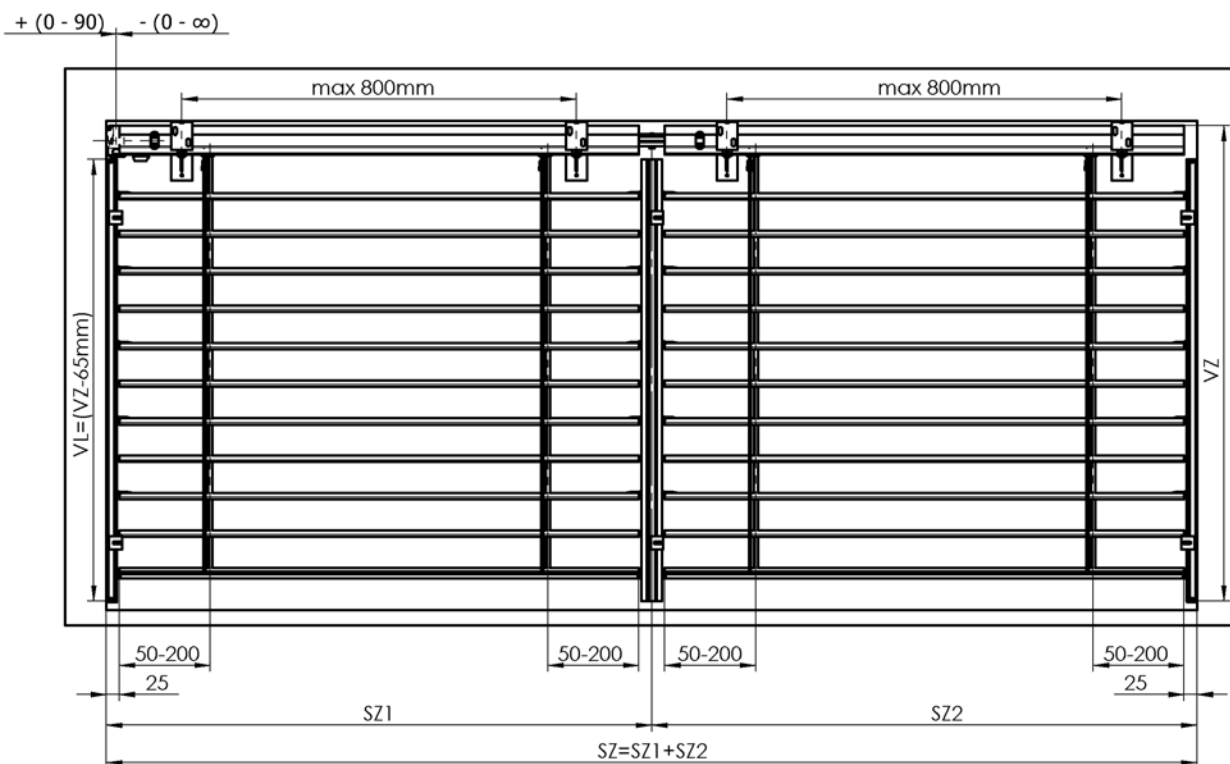


SZ – width of the blind
VZ – height of the blind
DL – length of the lamella
VL – length of the guiding bar
 $VL = VZ - 65\text{ mm}$

The height and the width are always measured in a minimum of three places. The manufacturing dimension is always the minimum measured value. Measurements are taken after the frame or window is fitted into the construction hole after completion of the outside and inside reveals, including parapets. The method of measurement of outdoor blinds is so specific that it is recommended to consult the technical issue in the construction site. Other specific solutions are possible.

In the case of control by the engine, the upper profile is shortened by 5 mm. If it is controlled by handle, the length of the profile depends on the shift of the gearbox. The position of the gearbox (possible shift) in the upper profile depends on the actual fitting of the window frame, reveal. The ladder span depends on the choice of the control (it varies within the range of 50 – 200 mm).

Connected Blind Measuring



Standard Exterior Blind Assembly Procedure

The assembly may only be performed by a qualified professional employee!

Construction preparedness for the assembly:

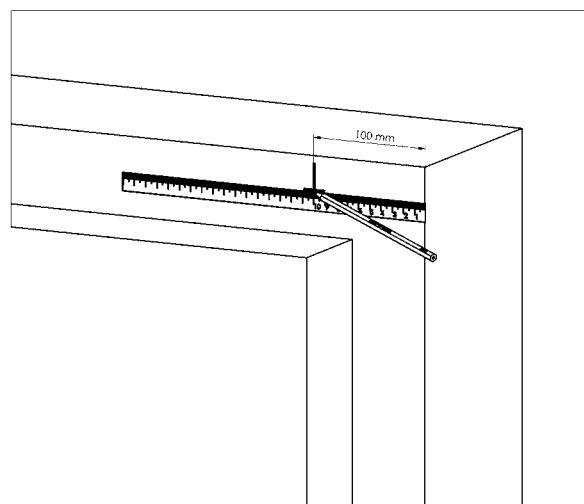
- finished reveal, coloured façade, finished outside parapets

INSPECTION:

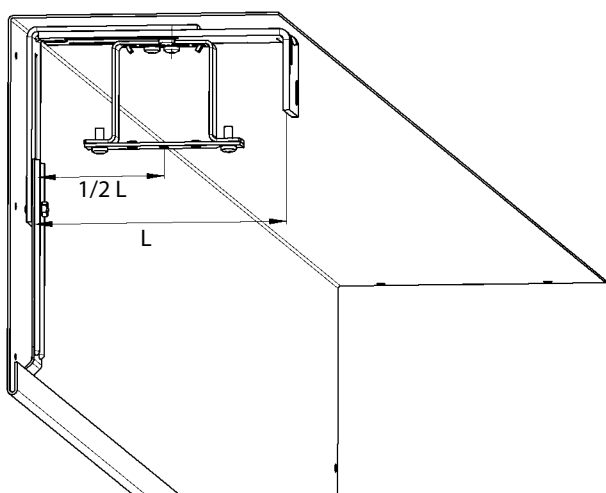
- Before assembly we recommend inspecting all the parts after the delivery of the goods to prevent any problems. The manufacturer must be notified of any defects or comments concerning the assembly or blinds.

ASSEMBLY TOOLS:

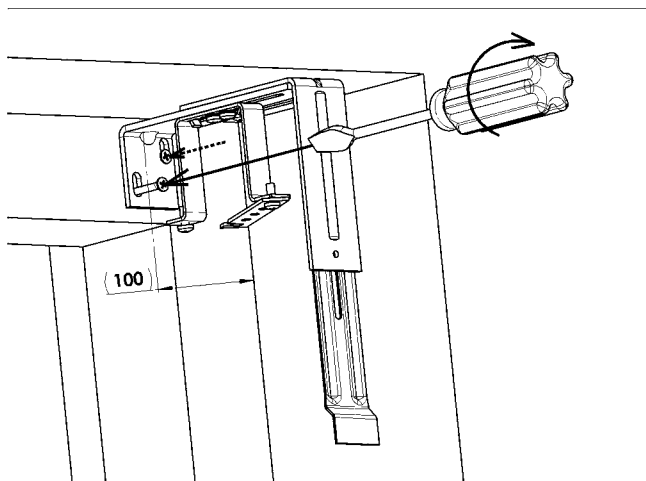
1. Tape measure
2. Water gauge
3. Pencil
4. Hammer
5. Electric drill as per the source material
6. Cordless electric drill
7. Magnetic adapter
8. Bits PZ2, PH2, magnetic adapter on hexagonal head 8 and 10
9. set of Allen wrenches
10. Assembly cable
11. Small ratchet wrench and 8 nut
12. Set of screwdrivers, insulated, electric



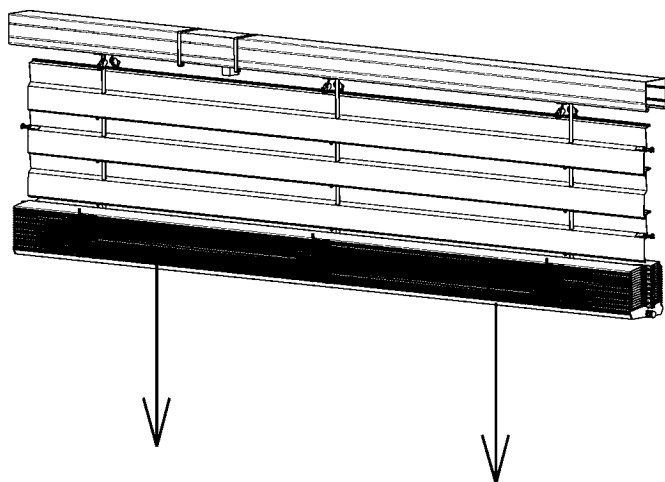
1.



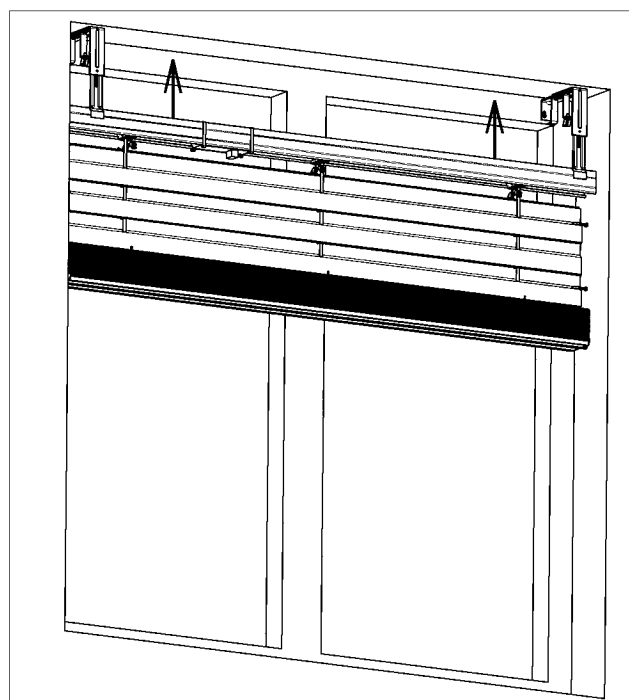
2.



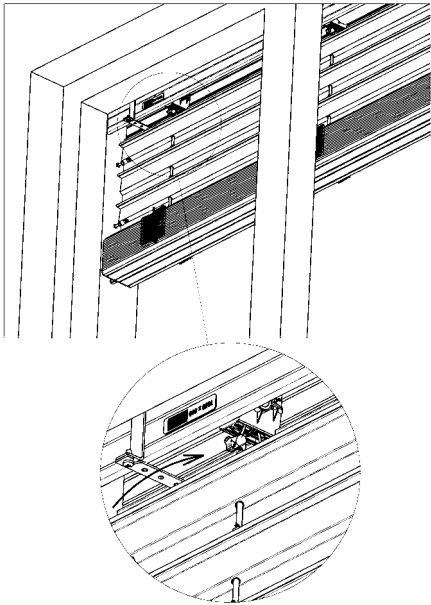
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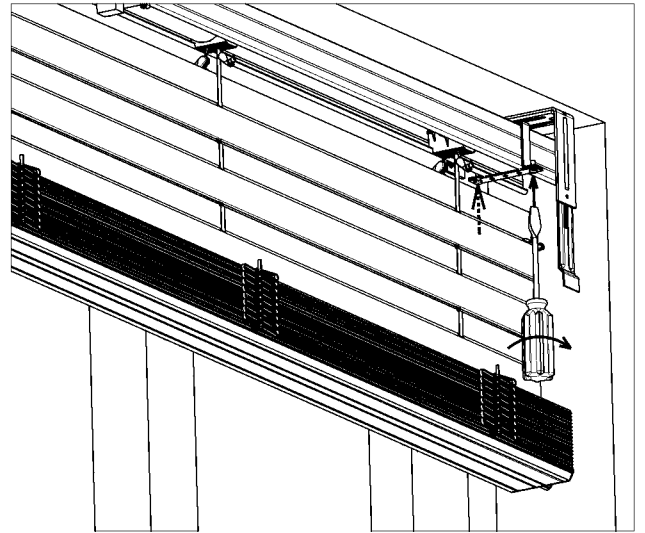
4.



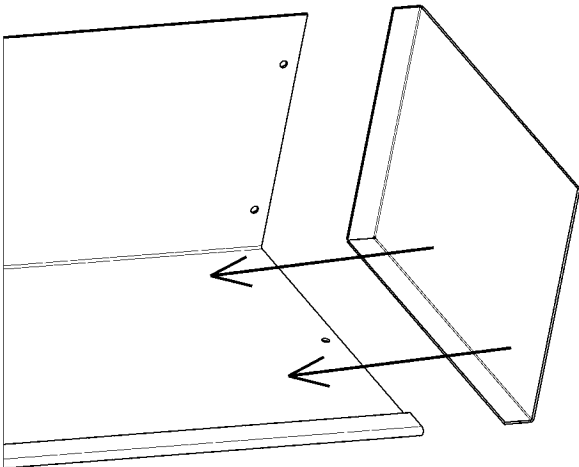
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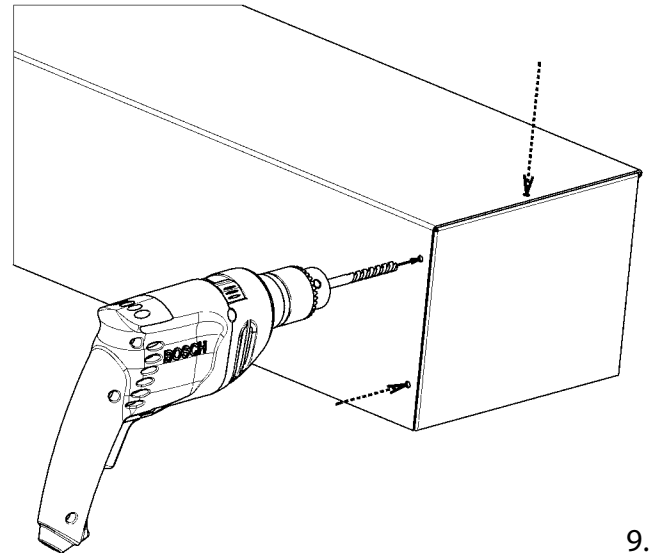
6.



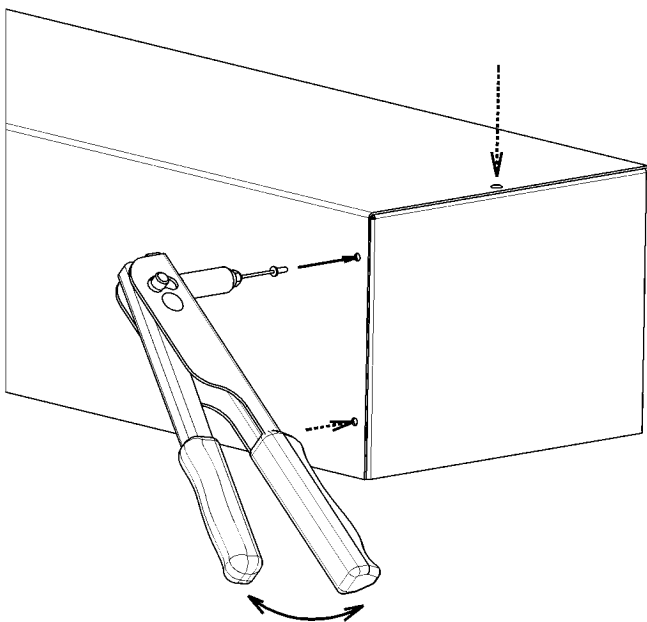
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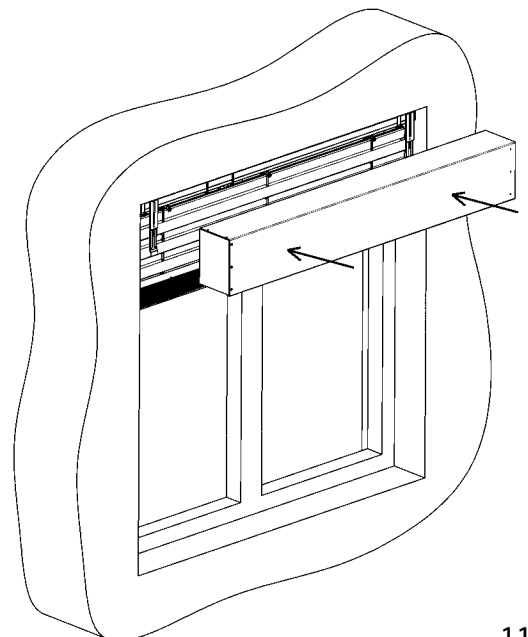
8.



9.

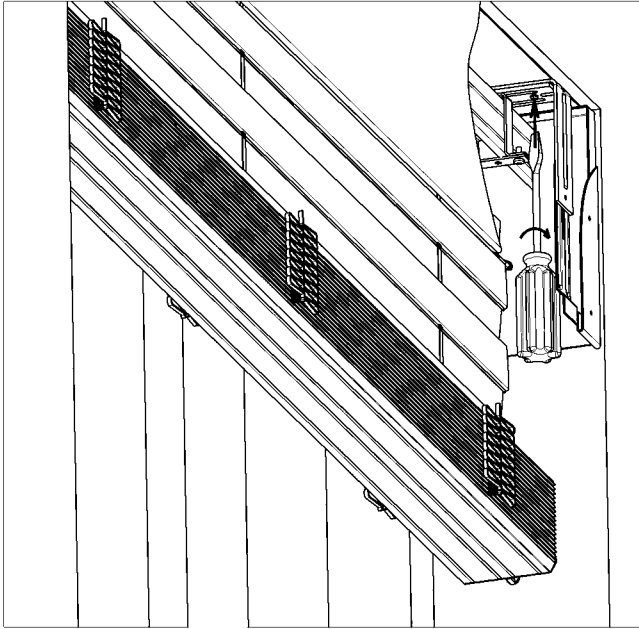


10.

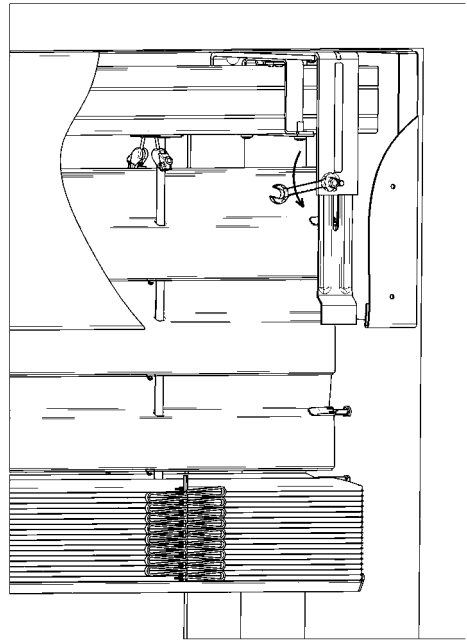


11.

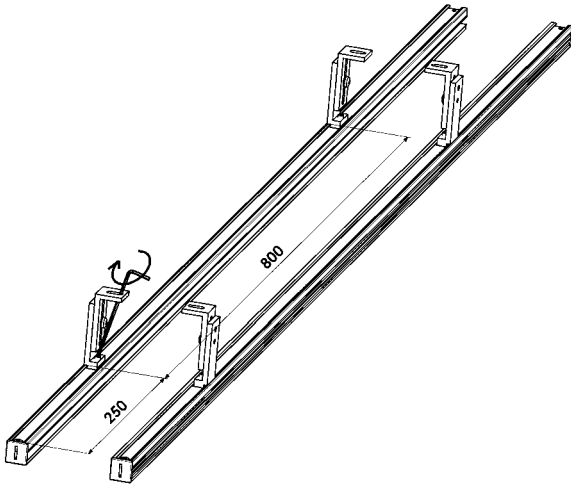
12.



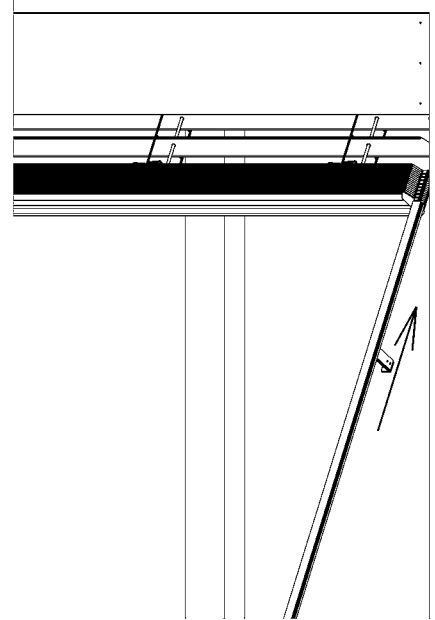
13.



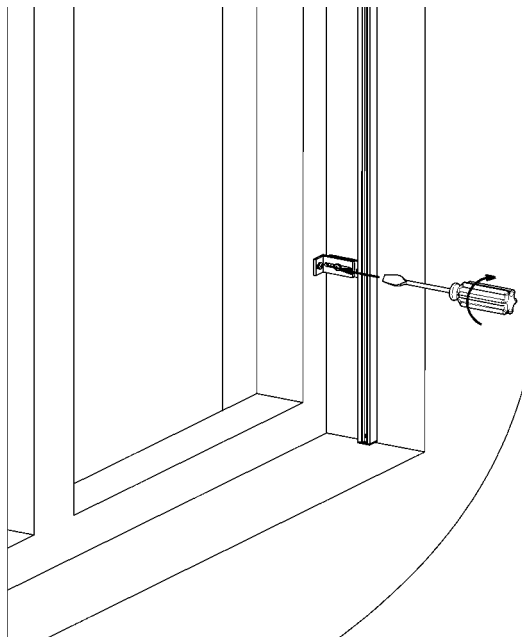
14.



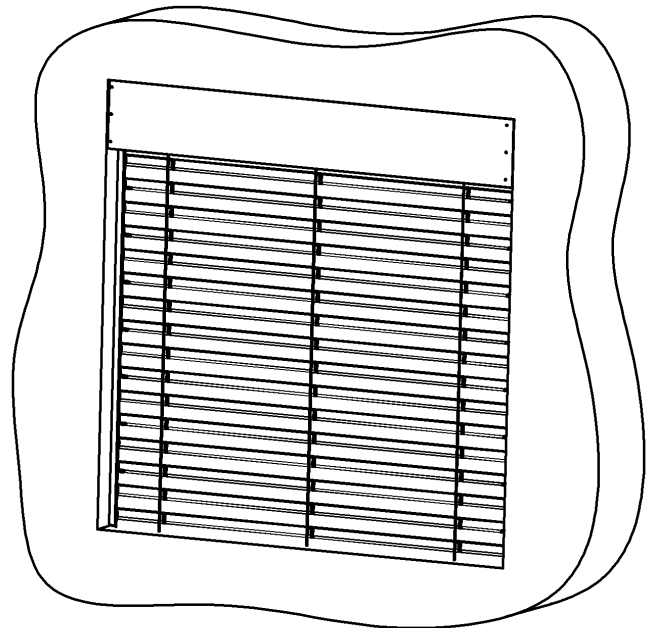
15.



16.

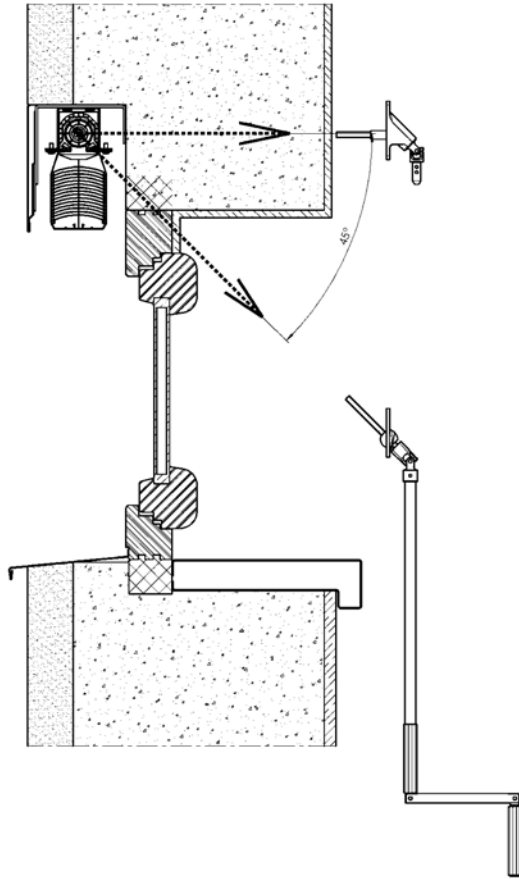


17.

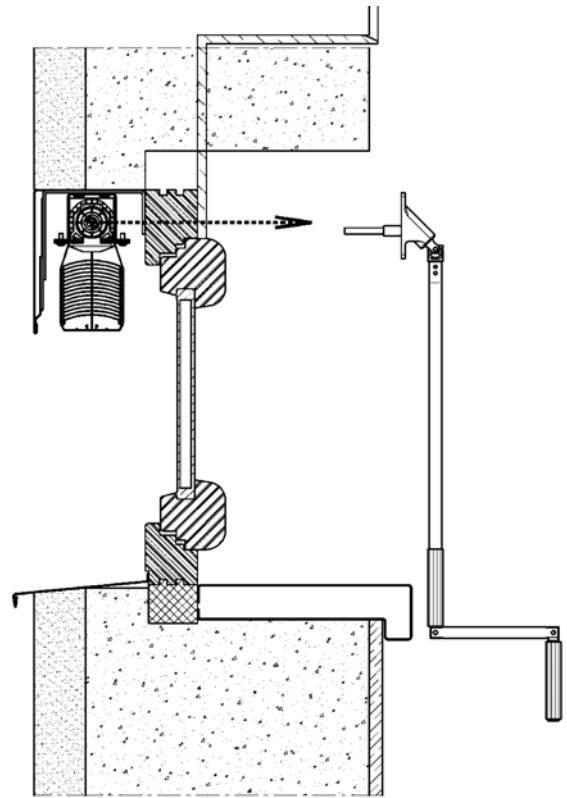


Basic types of assembly

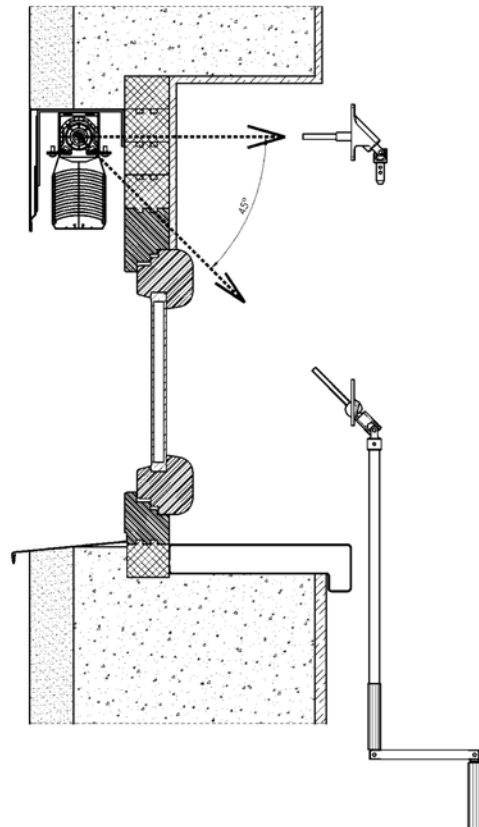
Assembly of the blind into the created pocket
(ceiling/wall)



Assembly of the blind into the reveal on the window frame
(ceiling/wall)



Assembly of the blind into the reveal on
the expansion frame
(ceiling/wall)



There are two alternatives for all three basic assembly types:

a) Cover box

ASSEMBLY PROCEDURE:

1. Measure the hole and compare with already prepared blind, check the control mechanism.
2. Allocate the blind holders so they do not interfere with the cloth strips.
3. Fix the holders horizontally.
4. Insert the blind into the sleeves in the holders and secure. Do not tighten screws for the sleeves.
5. Prepare the passage for control using the handle or the cord. If there is an electric control, connect the socket.
6. From the inside passage attach the handle; if the drift is long, shorten it to the necessary length. Stretch the endless cord through the created hole. Attach the cover for the passage of the cord.
7. Tighten the screws on the sleeves in the holders.
8. On the lamella guides attach the guiding bars which are already fitted with the holders for the guiding bars and attach them on the window frame or into the reveal (for assembly into the reveals, the guiding bar holders are not used and the guiding bar is attached through the holes created in the body of the guiding bar). The guiding bars must be attached in the middle of the upper profile of the blind.
9. Lower the blind into the lower position (attach the holders for wires if the blind has wire guided lamellas). At the same time, check that the guiding bars or wires do not clamp the lamellas. Check the vertical position of the guiding bars.
10. When the lamellas are tilted, attach the cover box to the holders, insert the prolongation of the holder (tighten the fixation screw) into the pocket created on the cover metal sheet and secure the cover sheet using the screw through the hole in the holder for the blind.
11. The blind driven by the engine can be inspected using the assembly cable or adjust the end positions of the engine and the connection to the supply cable.
12. Fix the holders of the handle in the interior. Connect the control switch according to the connection diagram supplied.

b) The cover box incorporated into the heat-insulation system or the peripheral shell

ASSEMBLY PROCEDURE:

1. Attach the blind holders.
2. Attach the cover sheet (can also be with side parts), insert the prolongation for the holder (tighten the fixation screw) into the pocket created in the cover sheet and secure through the hole in the holder with the screw (texem).
3. Drill the passage for control by the handle.

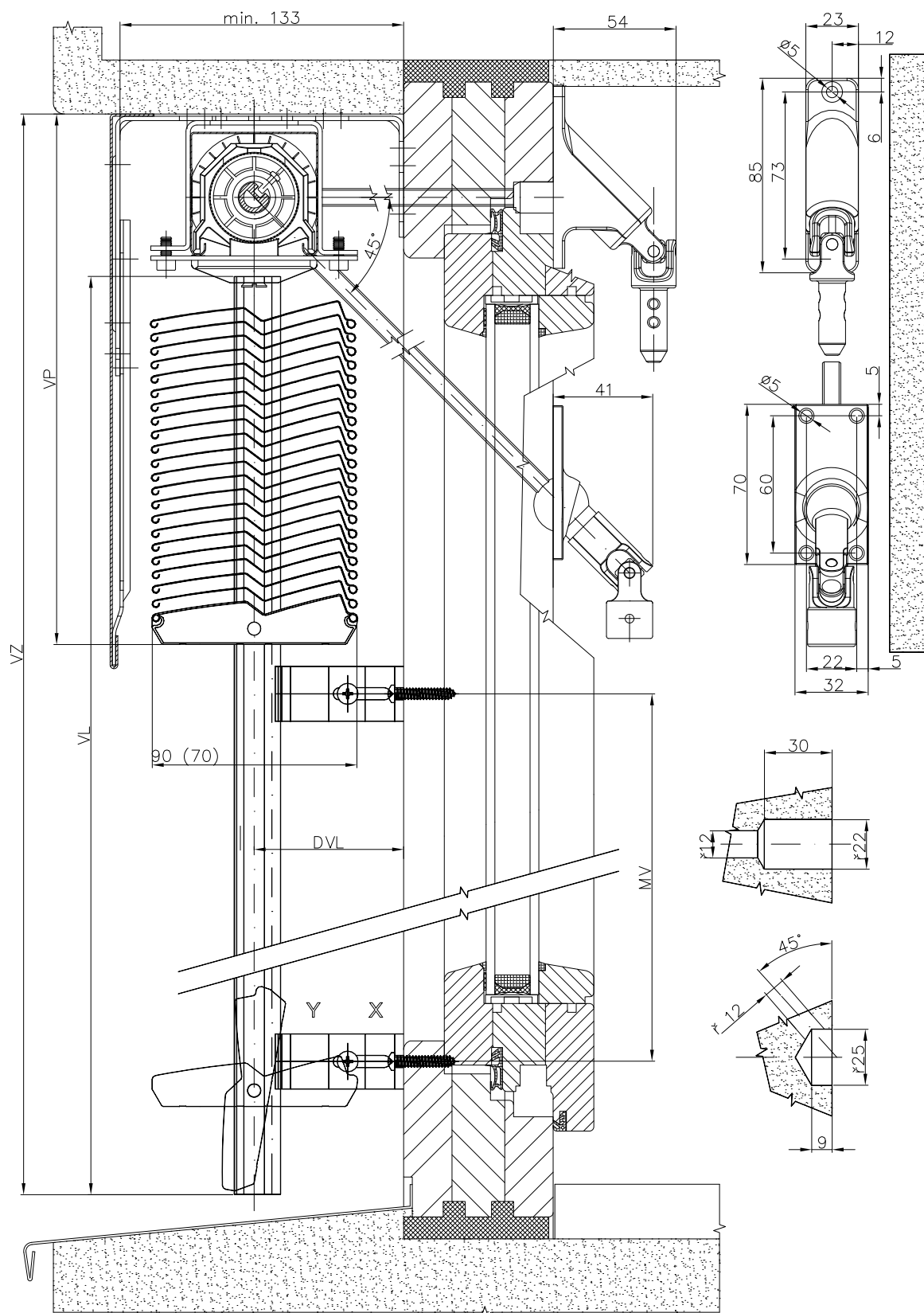
After heat insulation or production of the peripheral shell, the assembly of the blind is according to the previous manual.

ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance in guiding channel

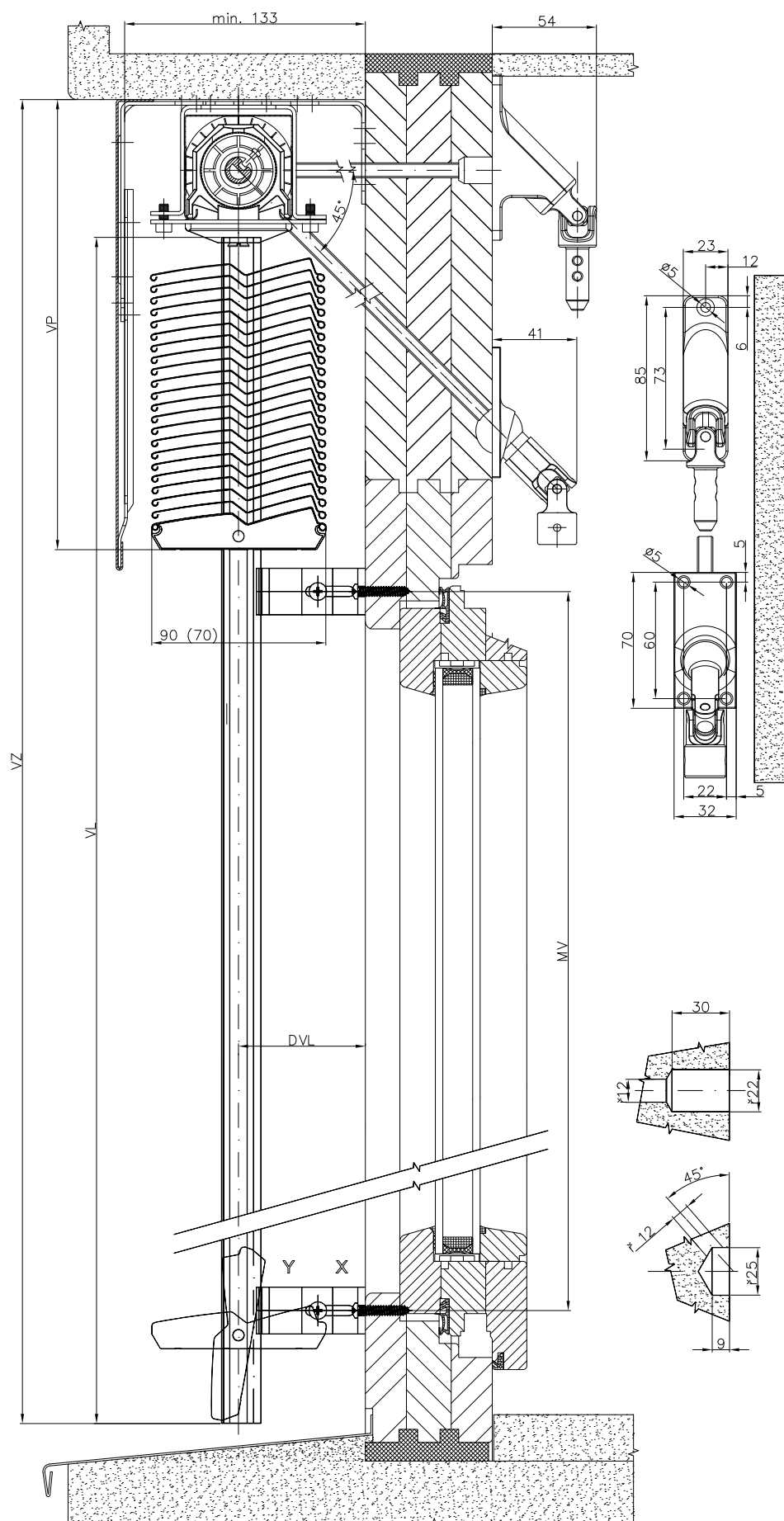


ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

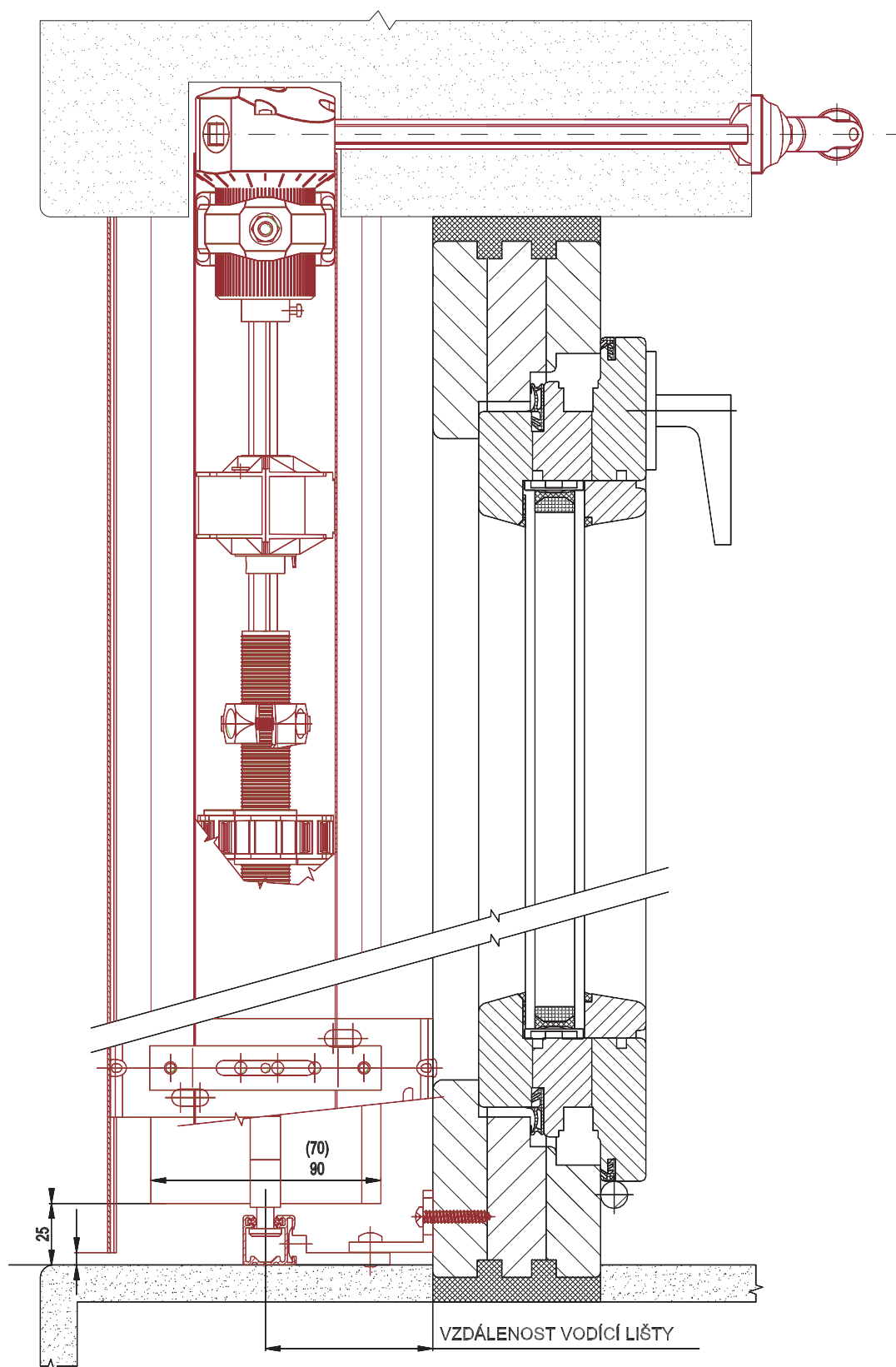
Slat guidance in guiding channel – with extension



ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

HORIZONTAL SECTION

HANDLE CONTROL

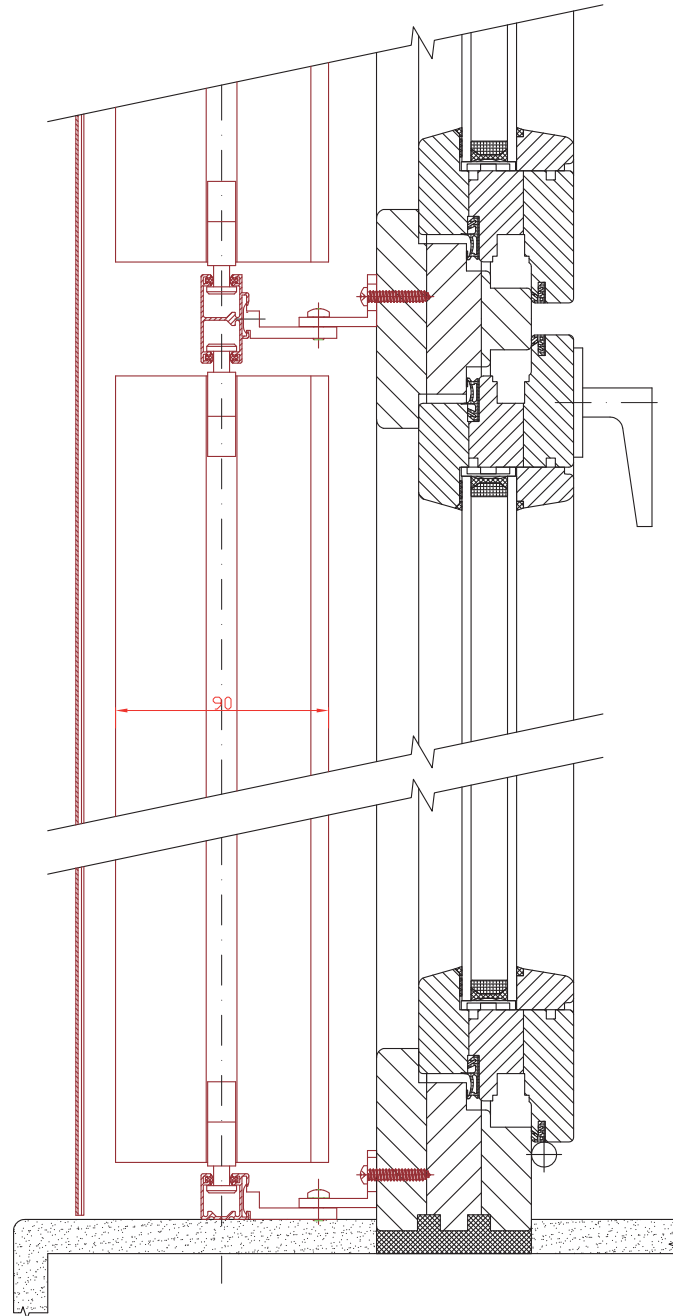


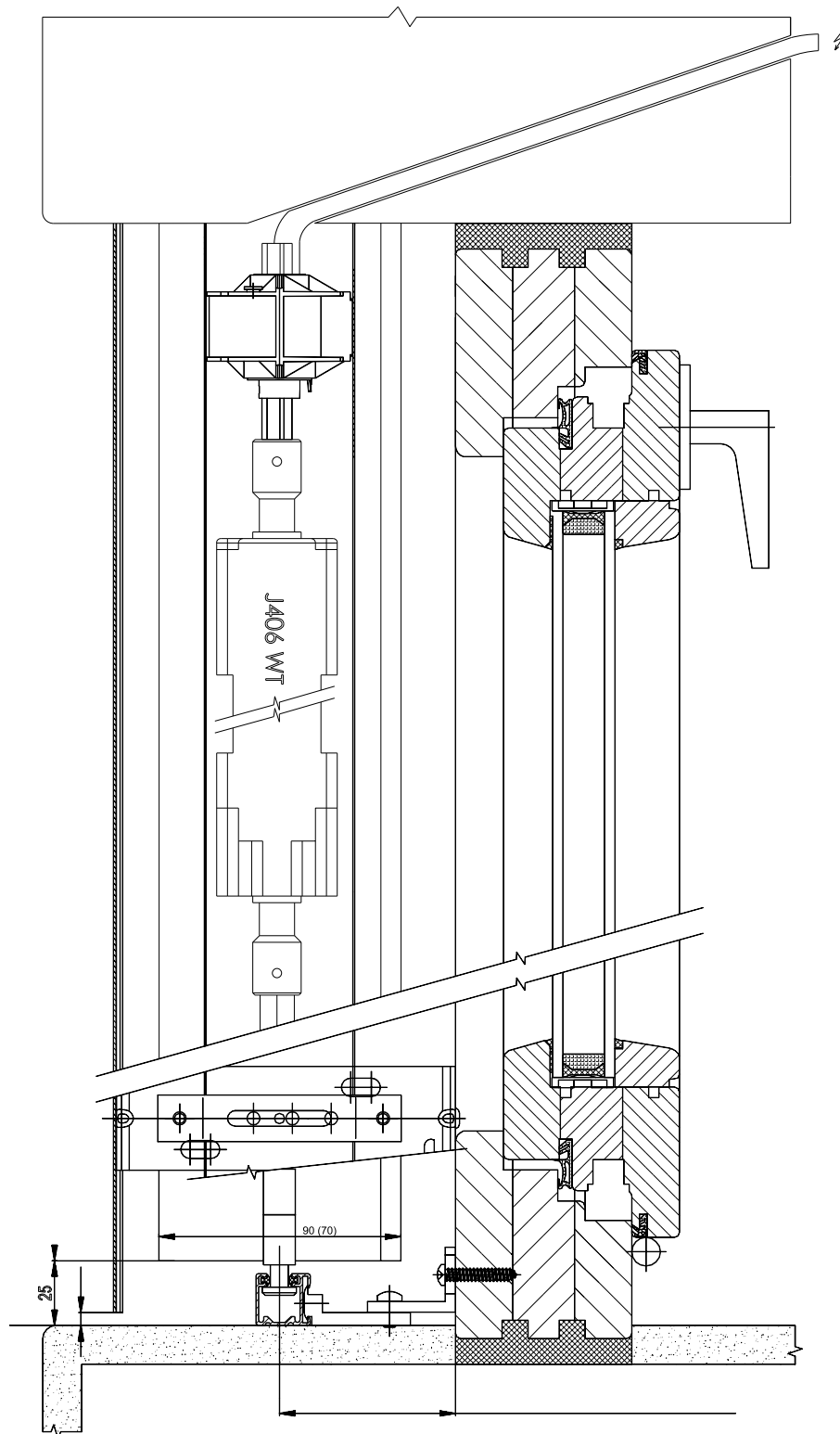
ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

HORIZONTAL SECTION

HANDLE CONTROL

Slat guidance in double guiding channel



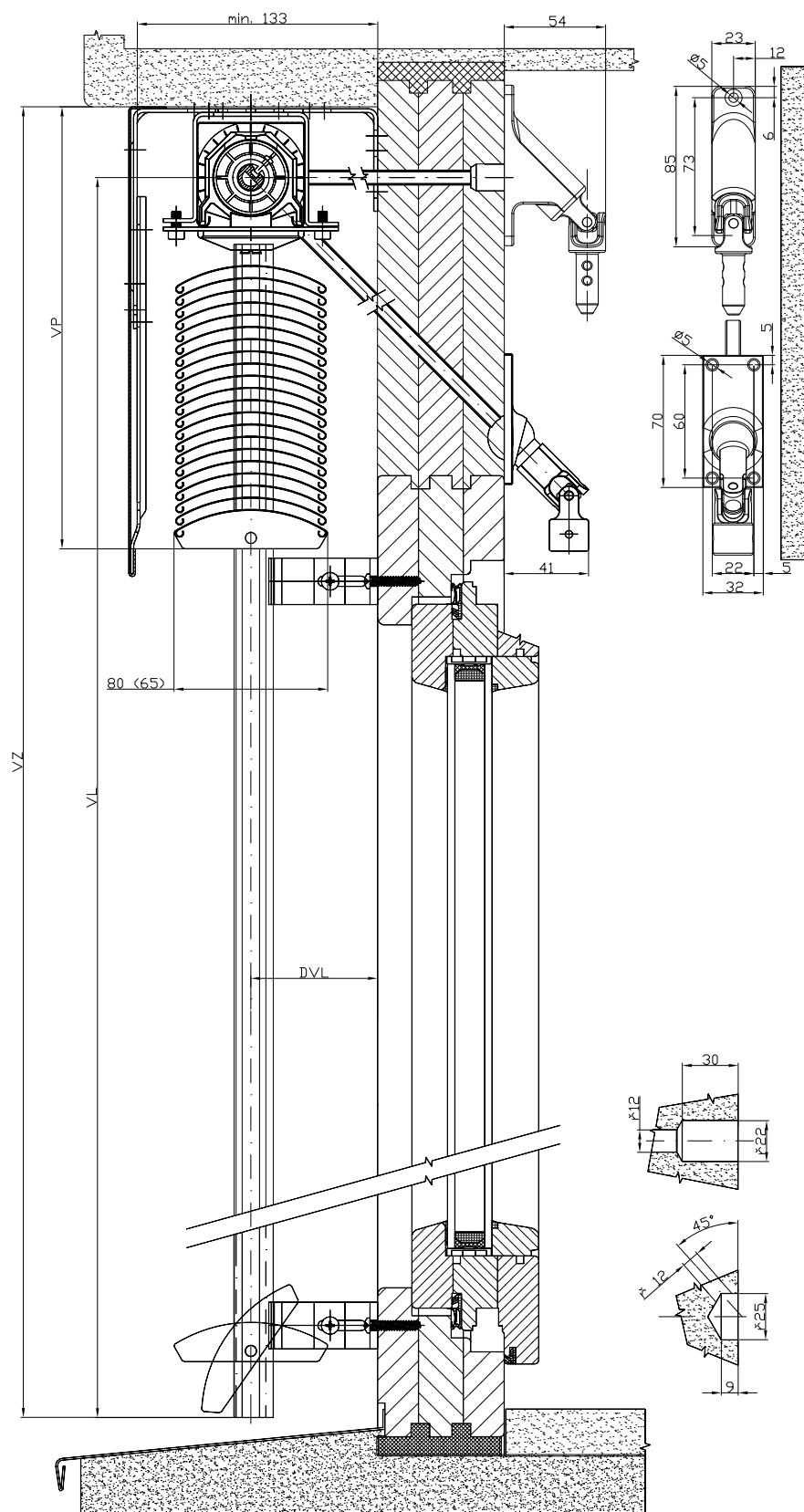
ZETTA 70,90 EXTERIOR BLIND DIAGRAM**HORIZONTAL SECTION****MOTOR CONTROL**

CETTA 80, CETTA 65 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance in guiding channel.

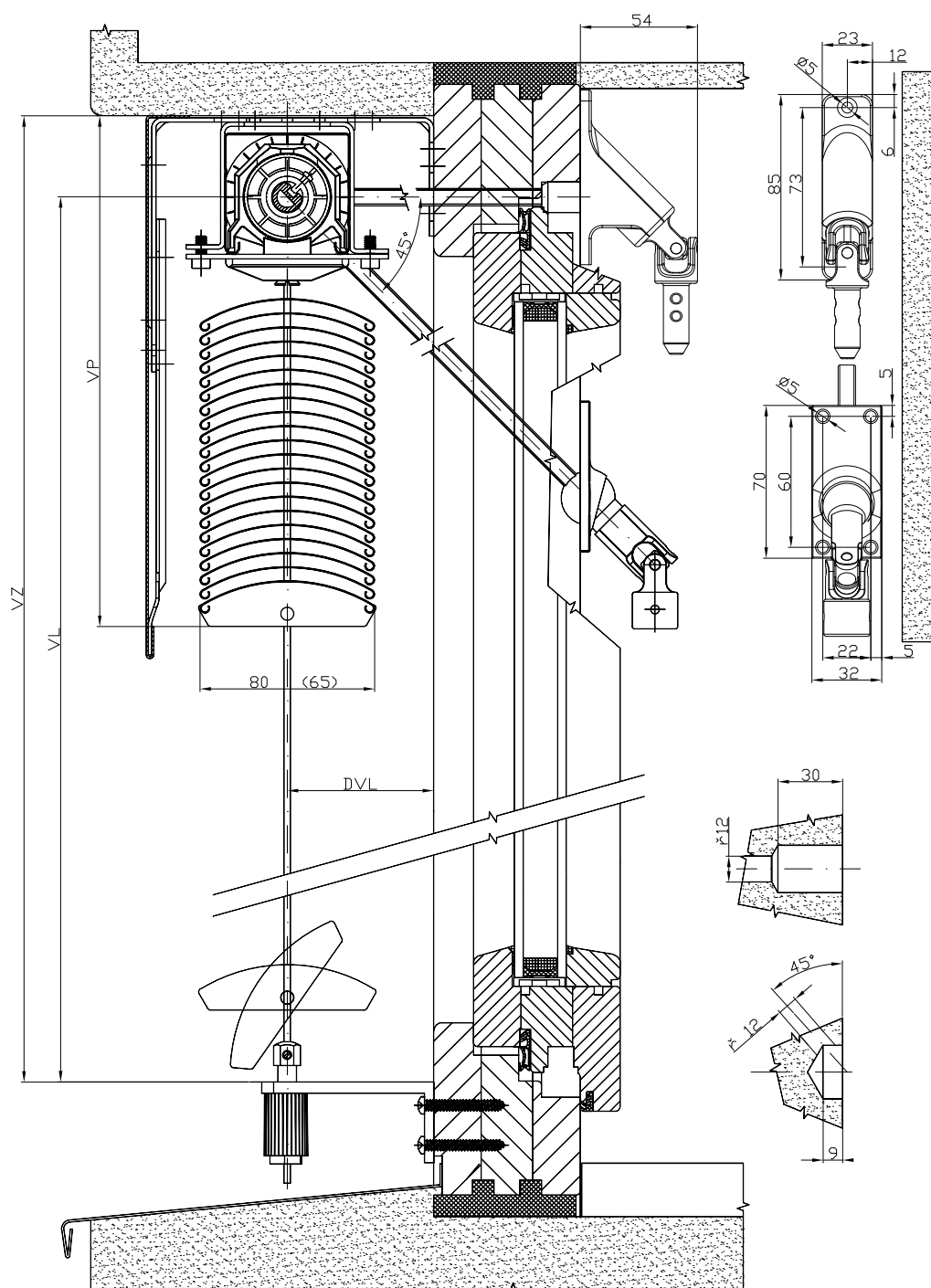


CETTA 80, CETTA 65 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance using a steel wire

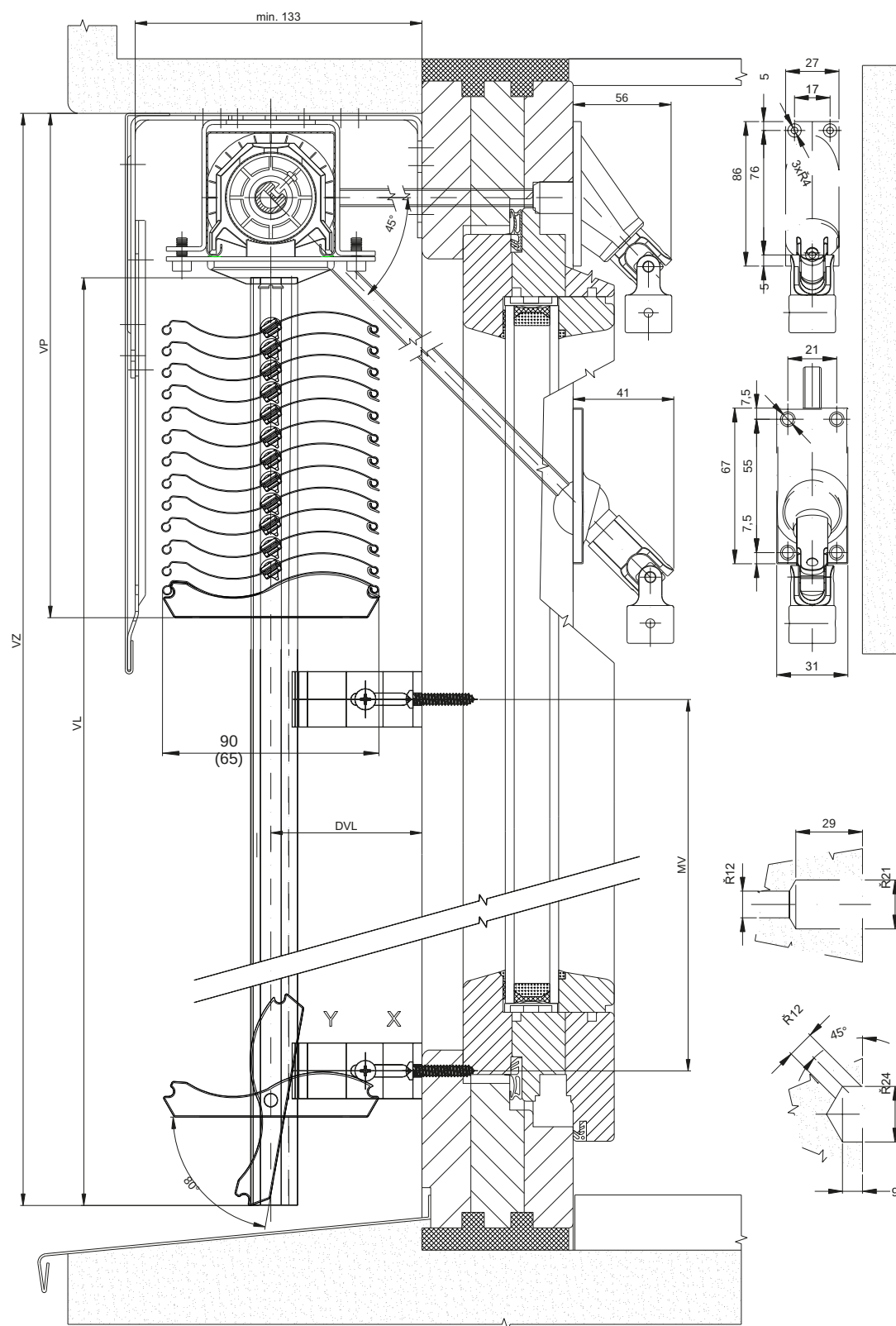


SETTA 65,90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance in guiding channels

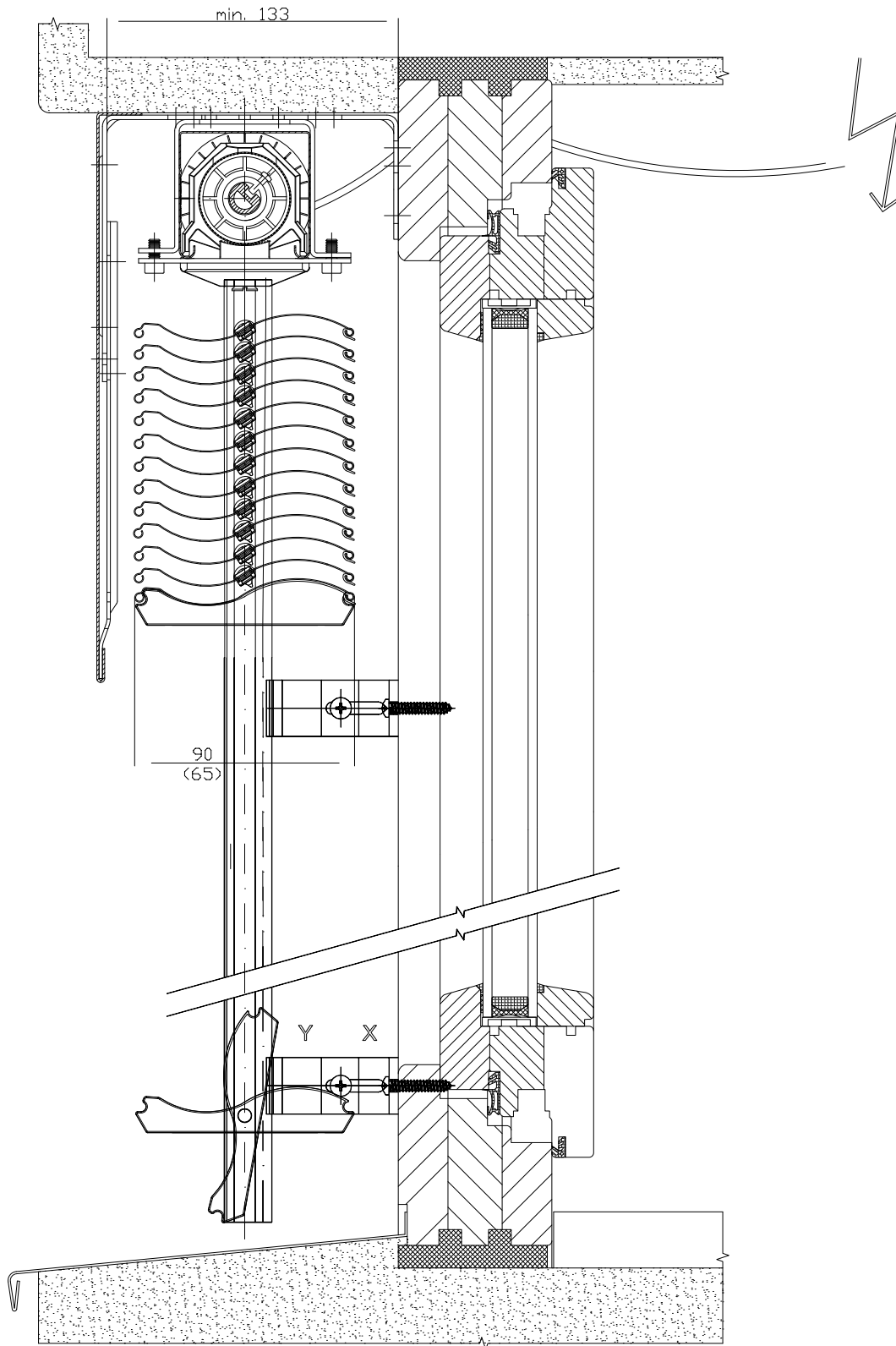


SETTA 65,90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

MOTOR CONTROL

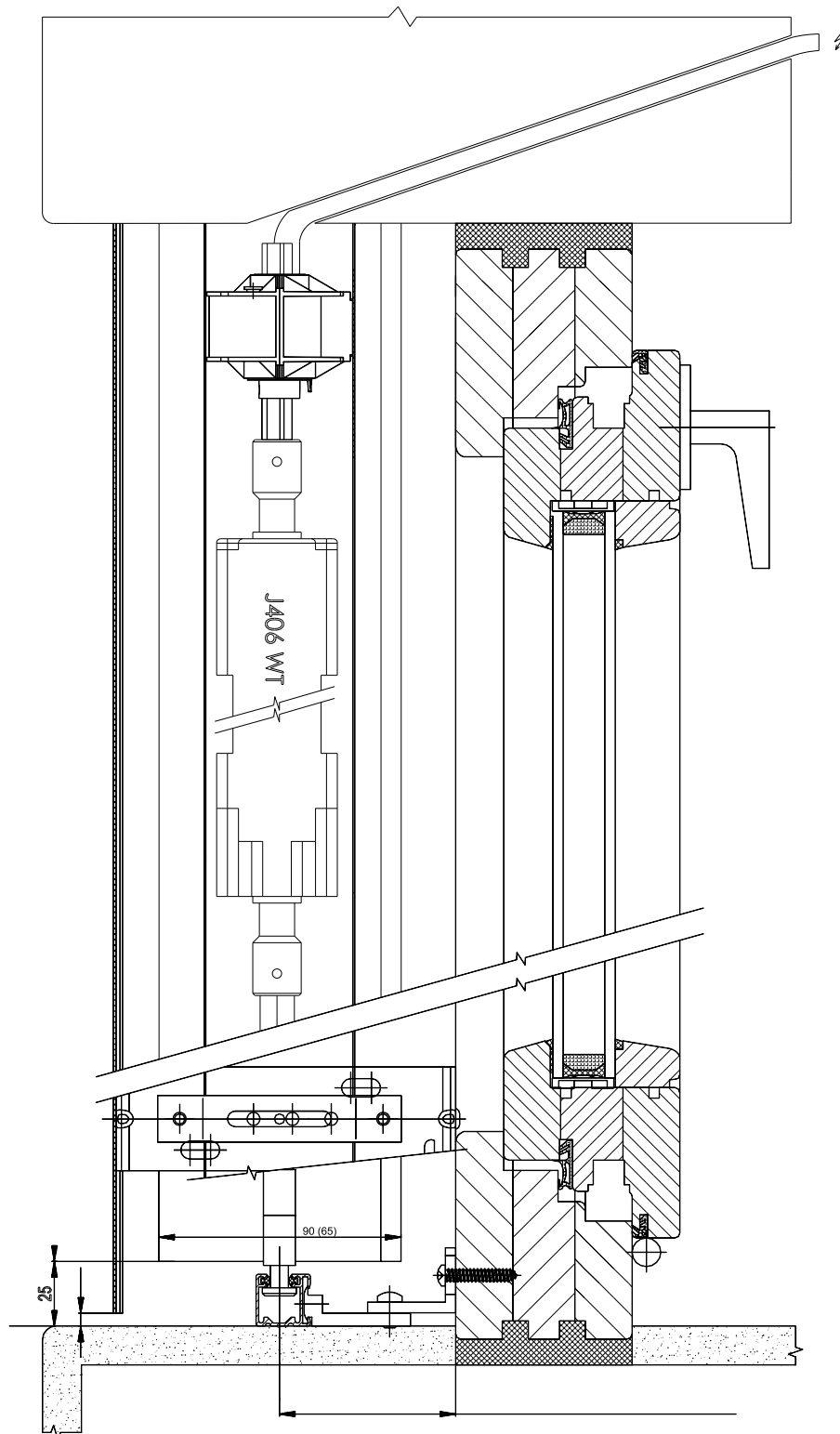
Slat guidance in guiding channels



SETTA 65,90 EXTERIOR BLIND DIAGRAM

HORIZONTAL SECTION

MOTOR CONTROL



Note

[illegible]

This image shows a full page of a handwriting practice worksheet. It consists of approximately 20 horizontal rows. Each row is defined by two parallel dotted lines, creating a series of uniform gaps for letter height. The entire page is otherwise blank, with no margins, text, or other markings.



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