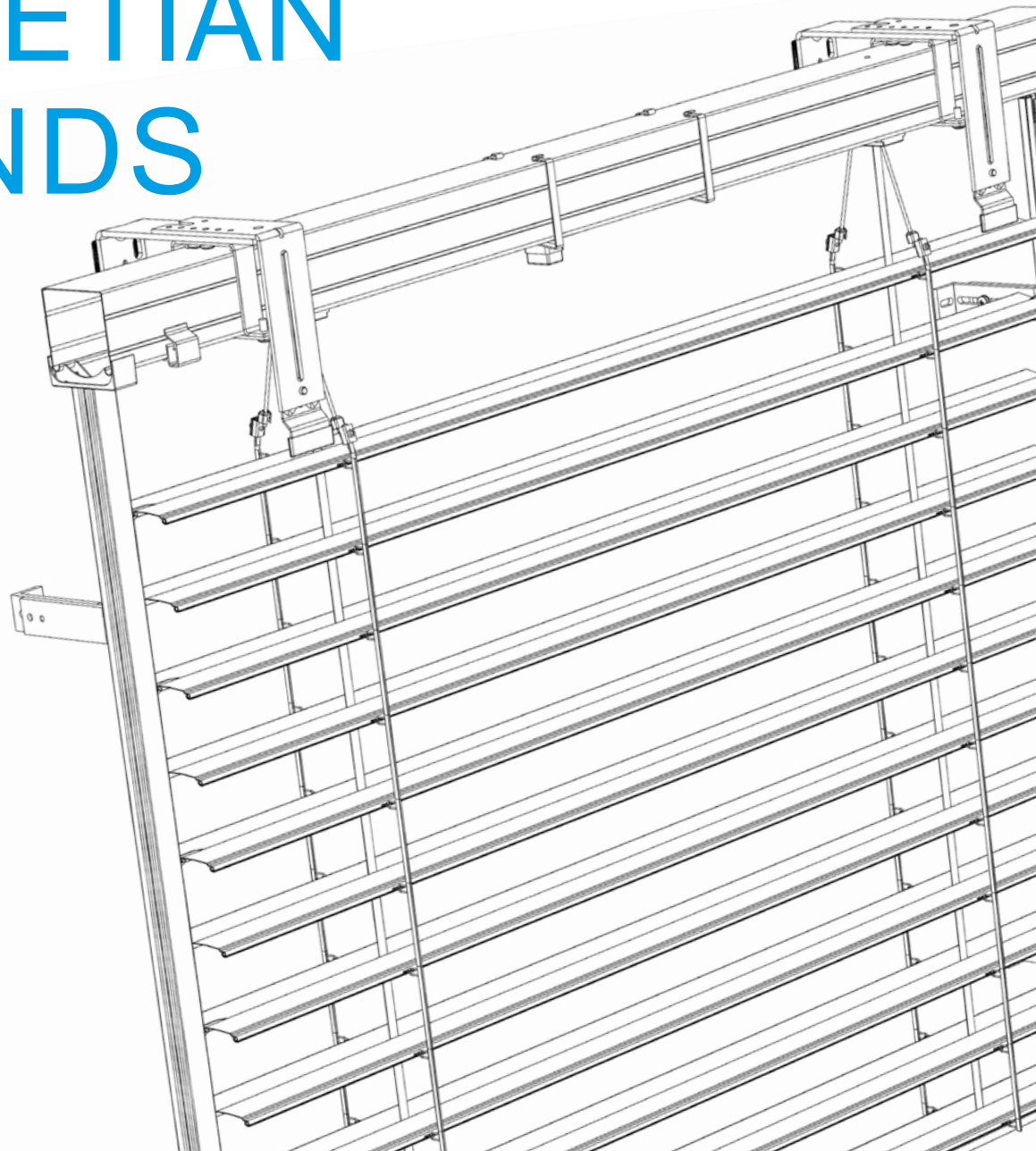




Labona

TECHNICAL MANUAL


EXTERIOR VENETIAN BLINDS



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
12
EN 13659:2015 ZETTA 90 CPR 008/2017 Exterior sun visor Wind resistance: 0 – 4 Additional thermal resistance ΔR : 0,08 m ² .K/W Total solar energy transmittance g _{tot} : 0,032 - 0,094

Note: Pattern of CE label

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 - channel		Performance							
Essential characteristics									
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	4	7	3	6	2	5	1	4
	Max. wind speed v_{max} (km/h)	61		49		38		28	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 5 800		5 800 < L ≤ 6 000	
	Wind resistance class	0	3	0	2	0	1	0	0
Max. wind speed v_{max} (km/h)	19		11		5		1		
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR	0,08 (m ² .K/W)								
Total solar energy transmittance g_{tot}	0,032 - 0,094 (according to the selected slat color)*								

Cetta 50 - wire		Performance									
Essential characteristics											
Wind resistance	Width of construction hole L (mm)	L < 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	1	4	0	3	0	2	0	1	0	0
	Max. wind speed v_{max} (km/h)	28		19		11		5		1	
	Max. effective height wing	H _{max} = 2500mm									
	Width of construction hole L (mm)	L < 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 000 < L ≤ 4 500	
	Wind resistance class	0	3	0	2	0	1	0	0	0	0
Max. wind speed v_{max} (km/h)	19		11		5		1		1		
Max. effective height wing	H _{max} = 4000mm										
Additional thermal resistance ΔR	0,08 (m ² .K/W)										
Total solar energy transmittance g_{tot}	0,032 - 0,094 (according to the selected slat color)*										

Cetta 65 - channel		Performance							
Essential characteristics									
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	4	7	3	6	2	5	1	4
	Max. wind speed v_{max} (km/h)	61		49		38		28	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 5 800		5 800 < L ≤ 6 000	
	Wind resistance class	0	3	0	2	0	1	0	0
Max. wind speed v_{max} (km/h)	19		11		5		1		
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR	0,08 (m ² .K/W)								
Total solar energy transmittance g_{tot}	0,032 - 0,094 (according to the selected slat color)*								

Cetta 65 - wire		Performance													
Essential characteristics															
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	3	6	2	5	1	4	0	3	0	2	0	1	0	0
	Max. wind speed v_{max} (km/h)	49		38		28		19		11		5		1	
	Max. effective height wing	H _{max} = 2500mm													
	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0	0	0
Max. wind speed v_{max} (km/h)	38		28		19		11		5		0		0		
Max. effective height wing	H _{max} = 4000mm														
Additional thermal resistance ΔR	0,08 (m ² .K/W)														
Total solar energy transmittance g_{tot}	0,032 - 0,094 (according to the selected slat color)*														

Setta 65 - channel									
Essential characteristics		Performance							
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	5	8	4	7	3	6	2	5
	Max. wind speed v _{max} (km/h)	74		61		49		38	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 5 800		5 800 < L ≤ 6 000	
	Wind resistance class	1	4	0	3	0	2	0	1
	Max. wind speed v _{max} (km/h)	28		19		11		5	
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR	0,08 (m ² .K/W)								
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*								

Setta 65 - wire														
Essential characteristics		Performance												
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	
	Wind resistance class	3	6	2	5	1	4	0	3	0	2	0	0	1
	Max. wind speed v _{max} (km/h)	49		38		28		19		11		5		
	Max. effective height wing	H _{max} = 2500mm												
	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0	
	Max. wind speed v _{max} (km/h)	38		28		19		11		5		1		
Max. effective height wing	H _{max} = 4000mm													
Additional thermal resistance ΔR	0,08 (m ² .K/W)													
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*													

Setta 90 - channel									
Essential characteristics		Performance							
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	5	8	4	7	3	6	2	5
	Max. wind speed v _{max} (km/h)	74		61		49		38	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 5 800		5 800 < L ≤ 6 000	
	Wind resistance class	1	4	0	3	0	2	0	1
	Max. wind speed v _{max} (km/h)	28		19		11		5	
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR	0,08 (m ² .K/W)								
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*								

Setta 90 - wire															
Essential characteristics		Performance													
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	3	6	2	5	1	4	0	3	0	2	0	1	0	0
	Max. wind speed v _{max} (km/h)	49		38		28		19		11		5		1	
	Max. effective height wing	H _{max} = 2500mm													
	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0	0	0
	Max. wind speed v _{max} (km/h)	38		28		19		11		5		1		0	
Max. effective height wing	H _{max} = 4000mm														
Additional thermal resistance ΔR	0,08 (m ² .K/W)														
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*														

Zetta 70 - channel									
Essential characteristics		Performance							
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	4	7	3	6	2	5	1	4
	Max. wind speed v _{max} (km/h)	61		49		38		28	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 5 800		5 800 < L ≤ 6 000	
	Wind resistance class	0	3	0	2	0	1	0	0
	Max. wind speed v _{max} (km/h)	19		11		5		1	
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR	0,08 (m ² .K/W)								
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*								

Zetta 70 - wire

Essential characteristics	Performance														
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	3	6	2	5	1	4	0	3	0	2	0	1	0	0
	Max. wind speed v _{max} (km/h)	49		38		28		19		11		5		1	
	Max. effective height wing	H _{max} = 2500mm													
	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0	0	0
	Max. wind speed v _{max} (km/h)	38		28		19		11		5		1		0	
Max. effective height wing	H _{max} = 4000mm														
Additional thermal resistance ΔR	0,08 (m ² .K/W)														
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*														

Zetta 90 - channel

Essential characteristics	Performance								
Wind resistance	Width of construction hole L (mm)	L ≤ 1 000		1 000 < L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	6	9	5	8	4	7	3	6
	Max. wind speed v _{max} (km/h)	88		74		61		49	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 000 < L ≤ 4 500		4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 6 000	
	Wind resistance class	2	5	1	4	0	3	0	2
	Max. wind speed v _{max} (km/h)	38		28		19		11	
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR	0,08 (m ² .K/W)								
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*								

Zetta 90 - wire

Essential characteristics	Performance														
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	3	6	2	5	1	4	0	3	0	2	0	1	0	0
	Max. wind speed v _{max} (km/h)	49		38		28		19		11		5		1	
	Max. effective height wing	H _{max} = 2500mm													
	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0	0	0
	Max. wind speed v _{max} (km/h)	38		28		19		11		5		1		0	
Max. effective height wing	H _{max} = 4000mm														
Additional thermal resistance ΔR	0,08 (m ² .K/W)														
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*														

Cetta 60 Flexi - wire

Essential characteristics	Performance														
Wind resistance	Width of construction hole L (mm)	L ≤ 800		800 < L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800			
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort		
	Wind resistance class	3	6	2	5	1	4	0	3	0	2	0	1		
	Max. wind speed v _{max} (km/h)	49		38		28		19		11		5			
	Max. effective height wing	H _{max} = 2500mm													
	Width of construction hole L (mm)	L ≤ 800		800 < L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800			
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0		
	Max. wind speed v _{max} (km/h)	38		28		19		11		5		1			
Max. effective height wing	H _{max} = 4000mm														
Additional thermal resistance ΔR	0,08 (m ² .K/W)														
Total solar energy transmittance g _{tot}	0,032 - 0,094 (dle zvolené barvy lamely)*														

Cetta 60 Flexi - channel

Essential characteristics	Performance								
Wind resistance	Width of construction hole L (mm)	L ≤ 1 000		1 000 < L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	4	7	3	6	2	5	1	4
	Max. wind speed v _{max} (km/h)	61		49		38		28	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 000 < L ≤ 4 500		4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 6 000	
	Wind resistance class	0	3	0	2	0	1	0	0
	Max. wind speed v _{max} (km/h)	19		11		5		1	
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR	0,08 (m ² .K/W)								
Total solar energy transmittance g _{tot}	0,032 - 0,094 (dle zvolené barvy lamely)*								

Cetta 80 Flexi - wire

Essential characteristics		Performance											
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 2 500		2 500 < L ≤ 3 000		3 000 < L ≤ 3 400		3 400 < L ≤ 3 800		3 800 < L ≤ 4 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0
	Max. wind speed v _{max} (km/h)	38		28		19		11		5		1	
	Max. effective height wing	H _{max} = 2500mm											
	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 2 500		2 500 < L ≤ 3 000		3 000 < L ≤ 3 400		3 400 < L ≤ 3 800		3 800 < L ≤ 4 000	
	Wind resistance class	1	4	0	3	0	2	0	1	0	0	0	0
	Max. wind speed v _{max} (km/h)	28		19		11		5		1		1	
Max. effective height wing	H _{max} = 4000mm												
Additional thermal resistance ΔR		0,08 (m ² .K/W)											
Total solar energy transmittance g _{tot}		0,032 - 0,094 (according to the selected slat color)*											

Cetta 80 Flexi - channel

Essential characteristics		Performance							
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	2	5	1	4	0	3	0	2
	Max. wind speed v _{max} (km/h)	38		28		19		11	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 500 < L ≤ 5 000				5 000 < L ≤ 6 000			
	Wind resistance class	0		1		0		0	
	Max. wind speed v _{max} (km/h)	5		1		1		0	
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR		0,08 (m ² .K/W)							
Total solar energy transmittance g _{tot}		0,032 - 0,094 (according to the selected slat color)*							

Cetta 80 - wire

Essential characteristics		Performance													
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	3	6	2	5	1	4	0	3	0	2	0	1	0	0
	Max. wind speed v _{max} (km/h)	49		38		28		19		11		5		1	
	Max. effective height wing	H _{max} = 2500mm													
	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800		4 800 < L ≤ 5 000		5 000 < L ≤ 6 000	
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0	0	0
	Max. wind speed v _{max} (km/h)	38		28		19		11		5		1		0	
Max. effective height wing	H _{max} = 4000mm														
Additional thermal resistance ΔR		0,08 (m ² .K/W)													
Total solar energy transmittance g _{tot}		0,032 - 0,094 (according to the selected slat color)*													

Cetta 80 - channel

Essential characteristics		Performance							
Wind resistance	Width of construction hole L (mm)	L ≤ 1 000		1 000 < L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	6	9	5	8	4	7	3	6
	Max. wind speed v _{max} (km/h)	88		74		61		49	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 000 < L ≤ 4 500		4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 6 000	
	Wind resistance class	2	5	1	4	0	3	0	2
	Max. wind speed v _{max} (km/h)	38		28		19		11	
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR		0,08 (m ² .K/W)							
Total solar energy transmittance g _{tot}		0,032 - 0,094 (according to the selected slat color)*							

Cetta 100 Flexi - wire

Essential characteristics		Performance											
Wind resistance	Width of construction hole L (mm)	L ≤ 800		800 < L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	3	6	2	5	1	4	0	3	0	2	0	1
	Max. wind speed v _{max} (km/h)	49		38		28		19		11		5	
	Max. effective height wing	H _{max} = 2500mm											
	Width of construction hole L (mm)	L ≤ 800		800 < L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 4 800	
	Wind resistance class	2	5	1	4	0	3	0	2	0	1	0	0
	Max. wind speed v _{max} (km/h)	38		28		19		11		5		1	
Max. effective height wing	H _{max} = 4000mm												
Additional thermal resistance ΔR		0,08 (m ² .K/W)											
Total solar energy transmittance g _{tot}		0,032 - 0,094 (according to the selected slat color)*											

Cetta 100 Flexi - channel

Essential characteristics		Performance							
Wind resistance	Width of construction hole L (mm)	L ≤ 1 000		1 000 < L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	4	7	3	6	2	5	1	4
	Max. wind speed v _{max} (km/h)	61		49		38		28	
	Max. effective height wing	H _{max} = 4000mm							
	Width of construction hole L (mm)	4 000 < L ≤ 4 500		4 500 < L ≤ 5 000		5 000 < L ≤ 5 500		5 500 < L ≤ 6 000	
	Wind resistance class	0	3	0	2	0	1	0	0
Max. wind speed v _{max} (km/h)	19		11		5		1		
Max. effective height wing	H _{max} = 4000mm								
Additional thermal resistance ΔR	0,08 (m ² .K/W)								
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*								

Titan 90

Essential characteristics		Performance	
Wind resistance	Class 6 (for all dimensions)		
Additional thermal resistance ΔR	0,08 (m ² .K/W)		
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*		

Sloped blind Cetta 80F TE

Essential characteristics		Performance			
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 2 500	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	2	5	1	4
	Max. wind speed v _{max} (km/h)	38		28	
	H _{max} (mm)	2 500		2 500	
	Wind resistance class	1	4	0	3
	Max. wind speed v _{max} (km/h)	19		11	
H _{max} (mm)	4 000		4 000		
Additional thermal resistance ΔR	0,08 (m ² .K/W)				
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*				

VIVA

Essential characteristics		Performance	
Wind resistance	Class 3,4 (according to the slat type)		
Additional thermal resistance ΔR	0,08 (m ² .K/W)		
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*		

Windstabil (Z90, C80, S90)

Essential characteristics		Performance											
Wind resistance	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 5 000		5 000 < L ≤ 5 400	
	Standard EN/Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort	13659	Beaufort
	Wind resistance class	5	8	4	7	3	6	2	5	1	4	0	3
	Max. wind speed v _{max} (km/h)	74		61		49		38		28		19	
	Max. effective height wing	H _{max} = 2500mm											
	Width of construction hole L (mm)	L ≤ 2 000		2 000 < L ≤ 3 000		3 000 < L ≤ 4 000		4 000 < L ≤ 4 500		4 500 < L ≤ 5 000		5 000 < L ≤ 5 400	
	Wind resistance class	4	7	3	6	2	5	1	4	0	3	0	2
Max. wind speed v _{max} (km/h)	61		49		38		28		19		11		
Max. effective height wing	H _{max} = 4000mm												
Additional thermal resistance ΔR	0,08 (m ² .K/W)												
Total solar energy transmittance g _{tot}	0,032 - 0,094 (according to the selected slat color)*												

Basic Technical Specification**Engineering Limit Values**

Type	Width (mm)		Height (mm)	Area (m ²)			Guidance	Slat Weight (kg per m ²)	Blind Weight (kg per m ²)	Holder Weight (kg per m ²)	6 Nm Motor Weight (kg)
	min.	max.	max.	Cord	Handle	Motor					
Cetta 50	400/600**	3150	3000	6	8	10	wire / channel	0,76	2,1	0,087	1,84
Cetta 60 Flexi	600	4000	4000	-	8	16	wire / channel	1,31	3,30		
Cetta 65	600	6000*	4000	-	8	24	wire / channel	1,44	3,42		
Setta 65	600	6000*	4000	-	8	24	wire / channel	1,59	3,57		
Cetta 80 Flexi	600	4000	4000	-	8	16	wire / channel	1,12	3,55		
Cetta 100 Flexi	600	4000	4000	-	8	16	wire / channel	1,36	3,55		
Cetta 80	600	6000*	4000	-	8	24	wire / channel	1,54	3,47	0,35	
Cetta 80 -Slim				-	8	24	wire / channel	1,60	3,55		
Zetta 70				-	8	24	wire / channel	1,56	3,53		
Zetta 90				-	8	24	wire / channel	1,66	3,63		
Setta 90				-	8	24	wire / channel	1,66	3,63		
Titan 90	600	2800	4000	-	-	8	wire / channel	2,1	-	-	

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

*Note: The wider the blind, the lower its wind resistance class - see "Wind resistance of exterior blinds", page 3-4.

** motor

Warning: Inclined slat operation cannot be avoided with small width.

PRODUCT TOLERANCES

Manufacturer: **ISOTRA a.s., Bílovecká 2411/1, 746 01 Opava, ID: 47679191**

Product: **EXTERNAL BLINDS**

The review should help you to recognize the permissible limits of compliance and incompliance. At the same time the sheet will help you with reasoning as regards any unjust claims of the clients.

External blinds comprise of many metal and textile elements with various material features and production tolerances. Despite the optimally selected products, deviations from ideal function may occur even in case of new installation due to the product tolerances.

The external blinds are permanently exposed to the effect of weather, particularly temperature, moisture content, wind, and contamination. They have a great effect on the function and appearance of external blinds.

The basic function of the blinds is fulfilled when the slats are turning, and when the light is not directly focused on the glazing in closed state.

The deviations from the table values can be corrected by our technicians within a specific scope.

Please, be aware:

The specified limit values are created based on the actual state of technology, respective technical standards, and based on many years of experience.

The table values are valid only for the external blinds within the permitted production dimensions available in our actual technical catalogue.

	Feature	Description of deviation	Tolerance
1	Blind width	Blind width up to 2000 mm	max 3mm
		Blind width from 2000mm to 4000mm	max 4mm
		Blind width over 4,000mm	max 5mm
2	Blind height	Blind height up to 1,500mm	max 4mm
		Blind height from 1500 to 2500mm	max 6mm
		Blind height over 2,500mm	max 10mm
3	Packet height	Packet height up to 2,500mm	+/-0.5% height EL
		Packet is higher than 2,500mm	+/-1 % height EL
4	Difference of the packet height	Between individual packets of the same height	max 20mm
5	The packet parallelism in the upper position	The height difference of the packets at height up to 3,500mm	+/- 30mm
		The height difference of the packets at height over 3,500mm	+/- 40mm
6	Tolerance for lamellas	Permitted deviation for twisting and longitudinal bending – lamella width up to 1 m	max 3mm
		Permitted deviation for twisting and longitudinal bending – lamella width up to 2m	max 4mm
		Permitted deviation for twisting and longitudinal bending – lamella width up to 3m	max 5mm
		Permitted deviation for twisting and longitudinal bending – lamella width up to 4m	max 6mm
		Permitted deviation for twisting and longitudinal bending – lamella width up to 5m	max 7mm
		Permitted deviation for twisting and longitudinal bending – lamella width over 5m	max 10mm
		Permitted deviation for longitudinal bending – lamella width up to 1 m	max 2mm
		Permitted deviation for longitudinal bending – lamella width up to 2m	max 3mm
		Permitted deviation for longitudinal bending – lamella width up to 3m	max 4mm
		Permitted deviation for longitudinal bending – lamella width up to 4m	max 5mm
		Permitted deviation for longitudinal bending – lamella width up to 5m	max 6mm
		Permitted deviation for longitudinal bending – lamella width over 5m	max 10mm
7	Bottom slat flexion	In the upper position at width over 800mm	max 15mm
		In the upper position at width under 800mm	max 30mm
		In the lower position	+/- 15mm/m
8	Oblique operation of the lower slat	Deviation from the balance up to height 3500mm	+/- 10mm
		Deviation from the balance over height 3500mm	+/-15mm
9	Oblique run of packet	Ladder braiding between slats	permissible
10	Packet operation length	Permanent length of the motor operation	max 4min
11	Tex	During the operation, visible tex location on lamellas	permissible
12	Light permeability – as per EN 14501	In closed state, there is no horizontal view from outside inside.	permissible
		In closed state, there is no horizontal view from inside outside.	permissible
13	Acoustics	The operation and disconnection sounds result from technical solutions.	permissible
		Noise as per the wind force and lamella position.	permissible
14	Tolerance for front covers	For input values a, b, c, d	+/- 2 mm

Calculation of solar and light transmittance

The standard CSN EN 13363-1+A1 Solar protection devices combined with glazing - Calculation of solar and light transmittance defines a simplified method of calculation of a sun protection device combined with glazing based on thermal transmittance and total solar transmittance through glazing, and on light transmittance and reflectivity of a sun protection device for the evaluation of total solar transmittance.

The method is applicable to any type of sun protection devices in parallel with glazing, such as shutters or blinds. Sun protection devices can be installed inside a protected room, outside or in a gap between double glazing. The method is applicable in cases when total solar transmittance through glazing ranges between 0.15 and 0.85. It is anticipated that roller shutters have to be fastened to prevent direct solar radiation. It is presumed that in exterior sun protection devices and in-built sun protection installations the space between sun protection devices and the glazing is not ventilated, whilst it is ventilated in interior sun protection installations.

Basic concepts used

Transmittance - radiation that is transmitted through window into an interior; radiation transmittance factor τ_e achieves values between 0 and 100; i.e. 0 to 1.

Reflection (take-off) - shine that is returned to the external area by window, coefficient of returned shine ρ_e acquires the values from 0 to 100 % that is 0 to 1.

Absorption - radiation that is absorbed by window and increases its temperature; the radiation factor α_e achieves values between 0 and 100; i.e. 0 to 1.

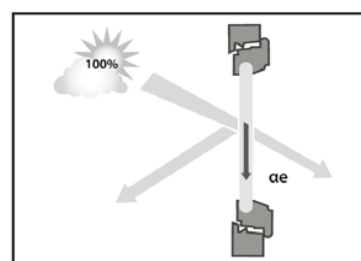
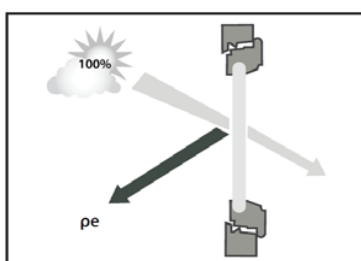
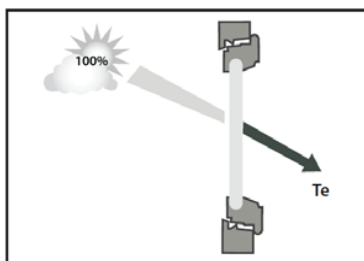
Emissivity - ability to radiate heat ϵ ; it applies that $\epsilon = \alpha$

As result, the following equation applies: $\tau_e + \rho_e + \alpha_e = 100\%$; or 1.

Value of factor g for the calculation is usually defined by the manufacturer of window panes or windows.

g_{tot} - total solar transmittance factor with solar protection.

F_c - reduction coefficient. The value of the coefficient ranges between 0 (theoretically best protection from solar radiation) and 1 (zero protection from solar radiation; in that case it applies that: $g = g_{tot}$).



Type and specification of glazing:

Insulated transparent glazing (ČSN EN 14501)

Thermal transmittance	U_g	2,90	W/(m ² .K)
Overall solar transmittance	g	0,76	
Exterior shading $G=(1/U_g+1/G_1+1/G_2)-1$	G_1	5,00	W/(m ² .K)
	G_2	10,00	W/(m ² .K)
	G	1,55	W/(m ² .K)
Interior shading $G=(1/U_g+1/G_2)-1$	G_2	30,00	W/(m ² .K)
	G	2,64	W/(m ² .K)

Calculation g_{tot} :

- Exterior shading: $g_t = \tau_e * g + \alpha_e * G/G_2 + \tau_e * (1-g) * G/G_2$
- Interior shading: $g_t = g(1 - g * \rho_e - \alpha_e * G/G_2)$

Example of calculation n.1:

Exterior blind Iostrá, white aluminium colour (RAL 9006) + insulated transparent glazing

- Measured values:

Transmittance	τ_e	0,00
Reflectance	ρ_e	0,55
Absorption capacity	α_e	0,45

2. Values as per ČSN EN 13363-1+A1

Thermal transmittance through glass	U_g	2,90	W/(m ² .K)
Overall solar transmittance through glass	g	0,76	
	G₁	5,00	W/(m ² .K)
	G₂	10,00	W/(m ² .K)

3. Calculation

$$G = (1/U_g + 1/G_1 + 1/G_2) \cdot 1 = (1/2,9 + 1/5 + 1/10) \cdot 1 = \mathbf{1,55}$$

$$g_{tot} = \tau_e \cdot g + \alpha_e \cdot G/G_2 + \tau_e \cdot (1-g) \cdot G/G_2$$

$$g_{tot} = 0 \cdot 2,9 + 0,45 \cdot 1,55/10 + 0 \cdot (1-0,76) \cdot 1,55/10 = \mathbf{0,070}$$

$$F_c = g_{tot}/g = 0,07/0,76 = \mathbf{0,092}$$

Example of calculation n. 2:

Exterior blind Isotra, white aluminium colour (RAL 9006) + insulated transparent glazing, angle 45°

1. Calculation of transmittance, reflectance and absorptance:

Transmittance: $\tau_e = 0,65 \cdot \tau_e + 0,15 \cdot \alpha_e = 0,65 \cdot 0 + 0,15 \cdot 0,45 = \mathbf{0,07}$

Reflectance: $\rho_e = \rho_e \cdot (0,75 + 0,7 \cdot \tau_e) = 0,55 \cdot (0,75 + 0,7 \cdot 0) = \mathbf{0,41}$

Absorption capacity: $\alpha_e = 1 - \tau_e - \rho_e = 1 - 0,07 - 0,41 = \mathbf{0,52}$

2. Values as per ČSN EN 13363-1+A1

Thermal transmittance through glass	U_g	2,90	W/(m ² .K)
Overall solar transmittance through glass	g	0,76	
	G₁	5,00	W/(m ² .K)
	G₂	10,00	W/(m ² .K)

3. Calculation

$$G = (1/U_g + 1/G_1 + 1/G_2) \cdot 1 = (1/2,9 + 1/5 + 1/10) \cdot 1 = \mathbf{1,55}$$

$$g_{tot} = \tau_e \cdot g + \alpha_e \cdot G/G_2 + \tau_e \cdot (1-g) \cdot G/G_2 = \mathbf{0,137}$$

$$F_c = g_{tot}/g = 0,137/0,76 = \mathbf{0,18}$$

Solar and light transmittance according to CSN EN 13363-1+A1 for selected products of ISOTRA a.s.

Slat colour	Reflection (%)	Absorption (%)	gtot	Fc
RAL 7038	39	61	0,064	0,107
RAL 7048	34	66	0,069	0,114
RAL 9010	74	26	0,034	0,057
RAL 9016	76	24	0,032	0,054
RAL 9006	58	42	0,048	0,080
RAL 8014	8	92	0,091	0,152
RAL 6005	22	78	0,079	0,132
RAL 7016	17	83	0,083	0,139
RAL 9002	62	38	0,044	0,074
RAL 9007	39	61	0,064	0,107
RAL 1015	66	34	0,041	0,068
W210	31	69	0,071	0,119
DB 703	23	77	0,078	0,130
DB 702	29	71	0,073	0,122
VSR 780	22	78	0,079	0,132
RAL 3000S	42	58	0,048	0,08
RAL 3004	35	65	0,068	0,113
RAL 5002	32	68	0,070	0,117
RAL 5014	39	61	0,064	0,107
RAL 7022	18	82	0,083	0,138
RAL 7035	51	49	0,054	0,090
RAL 9005	5	95	0,094	0,156

*valid for glazing with parameters g = 0,59, U_g = 1,2 W/m²K

Wound Up Height

Wound Up Venetian Blind Height Including Head Rail and Bottom Rail without Blind holder



Gap between the lower edge of the channel and the first slat when closed.

Cetta 60 Flexi	32 - 92 mm
Cetta 65	32 - 92 mm
Cetta 80	35 - 103 mm
Cetta 80 Flexi	38 - 106 mm
Cetta 100 Flexi	45 - 130 mm
Zetta 70	44 - 104 mm
Zetta 90	62 - 142 mm
Setta 65	44 - 104 mm
Setta 90	66 - 152 mm
Titan 90	60 - 150 mm

The values fall within the manufacturing tolerance of the blind height.

Blind Type Control - Handle	Coiling Height Based on Blind Height (mm)													
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
Cetta 50 - channel	130	135	145	160	170	180	190	200	210	220	230	240	250	265
Cetta 50 - wire	85	90	95	100	100	105	110	110	115	120	120	125	125	130
Cetta 65	135	145	155	160	165	175	185	190	195	205	215	220	230	235
Cetta 60 Flexi - channel	125	130	135	140	145	150	155	160	170	170	175	180	185	190
Cetta 60 Flexi - wire	115	120	120	125	130	135	135	140	145	145	150	150	155	160
Cetta 80 Flexi - channel	110	110	115	115	120	125	125	130	130	135	135	140	145	145
Cetta 80 Flexi - wire	110	115	115	120	120	125	130	130	135	135	140	140	145	145
Cetta 100 Flexi - channel	120	120	125	130	130	135	135	140	145	150	155	155	160	160
Cetta 100 Flexi - wire	110	110	115	115	115	120	120	120	125	130	130	130	135	135
Cetta 80	130	140	145	155	155	165	170	180	185	190	195	205	210	215
Cetta 80 Slim	125	135	135	145	150	155	160	165	170	180	180	190	195	195
Setta 65	135	145	150	160	170	175	185	190	195	205	215	220	230	240
Setta 90	125	135	140	145	150	155	165	170	170	175	185	190	195	200
Zetta 70	135	140	145	155	165	165	175	185	190	195	205	210	220	225
Zetta 90	125	135	140	145	150	160	165	170	170	180	185	190	195	205
Titan 90 (Motor control)	150	158	165	180	188	195	203	218	225	233	240	255	263	270

Blind Type Control - Handle	Coiling Height Based on Blind Height (mm)													
	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
Cetta 50 - channel	275	280	295	305	315	325	335	350	355	365	380	385	400	410
Cetta 50 - wire	135	140	145	145	150	155	160	170	175	180	185	195	200	205
Cetta 65	245	250	260	265	270	280	290	300	300	310	320	325	335	340
Cetta 60 Flexi - channel	195	205	210	215	220	225	230	235	240	245	250	255	260	265
Cetta 60 Flexi - wire	160	165	170	175	175	180	185	185	190	190	195	200	200	205
Cetta 80 Flexi - channel	150	155	155	160	160	165	165	170	175	175	180	185	185	190
Cetta 80 Flexi - wire	150	150	155	155	160	160	165	165	170	170	175	175	180	180
Cetta 100 Flexi - channel	165	170	170	175	180	180	185	190	195	195	200	200	205	210
Cetta 100 Flexi - wire	135	140	140	140	145	145	150	150	150	155	155	155	160	160
Cetta 80	225	230	235	240	250	255	265	265	275	280	290	295	300	305
Cetta 80 Slim	205	205	215	220	225	230	235	240	250	250	260	265	270	275
Setta 65	245	250	260	265	275	285	290	300	305	310	320	330	335	345
Setta 90	205	215	215	220	225	235	240	245	250	255	260	265	270	275
Zetta 70	230	240	245	250	260	270	270	280	290	295	300	310	315	325
Zetta 90	210	215	215	225	230	235	240	250	255	260	260	270	275	280
Titan 90 (Motor control)	278	293	300	308	315	330	338	345	353	368	375	383	390	405

Blind Type Control - Handle	Coiling Height Based on Blind Height (mm)													
	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600
Cetta 50 - channel	420	430	440	450	460	470	485	495	-	-	-	-	-	-
Cetta 50 - wire	210	215	215	220	225	230	235	235	-	-	-	-	-	-
Cetta 65	350	355	365	375	380	385	395	405	415	420	430	435	445	455
Cetta 60 Flexi - channel	270	275	280	285	290	295	305	305	310	315	320	325	330	340
Cetta 60 Flexi - wire	210	210	215	220	225	225	230	230	235	240	240	245	250	250
Cetta 80 Flexi - channel	190	195	195	200	205	205	210	215	220	220	225	225	230	235
Cetta 80 Flexi - wire	185	185	190	190	195	195	200	200	205	205	210	215	215	220
Cetta 100 Flexi - channel	210	215	220	225	225	230	235	235	240	245	245	250	250	255
Cetta 100 Flexi - wire	160	165	165	170	170	175	175	175	180	180	180	185	185	185
Cetta 80	315	320	325	335	340	345	350	360	365	370	380	385	390	400
Cetta 80 Slim	280	285	290	295	300	305	310	320	315	320	330	335	340	350
Setta 65	355	360	365	375	380	390	400	405	410	415	420	430	440	445
Setta 90	285	290	295	300	305	310	315	320	320	325	330	340	345	350
Zetta 70	330	335	345	350	355	365	375	375	380	390	395	400	410	415
Zetta 90	285	295	300	305	305	315	320	325	325	330	335	345	350	355
Titan 90 (Motor control)	413	420	428	443	450	458	465	480	-	-	-	-	-	-

Blind Type Control - Handle	Coiling Height Based on Blind Height (mm)													
	4700	4800	4900	5000	5100	5200	5300	5400	5500	5600	5700	5800	5900	6000
Cetta 50 - channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cetta 50 - wire	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cetta 65	460	470	480	485	490	500	510	515	525	530	540	550	555	560
Cetta 60 Flexi - channel	345	350	355	360	365	370	375	380	385	390	395	400	405	410
Cetta 60 Flexi - wire	255	260	265	265	270	275	275	280	280	285	290	290	295	300
Cetta 80 Flexi - channel	235	240	245	250	250	255	255	260	260	265	270	275	275	280
Cetta 80 Flexi - wire	225	230	235	235	240	240	245	250	250	255	255	260	265	270
Cetta 100 Flexi - channel	260	265	265	270	275	275	280	285	285	290	290	295	300	305
Cetta 100 Flexi - wire	190	190	195	195	195	200	200	200	205	205	205	210	210	215
Cetta 80	405	410	420	425	430	435	445	450	455	465	470	475	485	490
Cetta 80 Slim	355	360	370	375	380	385	395	400	405	415	420	425	425	430
Setta 65	455	465	475	480	485	495	505	510	520	525	535	545	550	555
Setta 90	360	365	370	375	380	385	390	400	405	410	415	420	425	430
Zetta 70	425	430	440	445	450	460	465	470	480	485	495	500	505	510
Zetta 90	360	370	375	380	385	390	400	405	410	415	420	425	430	435
Titan 90 (Motor control)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 65,80,80 Slim, 60/80/100 Flexi



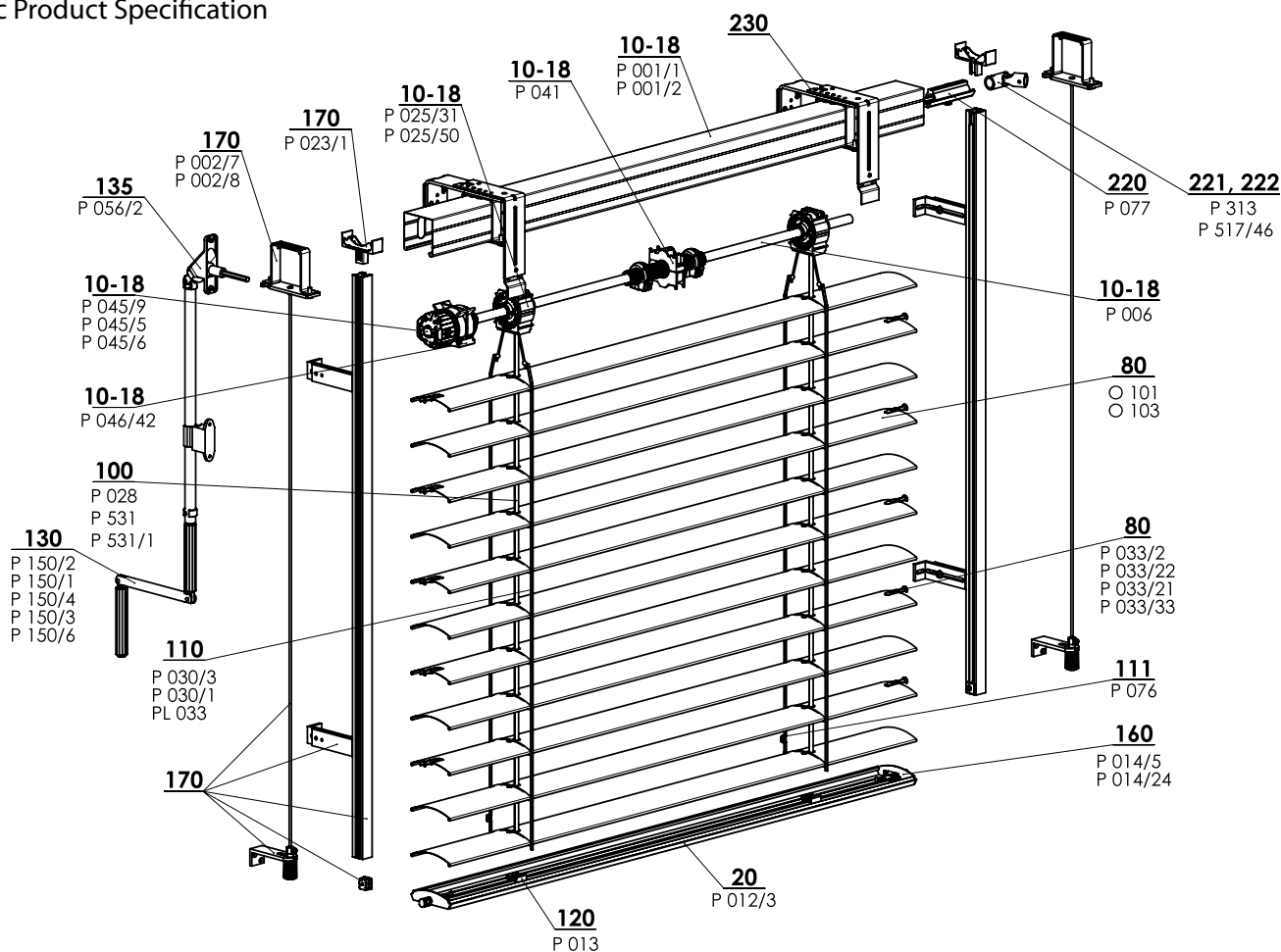
SLAT SHAPE

- ▲ Bottom rail made of extruded aluminum
- ▲ Higher slat rigidity
- ▲ Electrical control option
- ▲ Slim - low roll height - specific folding of slats

ISOTRA *Quality*

Cetta 65, 80 - handle

Basic Product Specification



CETTA 65/80 - HANDLE 2-00171-XXXX-I

Specification Cetta 65

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	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	Steel Wire P 036 ø 3,2 Fe/PVC	Guiding Channel See Chapter "Guidance" for guiding channel alternatives			
Commercial Name	P 001	P 001/2	P 012/2	P 039	P 036	See Chapter "Guidance" for guiding channel alternatives	P 030/2 58 x 70 PES	P 531 P 531/1 6x0,28 PES	See chapter „Assembly“
Dimension (mm)	56 x 58	58 x 60	67 x 13	0,42 x 83	ø 3,2		58 x 70	6x0,28	
Material	Fe	Al	Al	Al	Fe/PVC		PES	PES	
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminum Other RAL colors sprayed, DECORAL*	According to current ISOTRA a.s. scheme	grey	Basic design – anodized Varnished in RAL colors, DECORAL*	grey black	grey black	

Specification Cetta 80

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	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			
Commercial Name	P 001	P 001/2	P 012/3	P 040	P 036	See Chapter "Guidance" for guiding channel alternatives	P 030/1 68 x 85 PES	P 531 P 531/1 6x0,28 PES	See chapter „Assembly“
Dimension (mm)	56 x 58	58 x 60	80 x 13	0,42 x 98	ø 3,2		68 x 85	6x0,28	
Material	Fe	Al	Al	Al	Fe/PVC		PES	PES	
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminum Other RAL colors sprayed, DECORAL*	According to current ISOTRA a.s. scheme	grey	Standard: anodized Other RAL colors sprayed, DECORAL*	grey black	grey black	

*Maximum dimension 4000mm.

We do not make atypical designs.

Standard Dimensions

Width (mm)		Height (mm)		Guaranteed Area (m ²)
min.	max.	min.	max.	max.
600	6000*	500	4000	8 (Handle control)

* Note: The wider the blind, the lower its wind resistance class - see "Wind resistance of exterior blinds", page 3-6.

Cetta 65, Cetta 80 klika (2-00171-XXXX)

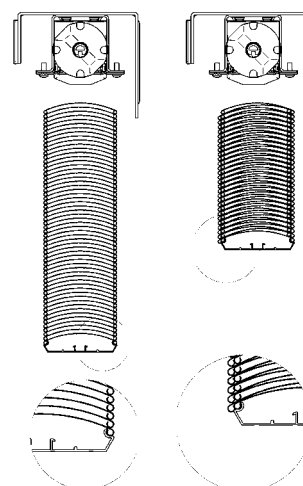
Position	Item name	Business name	Drawing number
10 - 18	Head rail 56x58 Fe	P 001/1	3-00166-PU22
10 - 18	Head rail 58x60 Al	P 001/2	3-00166-PU22
10 - 18	End stop 56x58	P 041	2-00048-0000
10 - 18	Gearing	P 045/9	6-010260-0000
10 - 18	Gearing – 6mm, hexagonal	P 045/6	6-013233-0000
10 - 18	Gearing – 8mm, square	P 045/5	6-013232-0000
10 - 18	Flat rod	P 006	7-300198-0000
10 - 18	Bearing Stoma AX, tilting 38 st.	P 025/50	6-009832-0000
10 - 18	Bearing C65, C80, Z70, S65	P 025/31	2-01098-9004
10 - 18	Gearing holder 111 510 Stoma, inbus	P 046/42	6-014239-0000
20	Bottom rail C80	P 012/23 XXXX	7-302681-XXXX
80	Slat C65 Al 0,42x83	O 101/XXXX	6-001072-XXXX
80	Slat C80 Al 0,42x98	O 103/XXXX	6-001076-XXXX
80	End guidance for slat C left + right	P 033/2 XXXX	2-00047-XXXX
80	End guidance - metal - right	P 033/22	7-301466-PU19
80	End guidance - metal - left	P 033/21	7-301467-PU19
80	End guidance flat - metal - snapping	P 033/33	7-302174-PU19
100	Textile band 6x0,28 mm	P 531	6-001284-XXXX
100	Textile band 6x0,28 mm - black	P 531/1	6-012700-XXXX
100	Texband 8x0,34 mm grey/black	P 028	6-001157-XXXX
110	Ladder C65 60x72 grey/black	P 030/3	7-301848-XXXX
110	Ladder C80 68x85 grey/black	P 030/1	6-001160-XXXX
110	Ladder shortening comb	PL 033	6-006197-0000
111	River sleeve	P 076	3-02367-0000
120	Texband holder	P 013	2-00039-0000
130	Handle 45° / 90° square	P 150/2	2-00299-0000
130	Handle 45° / 90° hexagonal	P 150/1	2-00298-0000
130	Handle removable (90°) square	P 150/4	2-00581-0000
130	Handle without bushing	P 150/8	2-01302-0000
130	Handle with cardan (90°) square	P 150/3	2-00300-0000
135	Bushing 90° white/brown/grey SQ 8x250 (23x85 mm)	P 056/2 XXXX	6-006684-XXXX
160	End caps lock C65 left+right	P 014/5 XXXX	2-00600-xxxx
160	End caps lock C80 left+right	P 014/24 XXXX	2-01118-XXXX
170	Guidance - wire/guiding channel + holder (56x58) left		2-00557-L001
170	Guidance - wire/guiding channel + holder (56x58) right		2-00557-P001
170	Upper head rail hanger - Fe PROFILE WINDSTABIL	P 002/7	2-01128-0000
170	Upper head rail hanger - Al PROFILE WINDSTABIL	P 002/8	2-01294-0000
170	Locking holder of guide rail	P 023/1	3-02758-9004
170	End-cap	P 019/3	2-01097-9004
220	Rod connector	P 077	6-001198-0000
221	Rod connector - articulated C65/80 and Z70/90	P 313	6-003075-0000
222	Gearing corner, D-46mm	P 517/46	6-017225-0000
230	Blind holder		2-00649-0000

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

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

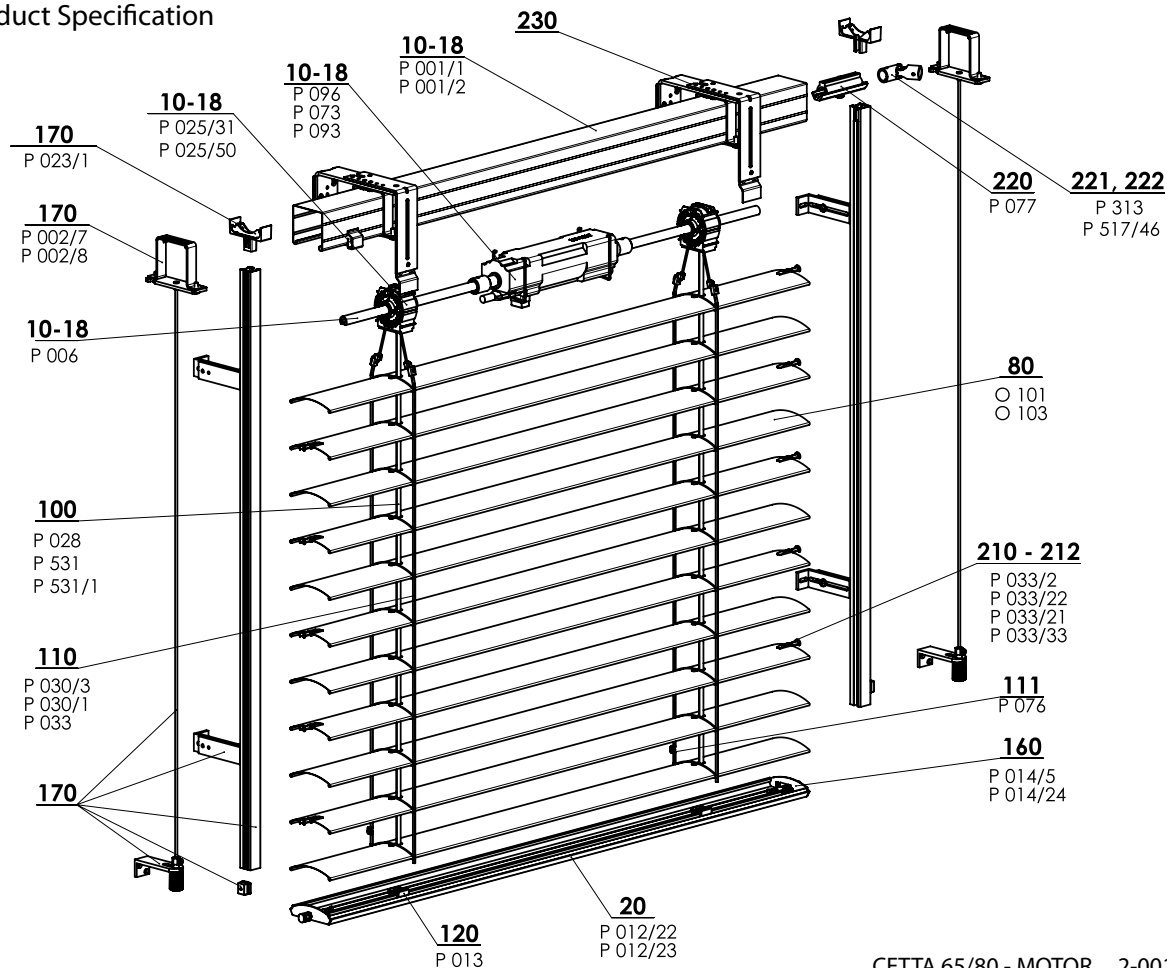
Cetta 80-Slim

Visible packet saving in comparison with Cetta 80.



Cetta 65, 80 – motor

Basic Product Specification



CETTA 65/80 - MOTOR 2-00172-XXXX-G;

Specification Cetta 65

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001/1 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	Steel Wire	Guiding Channel			
Commercial Name					P 036 ø 3,2 Fe/PVC	Variants of guiding channels in Chapter "Guides"	P 030/2 60 x 72 PES	P 531, P531/1 6 x 0,28 PES	Variants of installation in Chapter "Assembly"
Dimension									
Material									
Color	Standard: Galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminium Other RAL colors sprayed, DECORAL*	According to current ISOTRA a. s. scheme	grey black	Basic design - anodized Varnished in RAL colors, DECORAL*	grey black	grey black	

We do not make atypical designs.

Specification Cetta 80

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001/1 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/23 80 x 13 Al	P 040 0,42 x 98 Al	Steel Wire	Guiding Channel			
Commercial Name					P 036 ø 3,2 Fe/PVC	Variants of guiding channels in Chapter "Guides"	P 030/1 68 x 85 PES	P 531, P531/1 6 x 0,28 PES	Variants of installation in Chapter "Assembly"
Dimension									
Material									
Color	Standard: Galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminium Other RAL colors sprayed, DECORAL*	According to current ISOTRA a. s. scheme	grey black	Basic design - anodized Varnished in RAL colors, DECORAL*	grey black	grey black	

*Maximum dimension 4000mm.

We do not make atypical designs.

Standard dimensions

Width (mm)		Height (mm)		Guaranteed area (m ²)
min.	max.	min.	max.	
600	6000*	500	4000	16 (Cetta 80 Flexi) 24

* Note: The wider the blind, the lower its wind resistance class - see "Wind resistance of exterior blinds", page 3-6.

Cetta 65, Cetta 80 motor (2-00172-XXXX)

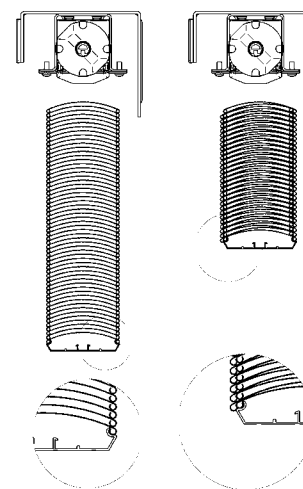
Position	Item name	Business name	Drawing number
10-18	Head rail 56x58 Fe	P 001/1	3-00166-PU22
10-18	Head rail 58x60 Al	P 001/2	7-301180-0000
10-18	Motors (ELERO) EX. BLINDS	P 096	2-00648-0000
10-18	Motors (SOMFY) EX. BLINDS	P 073	2-00512-0000
10-18	Motors (GEIGER) EX. BLINDS	P 093	2-00572-0000
10-18	Shaft	P 006	7-300198-0000
10-18	Bearing C65, C80, Z70, S65	P 025/31	2-01098-9004
10-18	Bearing Stoma AX, tilting 38 st.	P 025/50	6-009832-0000
20	Bottom rail profile C65 and Z70	P 012/22	7-302680-XXXX
20	Bottom rail profile C80	P 012/23 XXXX	7-302681-XXXX
80	Slat C65 Al 0,42x83	O 101/XXXX	6-001072-XXXX
80	Slat C80 Al 0,42x98	O 103/XXXX	6-001076-XXXX
100	Textile band 6x0,28 mm	P 531	6-001284-XXXX
100	Textile band 6x0,28 mm - black	P 531/1	6-012700-XXXX
100	Textile band 8x0,34 mm grey/black	P 028	6-001157-XXXX
110	Ladder C65 60x72 grey/black	P 030/3	7-301848-0000
110	Ladder C80 60x72 grey/black	P 030/1	6-001160-XXXX
110	Ladder shortening comb	PL 033	6-006197-0000
110	River sleeve	P 076	3-02367-0000
120	Textile band holder	P 013	2-00039-0000
160	End caps lock C65 left+right	P 014/5 XXXX	2-00600-XXXX
160	End caps lock C80 left+right	P 014/24 XXXX	2-01118-XXXX
170	Guidance - wire/guiding channel + holder LEFT		2-00557-L001
170	Guidance - wire/guiding channel + holder RIGHT		2-00557-P001
170	Head rail holder - Fe profile Windstabil	P 002/7	2-01128-0000
170	Head rail holder - Al profile Windstabil	P 002/8	2-01294-0000
170	Locking holder of guide rail	P 023/1	3-02758-9004
210-212	End guidance for slat "C" left+right	P 033/2 XXXX	2-00047-XXXX
210-212	End guidance metal for slat "C" right	P 033/22	7-301466-PU19
210-212	End guidance - metal, flat, snapping	P 033/33	7-302174-PU19
220	Rod connector	P 077	6-001198-0000
221	Rod connector - articulated C65/80 and Z70/90	P 313	6-003075-0000
222	Gearing corner, D-46mm	P 517/46	6-017225-0000
230	Blind holders		2-00649-0000

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

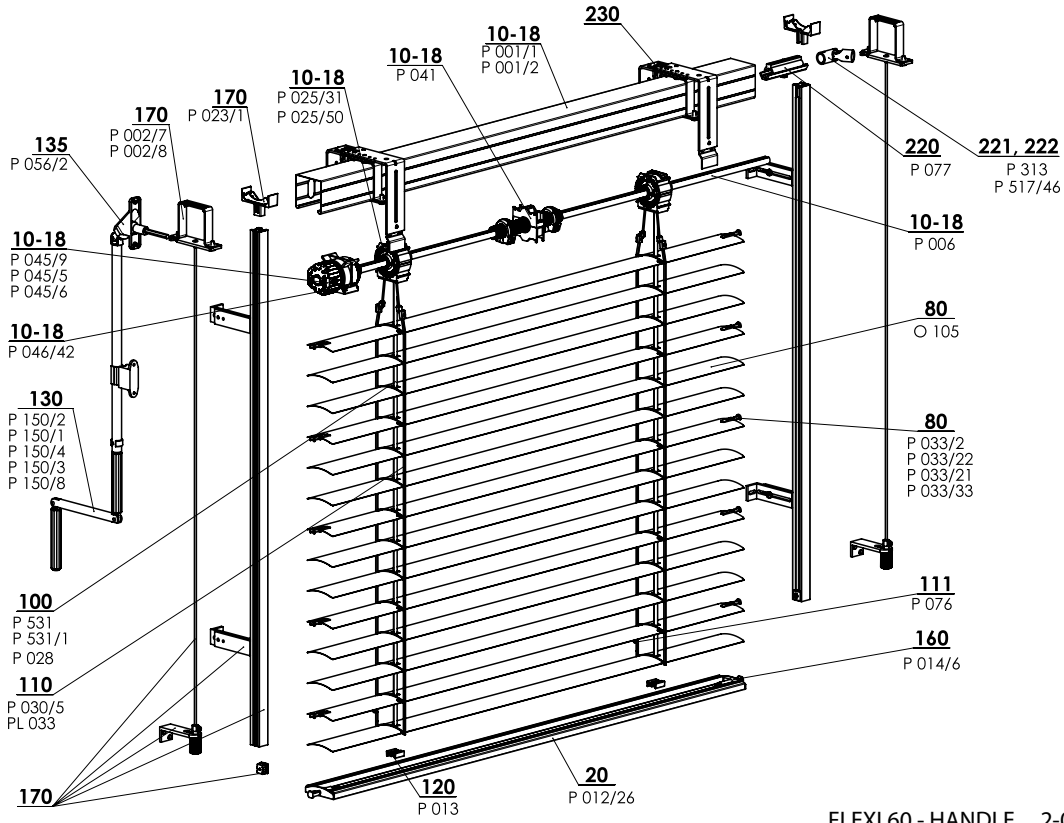
Blind height (mm)	Packet height	
	Cetta 80	Cetta 80-Slim
2300	250	225
2400	255	230
2500	265	235
2600	265	240
2700	275	250
2800	280	255
2900	290	260
3000	295	265
3100	300	270
3200	305	275
3300	315	280
3400	320	285
3500	325	290
3600	335	295
3700	340	300
3800	345	305
3900	350	310
4000	360	320

Cetta 80-Slim

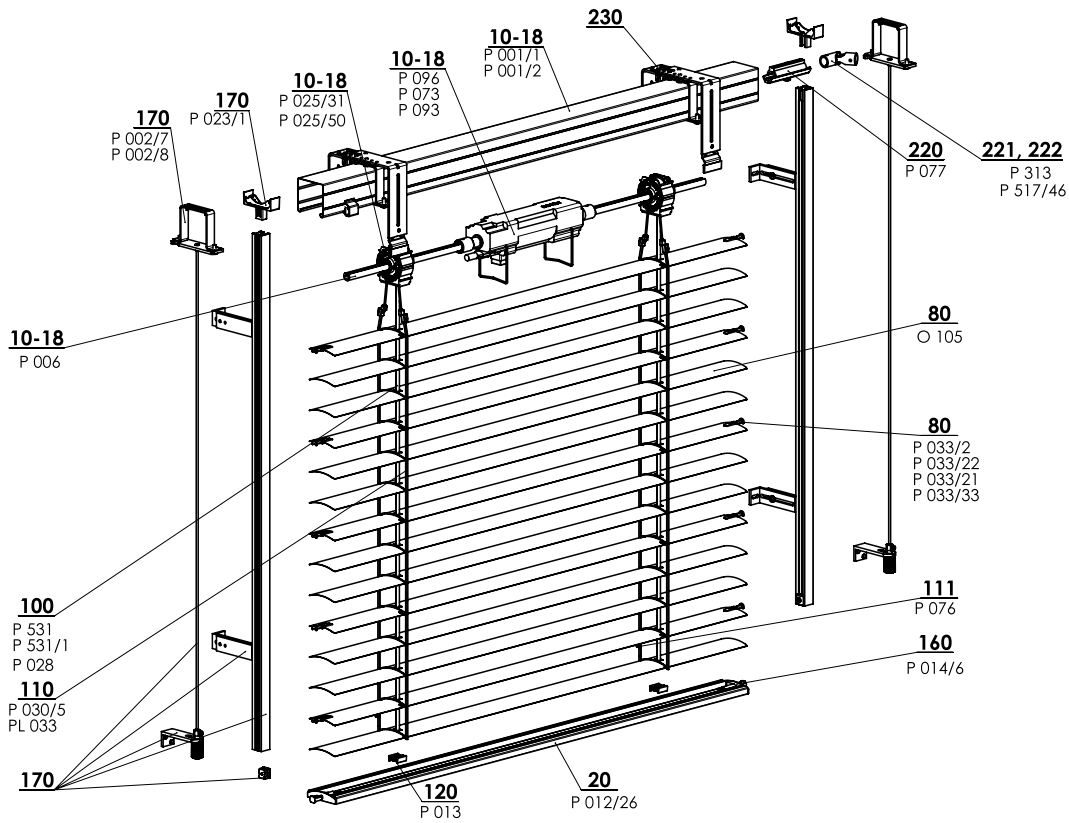
Visible packet saving in comparison with Cetta 80.



Cetta 60 Flexi
Basic Product Specification







FLEXI 60 - HANDLE 2-01439-XXXX-0



FLEXI 60 - MOTOR 2-01440-XXXX-0

Specification Cetta 60 Flexi

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band
	Steel Wire	Guiding Channel						
Commercial Name Dimension (mm) Material	P 001/1 56 x 58 Fe 	P 001/2 58 x 60 Al 	P 021/26 64,5 x 12,7 Al 	O 105 0,40 x 60 Al 	P 036 ø 3,2 Fe/PVC	Variants of guiding channels in Chapter "Guides"	P 030/5 52 x 65 PES	P 531, P 531/1 6 x 0,28 PES
Color	Standard: Galvanized steel plate Other RAL colors sprayed,		Standard: Galvanized steel plate Other RAL colors sprayed,	According to current ISOTRA a. s. scheme	grey	Standard: anodized Other RAL colors sprayed	grey black	grey black

We do not make atypical designs.

Standard dimensions

Width (mm)		Height (mm)		Guaranteed area m ²
min.	max.	min.	max.	
600	4000	500	4000	8 (handle) 16 (motor)

Cetta 60 Flexi - handle, motor (2-01439-XXXX-0, 2-01440-XXXX-0)

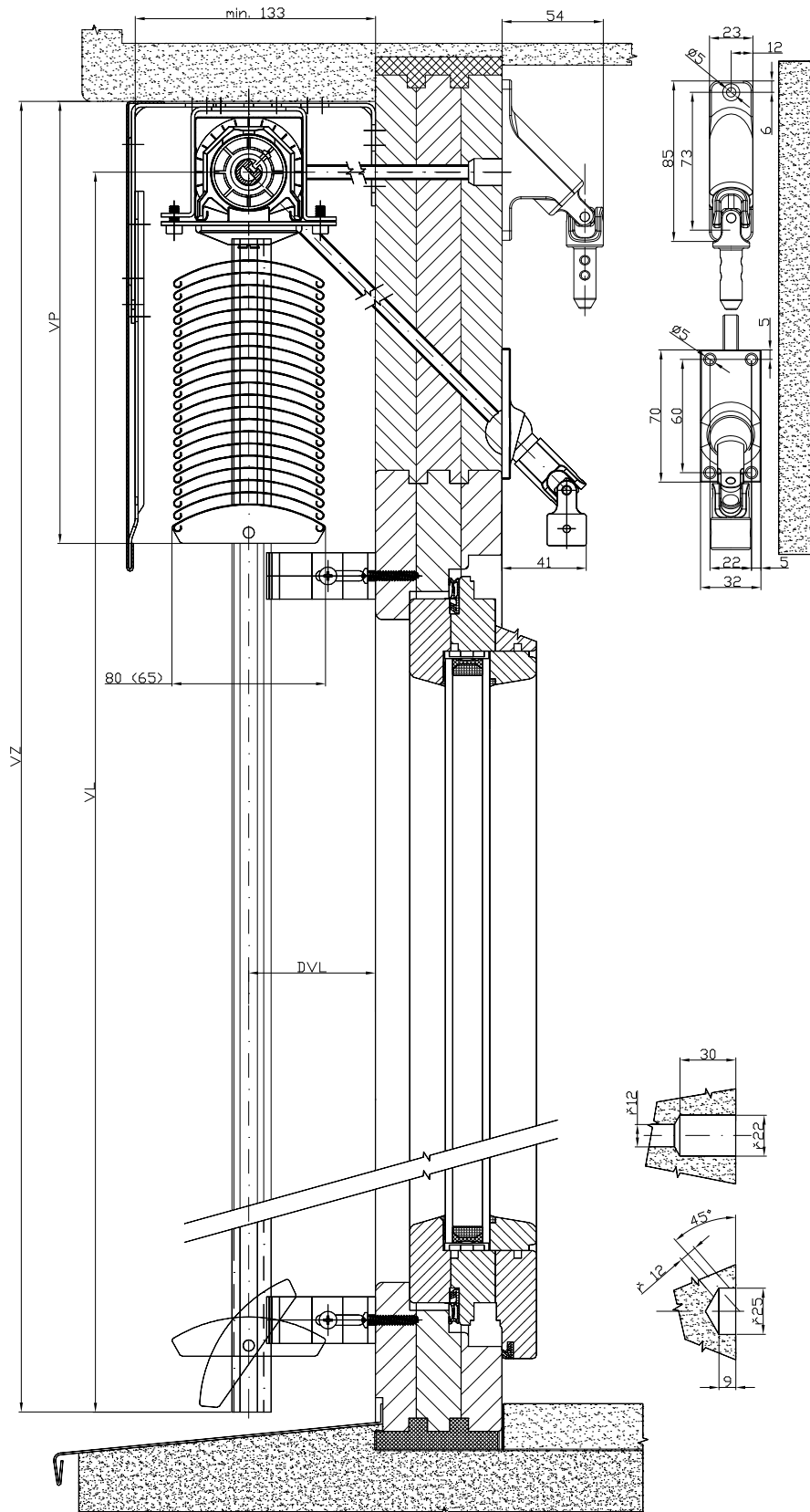
Position	Item name	Business name	Drawing number
10-18	Head rail 56x58 Fe	P 001/1	3-00166-PU22
10-18	Head rail 58x60 Al	P 001/2	7-301180-0000
10-18	End stop 56x58	P 041	2-00048-9004
10-18	Gearing	P 045/9	6-010260-0000
10-18	Gearing plastic 6 mm hexagonal 14 mm exit, 46 mm	P 045/6	6-013233-0000
10-18	Gearing plastic 8 mm hexagonal 14 mm exit, 46 mm	P 045/5	6-013232-0000
10-18	Gearing holder 111 510 Stoma, inbus	P 046/42	6-014239-0000
10-18	Bearing C65, C80, Z70, S65	P 025/31	2-01098-9004
10-18	Bearing Stoma AX, tilting 38 st.	P 025/50	6-009832-0000
10-18	Shaft	P 006	7-300198-0000
10-18	Motors (ELERO) EX. BLINDS	P 096	2-00648-0000
10-18	Motors (SOMFY) EX. BLINDS	P 073	2-00512-0000
10-18	Motors (GEIGER) EX. BLINDS	P 093	2-00572-0000
20	Bottom rail profile C60F	P 012/26	7-303193-XXXX
80	Slat Al 0,40x60	O 105	6-015422-XXXX
80	End guidance for slat "C" left+right	P 033/2 XXXX	2-00047-XXXX
80	End guidance for slat "C" right	P 033/22	7-301466-PU19
80	End guidance for slat "C" left	P 033/21	7-301467-PU19
80	End guidance - metal, flat, snapping	P 033/33	7-302174-PU19
100	Textile band 6x0,28 mm	P 531	6-001284-XXXX
100	Textile band 6x0,28 mm - black	P 531/1	6-012700-XXXX
100	Textile band 8x0,34 mm grey/black	P 028	6-001157-XXXX
110	Ladder C60F 52x65	P 030/5	6-015600-XXXX
110	Ladder shortening comb	PL 033	6-006197-0000
111	River sleeve	P 076	3-02367-0000
120	Textile band holder	P 013	2-00039-0000
130	Complete handle square (45°/90°)	P 150/2	2-00299-0000
130	Complete handle hexagonal (45°/90°)	P 150/1	2-00298-0000
130	Complete handle removable square 90°	P 150/4	2-00581-0000
130	Complete handle with cardan square 90°	P 150/3	2-00300-0000
130	Complete handle without bushing	P 150/8	2-01302-0000
135	Bushing 90° white SQ 8x250 (23x85 mm)	P 056/2	6-006684-XXXX
160	End caps lock C60F left+right	P 014/6	2-01434-XXXX
170	Guidance - wire/guiding channel + holders		see Guidance
170	Head rail holder - Fe profile Windstabil	P 002/7	2-01128-0000
170	Head rail holder - Al profile Windstabil	P 002/8	2-01294-0000
170	Locking holder of guide rail	P 023/1	3-02758-9004
220	Rod connector	P 077	6-001198-0000
221	Rod connector - articulated C65/80 and Z70/90	P 313	6-003075-0000
222	Gearing corner, D-46mm	P 517/46	6-017225-0000

CETTA 80, CETTA 65 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

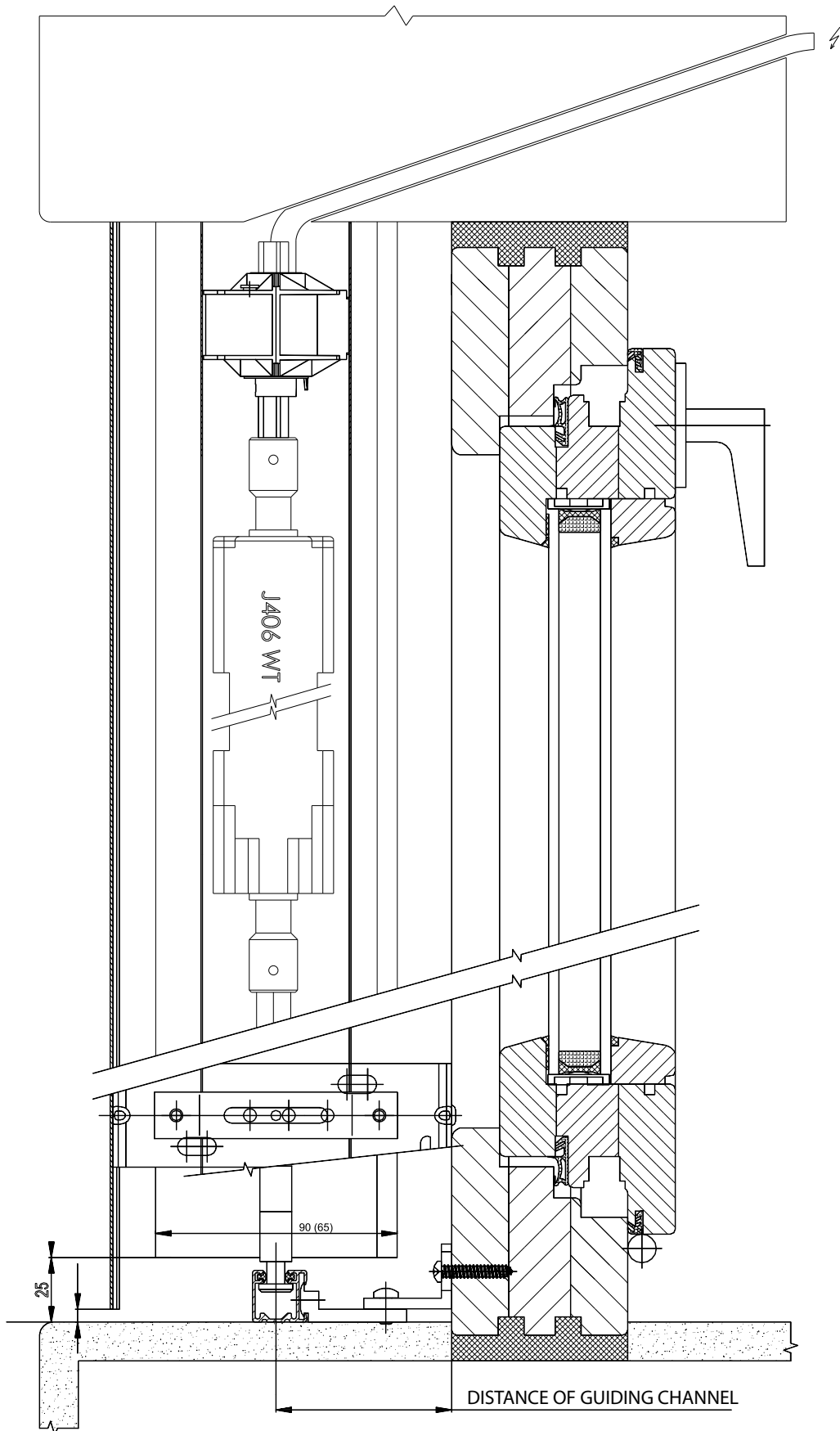
HANDLE CONTROL

Slat guidance in guiding channel.



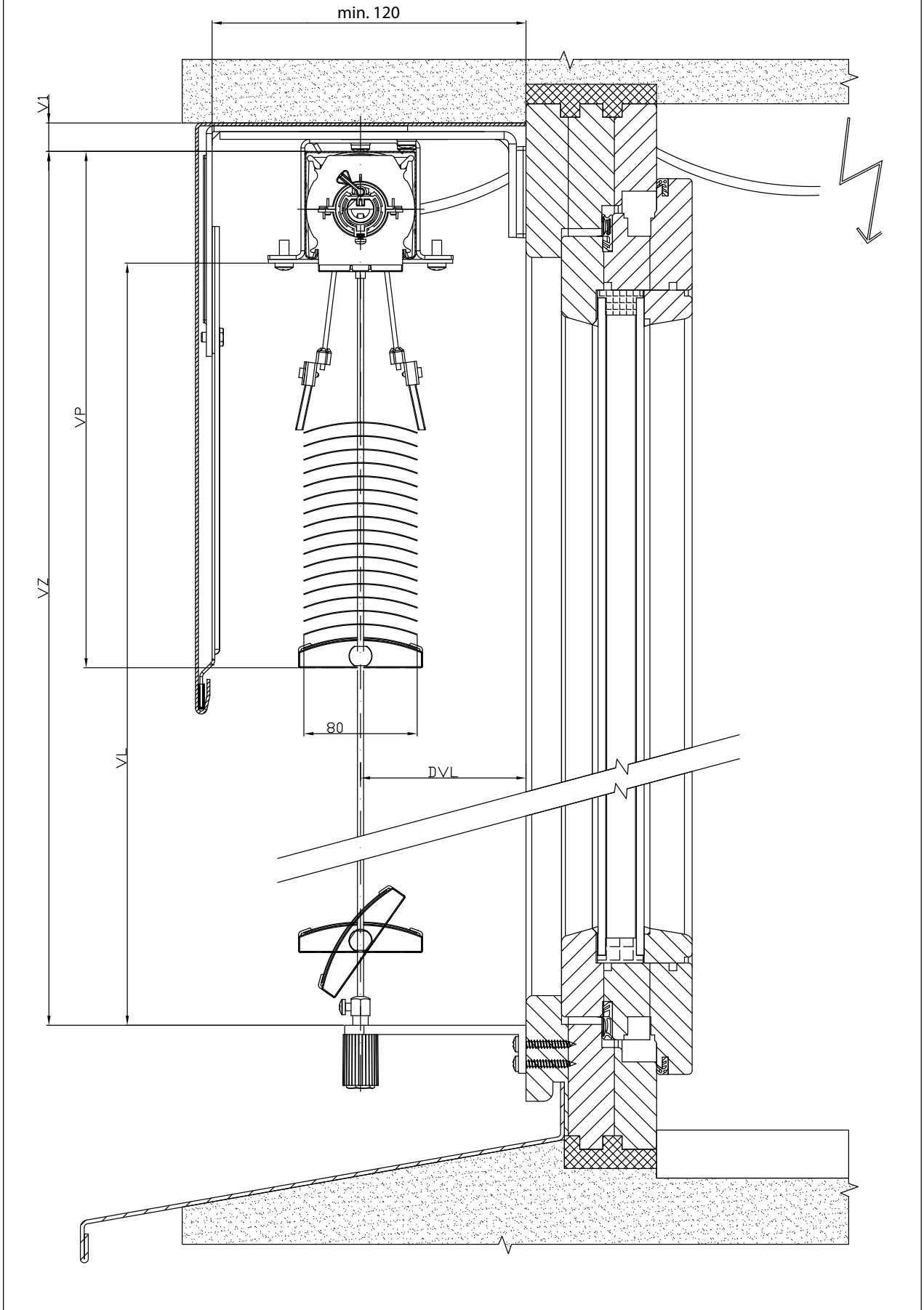
CETTA 65 EXTERIOR BLIND DIAGRAM

HORIZONTAL SECTION MOTOR CONTROL



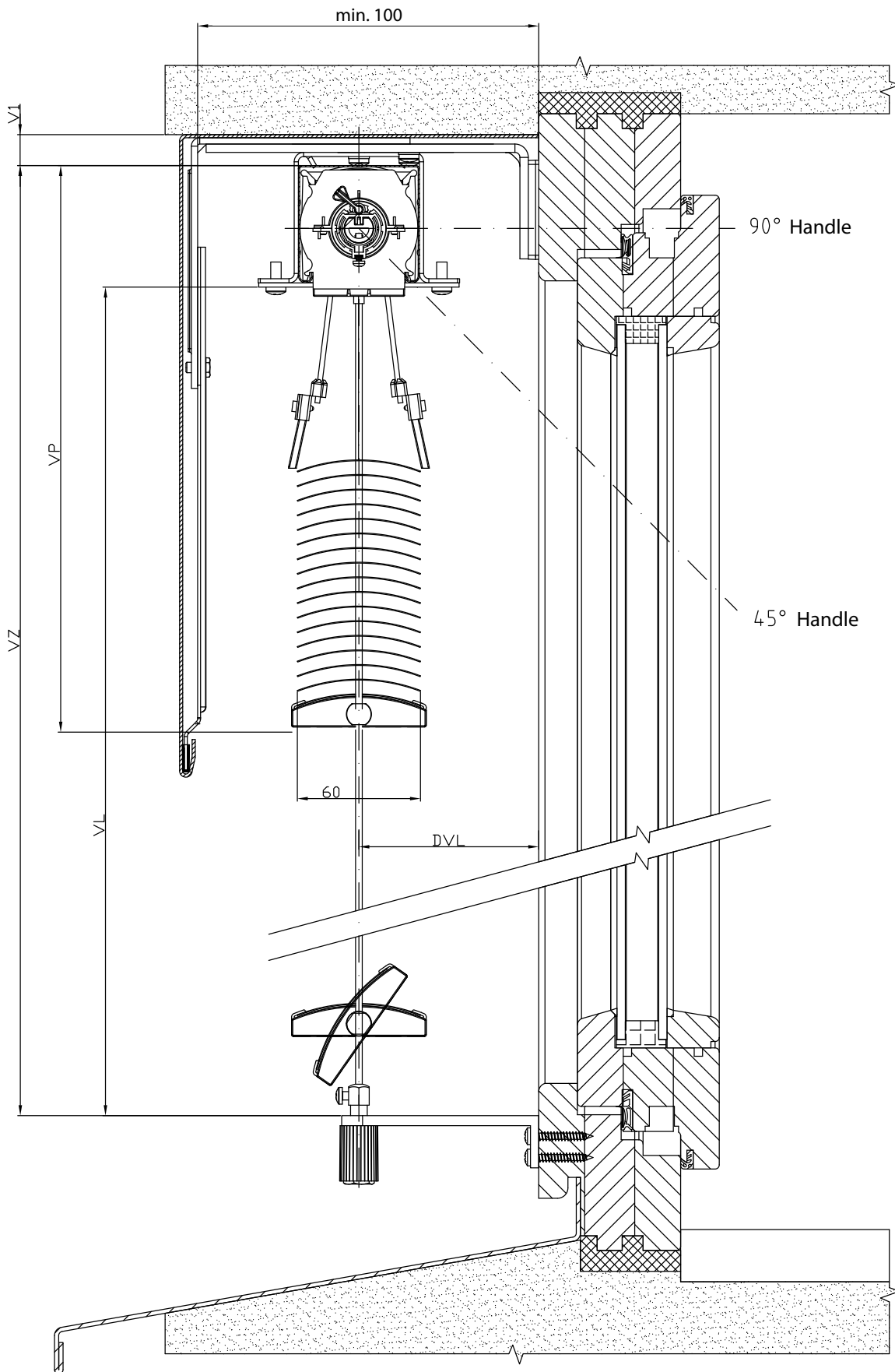
CETTA 60 - FLEXI EXTERIOR BLIND DIAGRAM

VERTICAL SECTION MOTOR CONTROL



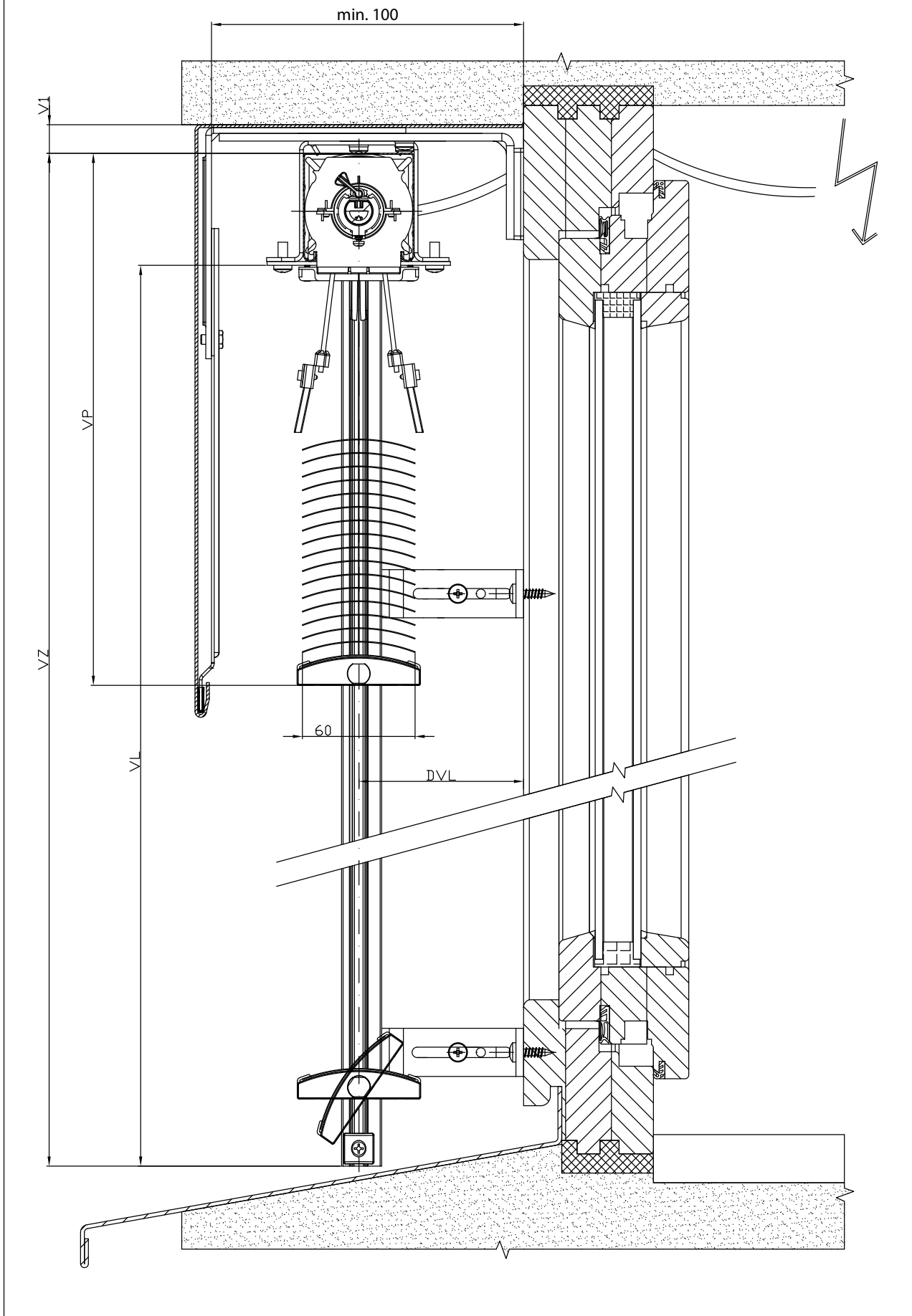
CETTA 60 - FLEXI EXTERIOR BLIND DIAGRAM

VERTICAL SECTION MOTOR CONTROL



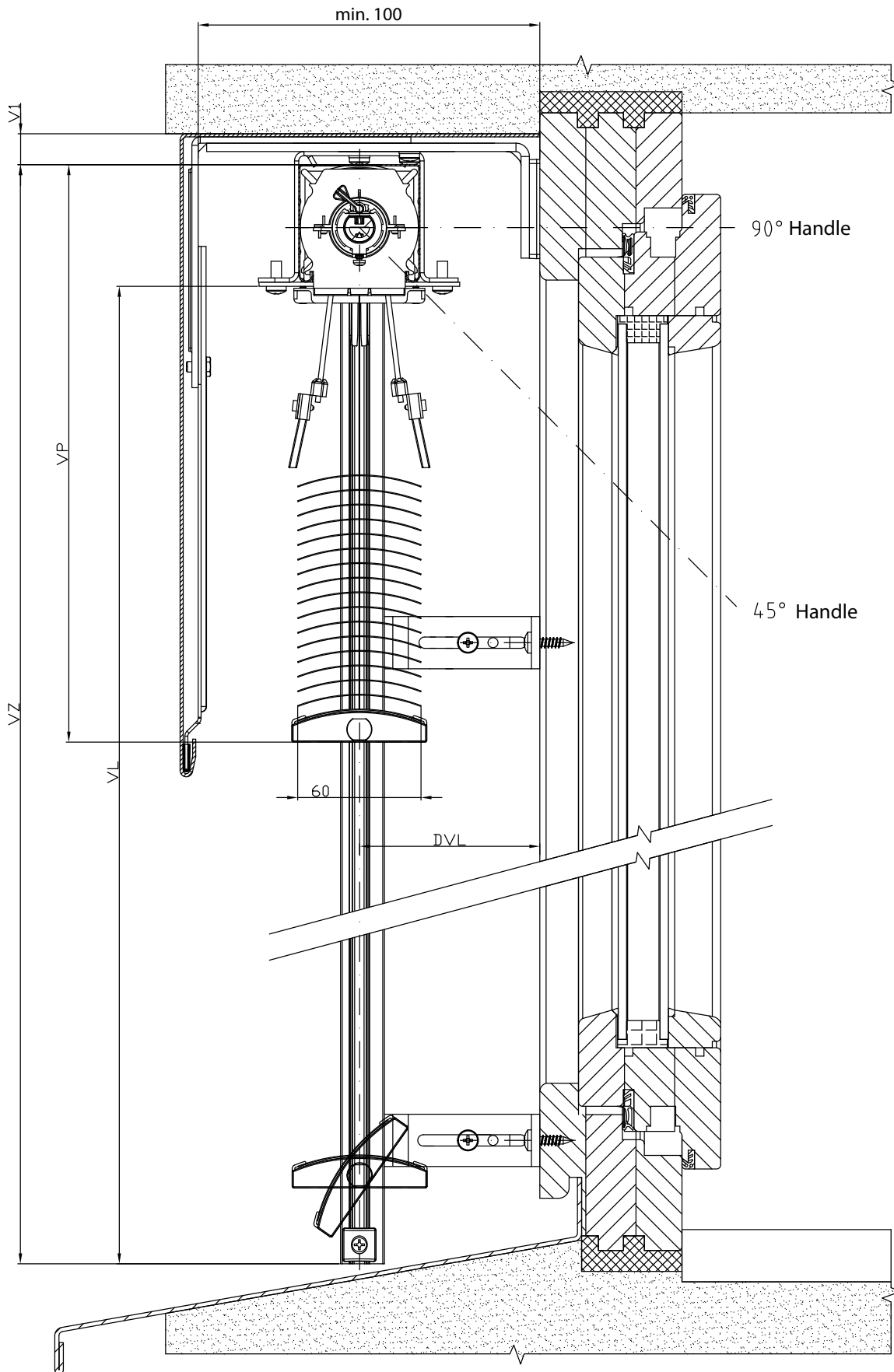
CETTA 60 - FLEXI EXTERIOR BLIND DIAGRAM

VERTICAL SECTION MOTOR CONTROL



CETTA 60 - FLEXI EXTERIOR BLIND DIAGRAM

VERTICAL SECTION MOTOR CONTROL



Setta 65, 90



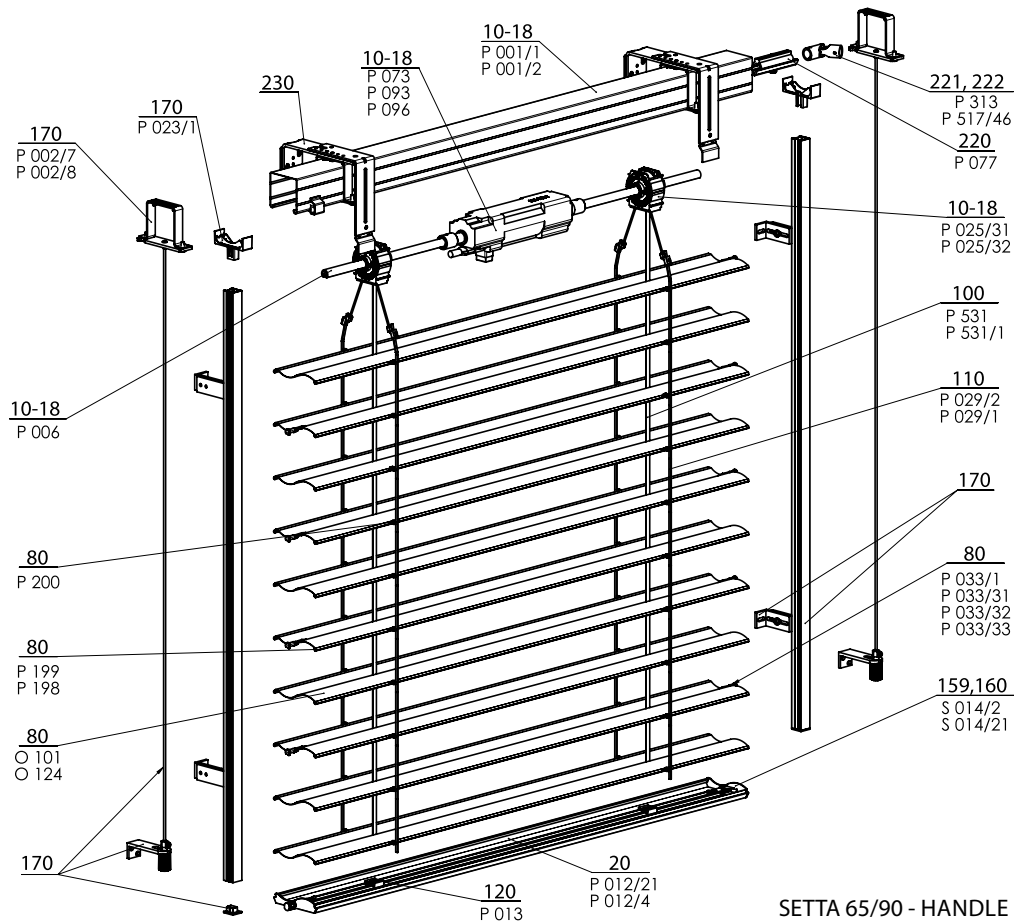
SLAT SHAPE

- ▲ Elegant slat shape „S“
- ▲ Bottom rail made of extruded aluminium
- ▲ Electrical control option
- ▲ Excellent thermo-regulating effect
- ▲ Rubber pressed in along the entire slat width

ISOTRA *Quality*

Setta 65, 90 - Handle

Basic Product Specification



SETTA 65/90 - HANDLE 2-00812-XXXX-C

Specification Setta 65

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/4 67 x 13 Al	S 037 0,42 x 83 Al	Guiding Channel	Wire			
Commercial Name	P 001	P 001/2	P 012/4	S 037	See Chapter "Guidance" for guiding channel alternatives	P 036 Ø 3,2 Fe/PVC	P 029/2 60 x 9,5 PES	P 531, P531/1 6 x 0,28 PES	See Chapter "Assembly"
Dimension (mm)									
Material									
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminum Other RAL colors sprayed, DECORAL*	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed, DECORAL*	grey black	grey black	grey black	

Specification Setta 90

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/21 93 x 14 Al	S 039 0,42 x 113 Al	Guiding Channel	Wire			
Commercial Name	P 001	P 001/2	P 012/21	S 039	See Chapter "Guidance" for guiding channel alternatives	P 036 Ø 3,2 Fe/PVC	S029/1 86 x 9,5 PES	P 531, P531/1 6 x 0,28 PES	See Chapter "Assembly"
Dimension (mm)									
Material									
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminum Other RAL colors sprayed, DECORAL*	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed, DECORAL*	grey black	grey black	grey black	

*Maximum dimension 4000mm.

We do not make atypical designs.

Standard Dimensions

Width (mm)		Height (mm)		Guaranteed Area (m ²)
min.	max.	min.	max.	max.
600	6000*	500	4000	8 (Handle control)

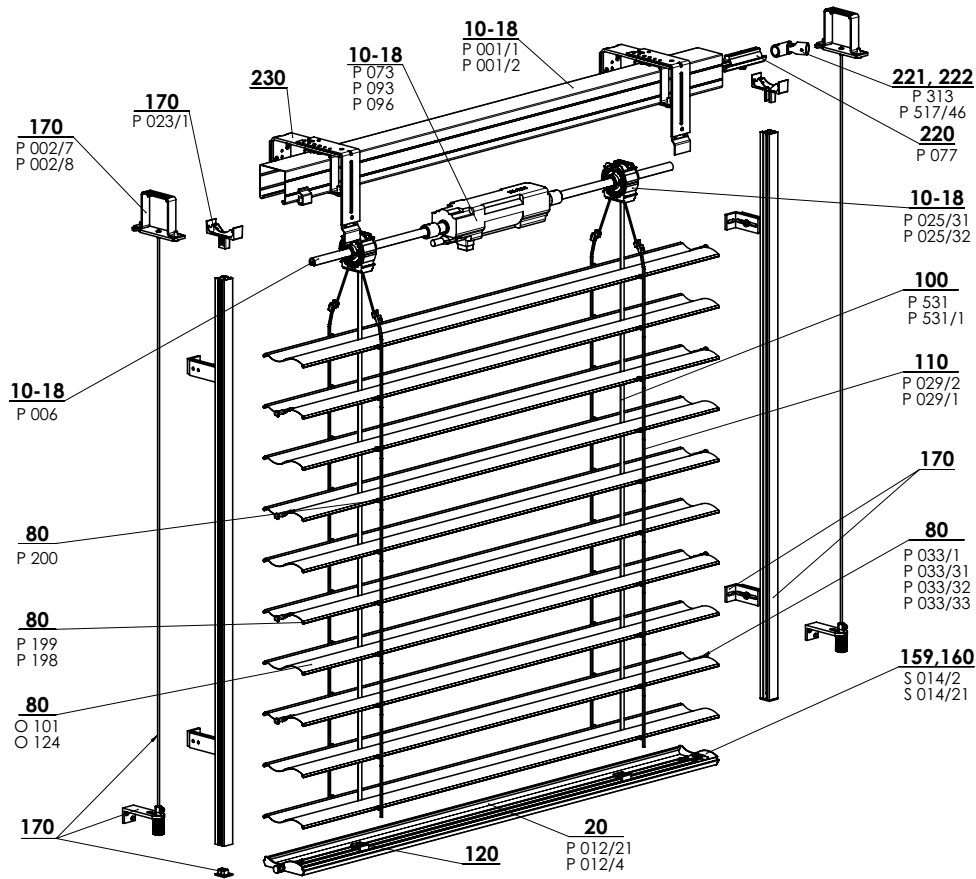
* Note: The wider the blind, the lower its wind resistance class - see "Wind resistance of exterior blinds", page 3-6.

Setta 65,90 - handle (2-00812-XXXX)

Position	Item name	Business name	Drawing number
10-18	Head rail Fe	P 001/1	3-00166-PU22
10-18	Upper head rail	P 001/2	7-301180-0000
10-18	Bearing C80 / C65 / S65 / Z70	P 025/31	2-01098-9004
10-18	Bearing Z90 / S90	P 025/32	2-01099-9004
10-18	Shaft	P 006	7-300198-0000
10-18	End stop 56x58	P 041	2-00048-9004
10-18	Gearing	P 045/9	6-010260-0000
10-18	Plastic gearing 8-mm square	P 045/5	6-013232-0000
10-18	Plastic gearing 6-mm hexagonal	P 045/6	6-013233-0000
20	Bottom rail profile Z 90 and S90 raw/elox	P 012/21	7-302679-XXXX
20	Bottom rail profile S65 elox	P 012/4	7-301895-PU52
80	Aluminium slat		see Slats
80	Slat rubber Z70 - grey	P 199	7-301334-XXXX
80	Slat rubber Z90 - grey	P 198	7-301335-XXXX
80	Connecting hook	P 200	6-001206-0000
80	Metal end guidance for slat "Z" left+right	P 033/1	2-00046-XXXX
80	Metal end guidance "Z" - left	P 033/31	7-301465-PU19
80	Metal end guidance "Z" - right	P 033/32	7-301464-PU19
80	Metal end guidance for slat "Z" left+right	P 033/33	7-302174-PU19
100	Textile band 6x0,28 mm	P 531	6-001284-9006
100	Textile band 6x0,28mm-black	P 531/1	6-012700-9004
110	Ladder Z70 60/9,5 - grey/black	P 029/2	6-001159-XXXX
110	Ladder S90 86/9,5 - grey/black	S 029/1	6-011065-XXXX
120	Textile band holder	P 013	2-00039-0000
159,160	End lock S 65 left+right	S 014/2	2-00697-XXXX
159,160	End lock S90 left+right	S 014/21	2-01116-XXXX
170	Guidance - wire/guiding channel + holder		see Guidance
170	Upper head rail hanger - Fe PROFILE WINDSTABIL	P 002/7	2-01128-0000
170	Upper head rail hanger - Al PROFILE WINDSTABIL	P 002/8	2-01294-0000
170	Locking hanger of guiding channel	P 023/1	3-02758-9004
220	Shaft coupling	P 077	6-001198-0000
221	Joint coupling of shaft C 65/80 and Z70/90	P 313	6-003075-0000
222	Gearing corner, D-46mm	P 517/46	6-017225-0000
230	Holders for exterior blinds		see Holders

Setta 65, 90 - motor

Basic Product Specification



SETTA 65/90 - MOTOR 2-00813-XXXX-B

Specification Setta 65

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al			Guiding Channel	Wire			
Commercial Name	P 001	P 001/2	P 012/4	S 039	See Chapter "Guidance" for guiding channel alternatives	P 036 Ø 3,2 Fe/PVC	P 029/2 60 x 9,5 PES	P 531, P531/1 6 x 0,28 PES	See Chapter "Assembly"
Dimension (mm)	56 x 58	58 x 60	67 x 13	0,42 x 83					
Material	Fe	Al	Al	Al					
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 black	grey black	grey black	

Specification Setta 90

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al			Guiding Channel	Wire			
Commercial Name	P 001	P 001/2	P 012/21	S 037	See Chapter "Guidance" for guiding channel alternatives	P 036 Ø 3,2 Fe/PVC	S029/1 86 x 9,5 PES	P 531, P531/1 6 x 0,28 PES	See Chapter "Assembly"
Dimension (mm)	56 x 58	58 x 60	93 x 14	0,42 x 113					
Material	Fe	Al	Al	Al					
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 black	grey black	grey black	

We do not make atypical designs.

Standard Dimensions

Width (mm)		Height (mm)		Guaranteed Area (m ²)
min.	max.	min.	max.	max.
600	6000*	500	4000	24 m ²

* Note: The wider the blind, the lower its wind resistance class - see "Wind resistance of exterior blinds", page 3-6.

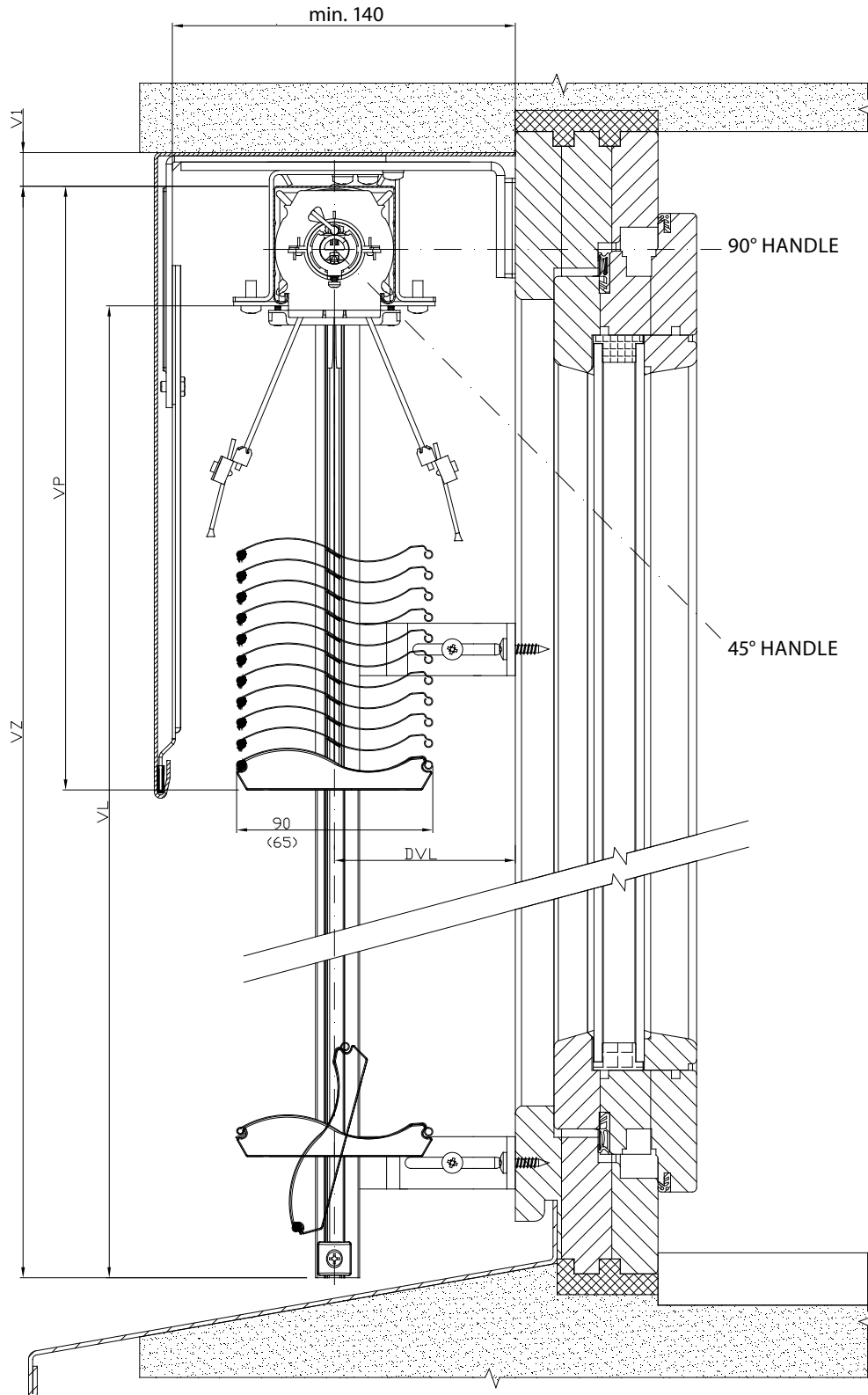
Setta 65,90 - motor (2-00813-XXXX)

Position	Item name	Business name	Drawing number
10-18	Head rail Fe	P 001/1	3-00166-PU22
10-18	Upper head rail	P 001/2	7-301180-000
10-18	Bearing C65, C80, Z70, S65	P 025/31	2-01098-9004
10-18	Bearing Z90/S90	P 025/32	2-01099-9004
10-18	Shaft	P 006	7-300198-0000
10-18	Motors (ELERO)	P 096	2-00648-0000
10-18	Motors (SOMFY)	P 073	2-00512-0000
10-18	Motors (GEIGER)	P 093	2-00572-0000
20	Bottom rail profile Z 90 a S90 raw/elox	P 012/21	7-302679-XXXX
20	Bottom rail profile S65 elox	P 012/4	7-301895-PU52
80	Aluminium slat		see Slats
80	Slat rubber Z70 - grey / black	P 199	7-301334-XXXX
80	Slat rubber Z90 - grey / black	P 198	7-301335-XXXX
80	Connecting hook	P 200	6-001206-0000
80	Metal end guidance for slat "Z" left+right	P 033/1	2-00046-XXXX
80	Metal end guidance kovové "Z" - left	P 033/31	7-301465-PU19
80	Metal end guidance kovové "Z" - right	P 033/32	7-301464-PU19
80	Metal end guidance pro lamelu "Z" left+right	P 033/33	7-302174-PU19
100	Textile band 6x0,28 mm	P 531	6-001284-9006
100	Textile band 6x0,28mm-black	P 531/1	6-012700-9004
110	Ladder Z70 60/9,5 - grey/black	P 029/2	6-001159-XXXX
110	Ladder S90 86/9,5 - grey/black	S 029/1	6-011065-XXXX
120	Textile band holder	P 013	2-00039-0000
159,160	End lock S 65 left+right	S 014/2	2-00697-XXXX
159,160	End lock S90 left+right	S 014/21	2-01116-XXXX
170	Guidance - wire/guiding channel + holder		see Guidance
170	Upper head rail hanger - Fe PROFILE WINDSTABIL	P 002/7	2-01128-0000
170	Upper head rail hanger - Al PROFILE WINDSTABIL	P 002/8	2-01294-0000
170	Locking hanger of guiding channel	P 023/1	3-02758-9004
220	Shaft coupling	P 077	6-001198-0000
221	Joint coupling of shaft C 65/80 and Z70/90	P 313	6-003075-0000
222	Gearing corner, D-46mm	P 517/46	6-017225-0000
230	Holders for exterior blinds		see Holders

SETTA 65,90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

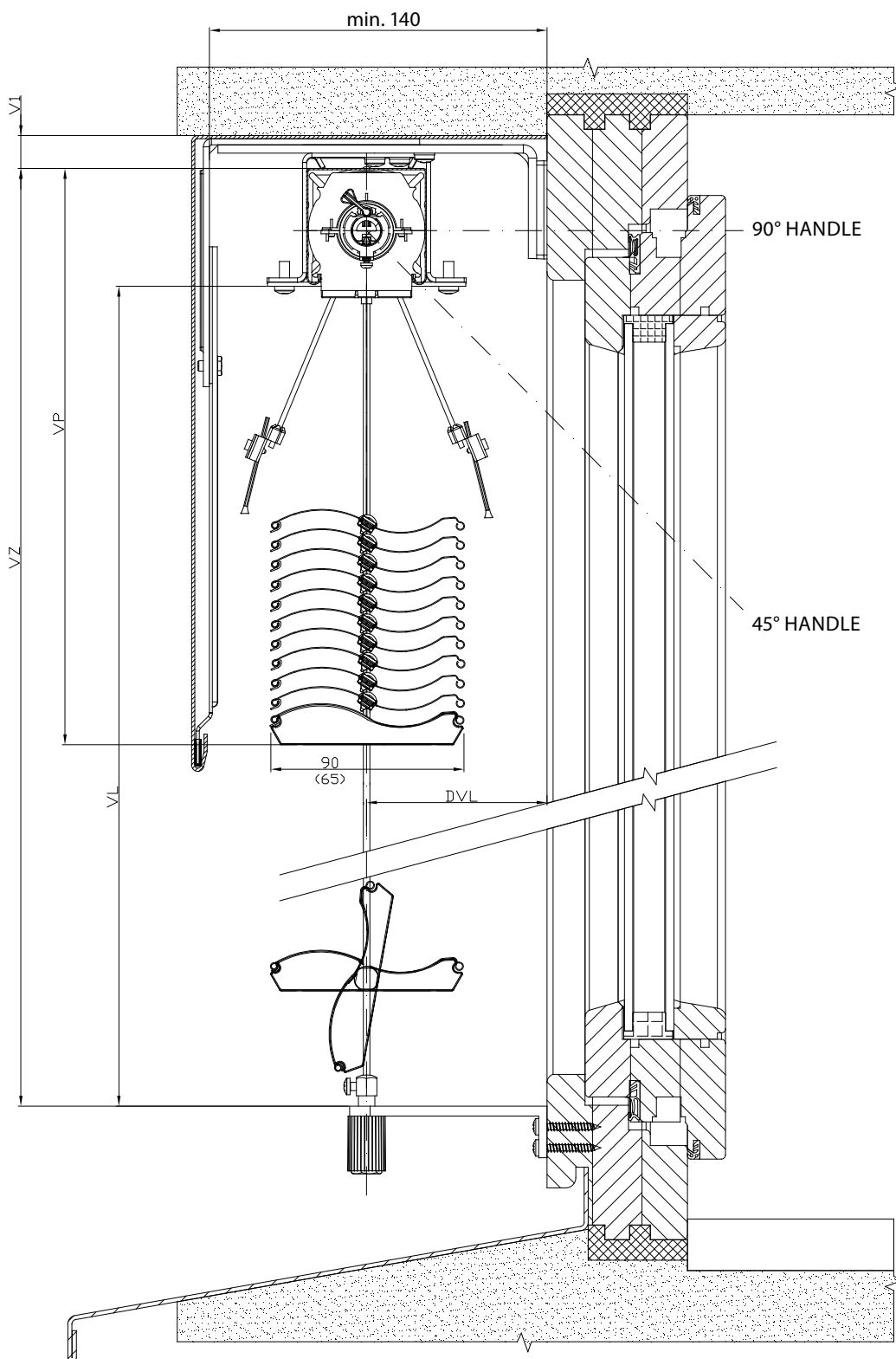
HANDLE CONTROL



SETTA 65/90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

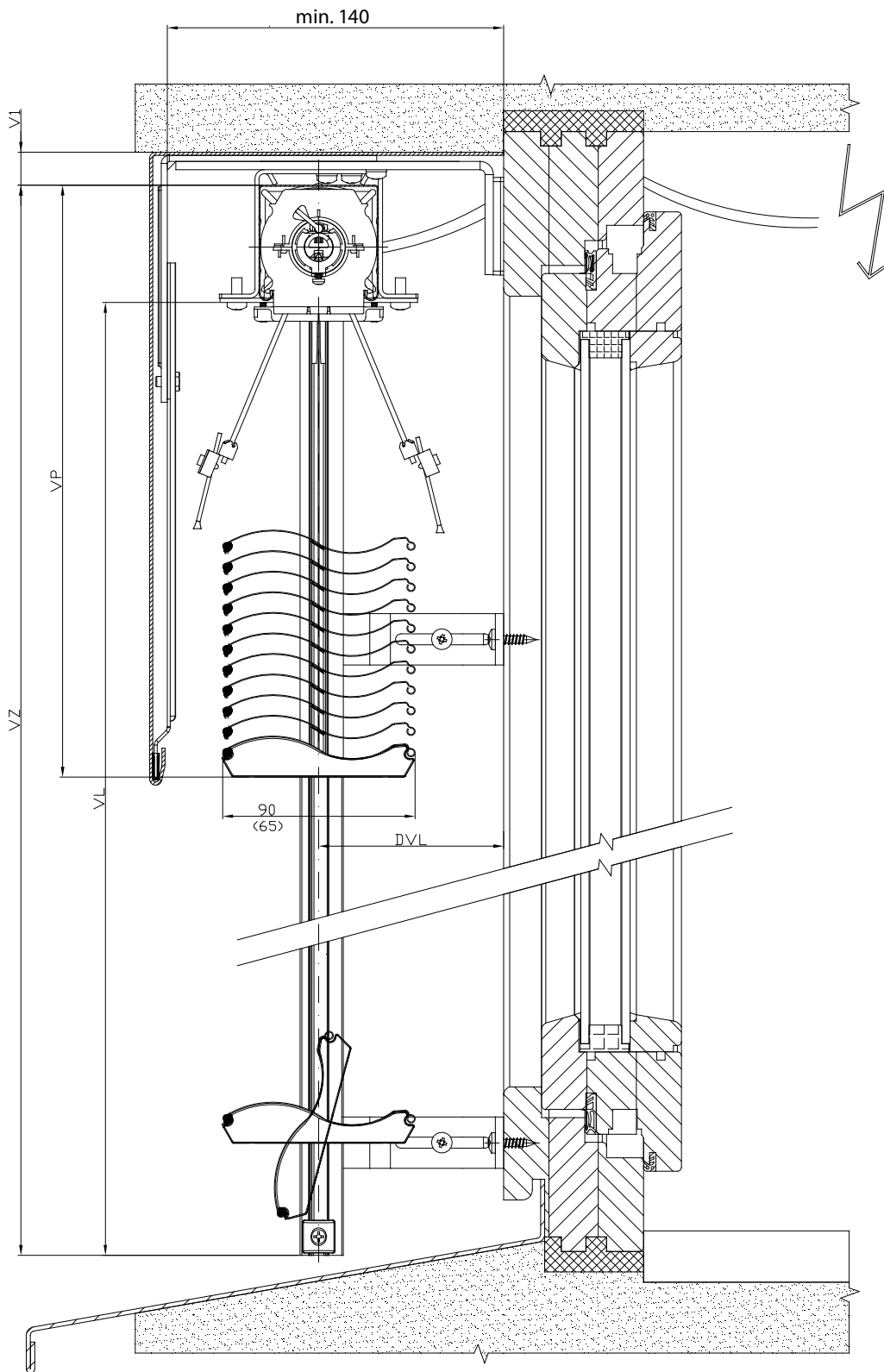
HANDLE CONTROL



SETTA 65,90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

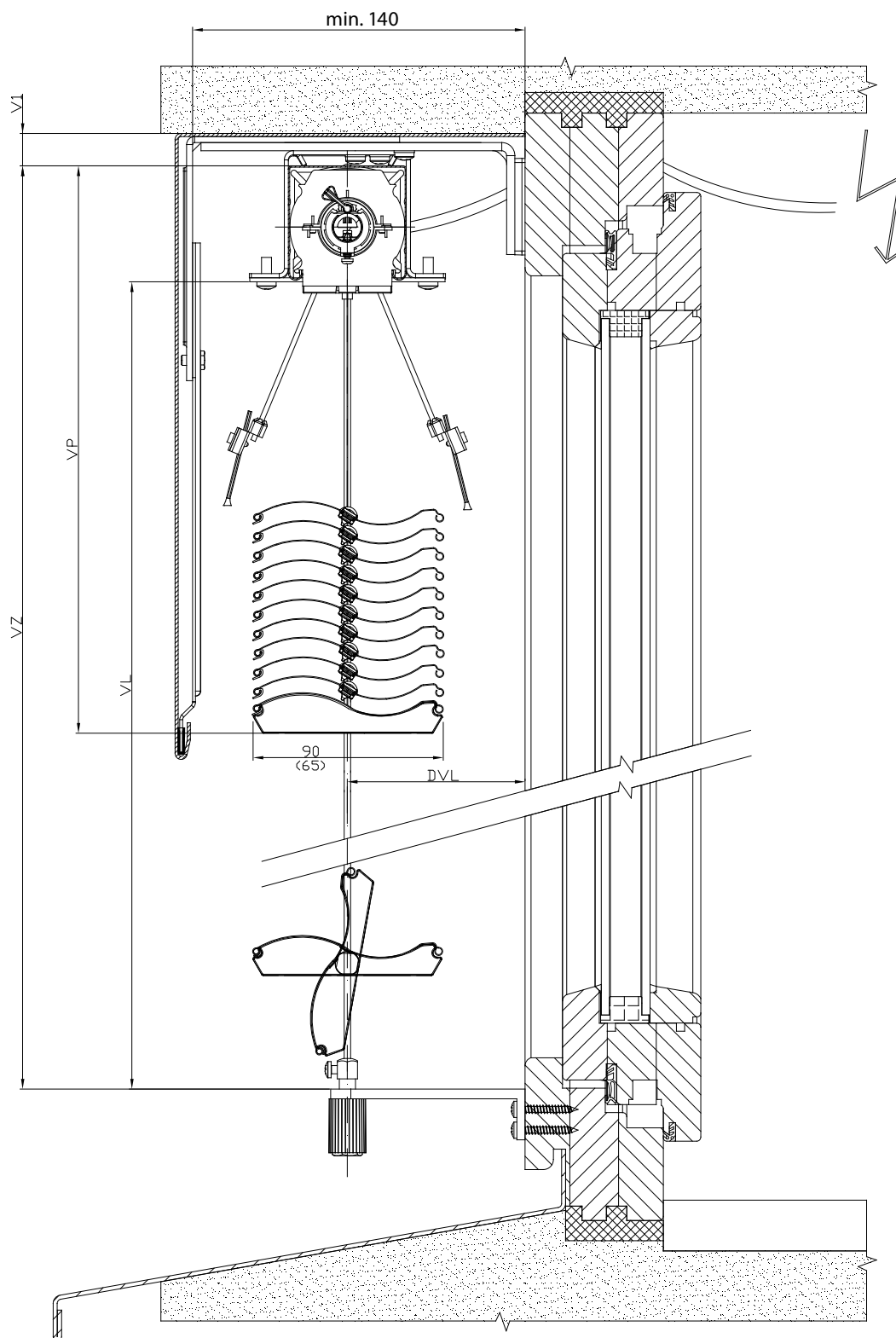
HANDLE CONTROL



SETTA 65/90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

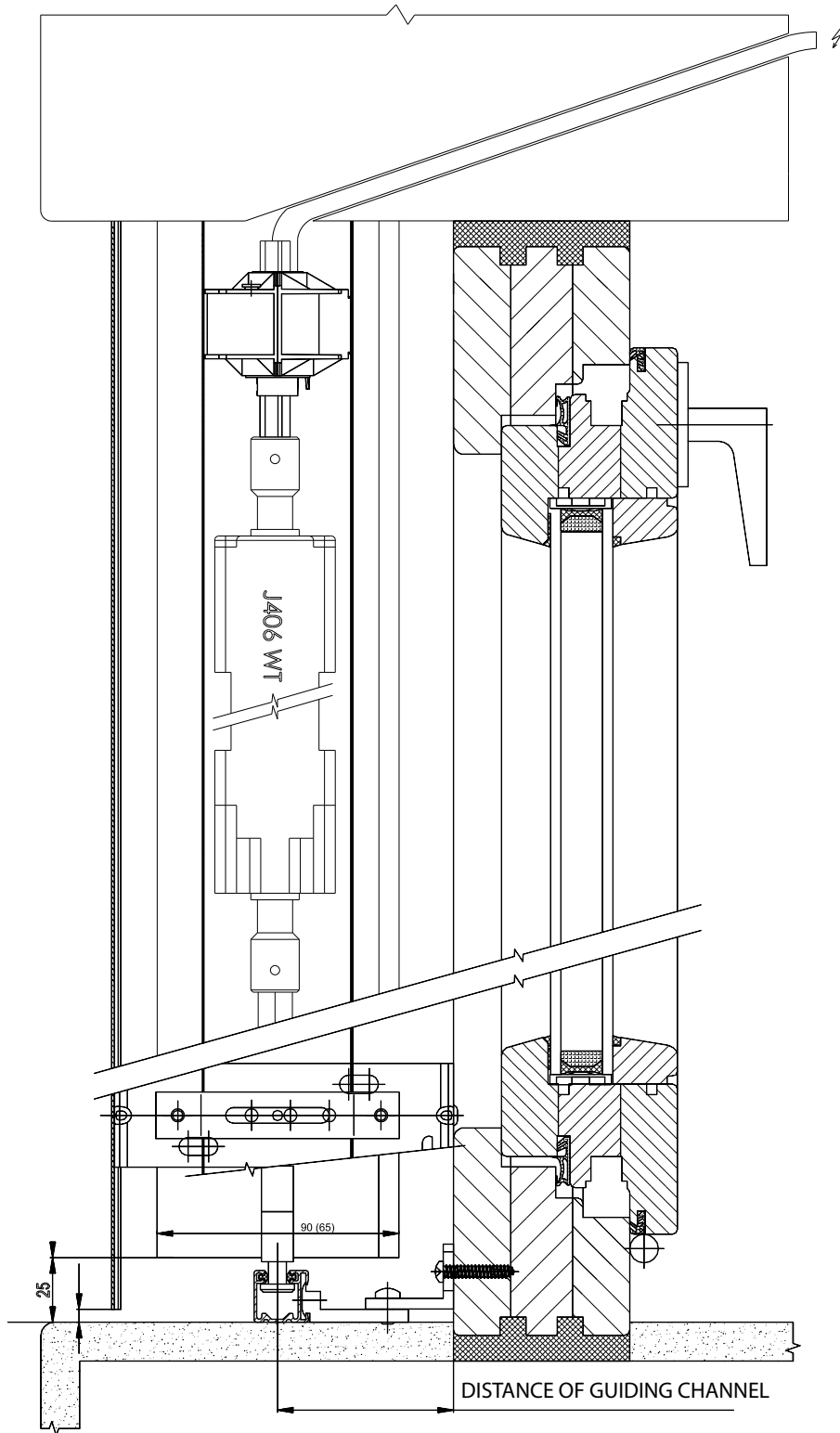
HANDLE CONTROL



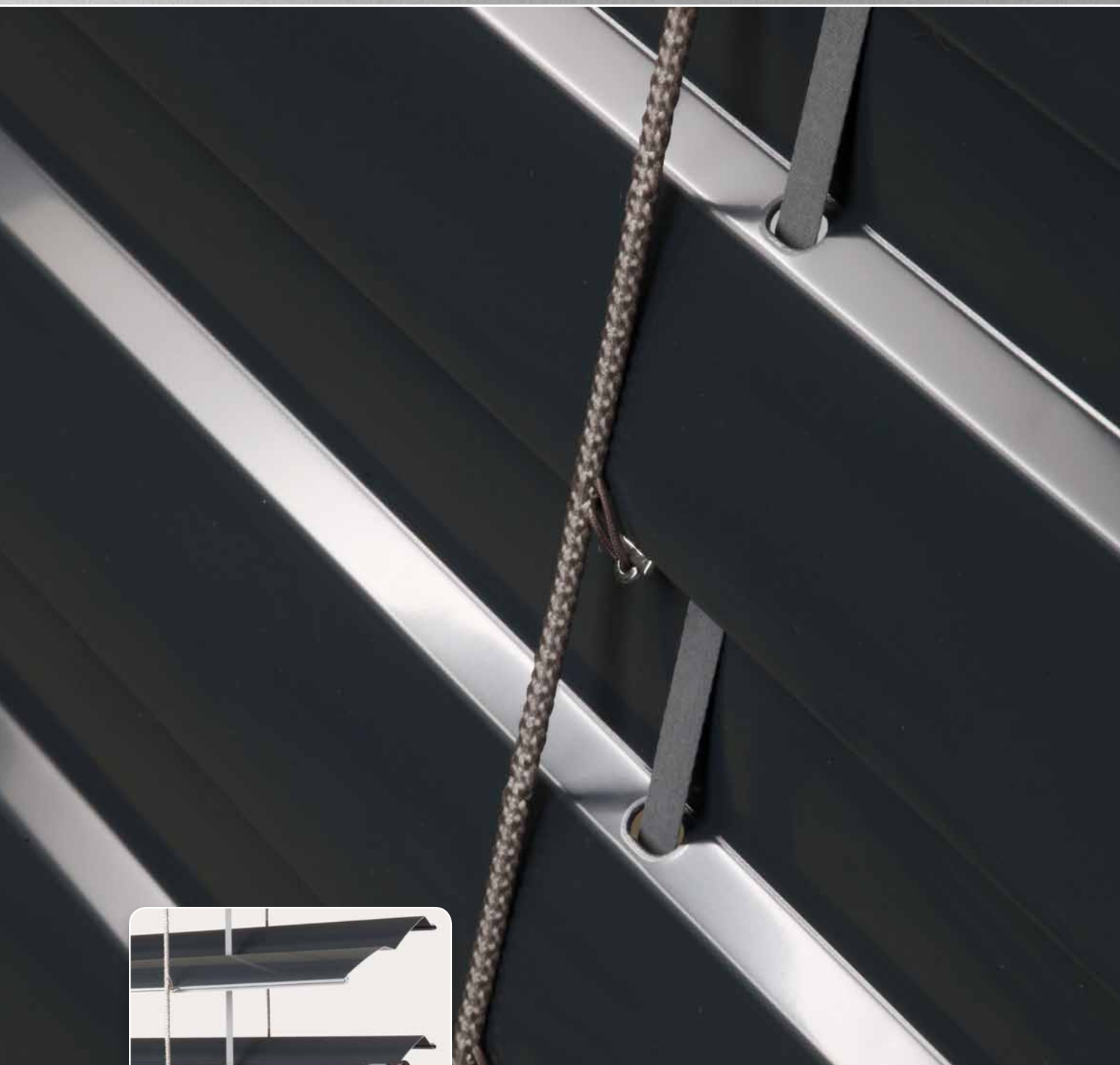
SETTA 65,90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL



Zetta 70, 90



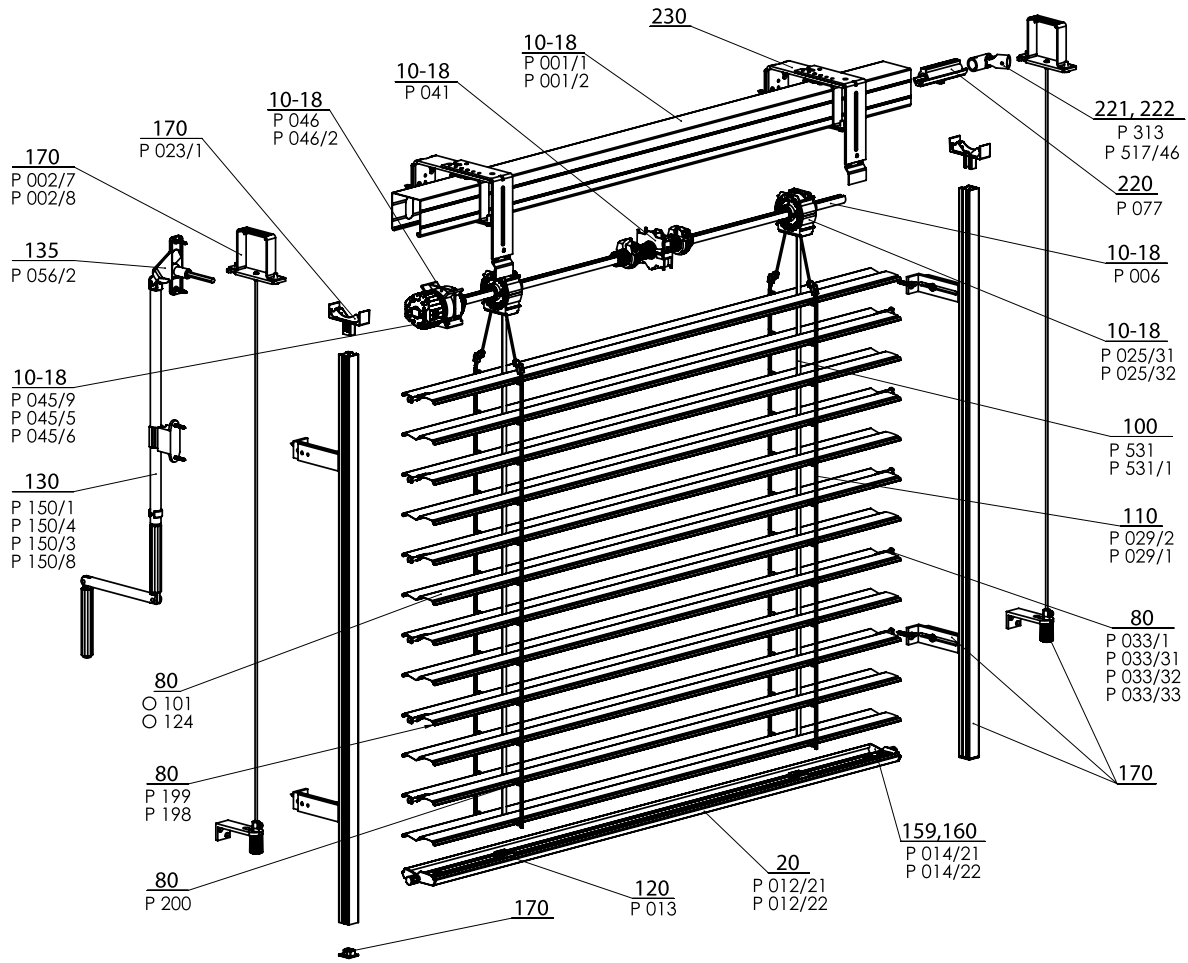
SLAT SHAPE

- ▲ 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 70, 90 - Handle

Basic Product Specification



ZETTA 70/90 - HANDLE 2-00157-XXXX-G

Specification Zetta 70

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/2 67 x 13 Al	P 038 0,42 x 83 Al	Guiding Channel	Wire			
Commercial Name	P 001	P 001/2	P 012/2	P 038	See Chapter "Guidance" for guiding channel alternatives	P 036 Ø 3,2 Fe/PVC	P 029/2 60 x 9,5 PES	P 531, P531/1 6 x 0,28 PES	See Chapter "Assembly"
Dimension (mm)	56 x 58	58 x 60	67 x 13	0,42 x 83					
Material	Fe	Al	Al	Al					
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminum Other RAL colors sprayed, DECORAL*	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed, DECORAL*	grey black	grey black	grey black	

Specification Zetta 90

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/21 93 x 14 Al	P 037 0,42 x 113 Al	Guiding Channel	Wire			
Commercial Name	P 001	P 001/2	P 012/21	P 037	See Chapter "Guidance" for guiding channel alternatives	P 036 Ø 3,2 Fe/PVC	P 029/1 80 x 9,5 PES	P 531, P531/1 6 x 0,28 PES	See Chapter "Assembly"
Dimension (mm)	56 x 58	58 x 60	93 x 14	0,42 x 113					
Material	Fe	Al	Al	Al					
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminum Other RAL colors sprayed, DECORAL*	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed, DECORAL*	grey black	grey black	grey black	

*Maximum dimension 4000mm.

We do not make atypical designs.

Standard Dimensions

Minimum Width (mm)		Height (mm)		Guaranteed Area (m ²)
min.	max.	min.	max.	max.
600	6000*	500	4000	24

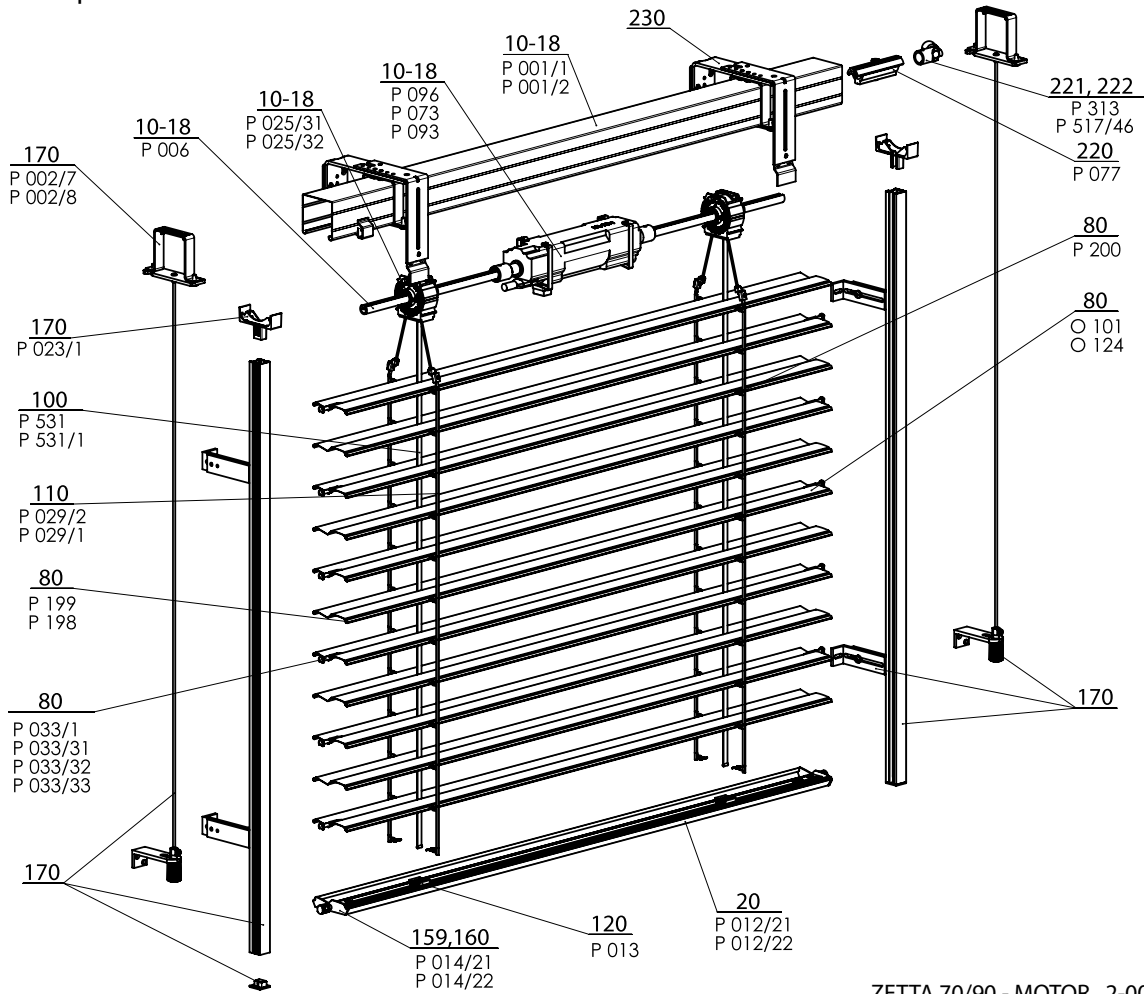
* Note: The wider the blind, the lower its wind resistance class - see "Wind resistance of exterior blinds", page 3-6.

Zetta 70,90 - handle (2-00157-7001/9001)

Position	Item name	Business name	Drawing number
10-18	Head rail Fe	P 001/1	3-00166-PU22
10-18	Upper head rail	P 001/2	7-301180-0000
10-18	Bearing C80 / C65 / S65 / Z70	P 025/31	2-01098-9004
10-18	Bearing Z90 / S90	P 025/32	2-01099-9004
10-18	Shaft	P 006	7-300198-0000
10-18	End stop 56x58	P 041	2-00048-9004
10-18	Gearing	P 045/9	6-010260-0000
10-18	Plastic gearing 8-mm square	P 045/5	6-013232-0000
10-18	Plastic gearing 6-mm hexagonal	P 045/6	6-013233-0000
10-18	Gearing holder	P 046	6-001181-0000
10-18	Gearing holder, 46 mm	P 046/2	6-013234-0000
20	Bottom rail profile Z 90 and S90 raw/elox	P 012/21	7-302679-XXXX
20	Bottom rail profile C65 and Z70	P 012/22	7-302680-PU52
80	Slat Al		see Slats
80	Slat rubber Z70 - grey	P 199	7-301334-XXXX
80	Slat rubber Z90 - grey	P 198	7-301335-XXXX
80	Connecting hook	P 200	6-001206-0000
80	Metal end guidance for slat "Z" left+right	P 033/1	2-00046-XXXX
80	Metal end guidance "Z" - left	P 033/31	7-301465-PU19
80	Metal end guidance "Z" - right	P 033/32	7-301464-PU19
80	Metal end guidance for slat "Z" left+right	P 033/33	7-302174-PU19
100	Textile band 6x0,28 mm	P 531	6-001284-9006
100	Textile band 6x0,28mm-black	P 531/1	6-012700-9004
110	Ladder Z70 60/9,5 - grey/black	P 029/2	6-001159-XXXX
110	Ladder S90 86/9,5 - grey/black	S 029/1	6-011065-XXXX
120	Textile band holder	P 013	2-00039-0000
130	Complete handle hexagonal (45°/90°)	P 150/1	2-00298-0000
130	Complete handle removable square 90°	P 150/4	2-00581-0000
130	Complete handle with cardan square 90°	P 150/3	2-00300-0000
130	Complete handle without bushing	P 150/8	2-01302-0000
135	Bushing 90° white SQ 8x250 (23x85 mm)	P 056/2	6-006684-XXXX
159,16	End lock Z70 left+right	P 014/22	2-01117-XXXX
159,16	End lock S90 left+right	S 014/21	2-01116-XXXX
170	Guidance - wire/guiding channel + holder		see Guidance
170	Upper head rail hanger - Fe PROFILE WINDSTABIL	P 002/7	2-01128-0000
170	Upper head rail hanger - Al PROFILE WINDSTABIL	P 002/8	2-01294-0000
170	Locking hanger of guiding channel	P 023/1	3-02758-9004
220	Shaft coupling	P 077	6-001198-0000
221	Joint coupling of shaft C 65/80 and Z70/90	P 313	6-003075-0000
222	Gearing corner, D-46mm	P 517/46	6-017225-0000
230	Holders for exterior blinds		see Holders

Zetta 70, 90 - Motor

Basic Product Specification



ZETTA 70/90 - MOTOR 2-00158-XXXX-G

Specification Zetta 70

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/2 67 x 13 Al	0,42 x 83 Al	Guiding Channel	Wire			
Commercial Name					See Chapter "Guidance" for guiding channel alternatives	P 036 Ø 3,2 Fe/PVC	P 029/2 60 x 9,5 PES	P 531, P531/1 6 x 0,28 PES	See Chapter "Assembly"
Dimension (mm)									
Material									
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminum Other RAL colors sprayed, DECORAL*	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed, DECORAL*	grey black	grey black	grey black	

Specification Zetta 90

	Head Rail		Bottom Rail	Slat	Side Guidance		Ladder	Textile Band	Assembly
	P 001 56 x 58 Fe	P 001/2 58 x 60 Al	P 012/21 93 x 14 Al	0,42 x 113 Al	Guiding Channel	Wire			
Commercial Name					See Chapter "Guidance" for guiding channel alternatives	P 036 Ø 3,2 Fe/PVC	P 029/1 80 x 9,5 PES	P 531, P531/1 6 x 0,28 PES	See Chapter "Assembly"
Dimension (mm)									
Material									
Color	Standard: galvanized steel plate natural (Al profil) Other RAL colors sprayed, DECORAL*		Standard: anodized aluminum Other RAL colors sprayed, DECORAL*	According to current ISOTRA a.s. scheme	Standard: anodized Other RAL colors sprayed, DECORAL*	grey black	grey black	grey black	

*Maximum dimension 4000mm.

We do not make atypical designs.

Standard Dimensions

Width (mm)		Height (mm)		Guaranteed Area (m ²)
min.	max.	min.	max.	max.
600	6000*	500	4000	18 (Zetta 70) 24 (Zetta 90)

* Note: The wider the blind, the lower its wind resistance class - see "Wind resistance of exterior blinds", page 3-6.

Zetta 70,90 - motor (2-00158-7001/9001)

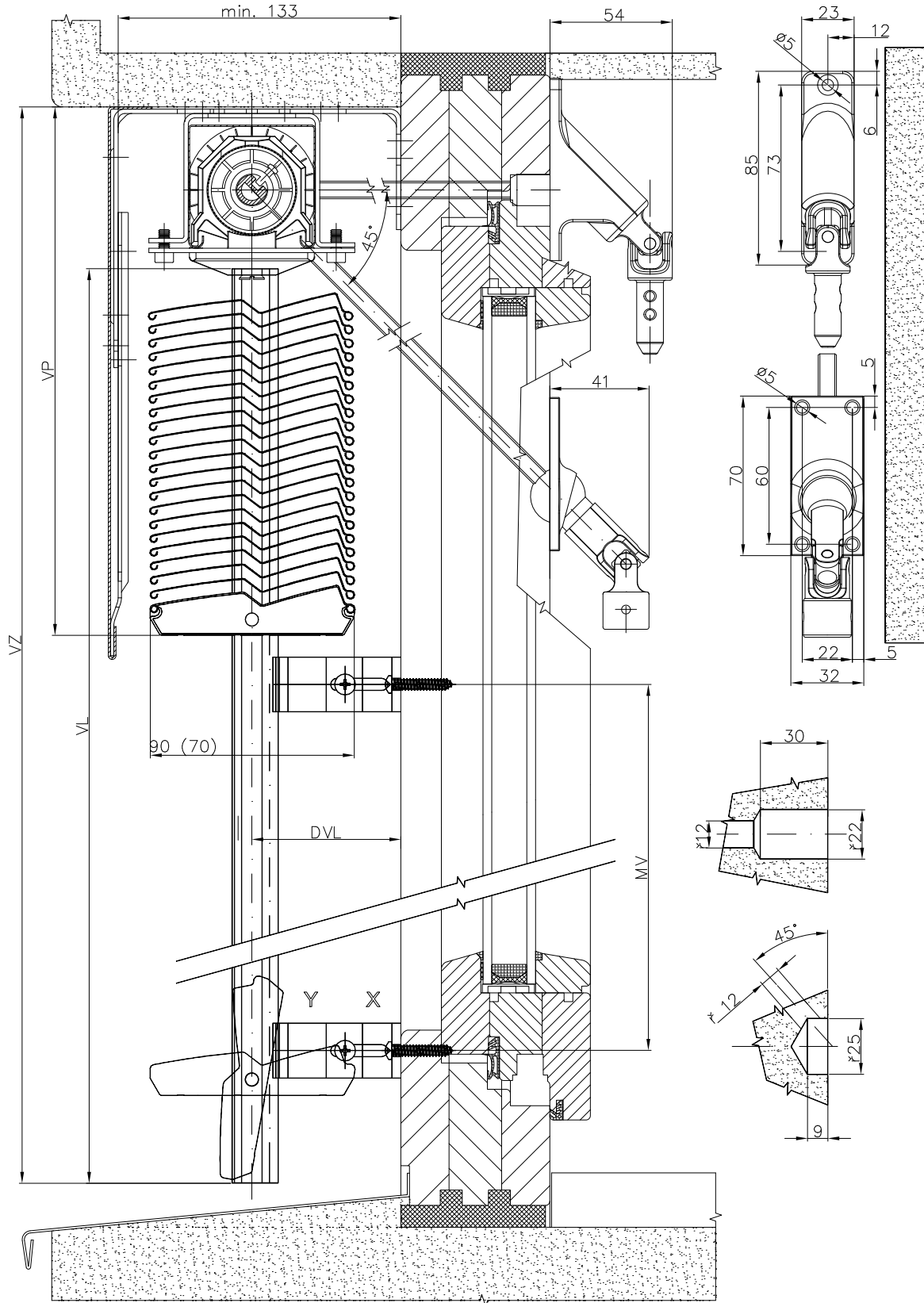
Position	Item name	Business name	Drawing number
10-18	Head rail Fe	P 001/1	3-00166-PU22
10-18	Upper head rail	P 001/2	7-301180-000
10-18	Bearing C65, C80, Z70, S65	P 025/31	2-01098-9004
10-18	Bearing Z90/S90	P 025/32	2-01099-9004
10-18	Shaft	P 006	7-300198-0000
10-18	Motors (ELERO)	P 096	2-00648-0000
10-18	Motors (SOMFY)	P 073	2-00512-0000
10-18	Motors (GEIGER)	P 093	2-00572-0000
20	Bottom rail profile Z 90 a S90 raw/elox	P 012/21	7-302679-XXXX
20	Bottom rail profile S65 elox	P 012/22	7-302680-PU52
80	Aluminium slat		see Slats
80	Slat rubber Z70 - grey / black	P 199	7-301334-XXXX
80	Slat rubber Z90 - grey / black	P 198	7-301335-XXXX
80	Connecting hook	P 200	6-001206-0000
80	Metal end guidance for slat "Z" left+right	P 033/1	2-00046-XXXX
80	Metal end guidance kovové "Z" - left	P 033/31	7-301465-PU19
80	Metal end guidance kovové "Z" - right	P 033/32	7-301464-PU19
80	Metal end guidance pro lamelu "Z" left+right	P 033/33	7-302174-PU19
100	Textile band 6x0,28 mm	P 531	6-001284-9006
100	Textile band 6x0,28mm-black	P 531/1	6-012700-9004
110	Ladder Z70 60/9,5 - grey/black	P 029/2	6-001159-XXXX
110	Ladder S90 86/9,5 - grey/black	S 029/1	6-011065-XXXX
120	Textile band holder	P 013	2-00039-0000
159, 160	End lock Z70 left+right	P 014/22	2-01117-XXXX
159, 160	End lock S90 left+right	S 014/21	2-01116-XXXX
170	Guidance - wire/guiding channel + holder		see Guidance
170	Upper head rail hanger - Fe PROFILE WINDSTABIL	P 002/7	2-01128-0000
170	Upper head rail hanger - Al PROFILE WINDSTABIL	P 002/8	2-01294-0000
170	Locking hanger of guiding channel	P 023/1	3-02758-9004
220	Shaft coupling	P 077	6-001198-0000
221	Joint coupling of shaft C 65/80 and Z70/90	P 313	6-003075-0000
222	Gearing corner, D-46mm	P 517/46	6-017225-0000
230	Holders for exterior blinds		see Holders

ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance in guiding channel

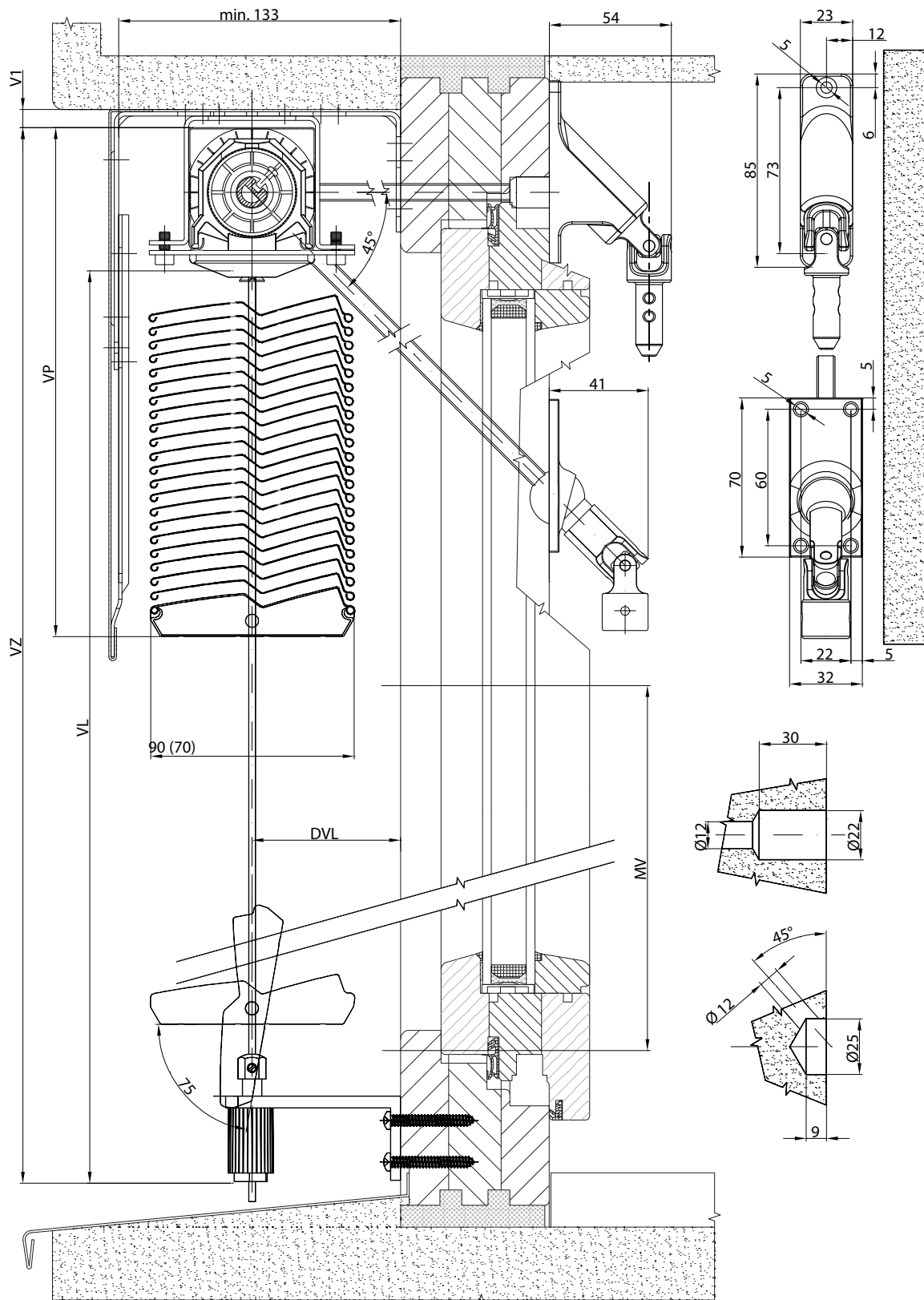


ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance in guiding channel

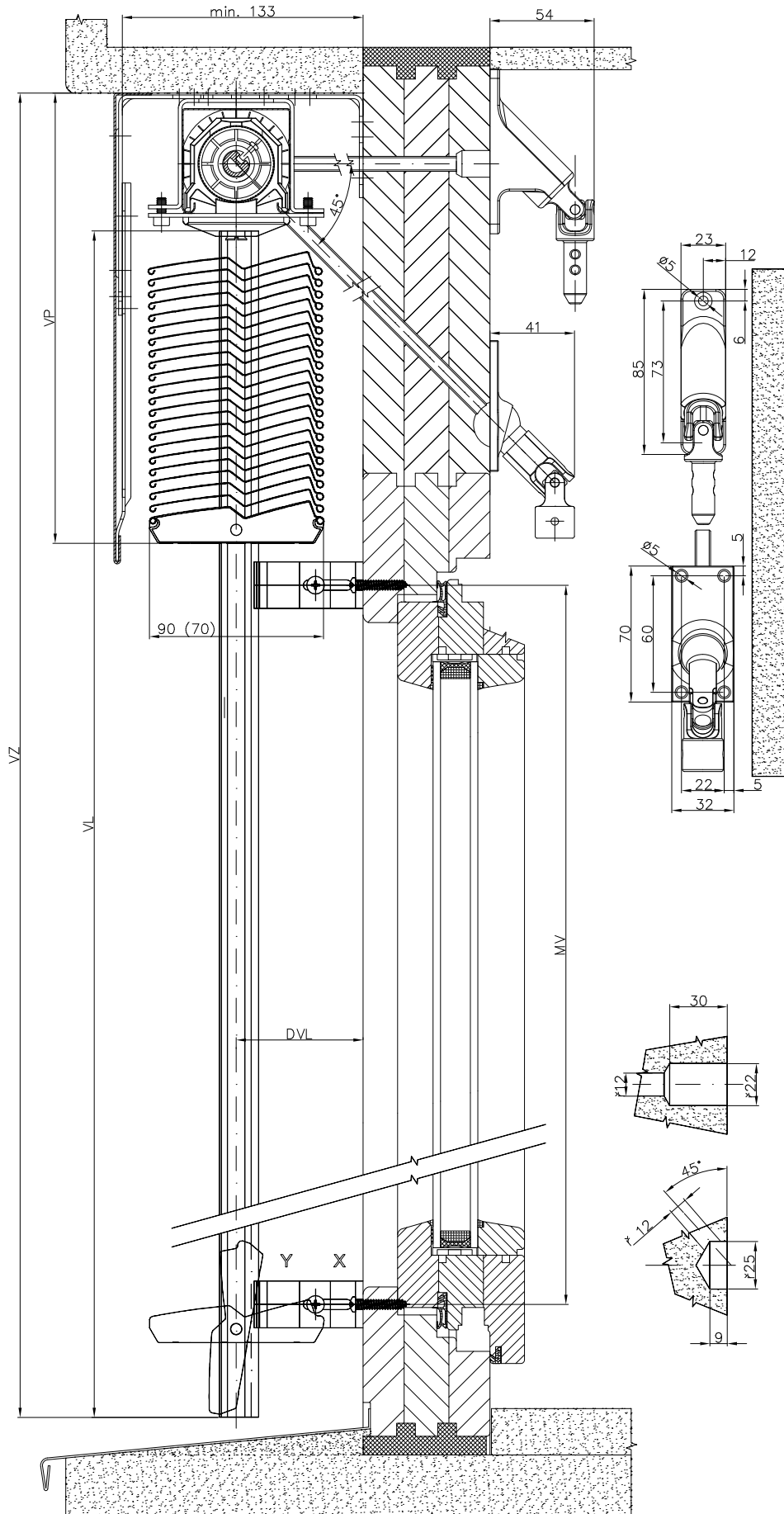


ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance using steel wire

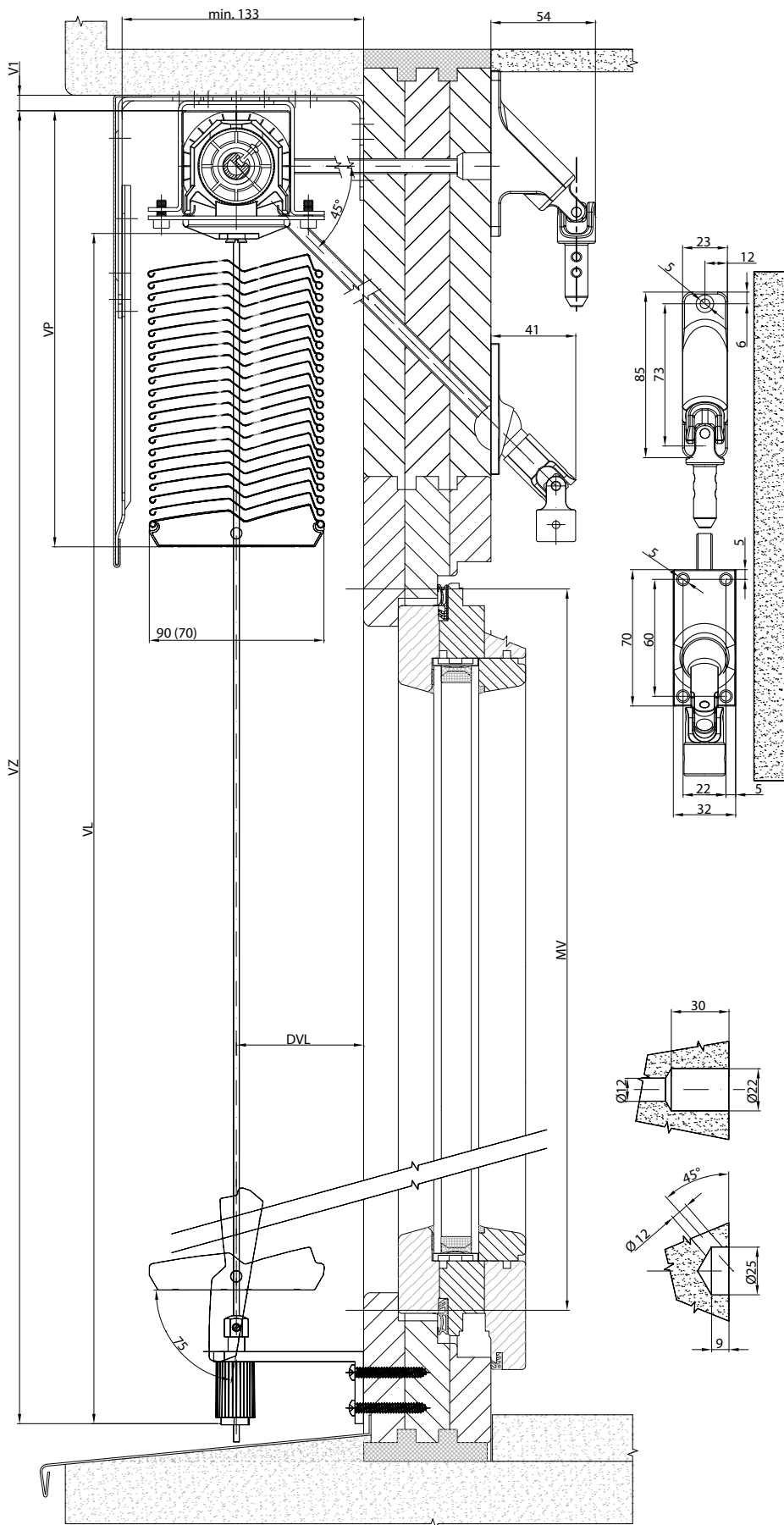


ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

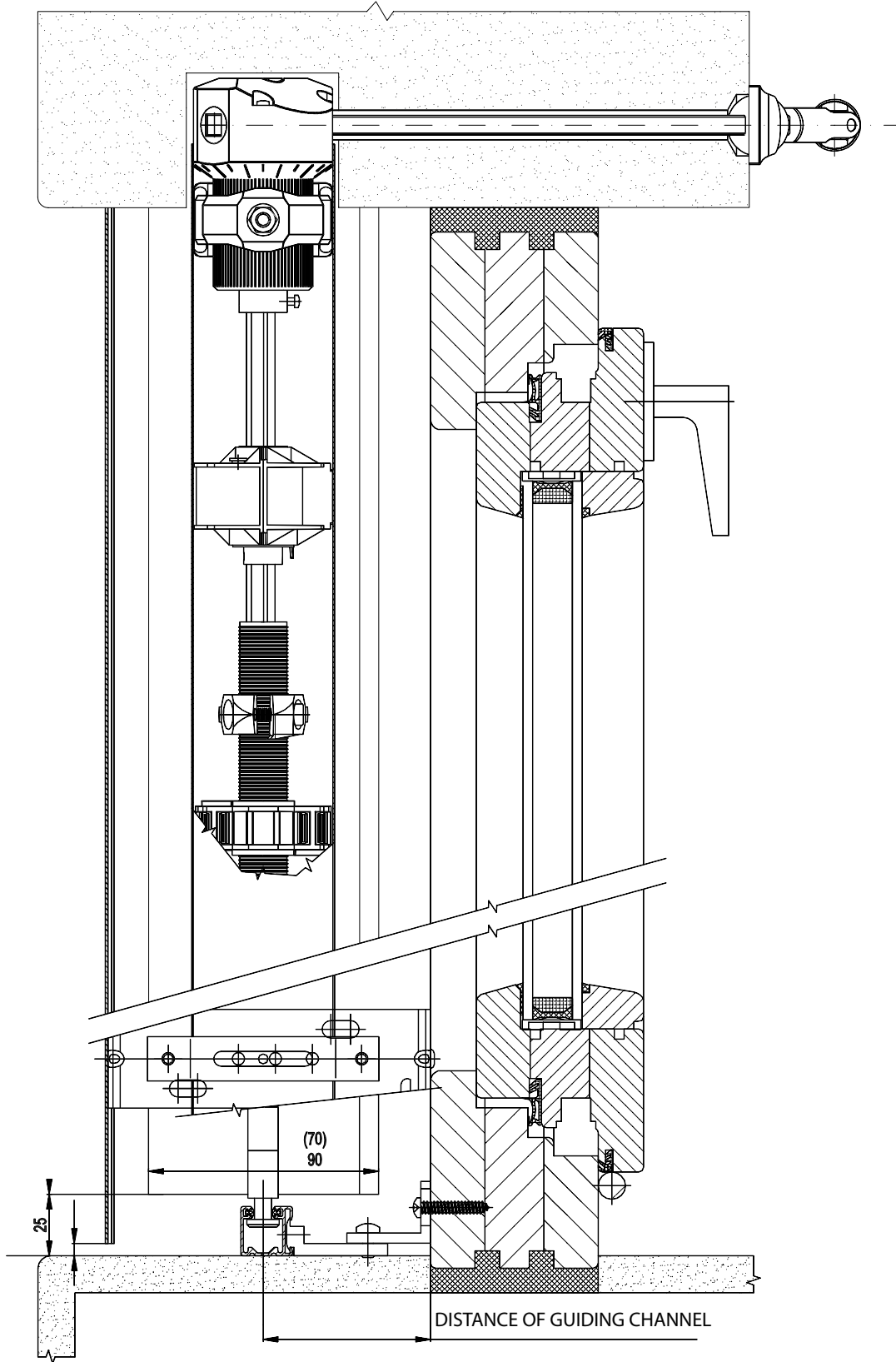
Slat guidance using steel wire



ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

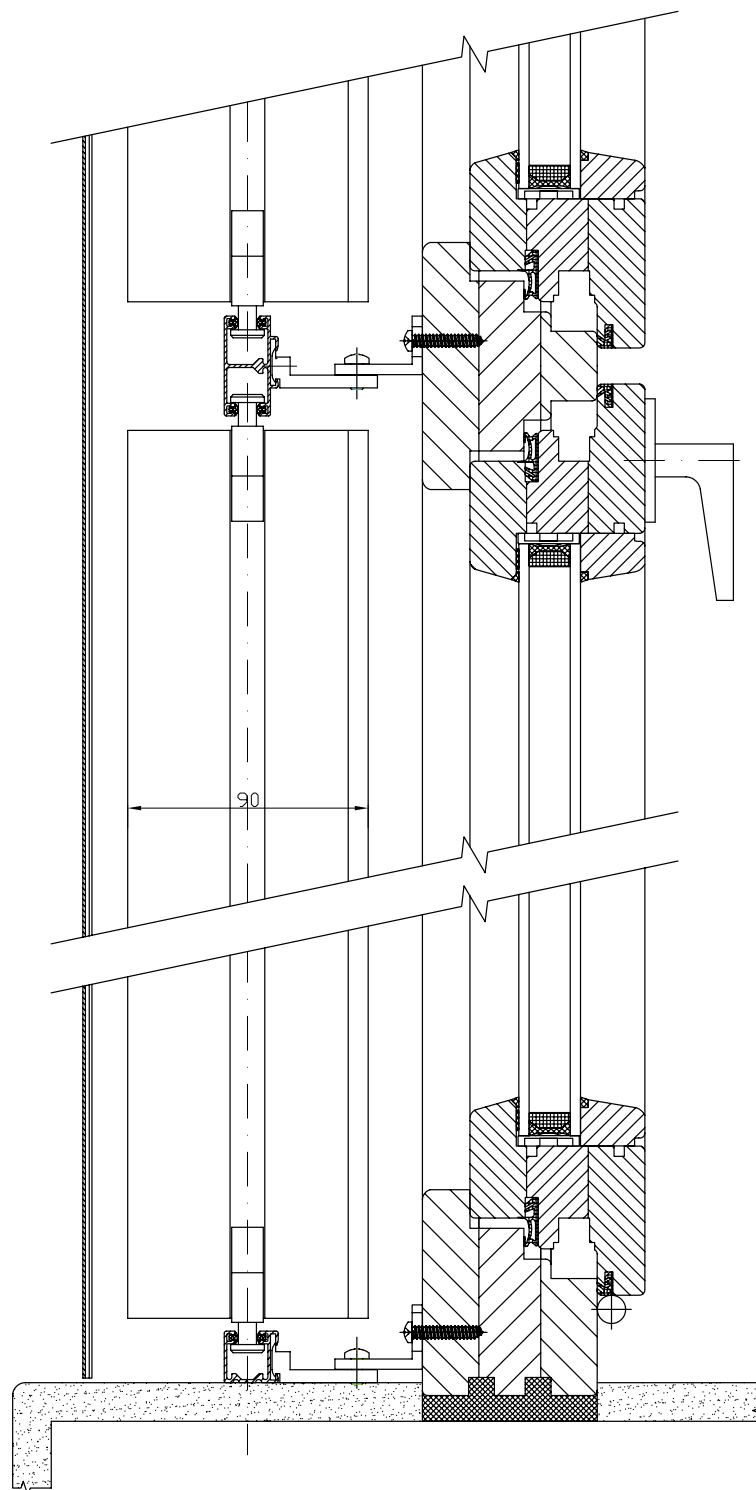


ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance in double guiding channel

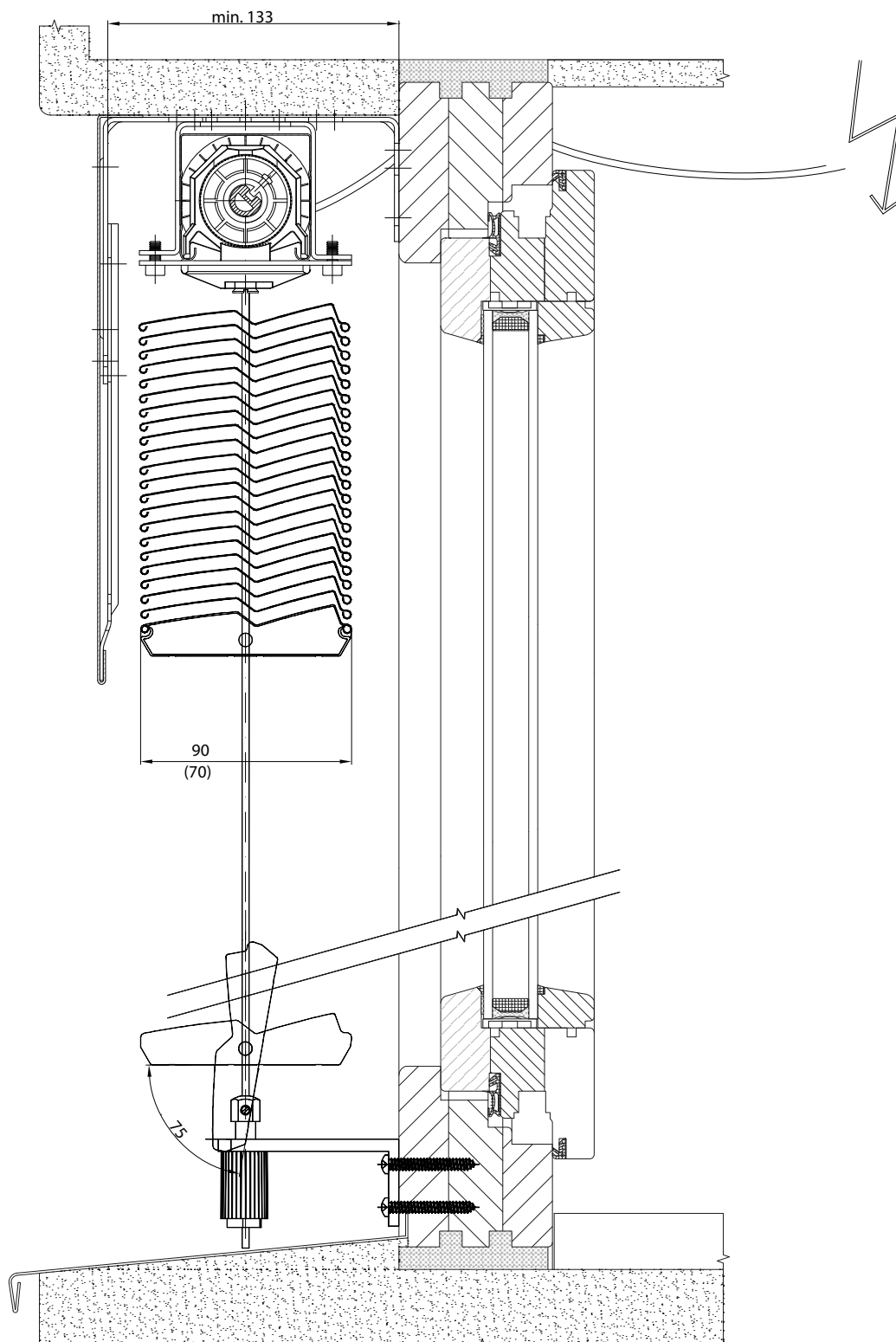


ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

VERTICAL SECTION

HANDLE CONTROL

Slat guidance using steel wire

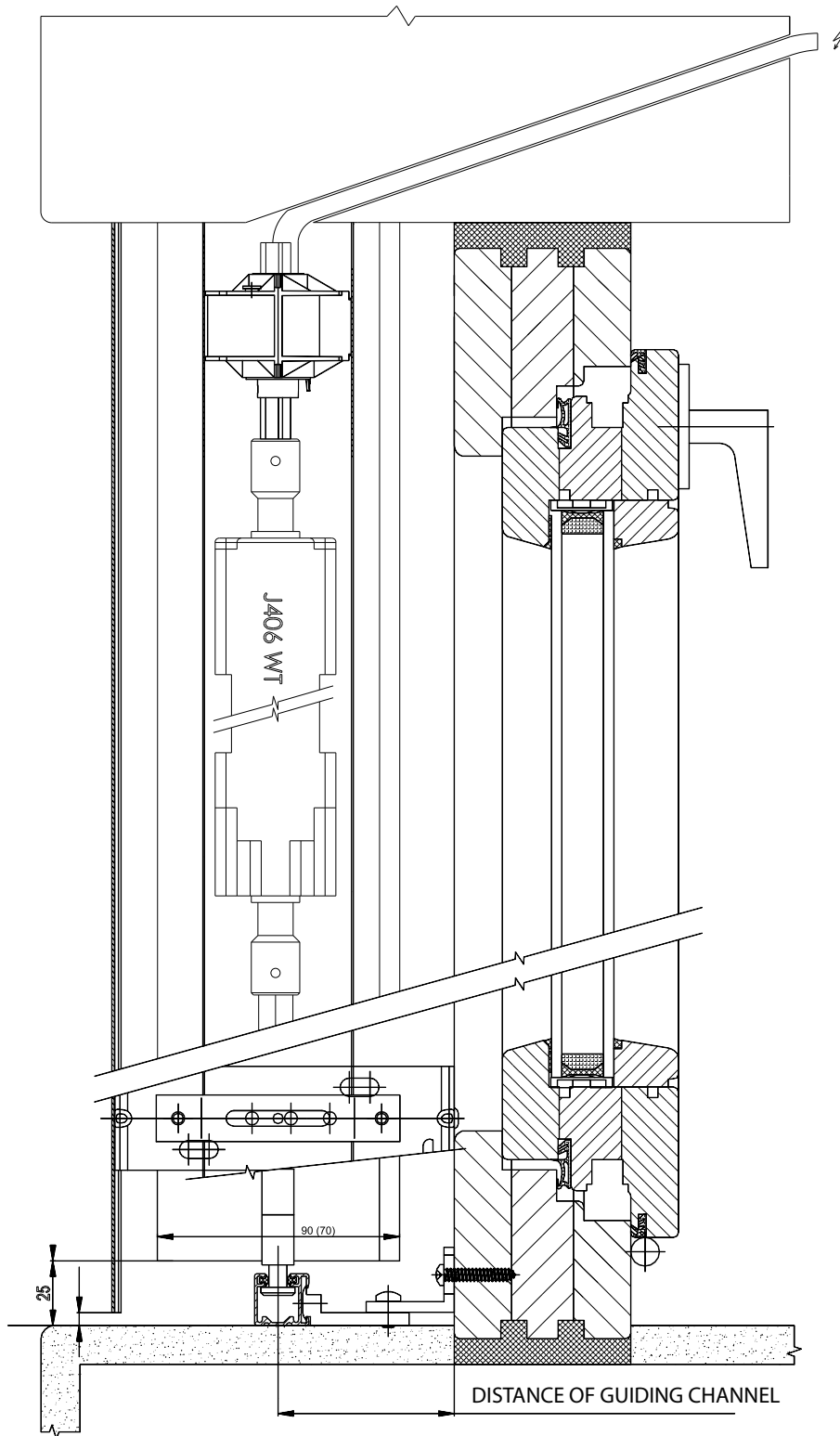


ZETTA 70, ZETTA 90 EXTERIOR BLIND DIAGRAM

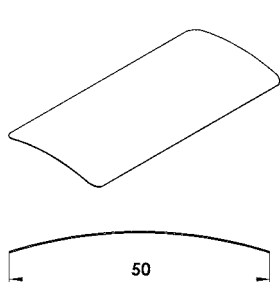
VERTICAL SECTION

HANDLE CONTROL

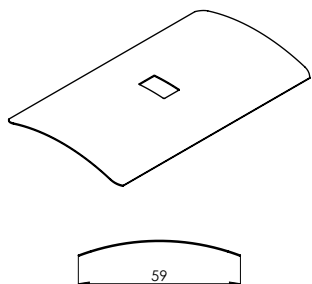
Slat guidance in guiding channel



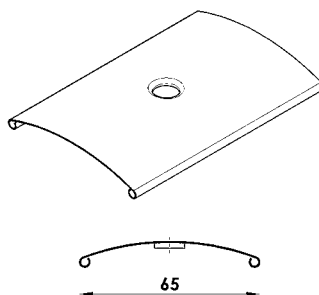
Shapes of exterior blind slats



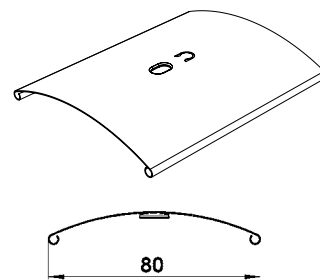
Cetta 50



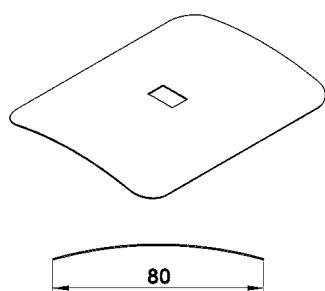
Cetta 60 Flexi



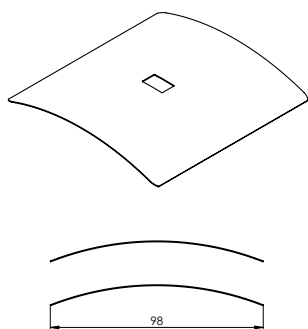
Cetta 65



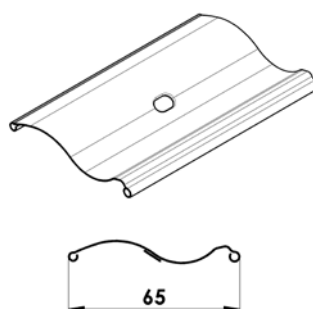
Cetta 80 + Cetta 80 Slim



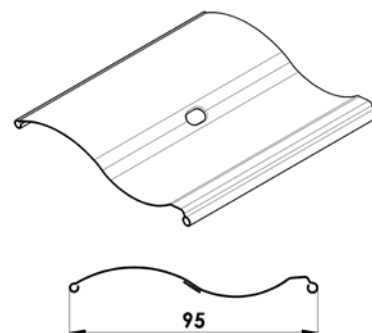
Cetta 80 Flexi



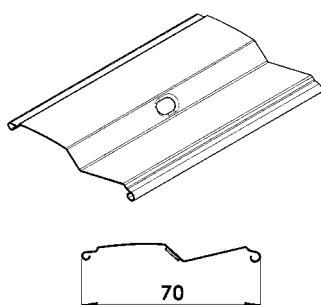
Cetta 100 Flexi



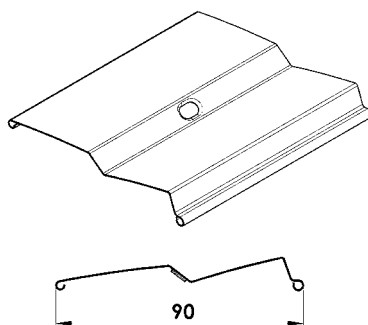
Setta 65



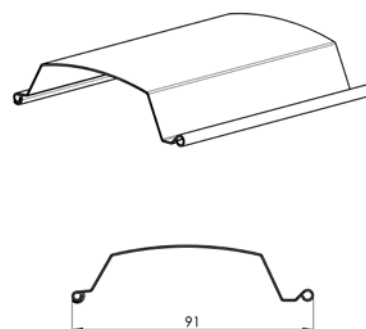
Setta 90



Zetta 70



Zetta 90



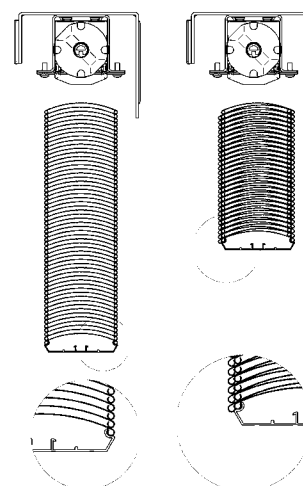
Titan 90

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

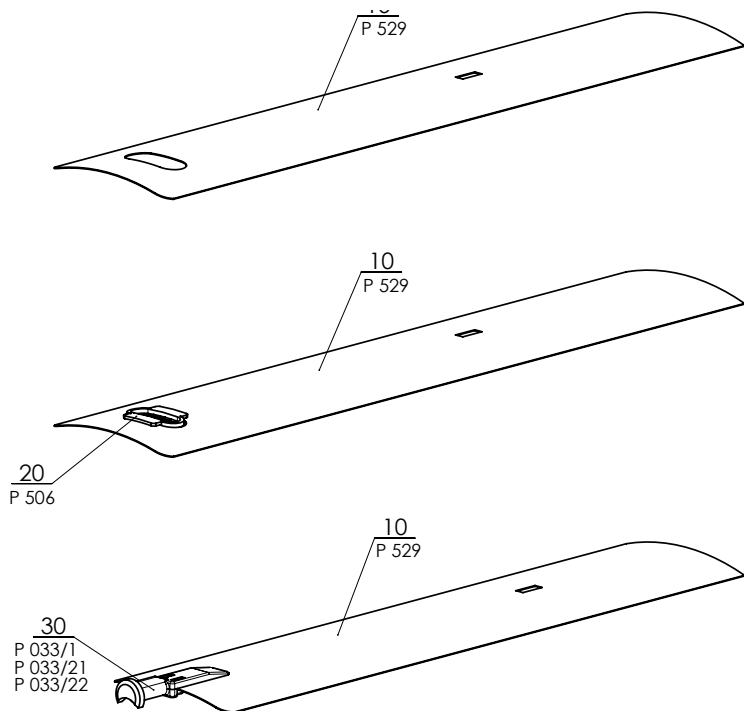
Blind height (mm)	Packet height	
	Cetta 80	Cetta 80-Slim
2300	250	225
2400	255	230
2500	265	235
2600	265	240
2700	275	250
2800	280	255
2900	290	260
3000	295	265
3100	300	270
3200	305	275
3300	315	280
3400	320	285
3500	325	290
3600	335	295
3700	340	300
3800	345	305
3900	350	310
4000	360	320

Cetta 80-Slim

Visible packet saving in comparison with Cetta 80.



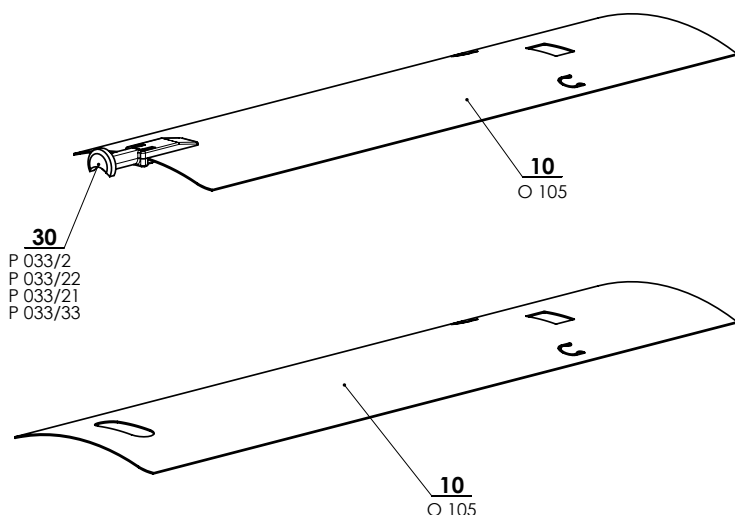
SLAT C50 - SET 2-01072-XXXX-0



Cetta 50

Position	Item name	Business name	Drawing number
10	Al Slat	P 529	2-01072-XXXX-0
20	Slat insert of guide cord	P 506	2-01072-XXXX-0
30	End guidance L+R (plastic)	P 033/1	2-01072-XXXX-0
30	End guidance left (metal)	P 033/21	2-01072-XXXX-0
30	End guidance right (metal)	P 033/22	2-01072-XXXX-0

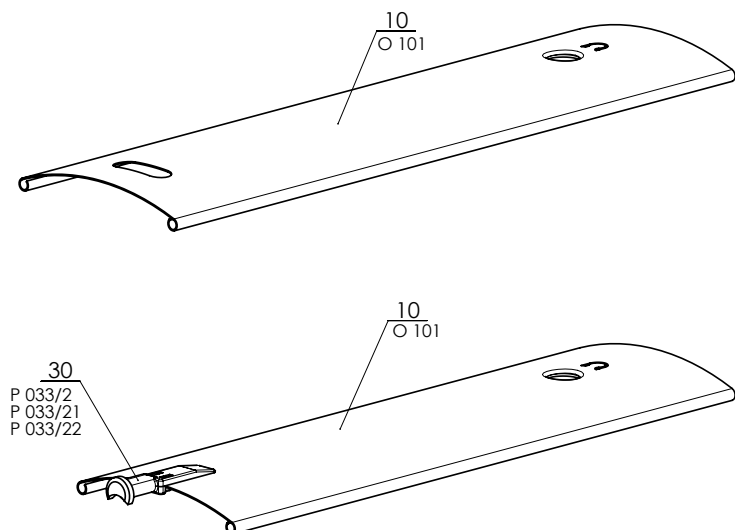
SLAT C60 FLEXI - SET 2-01501-XXXX



Cetta 60 Flexi

Position	Item name	Business name	Drawing number
10	Al Slat	O 105	2-01501-XXXX-0
30	End guidance L+R (plastic)	P 033/2	2-01501-XXXX-0
30	End guidance right (metal)	P 033/22	2-01501-XXXX-0
30	End guidance left (metal)	P 033/21	2-01501-XXXX-0
30	End guidance flat snapping (metal)	P 033/33	2-01501-XXXX-0

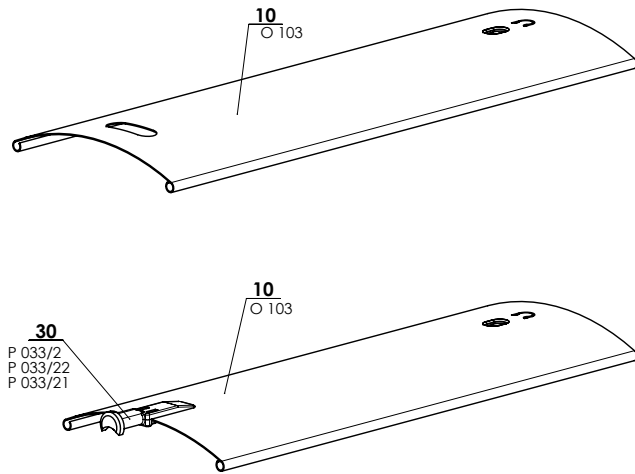
SLAT C65 - SET 2-01071-XXXX-0



Cetta 65

Position	Item name	Business name	Drawing number
10	Al Slat	O 101	2-01071-XXXX-0
30	End guidance L+R (plastic)	P 033/2	2-01071-XXXX-0
30	End guidance left (metal)	P 033/21	2-01071-XXXX-0
30	End guidance right (metal)	P 033/22	2-01071-XXXX-0

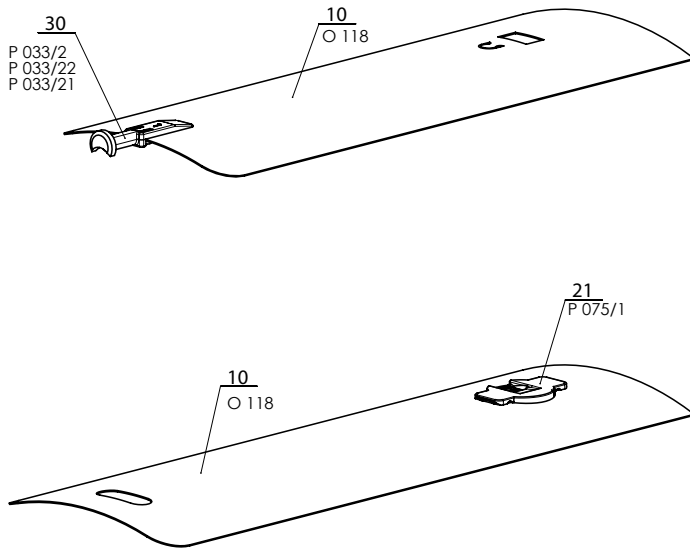
SLAT C80 - SET 2-01056-XXXX-1



Cetta 80

Position	Item name	Business name	Drawing number
10	Al Slat	O 103	2-01056-XXXX-1
21	Plastic insert Slim	P 075/1	2-01056-XXXX-1
30	End guidance for slat "C" L+R (plastic)	P 033/2	2-01056-XXXX-1
30	End guidance for slat "C" left (metal)	P 033/21	2-01056-XXXX-1
30	End guidance for slat "C" right (metal)	P 033/22	2-01056-XXXX-1

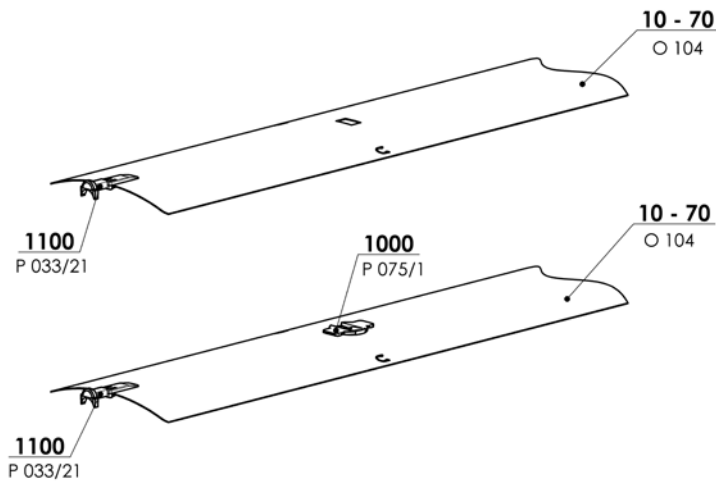
Slat C80 FLEXI - SET 2-01057-XXXX-1



Cetta 80 Flexi

Position	Item name	Business name	Drawing number
10	Al slat	O 118	2-01057-XXXX-1
21	Plastic insert Slim	P 075/1	2-01057-XXXX-1
30	End guidance for slat "C" L+R (plastic)	P 033/2	2-01057-XXXX-1
30	End guidance for slat "C" left (metal)	P 033/21	2-01057-XXXX-1
30	End guidance for slat "C" right (metal)	P 033/22	2-01057-XXXX-1

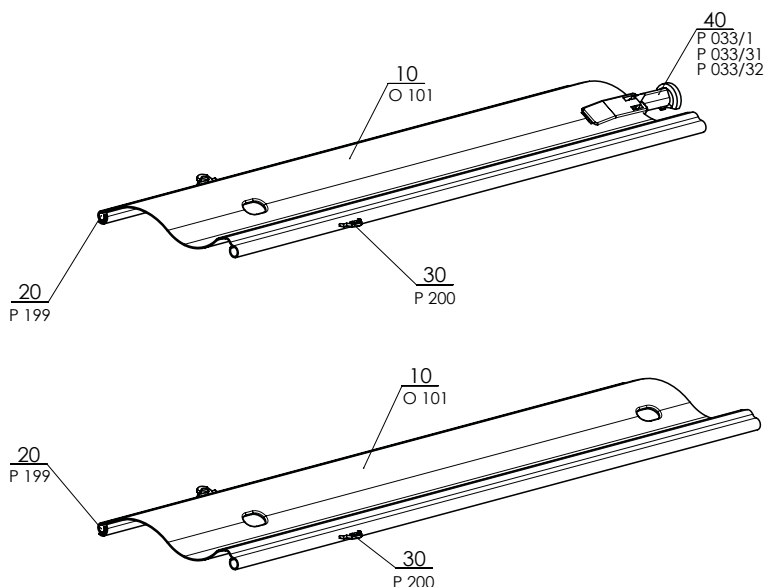
Slat C100 Flexi - SET 2-01502-XXXXX-1



Cetta 100 Flexi

Position	Item name	Business name	Drawing number
10 - 70	Al slat	O 104	2-01502-XXXXX-1
1000	Plastic insert	P 075/1	2-01502-XXXXX-1
1100	End guidance for slat "C" left	P 033/21	2-01502-XXXXX-1

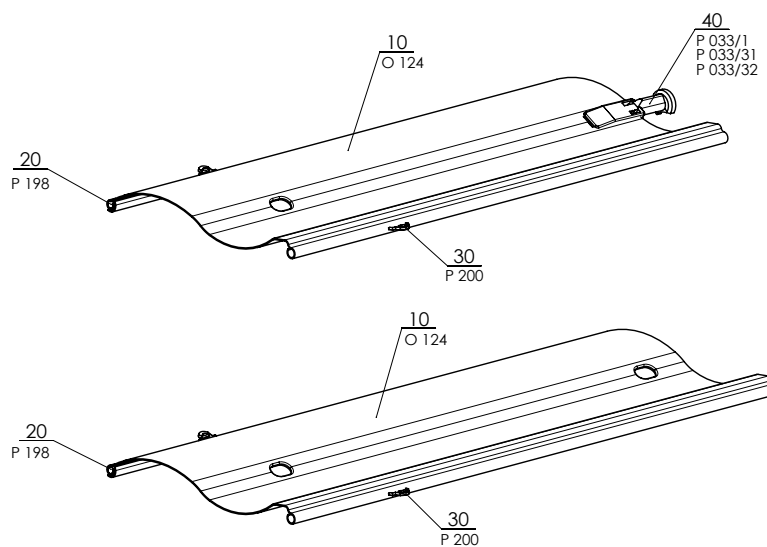
SLAT S65 - SET 2-00687-XXXX-B



Setta 65

Position	Item name	Business name	Drawing number
10	Al slat	O 101	2-00687-XXXX-B
20	Slat rubber	P 199	2-00687-XXXX-B
30	Connecting hook	P 200	2-00687-XXXX-B
40	End guidance for slat L+P (plastic)	P 033/1	2-00687-XXXX-B
40	End guidance for slat right (metal)	P 033/31	2-00687-XXXX-B
40	End guidance for slat left (metal)	P 033/32	2-00687-XXXX-B

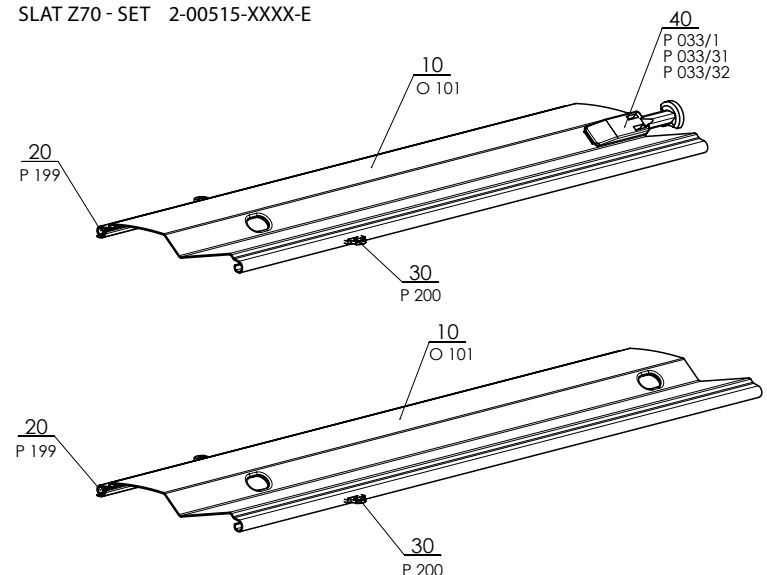
SLAT S90 - SET 2-00686-XXXX-B



Setta 90

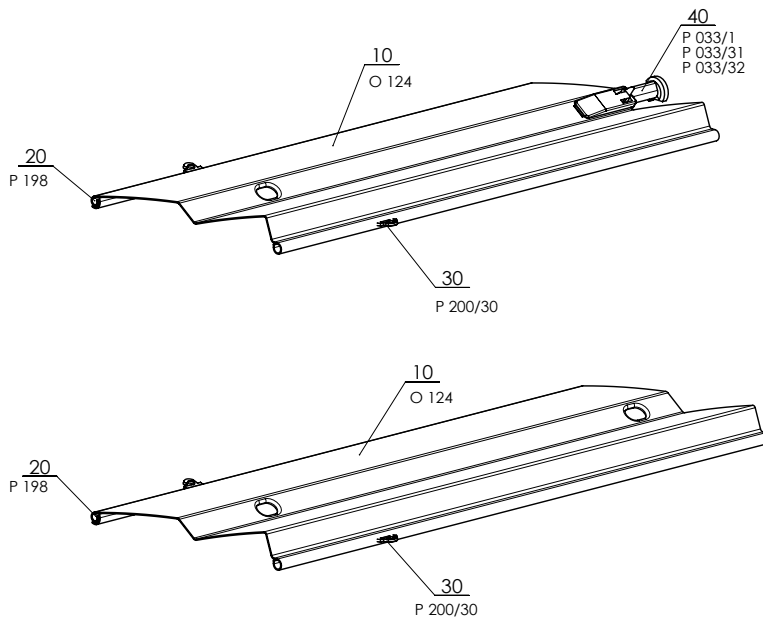
Position	Item name	Business name	Drawing number
10	Al slat	O 124	2-00686-XXXX-B
20	Slat rubber	P 198	2-00686-XXXX-B
30	Connecting hook	P 200	2-00686-XXXX-B
40	End guidance for slat L+P (plastic)	P 033/1	2-00686-XXXX-B
40	End guidance for slat right (metal)	P 033/31	2-00686-XXXX-B
40	End guidance for slat left (metal)	P 033/32	2-00686-XXXX-B

SLAT Z70 - SET 2-00515-XXXX-E



Zetta 70

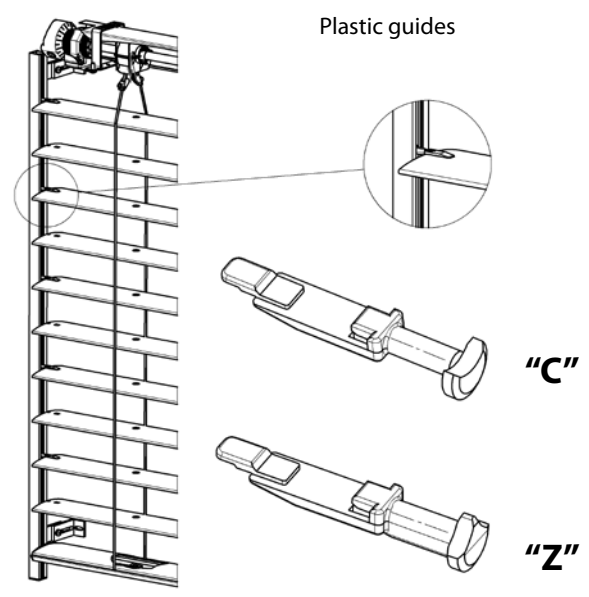
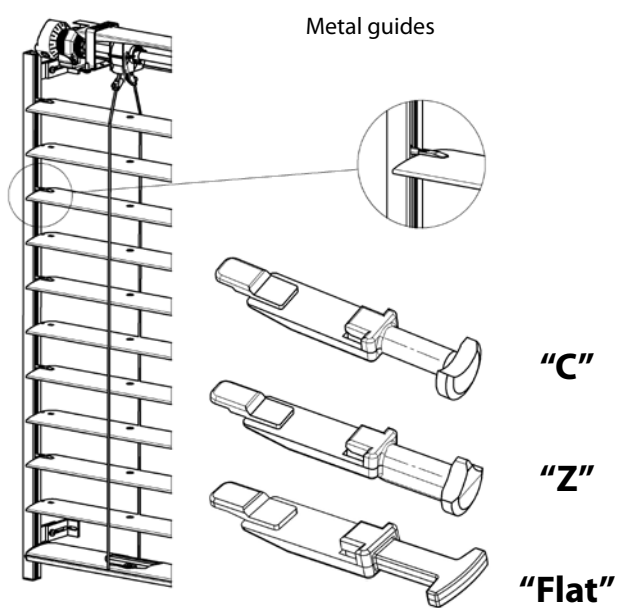
Position	Item name	Business name	Drawing number
10	Al slat	O 101	2-00515-XXXX-E
20	Slat rubber	P 199	2-00515-XXXX-E
30	Connecting hook	P 200	2-00515-XXXX-E
40	End guidance for slat L+P (plastic)	P 033/1	2-00515-XXXX-E
40	End guidance for slat right (metal)	P 033/31	2-00515-XXXX-E
40	End guidance for slat left (metal)	P 033/32	2-00515-XXXX-E



Zetta 90

Position	Item name	Business name	Drawing number
10	Al slat	O 124	2-00514-XXXX-C
20	Slat rubber	P 198	2-00514-XXXX-C
30	Connecting hook	P 200/30	2-00514-XXXX-C
40	End guidance for slat L+P (plastic)	P 033/1	2-00514-XXXX-C
40	End guidance for slat right (metal)	P 033/31	2-00514-XXXX-C
40	End guidance for slat left (metal)	P 033/32	2-00514-XXXX-C

Guide types for Venetian blinds with guidance using guiding channels



Control for Cetta, Setta, Zetta

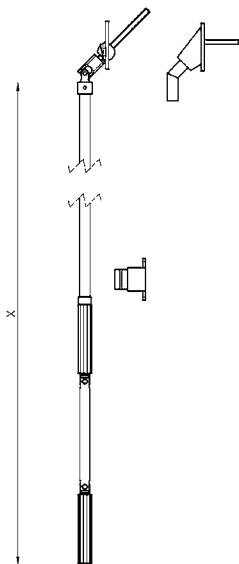
Handle (2-00339-0000)

The controls serve for pulling the blind up and down and setting the slat.

The rod control mechanism is to be passed to the interior at an angle of 45° and 90° using a bushing and a hexagonal or square rod.

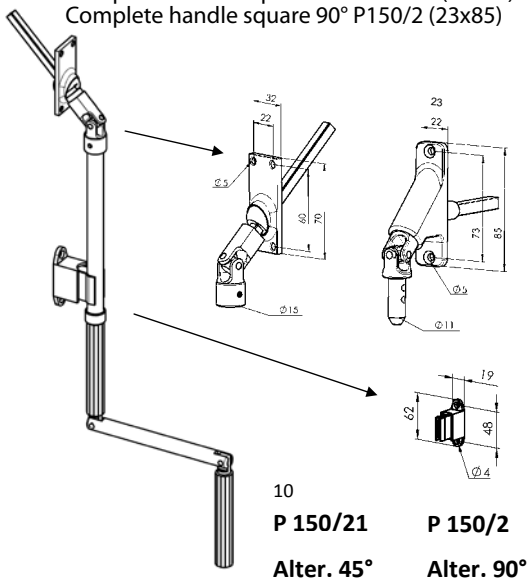
Rod colour versions: white; anodised

Handle length determination



Handle types

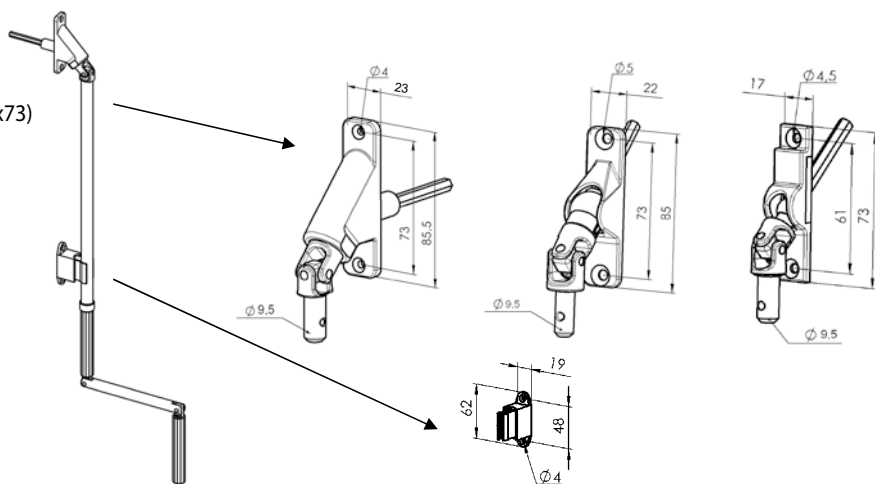
Complete handle square 45° P150/21 (32x70)
Complete handle square 90° P150/2 (23x85)



10
P 150/21
Alter. 45°

P 150/2
Alter. 90°

Complete handle hexagonal 90° P150/1 (23x85)
Complete handle hexagonal 45° P150/11 (22x85)
Complete handle hexagonal 45° small P150/12 (17x73)

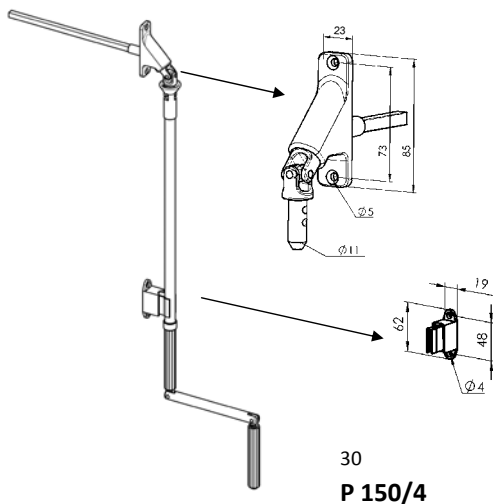


20
P 150/1
Alter. 90°

P 150/11
Alter. 45°

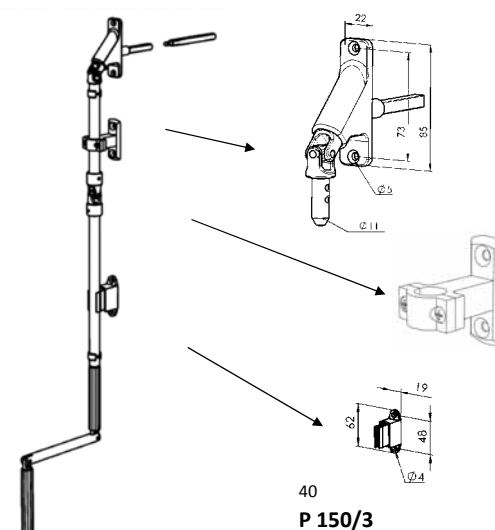
P 150/12
Alter. 45°

Complete handle removable square 90° P150/4 (27x85)



30
P 150/4

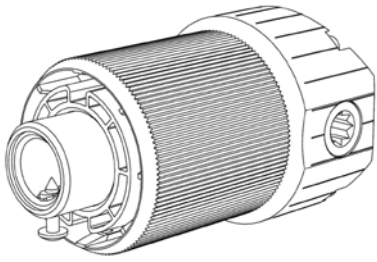
Complete handle with cardan square 90° P150/3 (23x85)



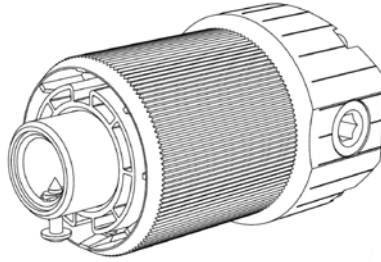
40
P 150/3

Gearing Type

Gearing with square aperture
045/5 (6-013232)



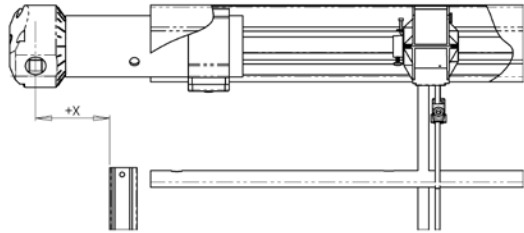
Gearing with hexagonal aperture
P 045/6 (6-013233)



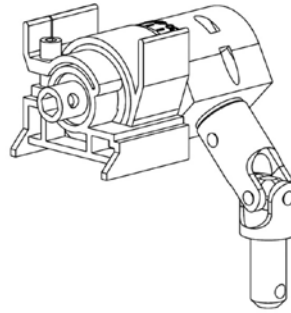
Gearing
P 045/9 (6-010260)



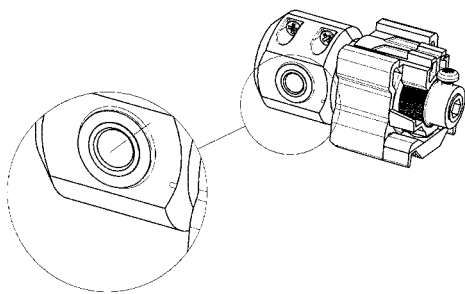
Gearing with hexagonal aperture, extended (STS)
P045/4 (6-008115)



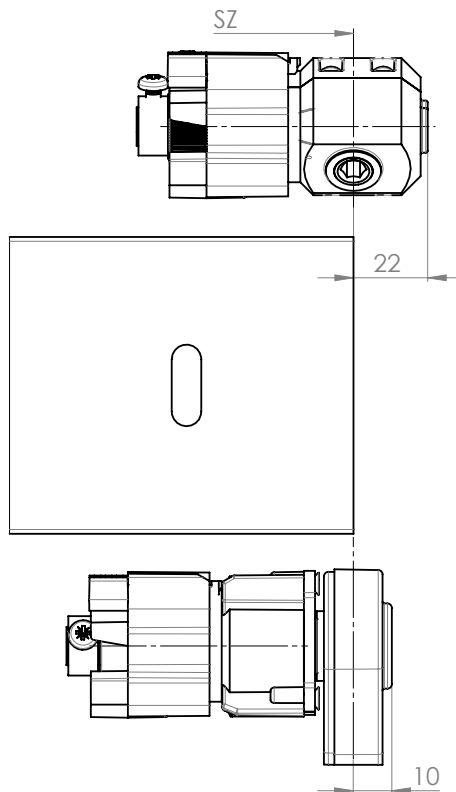
Plastic gearing with hexagonal aperture - interior
(Cetta 35, Cetta 50)
P 517/2 (6-001250-0002)



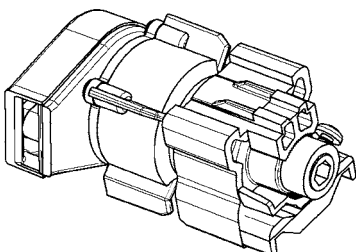
Gearing with hexagonal aperture for handle control
(Cetta 35, Cetta 50)
P228 (2-00132)



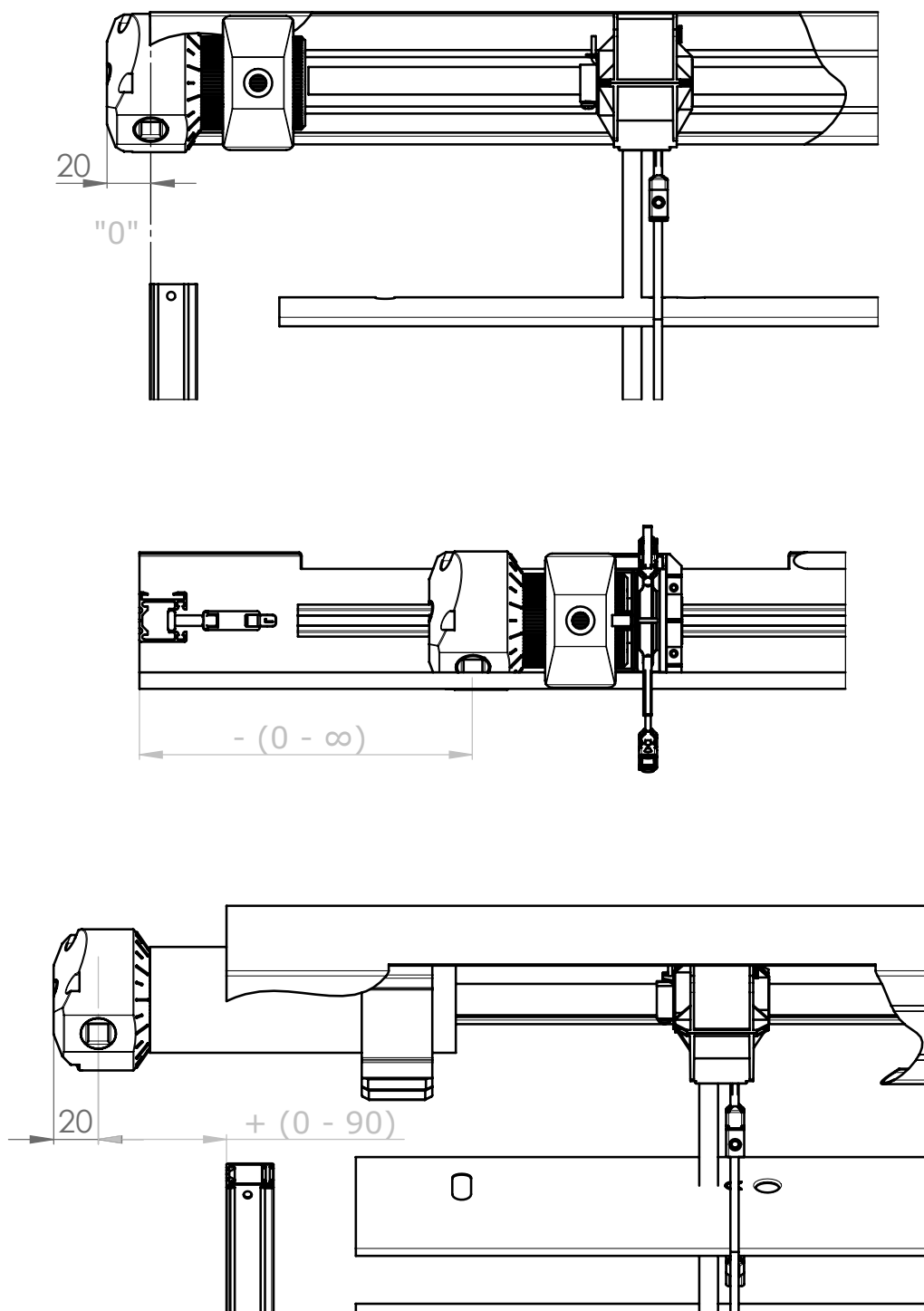
Gearing extension



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 control

Motor controls serve for pulling the blind up and down and setting the slat.

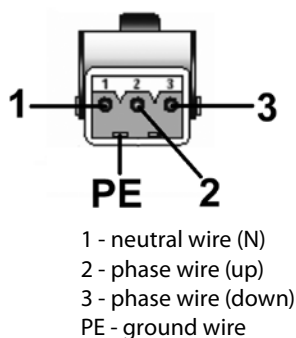
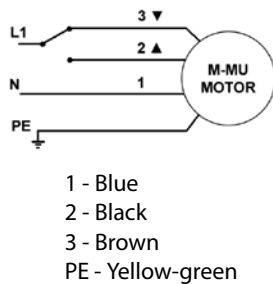
Motor controls allow selecting the control by the sun/wind sensor, remote control, or switch. It is possible to control several blinds at once depending on their dimensions. In this case, the motor is located in one blind in the group.

Types of motors

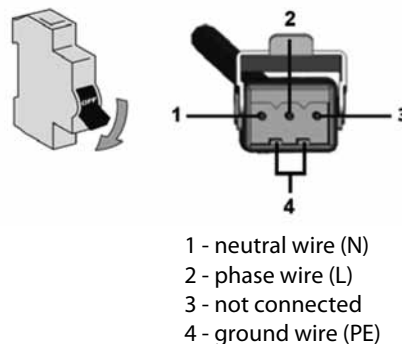
Item name	Business name	Drawing number	Cable length
Motor J406 6/24 WT (6Nm)	P 073/6J	6-002594-0000	0,5
Motor J410 10/24 WT (10Nm)	P 073/10J	6-002594-0001	0,5
Motor J410 10/24 WT (10Nm)-PROTECT	P 073/10JP	6-002594-0010P	0,5
Motor J418 18/24 WT (18Nm)	P 073/18J	6-002594-0004	0,5
Motor J406 RTS 6/24 WT (6Nm)	P 642/06	6-002593-0006	0,5
Motor J410 RTS 10/24 WT (10 Nm)	P 642/10	6-002593-0010	0,5
Motor IO PROTECT (6 Nm)	P 643/676	6-016065-0676	0,5
Motor IO PROTECT (10Nm)	P 643/677	6-016065-0677	0,5
Motor IO PROTECT (18Nm)	P 643/681	6-016065-0681	0,5
Motor GJ5603 - 3Nm + buckle	P 093/1	6-006880-0000	0,9
Motor GJ5606 - 6Nm + buckle	P 093/2	6-006880-0001	0,9
Motor GJ5610 - 10Nm + buckle	P 093/3	6-006880-0002	0,9
Motor GJ5620 - 20Nm + buckle	P 093/6	6-006880-0006	0,9
Motor cable Geiger; l= 900mm	P 094	6-006880-0003	1,9
Motor ELERO JA 04 SFOT DC, 4Nm	P 096softDC/04	6-015554-0000	0,9
Motor GJ5606k F03 AIR - 6Nm + buckle	PR0879/6	6-014807-0006	0,9
Motor GJ5610 F03 AIR - 10Nm + buckle	PR0879/10	6-014807-0010	0,9
Motor GJ5620 F03 AIR - 20Nm + buckle	PR0879/20	6-014807-0020	0,9
Motor cable Geiger AIR with LOXON chip	P094/2	6-014819-0000	1,9

Motor control

Motor Wiring Diagram



RTS Motor Wiring Diagram



Parameter	Motor Somfy	Motor Geiger
Torque	6 - 18 Nm	3 - 20 Nm
Power Input	90 - 210 W	90 - 190 W
Current Consumption	0,41 - 0,7 A	0,4 - 0,85 A
Nominal Voltage	230 V / 50 Hz	230 V / 50 Hz
RPM	24 rpm	26 rpm
End Switch Capacity	73	80
Motor Protection Class	IP54	IP54
Maximum Operation Time	approx. 6 min.	approx. 6 min.
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)

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.

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.

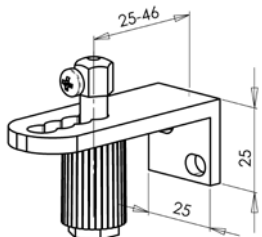
Recommended Torque for Motor Controlled Blinds (Nm)

Blind height (mm) \ Blind Width (mm)	Blind Width (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

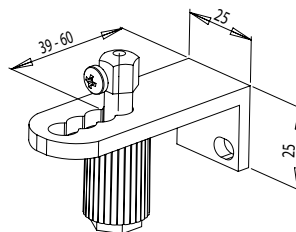
Guidance – Wire

Guide types for wire-guided blinds
(Cetta 35, Cetta 50, Cetta 65, Cetta 80, Cetta 80-Flexi)

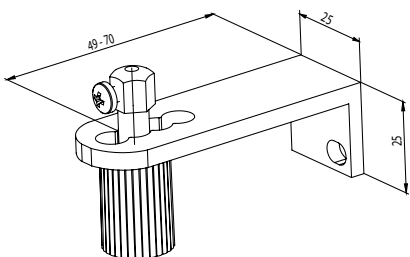
Corner wire guide, 25 - 46 mm P031/6 (2-00822)



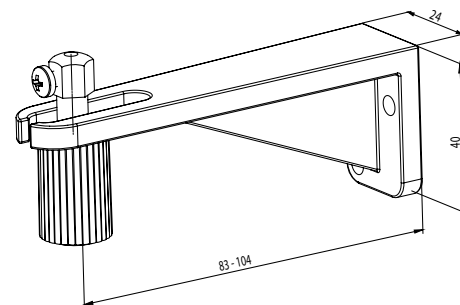
Corner wire guide, 39 - 60 mm P 031 (2-00195)



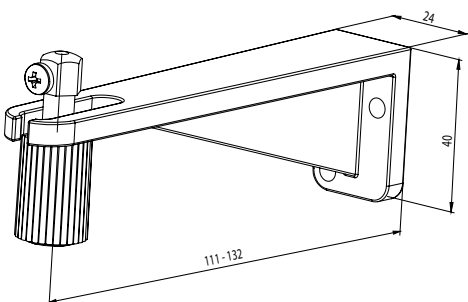
Corner wire guide, 49 - 70 mm P 031/1 (2-00137)



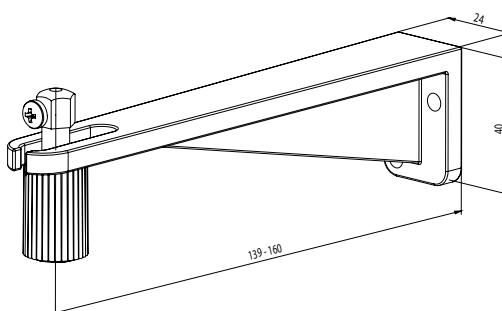
Corner wire guide, 83 - 104 mm 031/2 (2-00136)



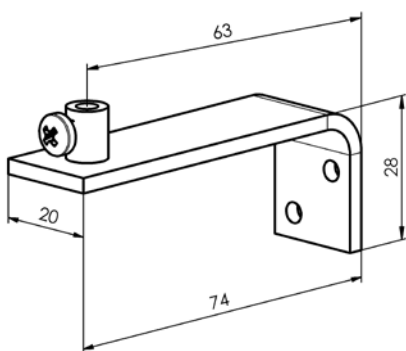
Corner wire guide, 111 - 132 mm P 031/3 (2-00559)



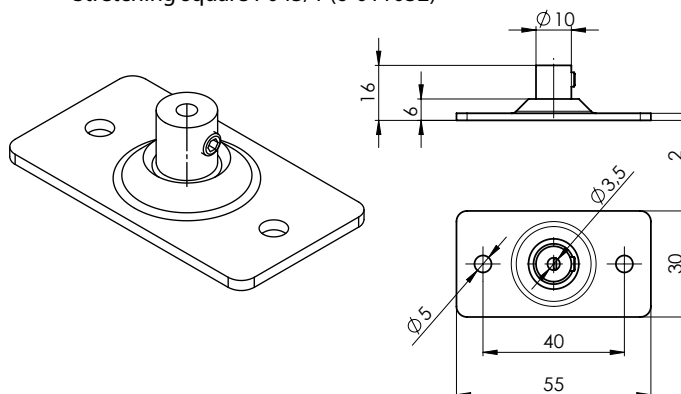
Corner wire guide, 139 - 160 mm P 031/4 (2-00560)



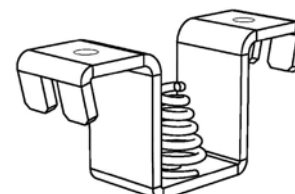
Corner wire guide, P 031/5 (6-009346)



Stretching square P043/1 (6-011032)



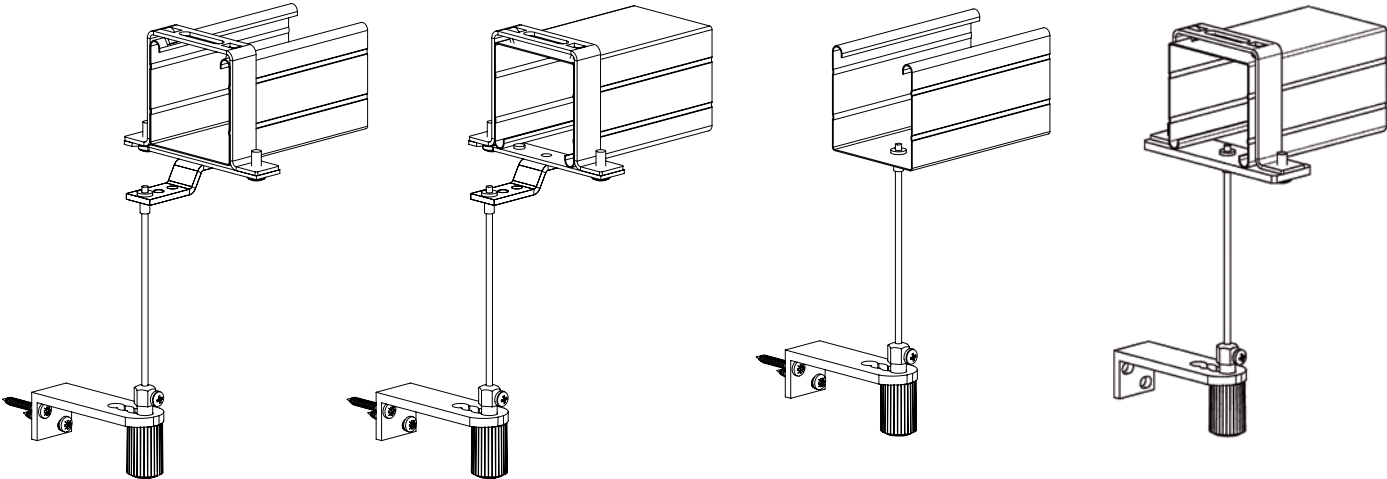
Bracket for wire AF 81 P 044 (6-011063)



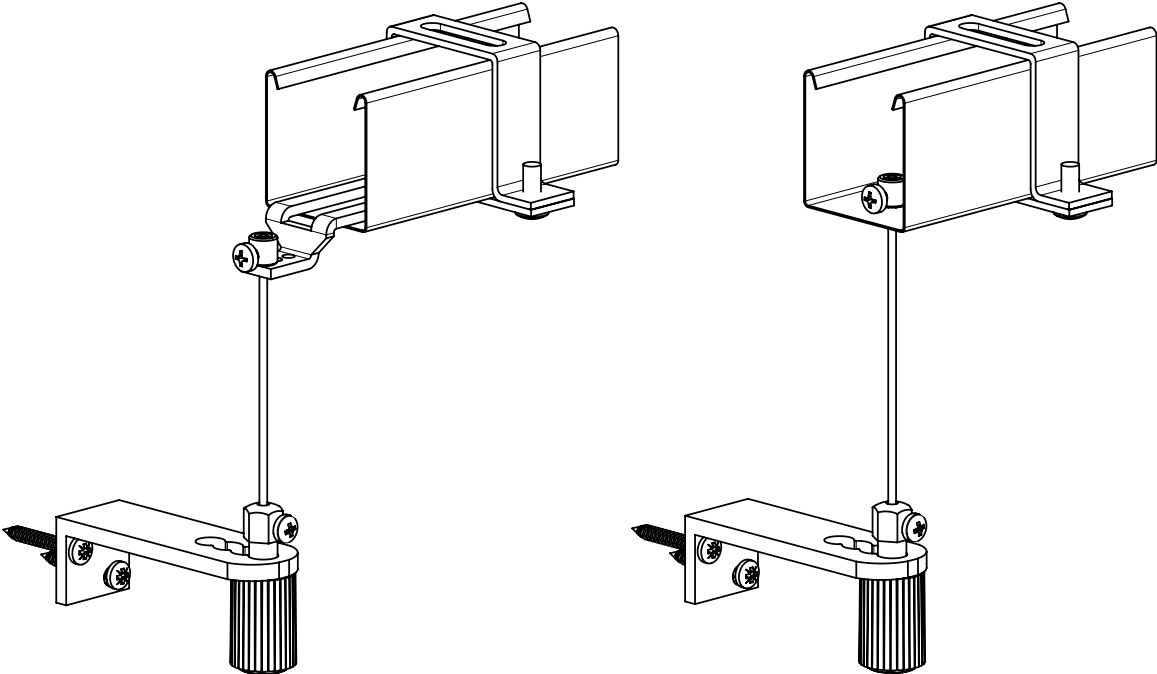
Type of wire guide	Distance between wire and window frame (mm)
Corner wire guide, 25 - 46 mm P 031/6	25-46
Corner wire guide, 39 - 60 mm P 031	39 - 60
Corner wire guide, 49 - 70 mm P 031/1	49 - 70
Corner wire guide, 83 - 104 mm P 031/2	83 - 104
Corner wire guide, 111 - 132 mm P 031/3	111 - 132
Corner wire guide, 139 - 160 mm P 031/4	139 - 160
Corner wire guide, P 031/5	63

Wire guide - attachment methods

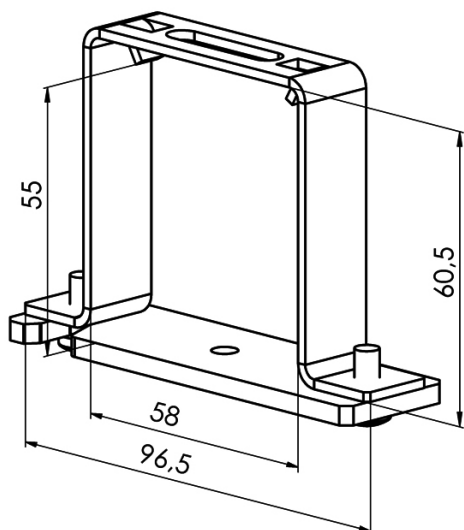
Channel 56 x 58



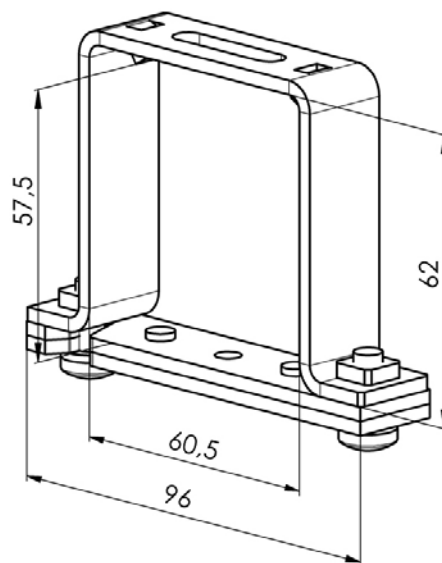
Channel 40x40



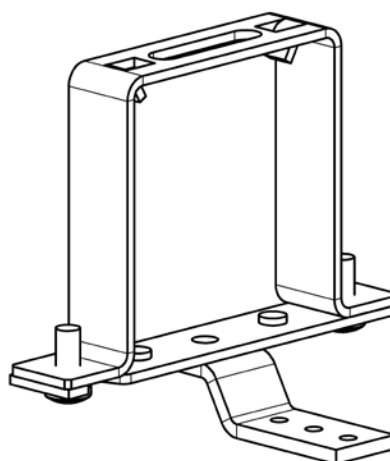
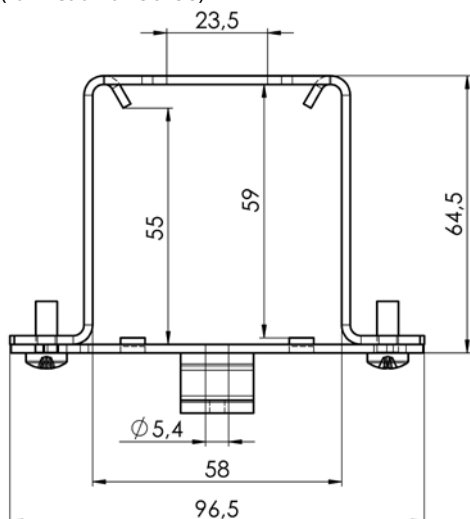
Wireholder Fe P002/7 (2-01128)
(for head rail 56x58)



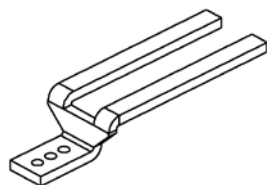
Wireholder Al P002/8 (2-01294)
(for head rail 58x60)



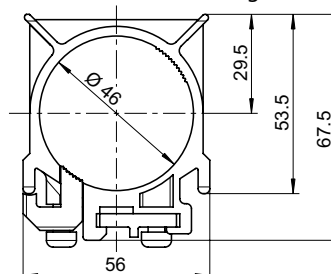
Head rail section hanger Fe for cord guide (2-00685)
(for Head Rail 56x58)



Guide P534/1 (7-301796)
for negative (-) axis (-10 ≥ -32)



GEIGER plastic gear holder with cord binding (6-017250)

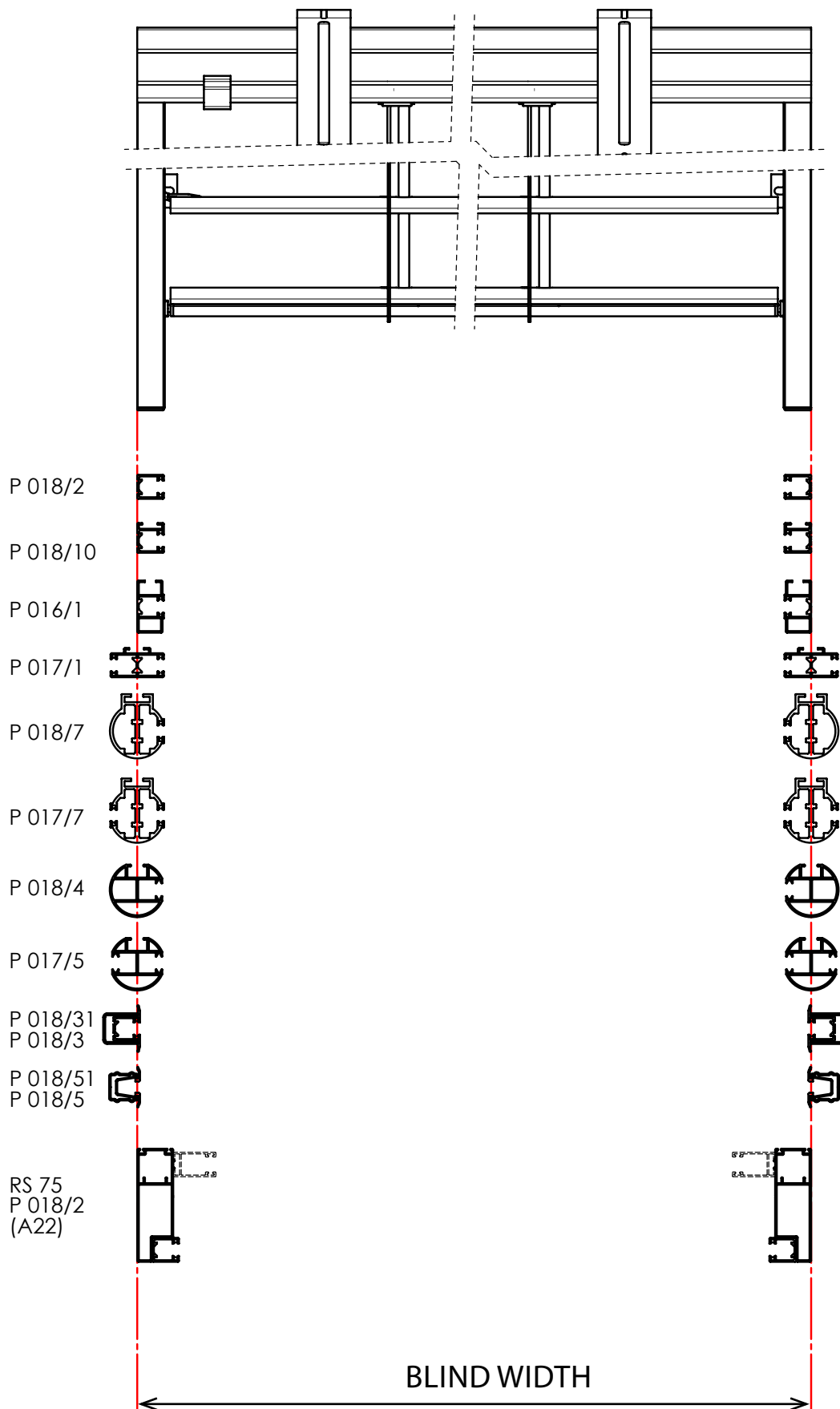


Clamping screw P507 (6-001229)
for wire P 501 (2,2 mm) (C50)

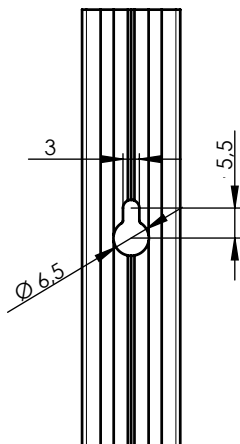
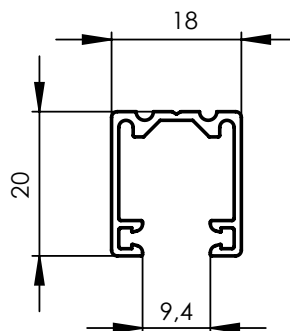


Guidance - Guiding Channel

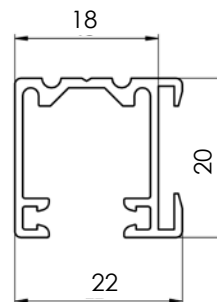
Guiding channels applies to: Cetta 50, Cetta 60 Flexi, Cetta 65, Cetta 80, Cetta 80-Flexi, Cetta 80-Slim, Zetta 70, Zetta 90, Setta 65, Setta 90



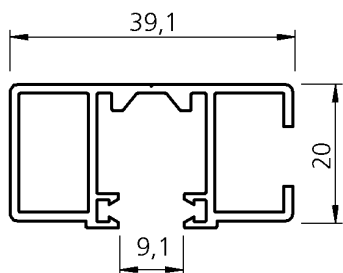
Single Guiding Channel P 018/2 (7-302122)
for installation in lining (without use of ejector)



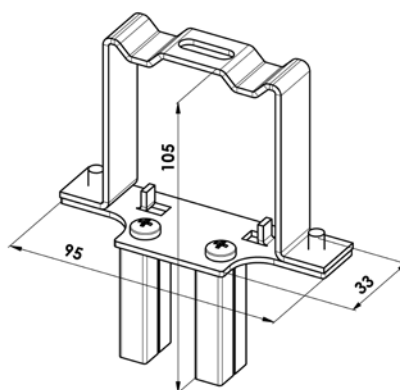
Single Guiding Channel P 018/10 (7-302363)
For installation on the frame using a guide rail holder.



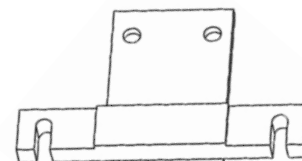
Self-Supporting Guiding Channel P 016/1 (7-302121)



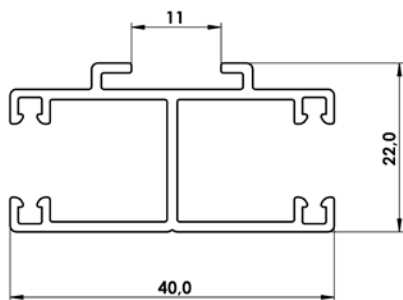
Head rail section hanger with holder P 002/4 vodící lišty P 016/1



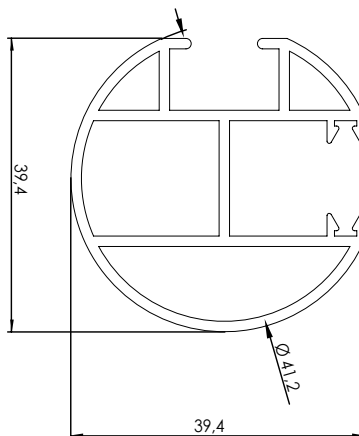
Shutter P 002/41 (2-00588) for guide channel P 016/1



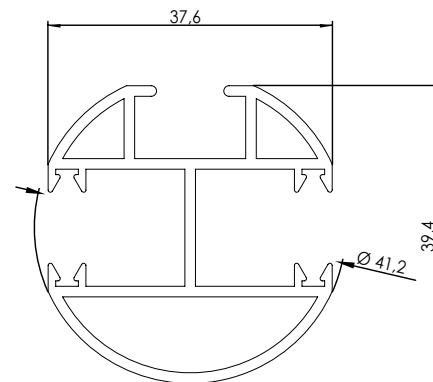
Double Guiding Channel P 017/1 (7-302123)
for installation on frame and facade (with use of ejector)



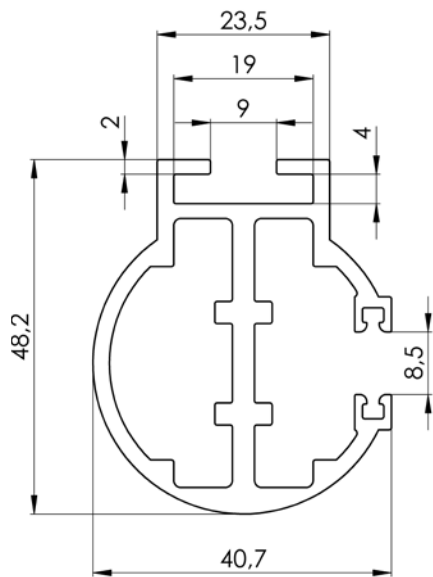
Single-Sided Round Channel P 018/4 (6-010533)



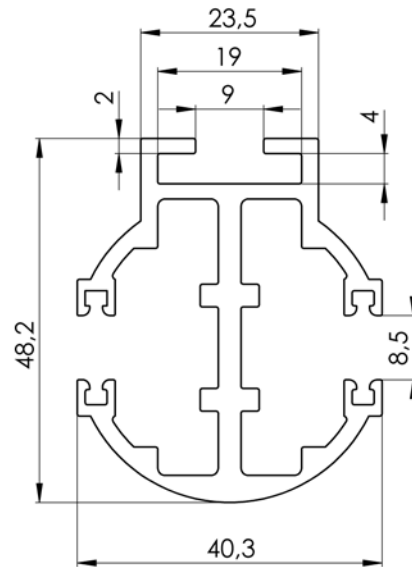
Double-Sided Round Guiding Channel P 017/5 (6-010532)



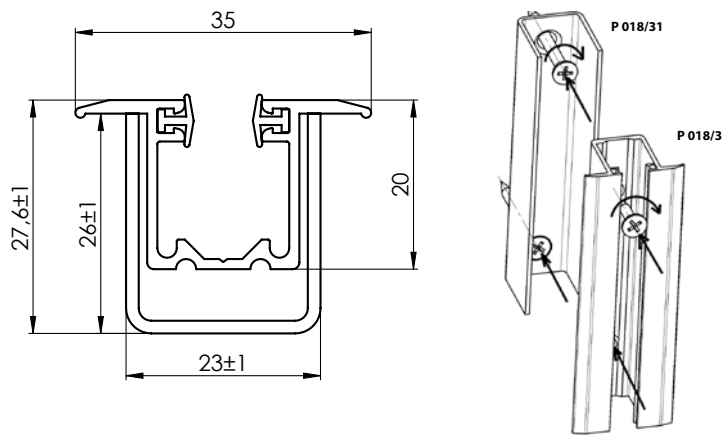
Single-Sided Round Channel P 018/7 (7-302154)



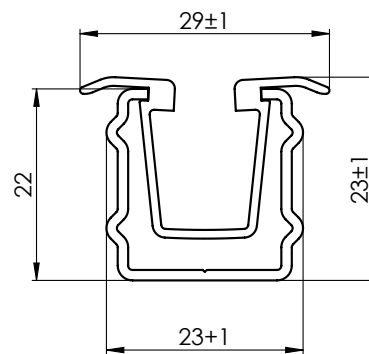
Double-Sided Round Guiding Channel P 017/7 (7-302155)



Guiding Channel under Plastering P 018/3X (7-302234-PU52) with insert P 018/31 (3-01419-0000)



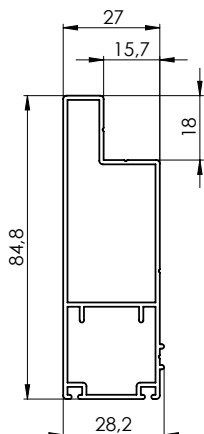
Guiding Channel under Plastering P 018/51 (7-301781, Al) with insert P 018/5 (7-301782, PVC)



Guiding channel under plastering is cut in 2 parts (300 mm from the top edge of the guiding channel) and is joined by the side guide channel insertion (kedr) due to its fitting on the blind pin and the correct guiding into the guide rail housing. The side guide channel insertion (kedr) is the entire height of the guide rail.

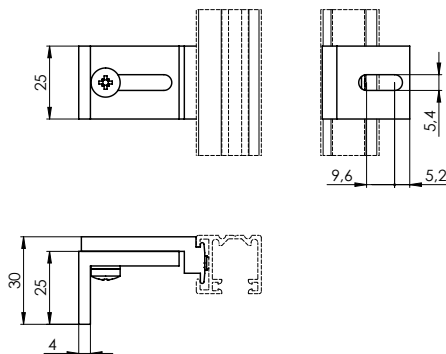
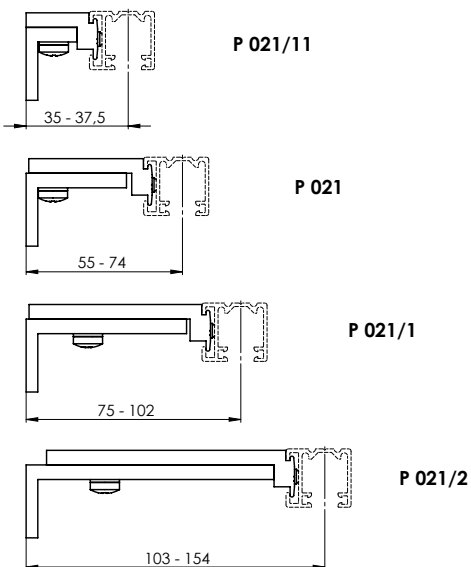
Guiding channel - divided - RS 75 (6-011267)

for installation on frame and in lining
(without use of ejector)

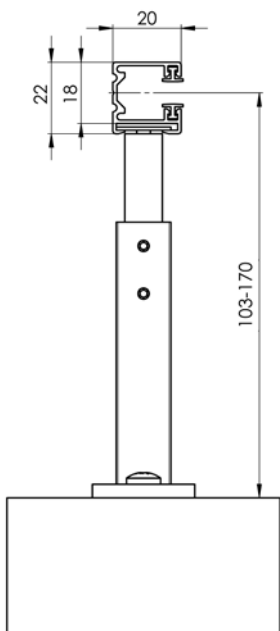


Guiding Channel Holders

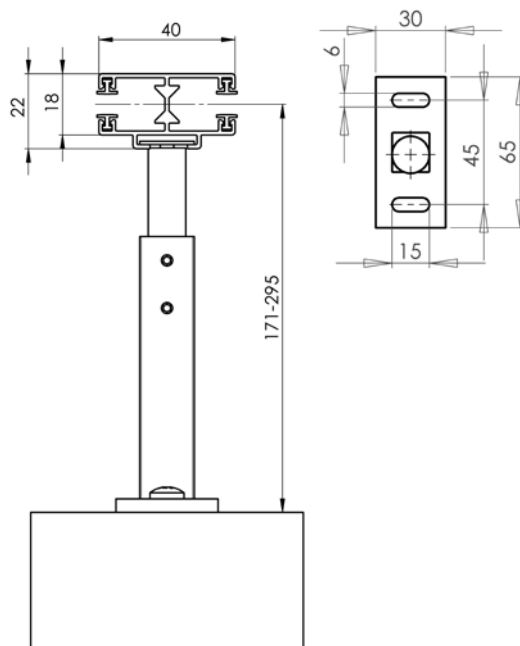
For guiding channel P 017/1, P 018/10



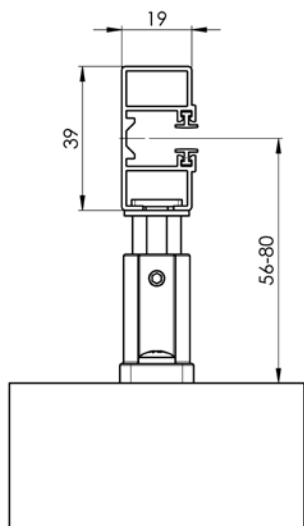
Telescopic guiding channel holder , P021/3 (2-00401)
for guiding channel P 017/1, P 017/5, P 018/10, P 018/4



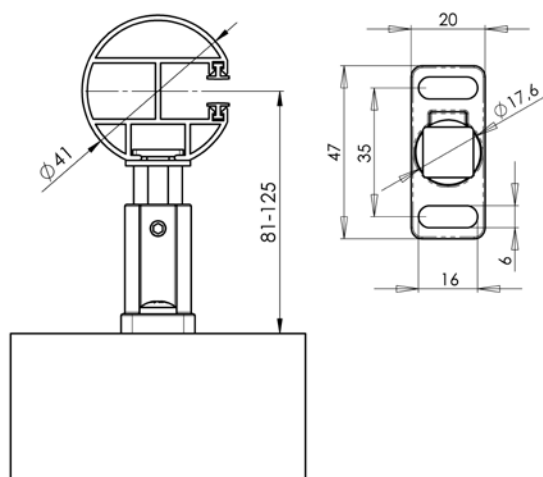
Telescopic guiding channel holder, P021/4 (2-00402)
for guiding channel P 017/1, P 017/5, P 018/10, P 018/4



Telescopic guiding channel holder STS, P021/5 (2-00582)
for guiding channel P 016/1, P 017/1, P 017/5, P 018/10, P 018/4

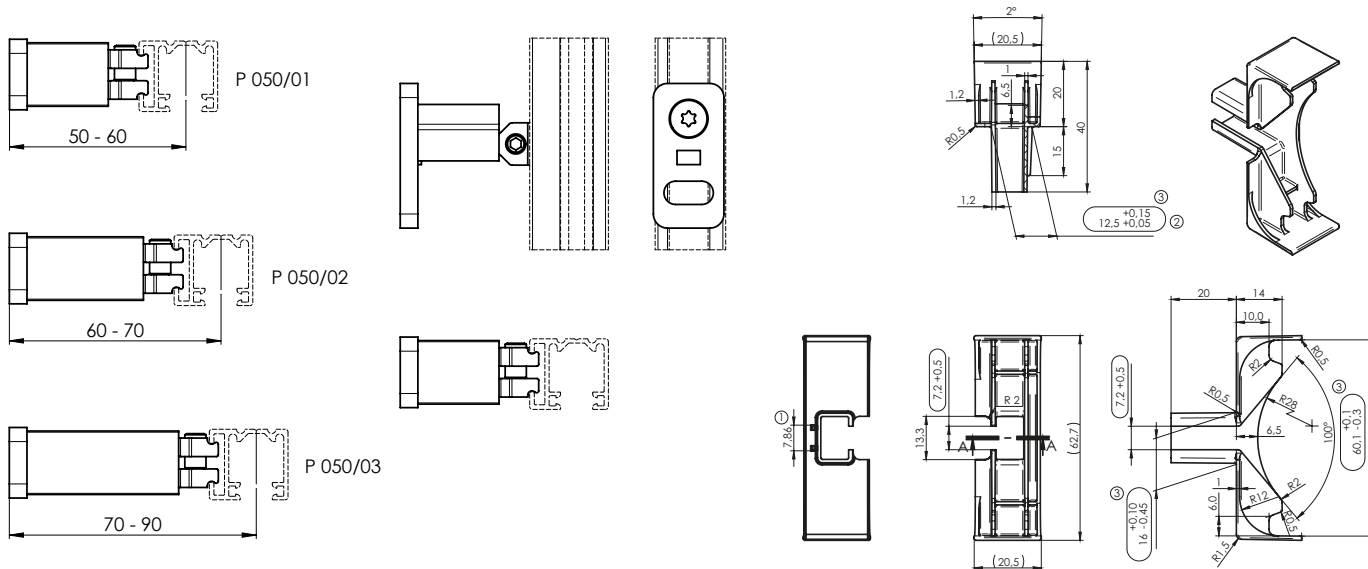


Telescopic guiding channel holder STS, P021/6 (2-00583)
for guiding channel P 016/1, P 017/1, P 017/5, P 018/10, P 018/4

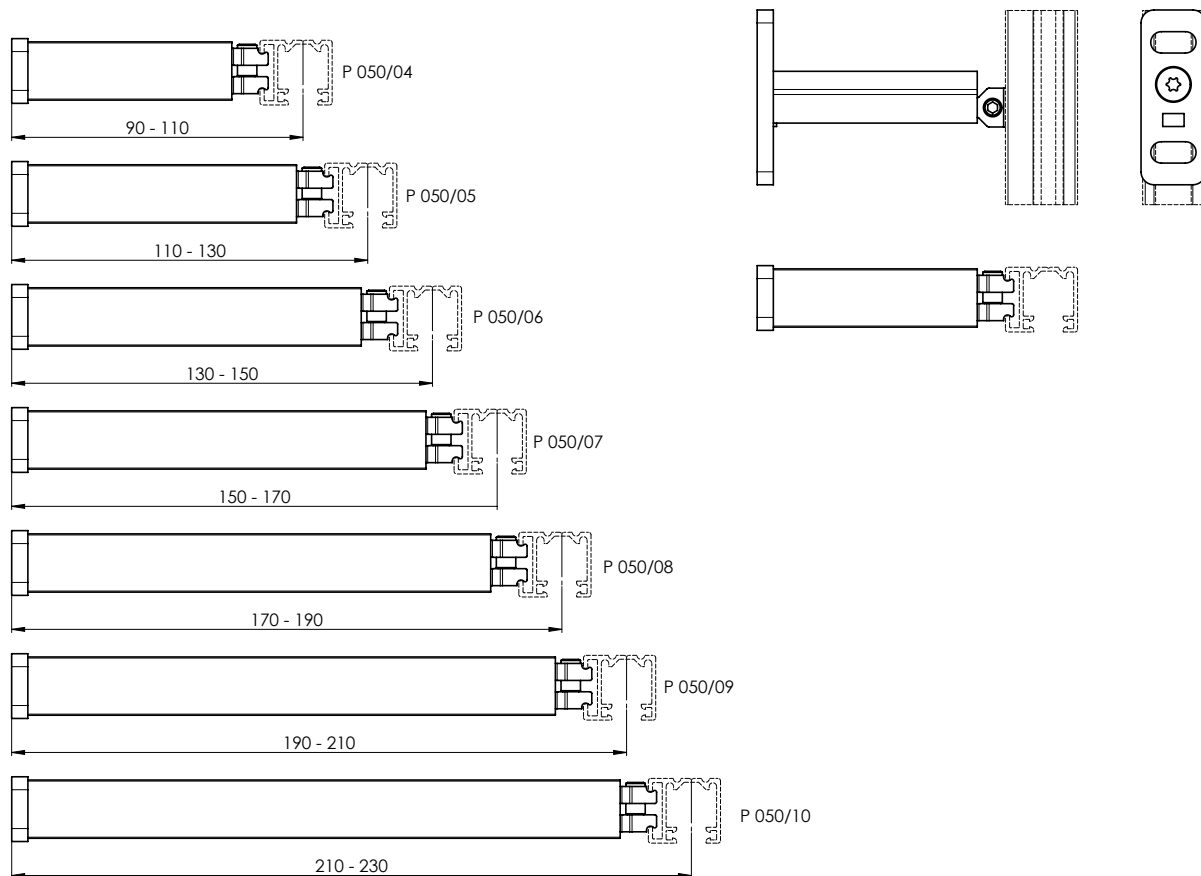


Guiding Channel Holders

Telescopic guiding channel holder, P 050/01 (2-01027), P 050/02 (2-01028), P 050/03 (2-01029)
for guiding channel P 017/1 a P 018/10



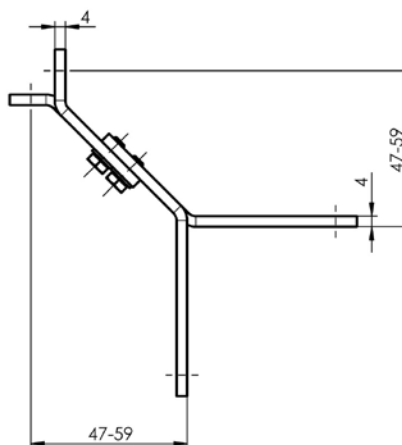
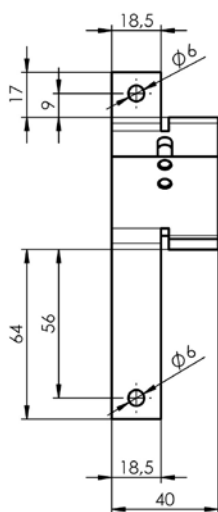
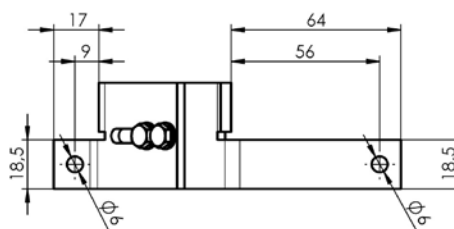
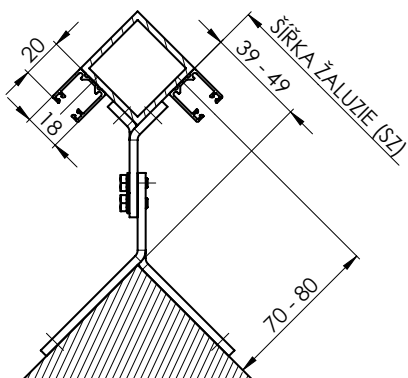
Telescopic guiding channel holder, P 050/04 (2-01030), P 050/05 (2-01031), P 050/06 (2-01032), P 050/07 (2-01033),
P 050/08 (2-01034), P 050/09 (2-01035), P 050/10 (2-01036) for guiding channel P 017/1 a P 018/10



Guiding Channel Holders

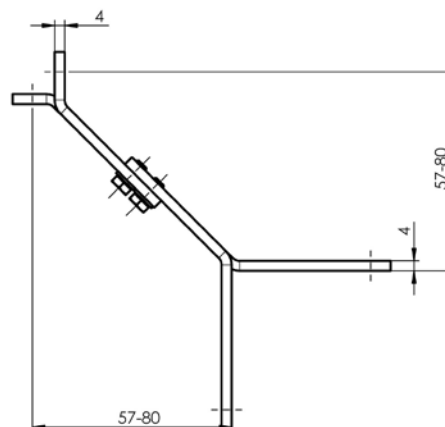
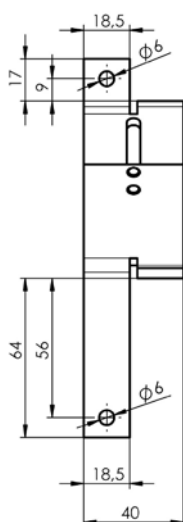
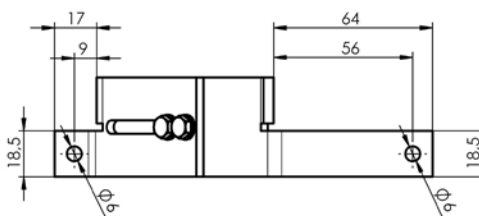
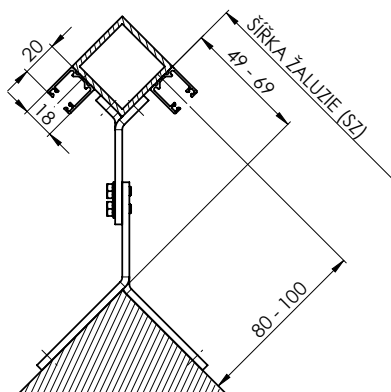
Guiding channel corner bracket exterior 70 - 80 P 098/0 (2-01150-XXXX-0)

For extension of 70mm is the measured width 39mm bigger. With each extension of 1 mm, increases also the width by 1 mm.



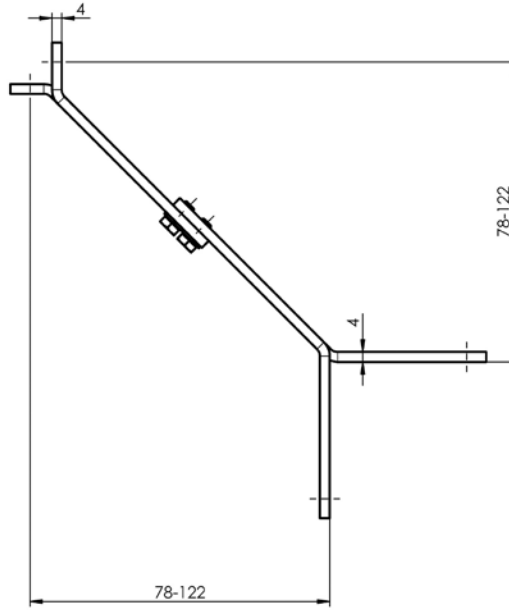
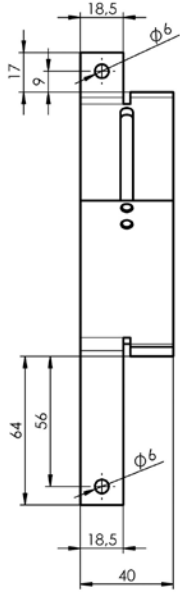
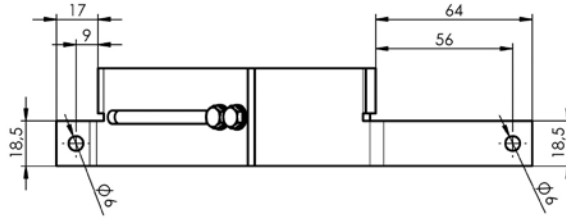
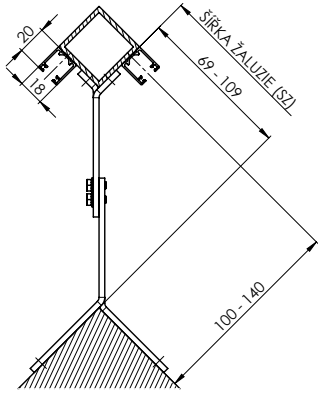
Guiding channel corner bracket exterior 80 - 100 P 098/1 (2-01151-XXXX-0)

For extension of 80mm is the measured width 49mm bigger. With each extension of 1 mm, increases also the width by 1 mm.



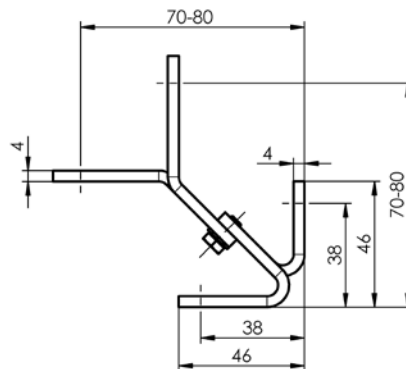
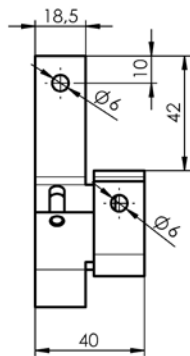
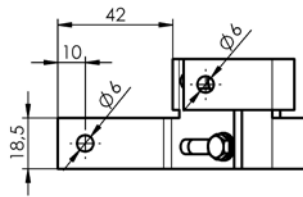
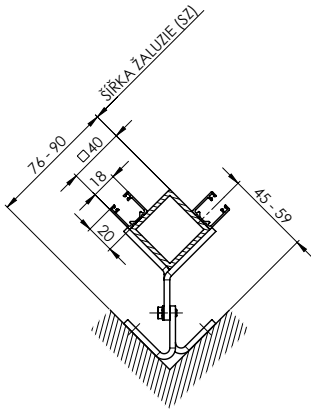
Guiding channel corner bracket exterior 100 – 140 P 098/2 (2-01152-XXXX-0)

For extension of 100mm is the measured width 69mm bigger. With each extension of 1 mm, increases also the width by 1 mm.



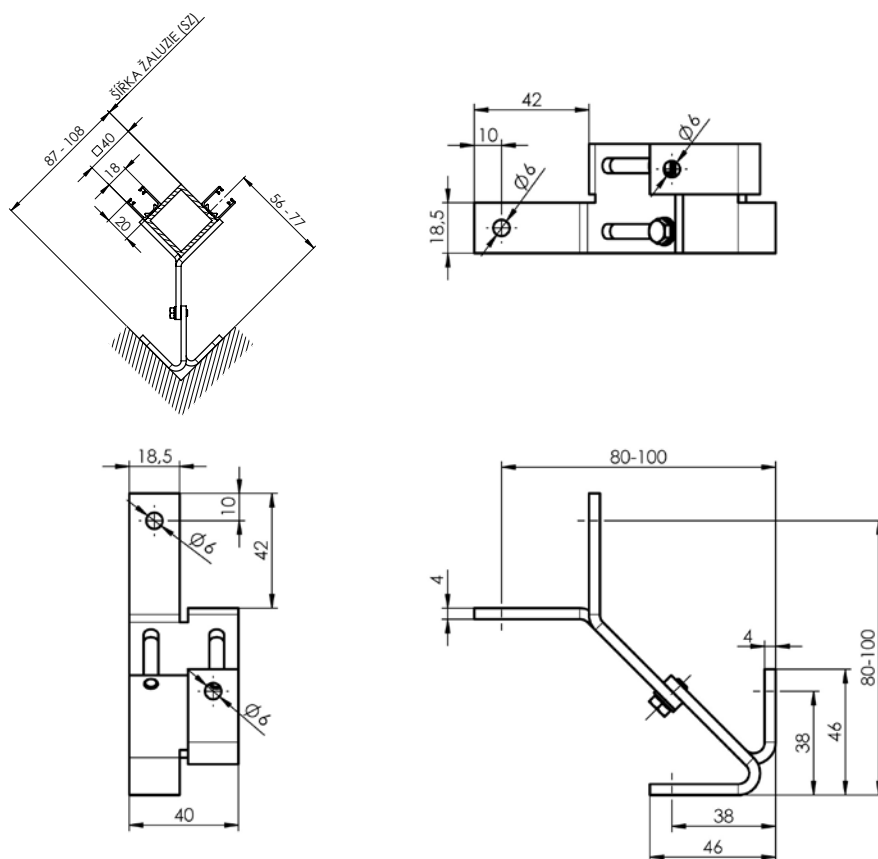
Guiding channel corner bracket interior 45 - 59 P 099/0 (2-01154-XXXX-0)

For extension of 45mm is the measured width 39mm shorter. With each extension of 1 mm, decreases also the width by 1 mm.



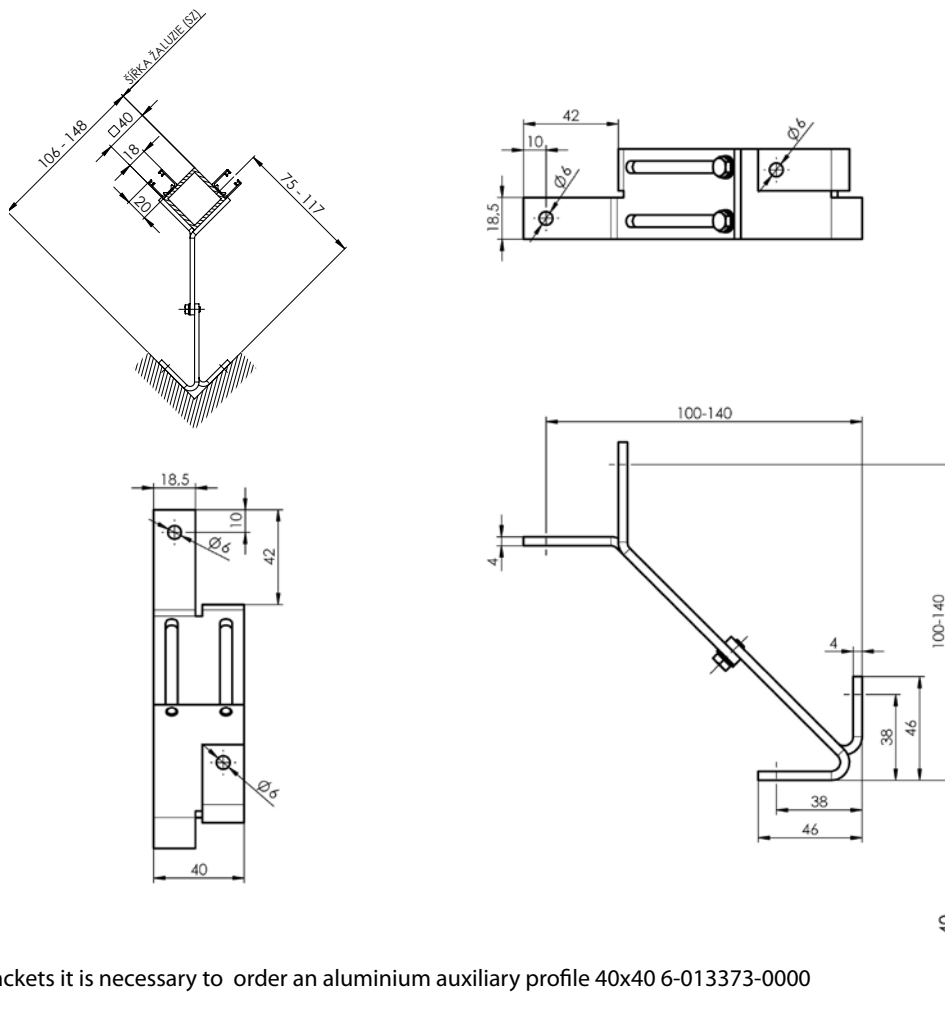
Guiding channel corner bracket interior 56 - 77 P 099/1 (2-01155-XXXX-0)

For extension of 56mm is the measured width 87mm shorter. With each extension of 1 mm, decreases also the width by 1 mm.



Guiding channel corner bracket interior 75 - 117 P 099/2 (2-01156-XXXX-0)

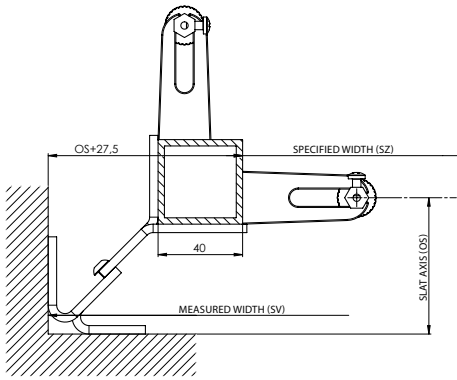
For extension of 75mm is the measured width 106mm shorter. With each extension of 1 mm, decreases also the width by 1 mm.



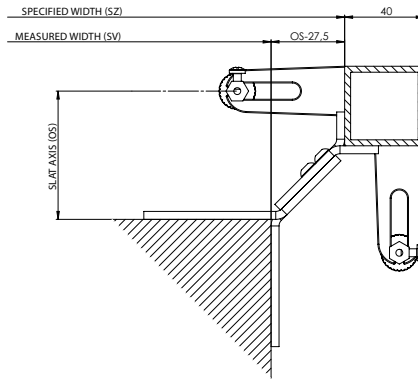
For corner brackets it is necessary to order an aluminium auxiliary profile 40x40 6-013373-0000

Measurement of corner brackets

Measurement - wire

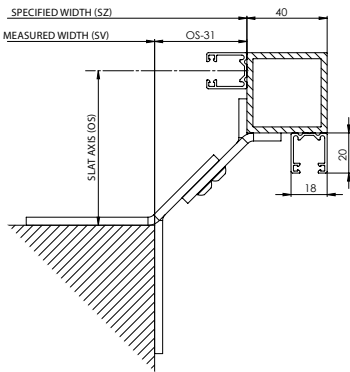


$$SZ=SV+(OS+27,5)$$

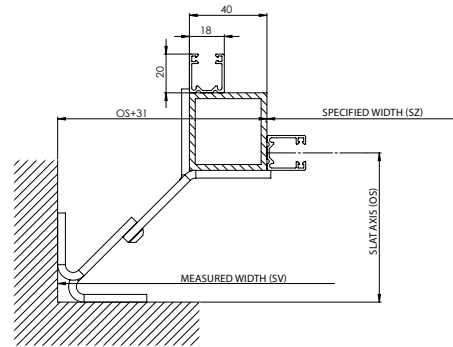


$$SZ=SV+(OS-27,5)$$

Measurement - channel

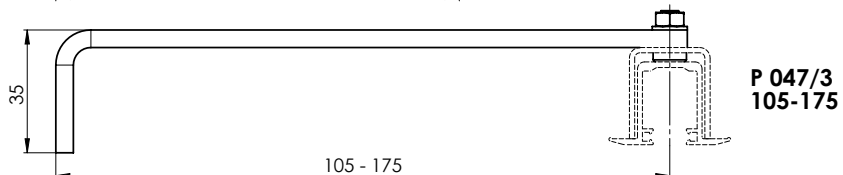
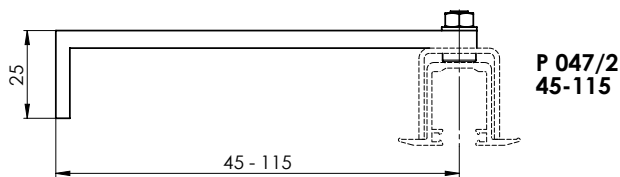
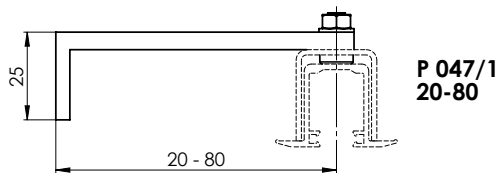
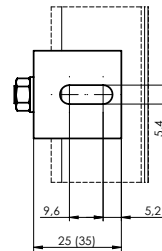
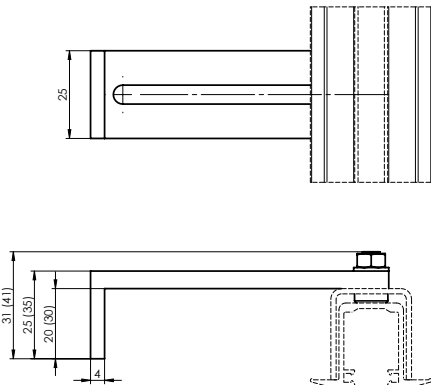


$$SZ=SV+(OS-31)$$

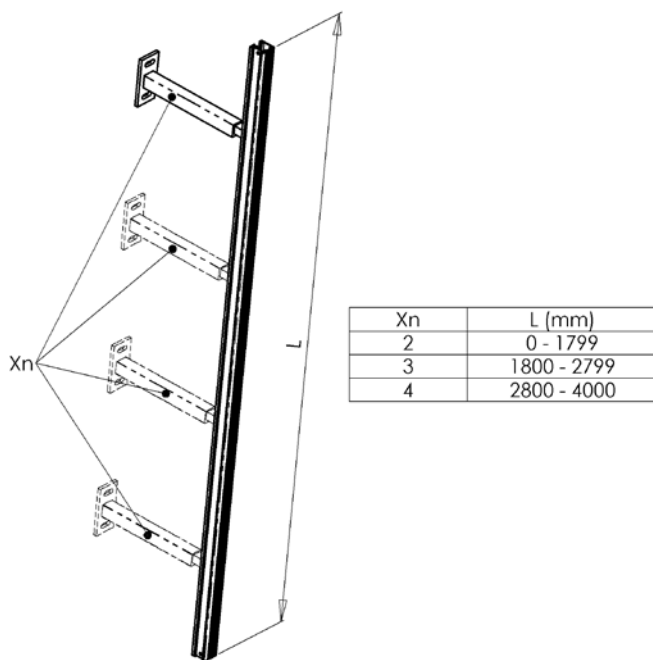


$$SZ=SV-(OS+31)$$

Bracket for under-plaster guiding channel



Types of guiding channel holders	Distance from center of guiding channel to the window frame (mm)	Guiding Channel
Guiding channel holder, 55 - 74 mm P021 (2-00050)	55 - 74	P 017/1, P 018/10
Guiding channel holder, 75 - 102 mm P021/1 (2-00051)	75 - 102	P 017/1, P 018/10
Guiding channel holder, 103 - 154 mm P021/2 (2-00052)	103 - 154	P 017/1, P 018/10
Telescopic guiding channel holder, 103 - 170 mm P021/3 (2-00401)	103 - 170	P 017/1, P 017/5, P 018/10, P 018/4
Telescopic guiding channel holder, 171 - 295 mm P021/4 (2-00402)	171 - 295	P 017/1, P 017/5, P 018/10, P 018/4
Telescopic guiding channel holder STS, 56 - 80 mm P021/5 (2-00582)	56 - 80	P 016/1, P 017/1, P 017/5, P 018/10, P 018/4
Telescopic guiding channel holder STS, 81 - 125 mm P021/6 (2-00583)	81 - 125	P 016/1, P 017/1, P 017/5, P 018/10, P 018/4
Guiding channel holder, 50 - 60 mm P050/1	50 - 60	P017/1, P018/10
Guiding channel holder, 60 - 70 mm P050/2	60 - 70	P017/1, P018/10
Guiding channel holder, 70 - 90 mm P050/3	70 - 90	P017/1, P018/10
Guiding channel holder, 90 - 110 mm P050/4	90 - 110	P017/1, P018/10
Guiding channel holder, 110 - 130 mm P050/5	110 - 130	P017/1, P018/10
Guiding channel holder, 130 - 150 mm P050/6	130 - 150	P017/1, P018/10
Guiding channel holder, 150 - 170 mm P050/7	150 - 170	P017/1, P018/10
Guiding channel holder, 170 - 190 mm P050/8	170 - 190	P017/1, P018/10
Guiding channel holder, 190 - 210 mm P050/9	190 - 210	P017/1, P018/10
Guiding channel holder, 210 - 230 mm P050/10	210 - 230	P017/1, P018/10

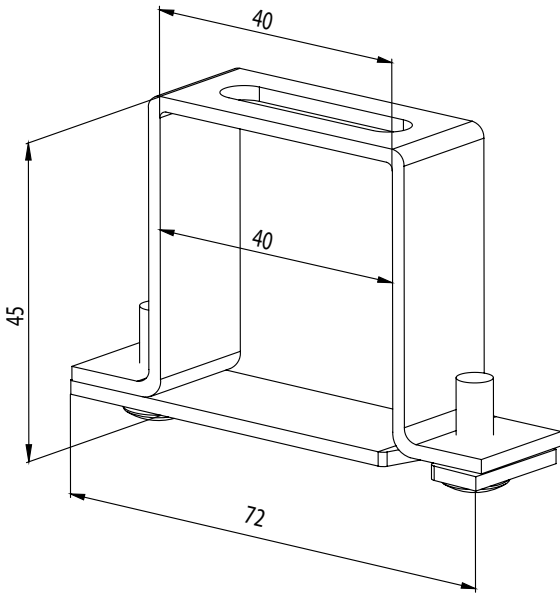


Recommended quantity of holders per one guiding channel based on blind height (mm)

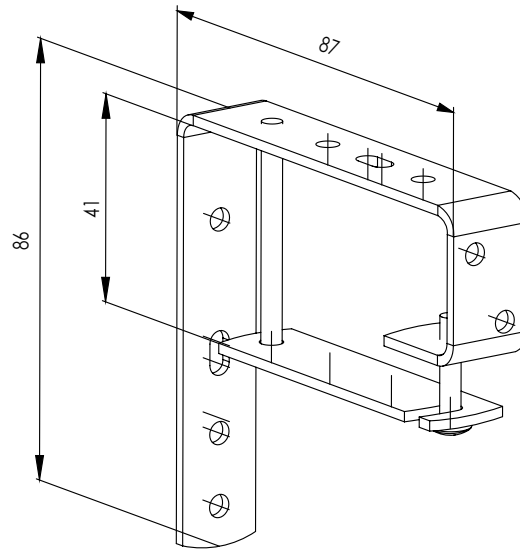
Blind height (mm)	Quantity
< 1801	2
1801 - 2800	3
higher than 2800	4

Holders for Exterior Blinds

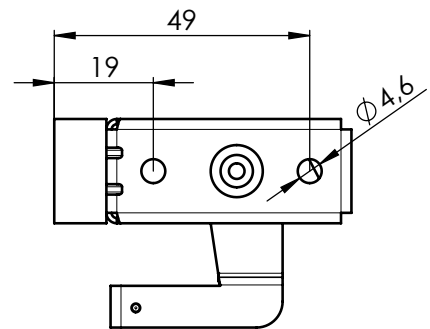
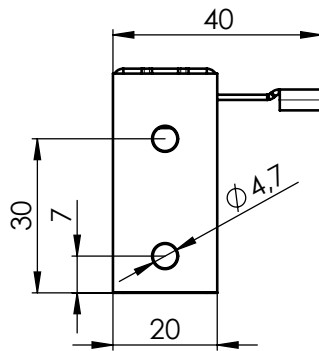
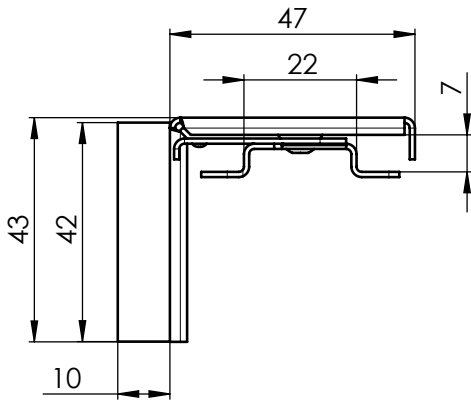
Fixed hanger for C50
 P 512 (2-00057)
 (for head rail 40 x 40)



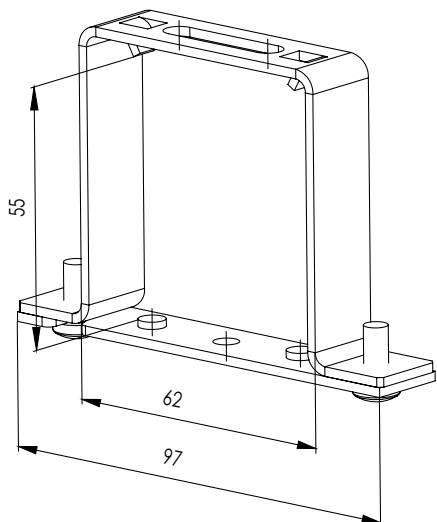
Fixed hanger for C50 with front cover
 P 513 (6-001244)
 (for head rail 40 x 40)



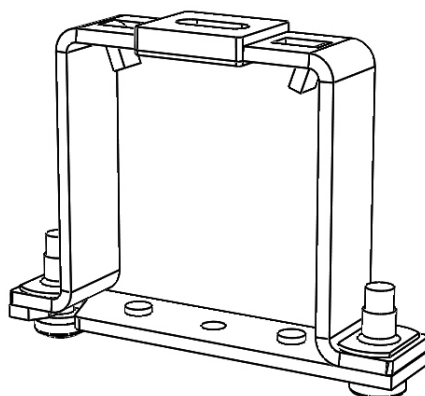
Universal openable hanger P512/6 (6-010980)
 (for Head Rail 40x40)
 Pad P 512/61 (3-02936)



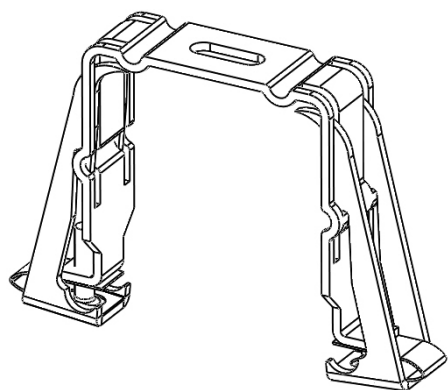
Head rail hanger Fe
 P 002 (2-00038)
 (for head rail 56 x 58)



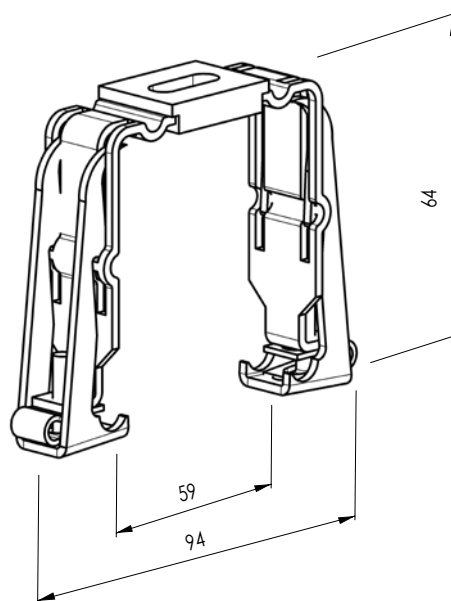
Head rail hanger Al
 P 002/11 (2-01350)
 (for head rail 58 x 60)



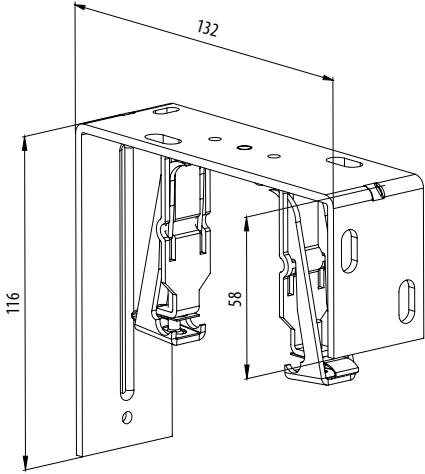
Head rail hanger mechanic - Fe Click
 P 002/31(6-002319-0000) 56x58



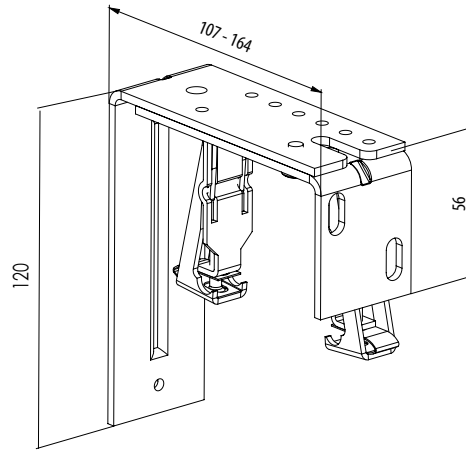
Head rail hanger mechanic - Fe Click
 P 002/32 (6-015772-0000) 56 x 58



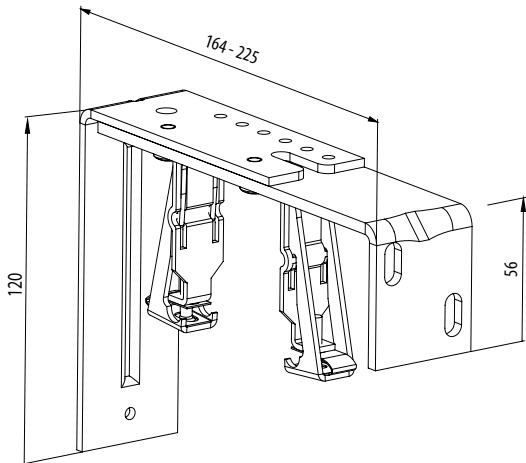
Fixed hanger (inner hanger Fe Click) 132 mm
 P 009 (2-00403)
 (for head rail 56 x 58)



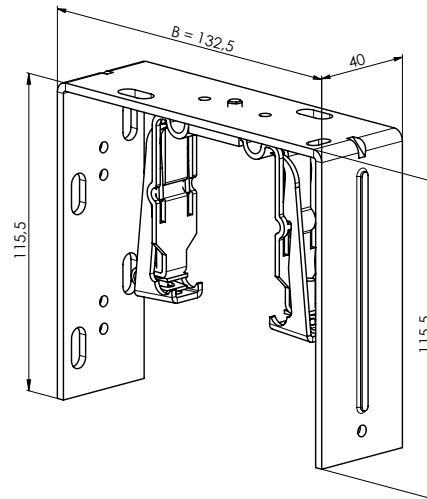
Adjustable hanger (inner hanger Fe Click) 107 - 164 mm
 P 009/1 (2-00404)
 (for head rail 56 x 58)



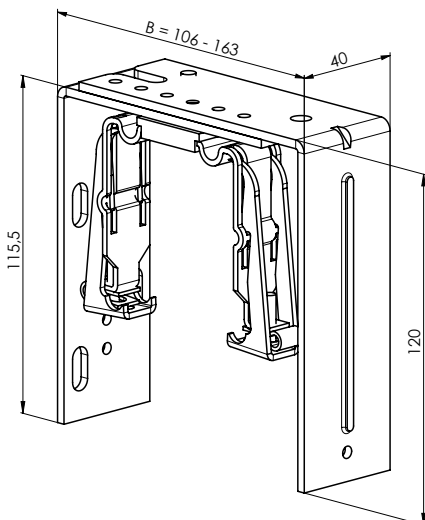
Adjustable hanger (inner hanger Fe Click) 164 - 225 mm
 P 009/2 (2-00405)
 (for head rail 56 x 58)



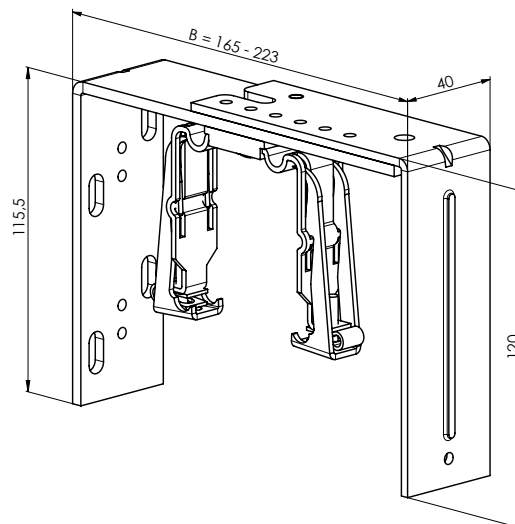
Blind bracket - fixed, mechanical 132,5 mm
 P 009/20 (2-01393)
 (for head rail 56 x 58)



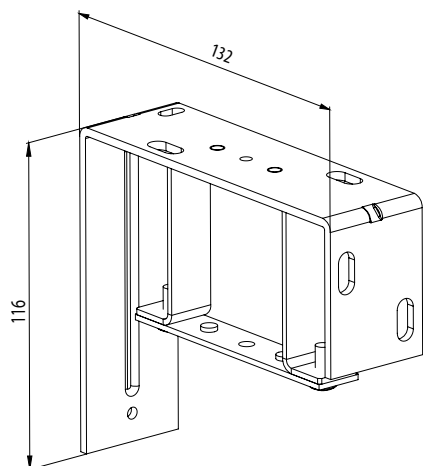
Blind bracket - short, adjustable and mechanical 106-163 mm
 P 009/21 (2-01392)
 (for head rail 56 x 58)(pro horní profil 56 x 58)



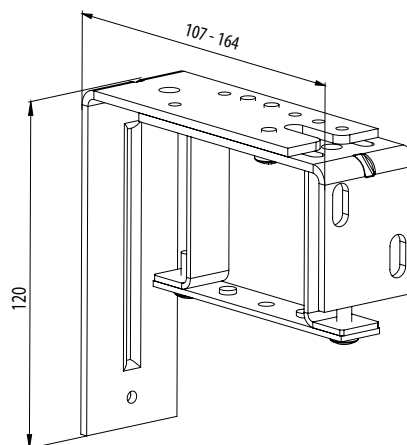
Blind bracket - long, adjustable and mechanical 165 - 223 mm
 P 009/22 (2-01391)



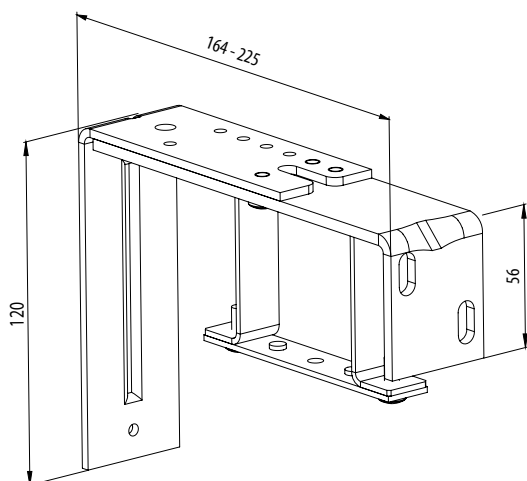
Fixed hanger (inner hanger Fe) 132 mm
 P 010 (2-00353)
 (for head rail 56 x 58)



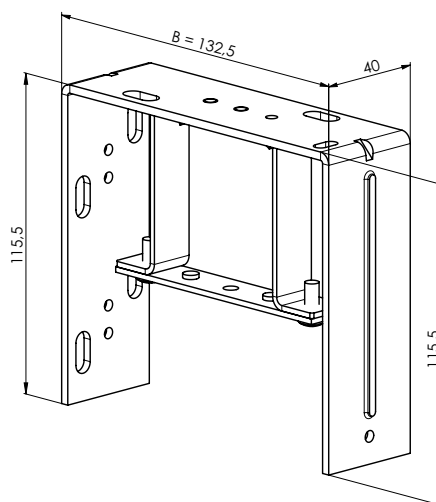
Adjustable hanger (inner hanger Fe) 107 - 164 mm
 P 010/1 (2-00354)
 (for head rail 56 x 58)



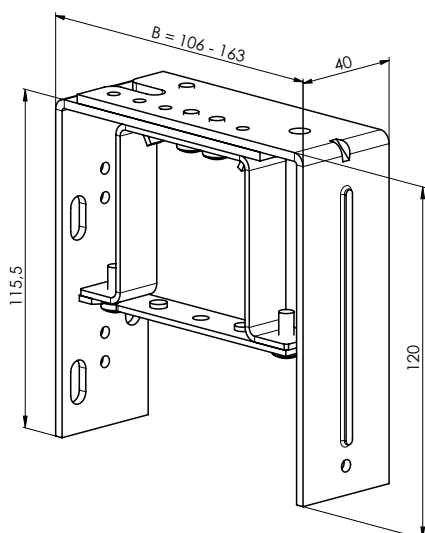
Adjustable hanger (inner hanger Fe) 164 - 225 mm
 P 010/2 (2-00355)
 (for head rail 56 x 58)



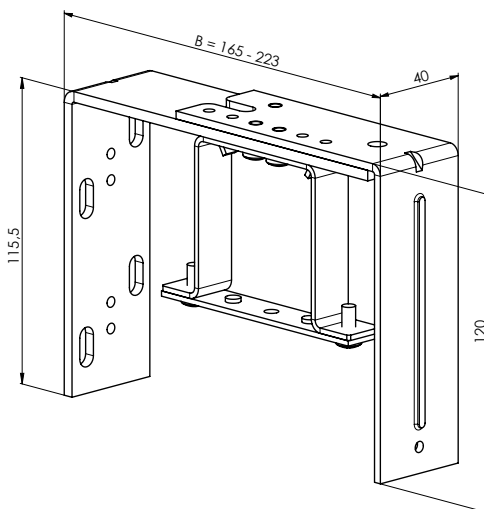
Blind bracket - fixed 132,5 mm
 P 010/20 (2-01387)
 (for head rail 56 x 58)



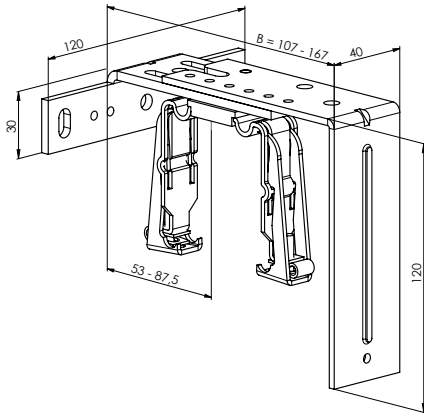
Blind bracket - short, adjustable 106-163 mm
 P 010/21 (2-01386)
 (for head rail 56 x 58)



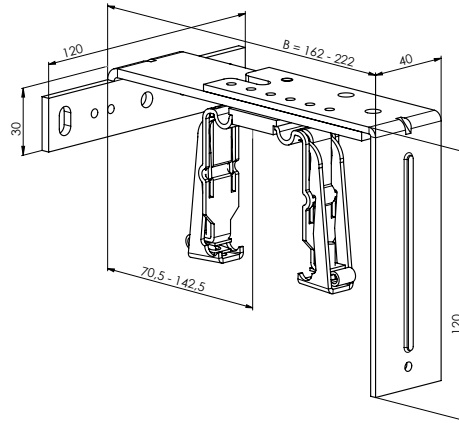
Blind bracket - long, adjustable 165 - 223 mm
 P 010/22 (2-01385)
 (for head rail 56 x 58)



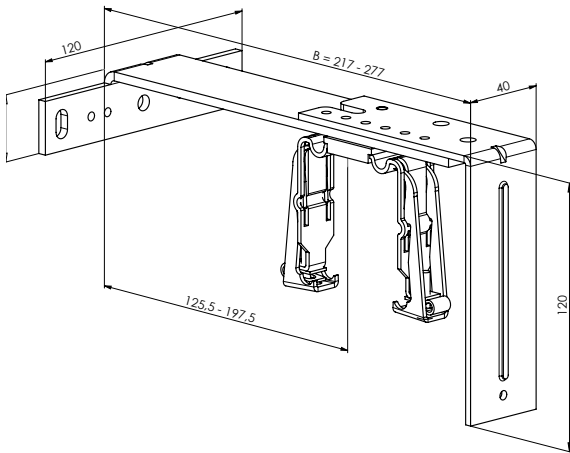
Adjustable hanger - mechanical 107 - 167 mm
P 010/30 (2-01599-0000)



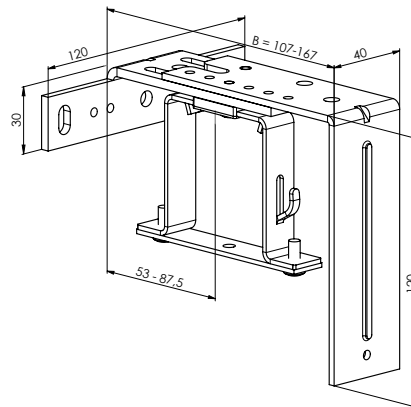
Adjustable hanger - mechanical 162 - 222 mm
P 010/31 (2-01600-0000)



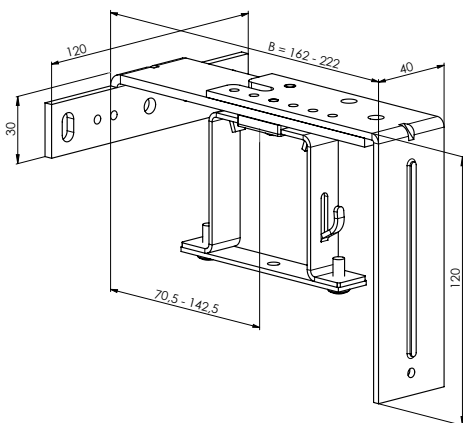
Adjustable hanger - mechanical 217 - 277 mm
P 010/32 (2-01601-0000)



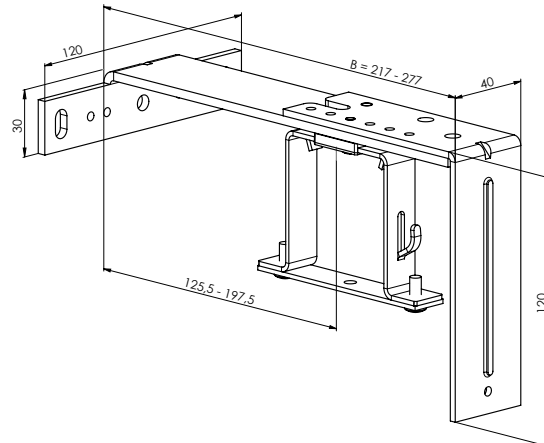
Adjustable hanger - fixed 107 - 167 mm
P 010/33 (2-01602-0000)



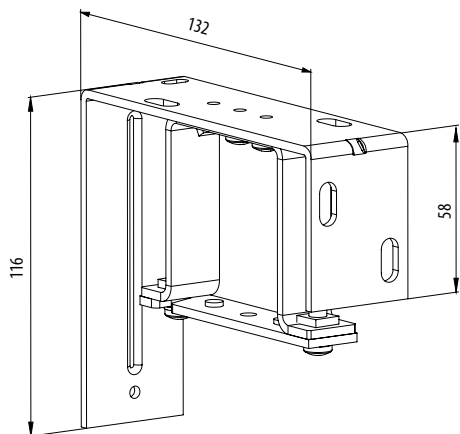
Adjustable hanger - fixed 162 - 222 mm
P 010/34 (2-01603-0000)



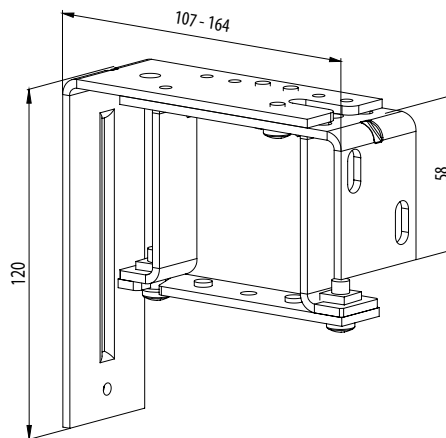
Adjustable hanger - fixed 217 - 277 mm
P 010/35 (2-01604-0000)



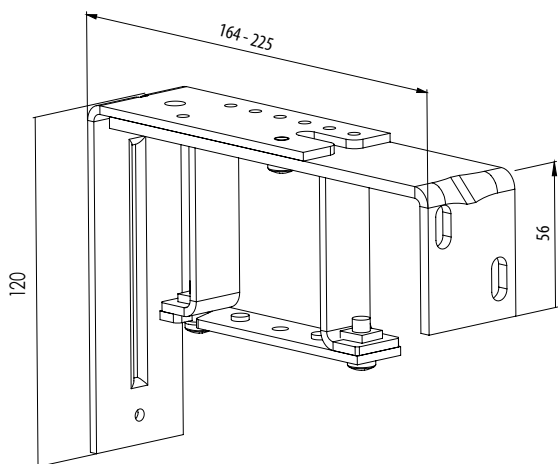
Fixed hanger (inner hanger Al) 132 mm
 P 011 (2-00384)
 (for head rail 58 x 60)



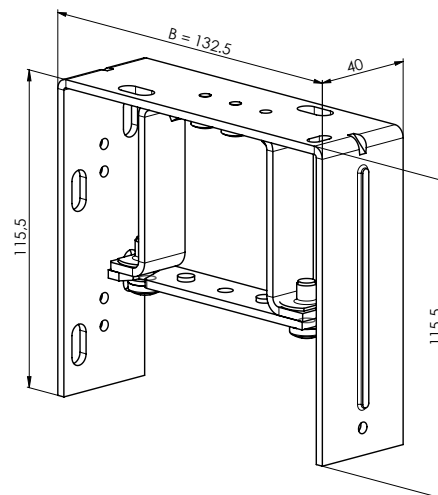
Adjustable hanger (inner hanger Al) 107 - 164 mm
 P 011/1 (2-00373)
 (for head rail 58 x 60)



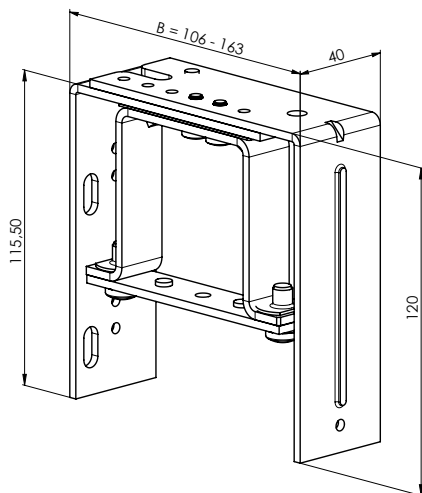
Adjustable hanger (inner hanger Al) 164 - 225 mm
 P 011/2 (2-00374)
 (for head rail 58 x 60)



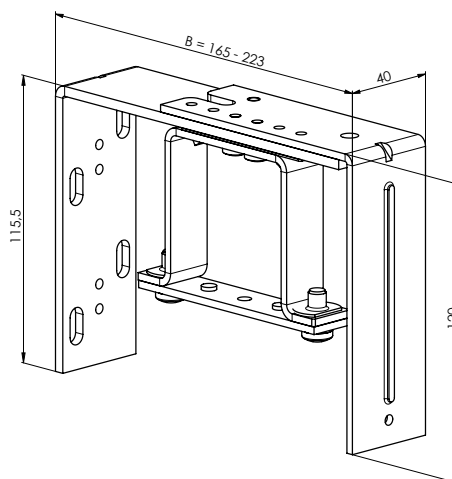
Blind bracket - fixed, with Al bracket 132,5 mm
 P 011/20 (2-01390)
 (for head rail 58 x 60)



Blind bracket - short, adjustable with Al bracket 106-163 mm
 P 011/21 (2-01389)
 (for head rail 58 x 60)

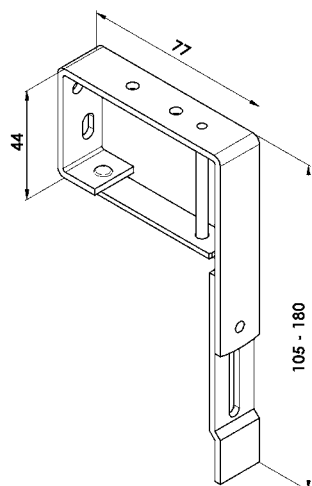


Blind bracket - long, adjustable with Al bracket 165 - 223 mm
 P 011/22 (2-01388)
 (for head rail 58 x 60)

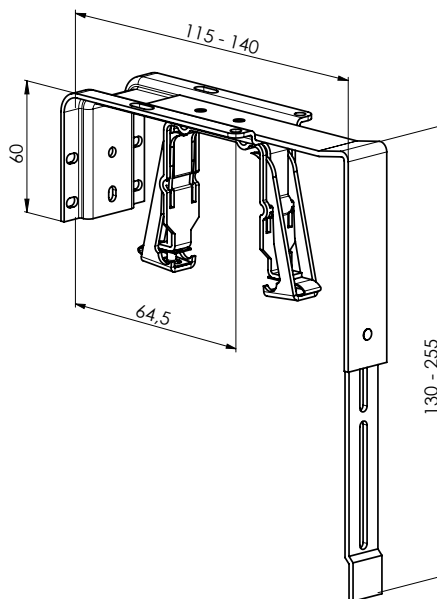


Holders KBT1-11

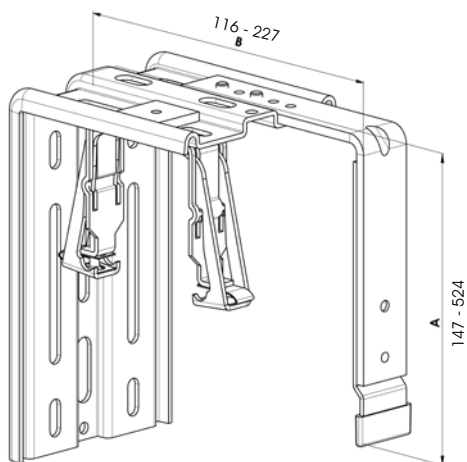
Blind bracket - mechanical KBT01, Fe (105-180)
P008_KBT1 (6-010604-0001)
(for head rail 40 x 40)



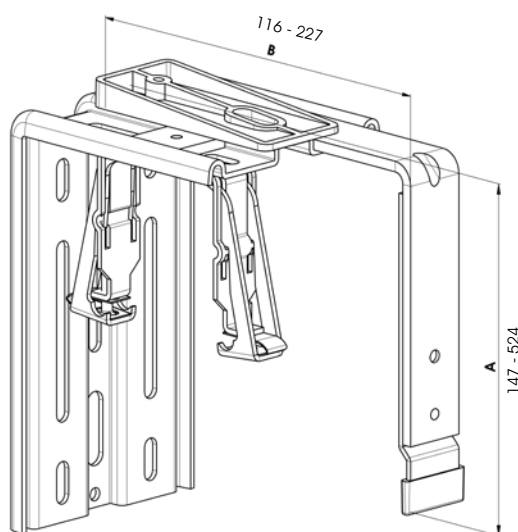
Blind bracket - mechanical KBT02, Fe (130-255)
P 008_KBT2 (6-010604-0002)
(for head rail 56 x 58)



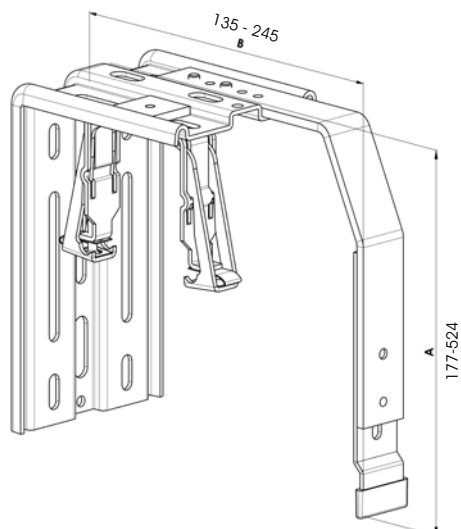
KBT3/1 (B=116-169; A=147-524)
KBT3/2 (B=170-227; A=147-524)
(for head rail 56 x 58)



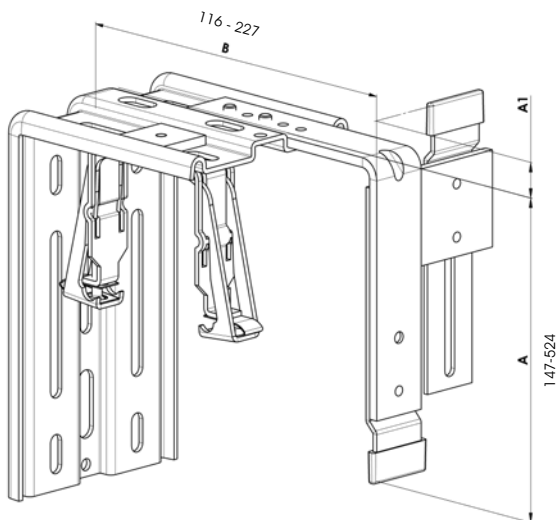
KBT4/1 (B=116-169; A=147-524)
KBT4/2 (B=170-227; A=147-524)
(for head rail 56 x 58)



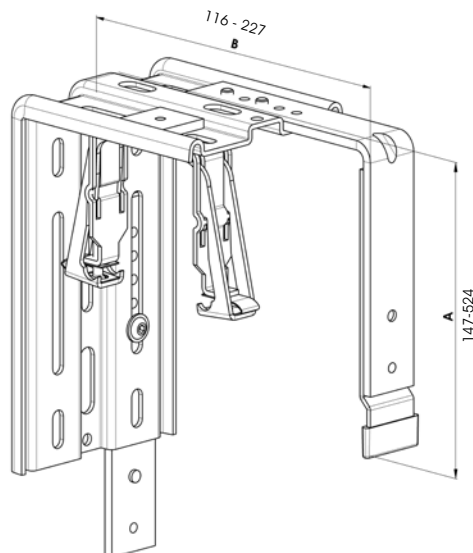
KBT5/1 (B=135-190; A=177-524)
KBT5/2 (B=191-524; A=177-524)
(for head rail 56 x 58)



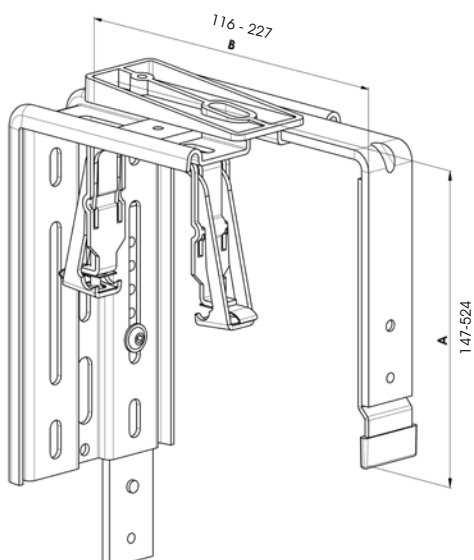
KBT7/11 (B=116-169; A=147-524; A1=28-83)
 KBT7/12 (B=116-169; A=147-524; A1=84-138)
 KBT7/13 (B=116-169; A=147-524; A1=139-193)
 KBT7/21 (B=170-227; A=147-524; A1=28-83)
 KBT7/22 (B=170-227; A=147-524; A1=84-138)
 KBT7/23 (B=170-227; A=147-524; A1=139-193)
 (for head rail 56 x 58)



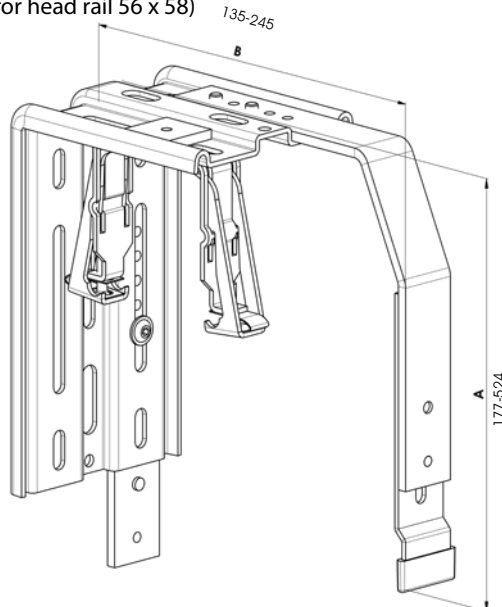
KBT8/1 (B=116-169; A=147-524)
 KBT8/2 (B=170-227; A=147-524)
 (for head rail 56 x 58)



KBT4/1 (B=116-169; A=147-524)
 KBT4/2 (B=170-227; A=147-524)
 (for head rail 56 x 58)

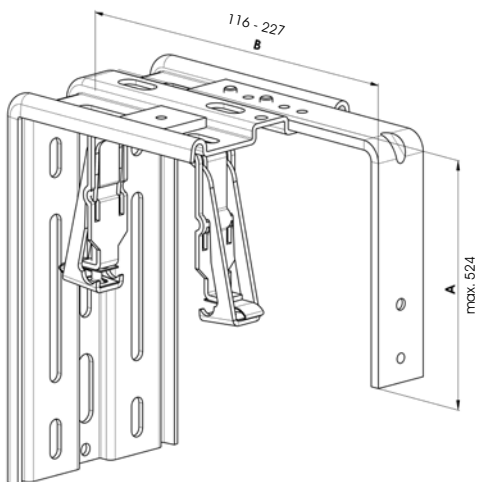


KBT3/1 (B=116-169; A=147-524)
 KBT3/2 (B=170-227; A=147-524)
 (for head rail 56 x 58)

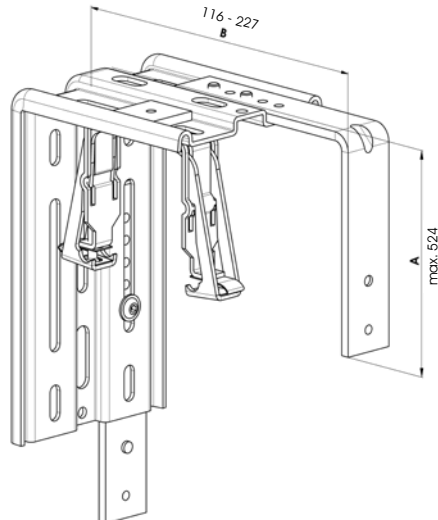


Holders for Applications under Plastering (for atypical designs of front covers)

KBT6/1 (B=116-169; A=precise)
 KBT6/2 (B=170-227; A=precise)
 (for head rail 56 x 58)

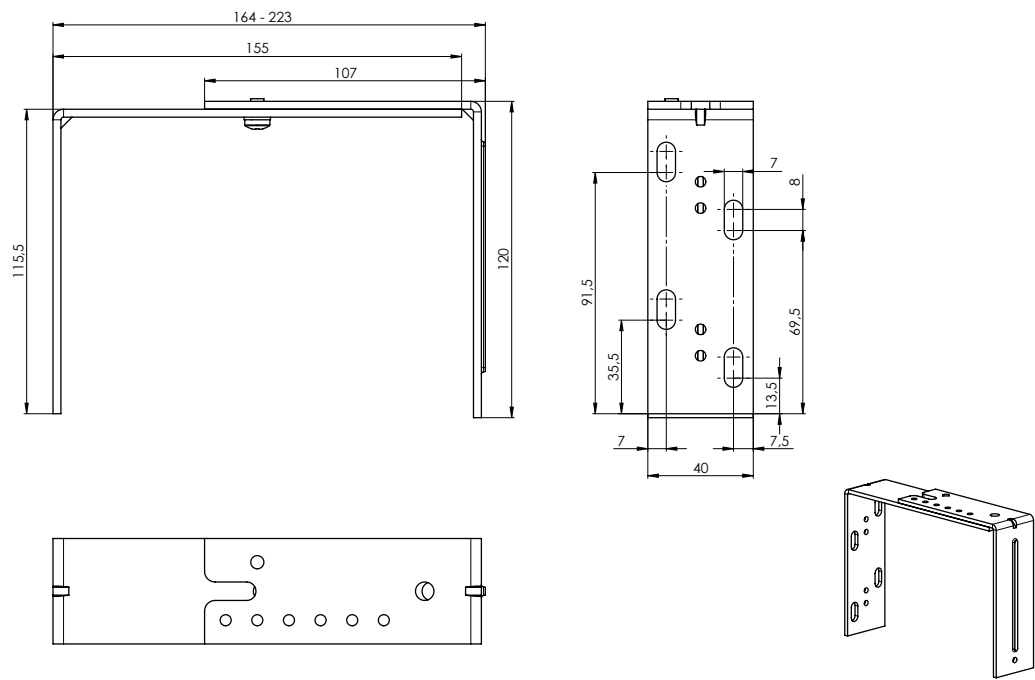


KBT11/1 (B=116-169; A=precise)
 KBT11/2 (B=170-227; A=precise)
 (for head rail 56 x 58)

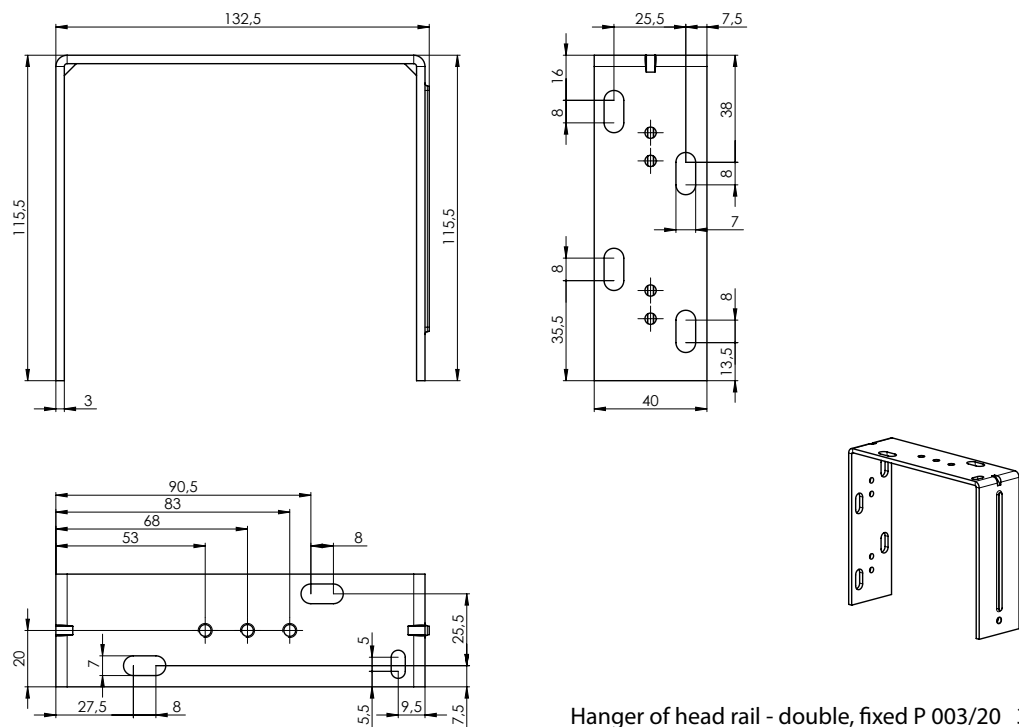


Use of holders for respective front cover types

KBT Holders	Front cover					
KBT1	T2	T3	T2u	T3u		
KBT2	T2	T3	T2u	T3u		
KBT3	T1	T1u	T2	T3	T2u	T3u
KBT4	T2s	T3s				
KBT5	T2b	T2r	T3b	T3r		
KBT6	atypical cover					
KBT7	T1c					
KBT8	T4	T4c	T4r	T4u; T4u/x	T4d; T4d/x	
KBT9	T4s					
KBT10	T4b					
KBT11	atypical cover					



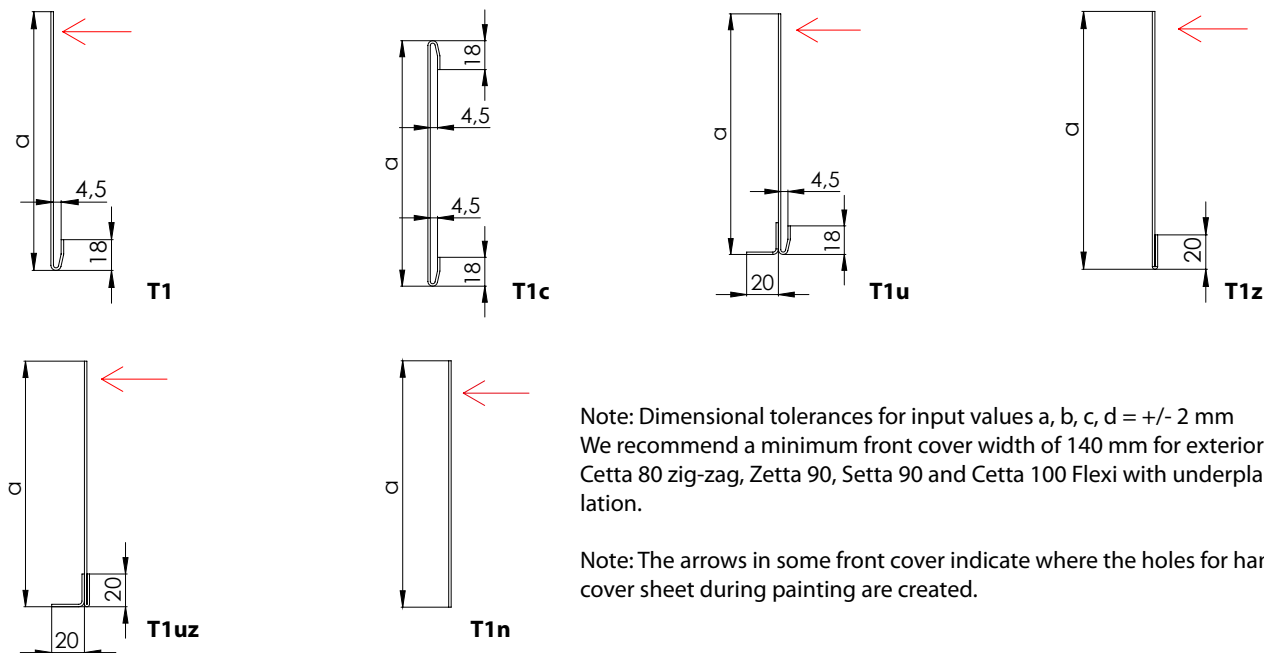
Hanger of head rail double - adjustable, long P 003/22 2-01347-XXXX-0



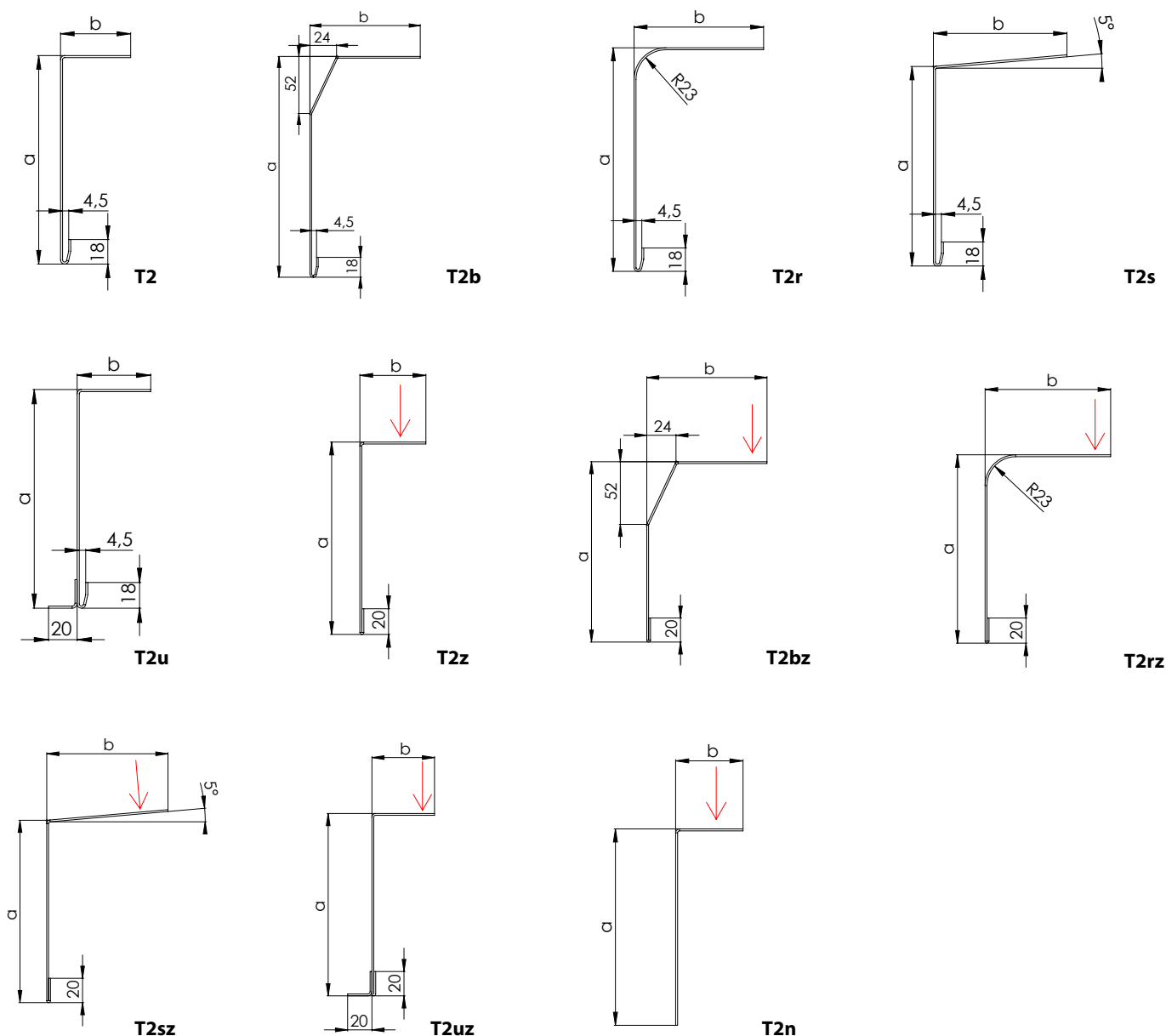
Hanger of head rail - double, fixed P 003/20 3-03000-XXXX-0

Types of Front Covers

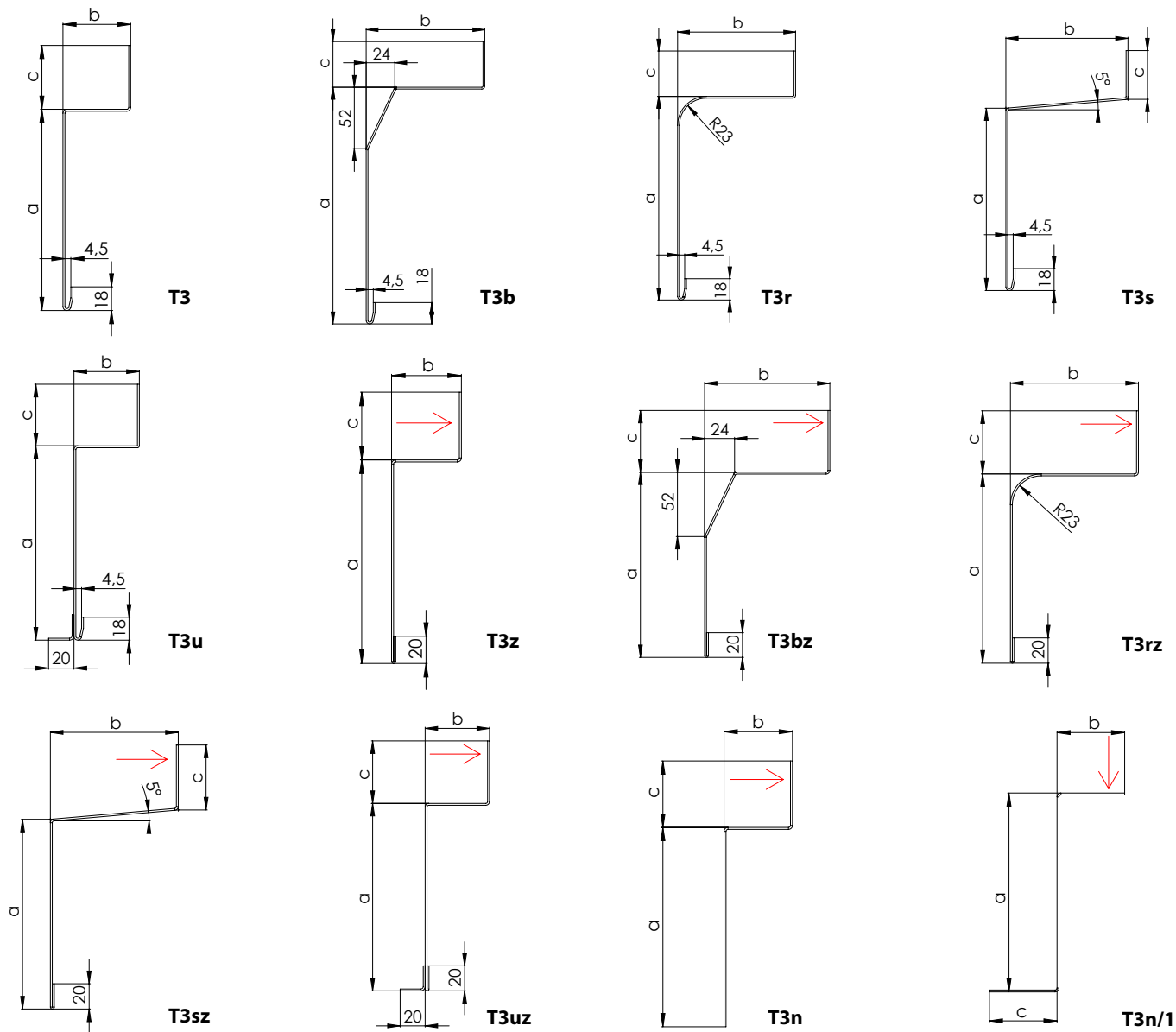
Front Covers type T1



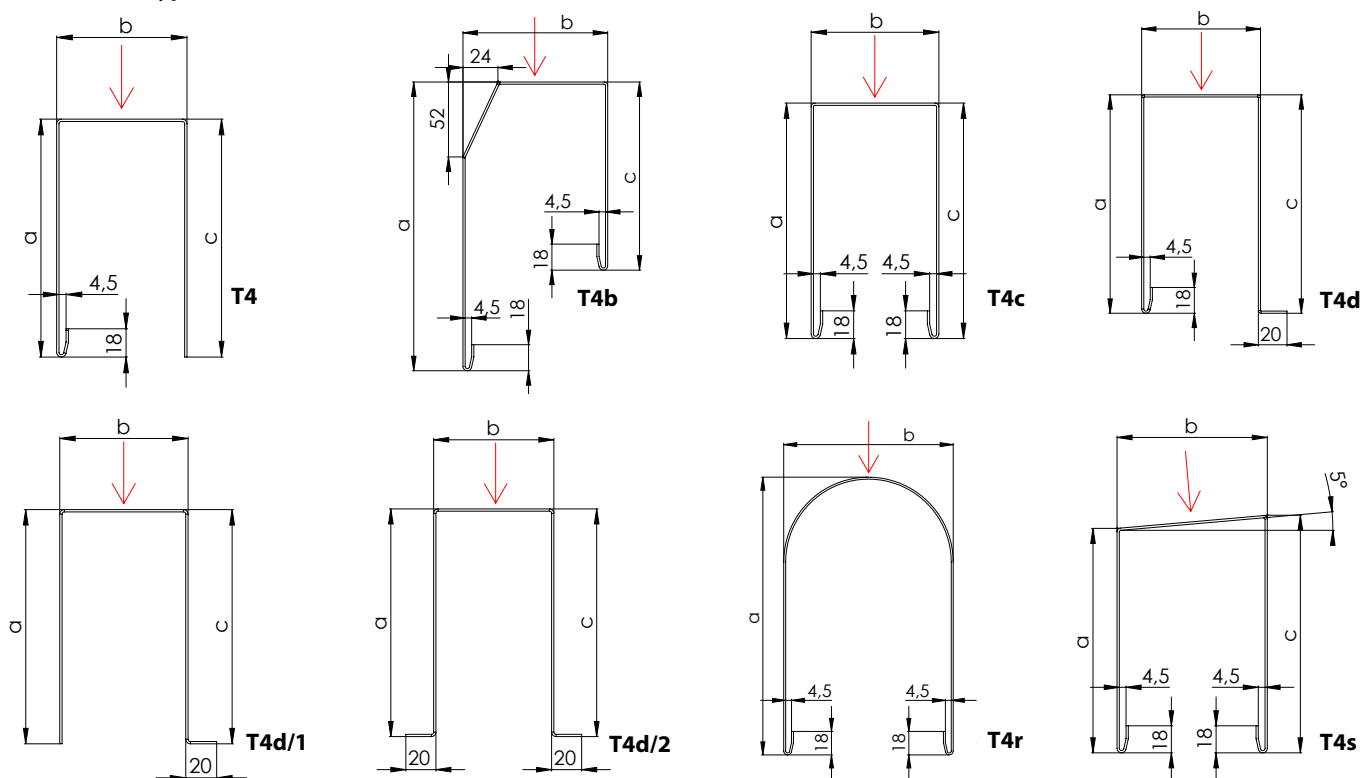
Front Covers type T2

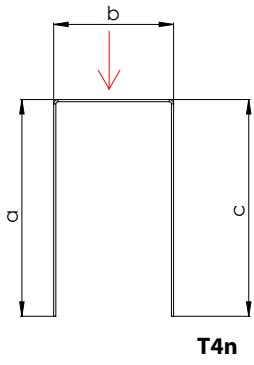
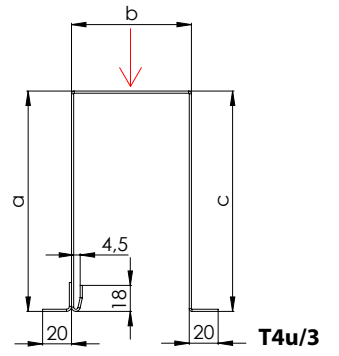
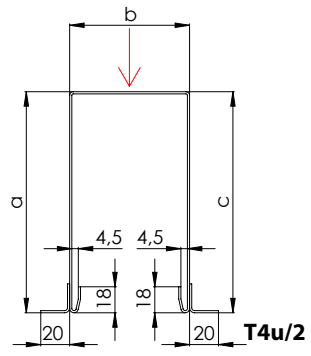
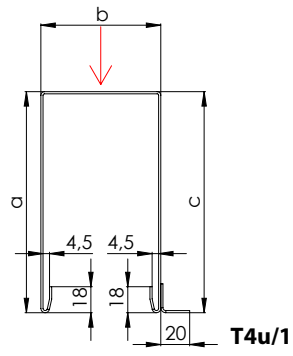
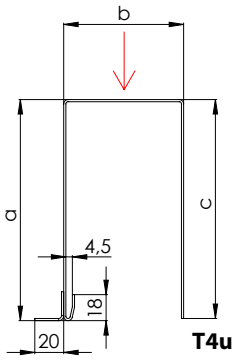


Front Covers type T3



Front Covers type T4





Number of Exterior Blind Holders Based on Width (mm)

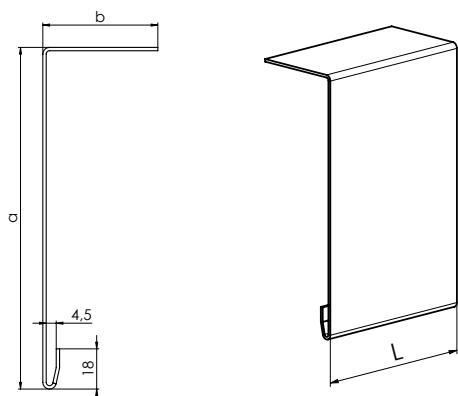
Blind Width (mm)	(Pcs.)
to 1599	2
from 1600 to 2399	3
from 2400 to 3199	4
from 3200 to 4000	5
from 4001 to 6000	6

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

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

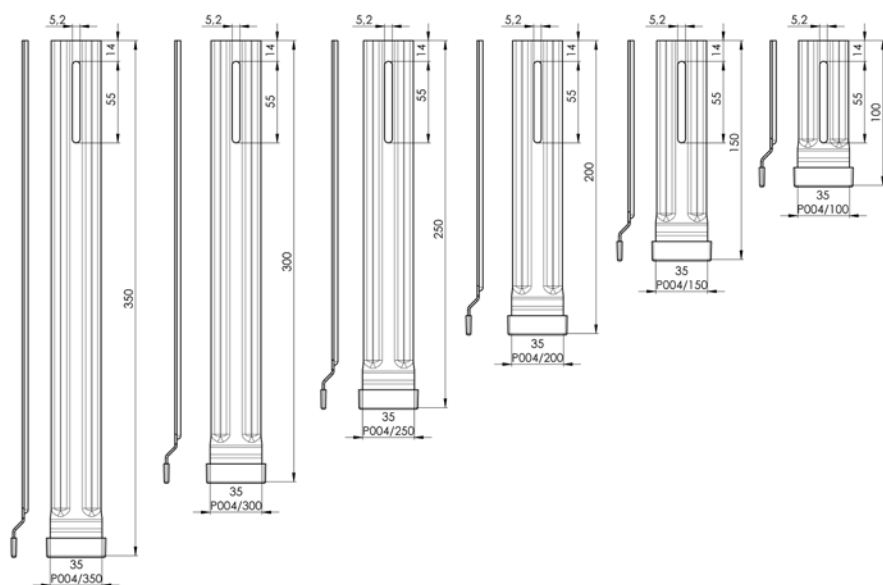
Material: Al
 Thickness: 1,5 mm / 2 mm*
 Maximum length of front cover without joint: 4000 mm
 Unwound width of cover plate: $L = a + b + c$
 Color: any color according to RAL scheme

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

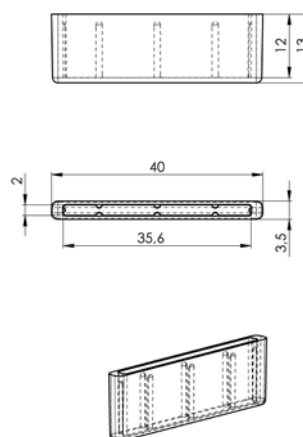
*recommended thickness for width over 2500 mm

Thickness of top front cover in case width to 2,5 m: 1,5 mm
 Thickness of top front cover in case width over 2,5 m: 2 mm

Variable holder with cap



Extension cap of Top front cover (3-03083-0000)



Extension Based on Front Cover Height

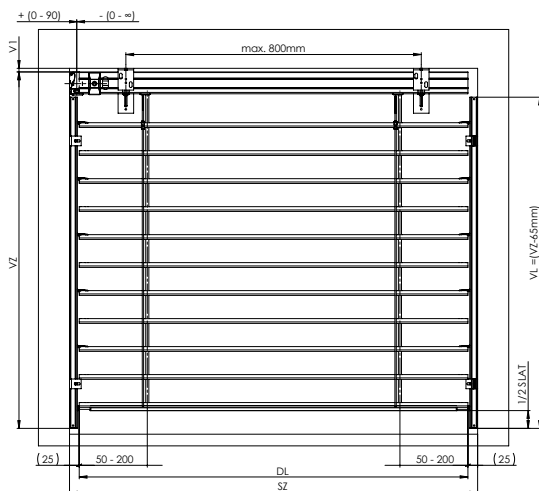
Type	Dimension "A"
P 004/100	140 - 190 mm
P 004/150	191 - 240 mm
P 004/200	241 - 290 mm
P 004/250	291 - 340 mm
P 004/300	341 - 390 mm
P 004/350	391 - 440 mm

Measurement

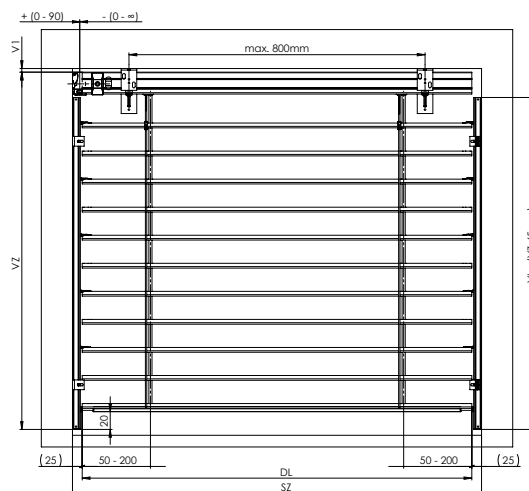
Measurement of the Standard Blind

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.

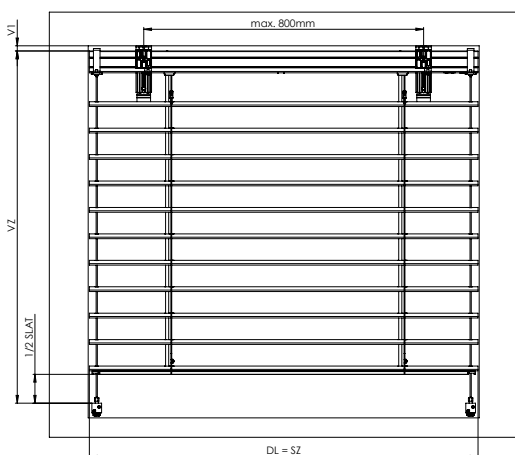
The method of measuring the exterior blinds is such a specific matter that we recommend always consulting the technical aspects on the site. There are other specific solutions available, as well.



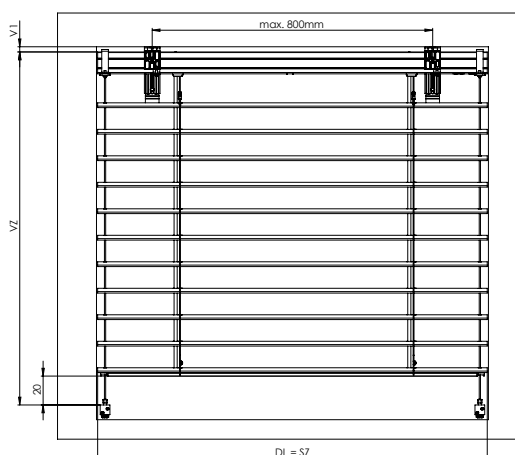
Guidance – guiding channel - perpendicular



Guidance – guiding channel – non perpendicular



Guidance – wire - perpendicular



Guidance – wire – non perpendicular

SZ - width of the blind
VZ - height of the blind
DL - length of the lamella

VL - length of the guiding bar
V1 - height by the holder type (see page 86
VL = VZ – 65 mm

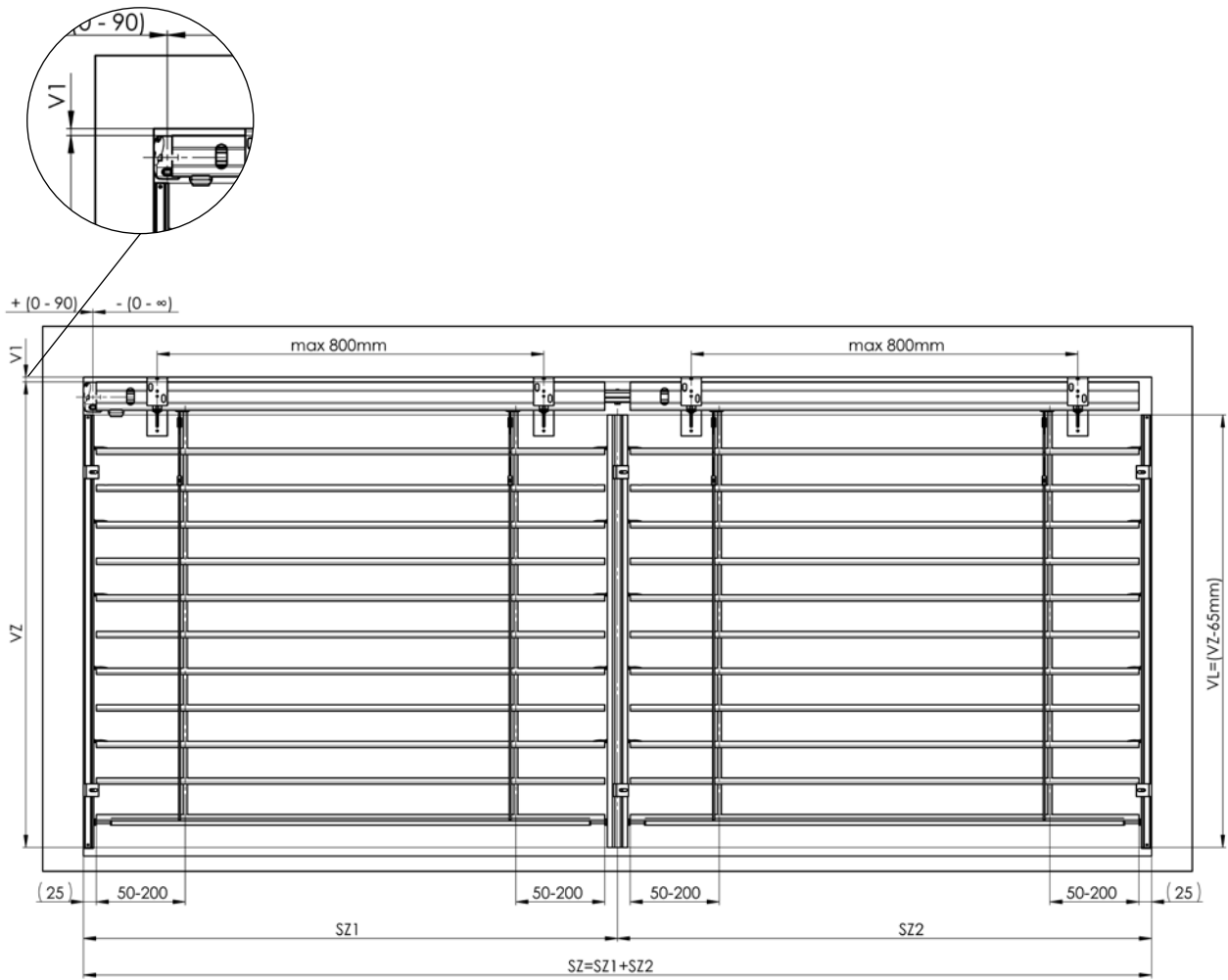
In the case of control by the engine, the upper profile is shortened by 5 mm. If it is controlled by handle, the length of the profile depends on the shift of the gearbox. The position of the gearbox (possible shift) in the upper profile depends on the actual fitting of the window frame, reveal. The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

ATTENTION! For sloped blinds always specify all possible sizes (width, bigger drop, smaller drop, hypotenuse length). Sloped blinds are produced only with motor control and wire guiding which needs specific tensioning (see amendment of this manual)

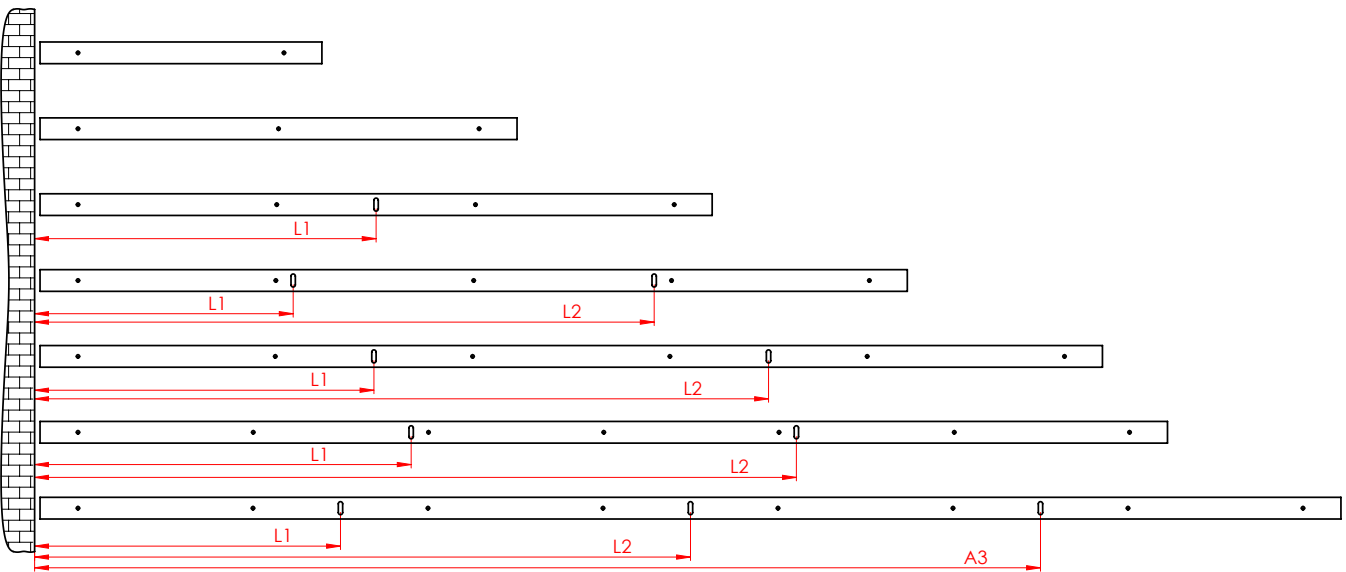
The space between the bottom edge of head rail 56/58 and the first slat in closed position

Cetta 60 Flexi	41 - 93 mm
Cetta 65	32 - 92 mm
Cetta 80	35 - 103 mm
Cetta 80 Flexi	38 - 106 mm
Cetta 100 Flexi	85 - 169 mm
Zetta 70	44 - 104 mm
Zetta 90	62 - 142 mm
Setta 65	44 - 104 mm
Setta 90	66 - 152 mm

Connected Blind Measuring



Standards for arrangement of additional guide cord



Standard Exterior Blind Assembly Procedure

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

Construction preparedness for the assembly:

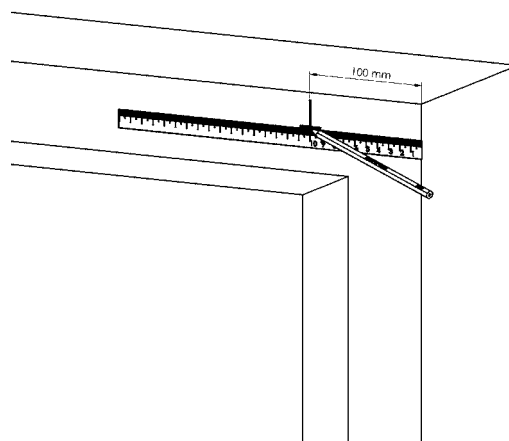
- finished reveal, coloured facade, finished outside parapets

INSPECTION:

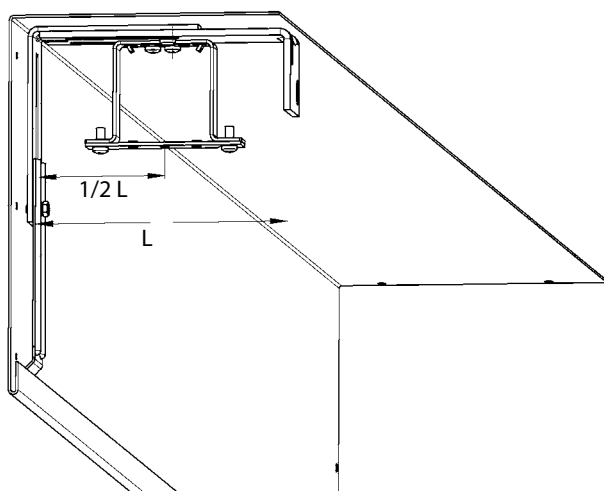
- Before assembly we recommend inspecting all the parts after the delivery of the goods to prevent any problems. The manufacturer must be notified of any defects or comments concerning the assembly or blinds.

ASSEMBLY TOOLS:

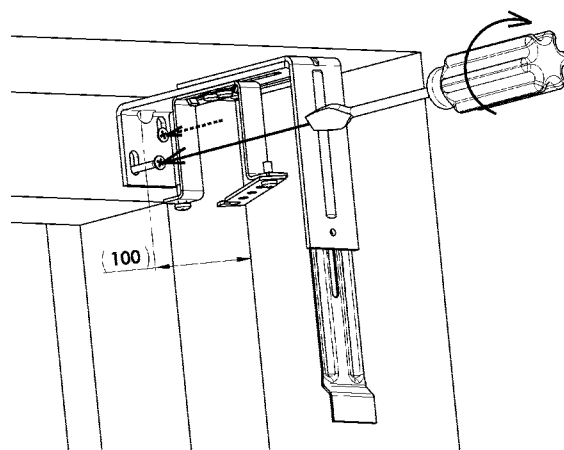
1. Tape measure
2. Water gauge
3. Pencil
4. Hammer
5. Electric drill as per the source material
6. Cordless electric drill
7. Magnetic adapter
8. Bits PZ2, PH2, magnetic adapter on hexagonal head 8 and 10
9. set of Allen wrenches
10. Assembly cable
11. Small ratchet wrench and 8 nut
12. Female screw spanner No. 10 and 13
13. Set of screwdrivers, insulated, electric



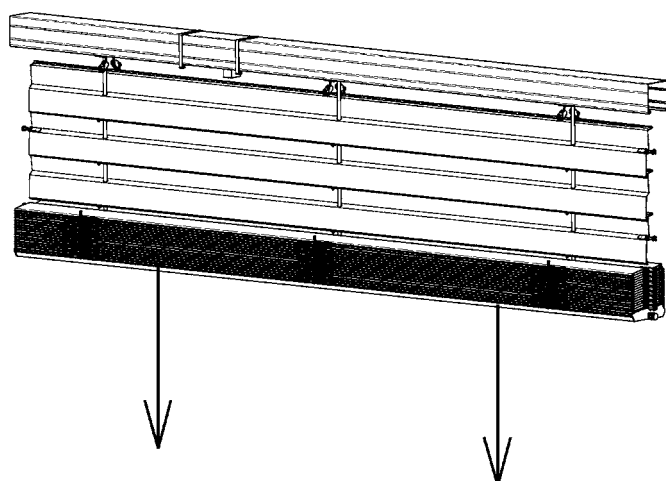
1.



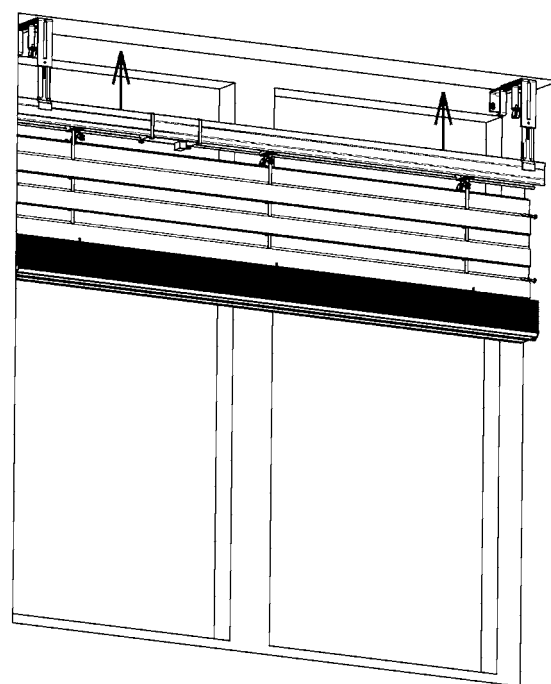
2.



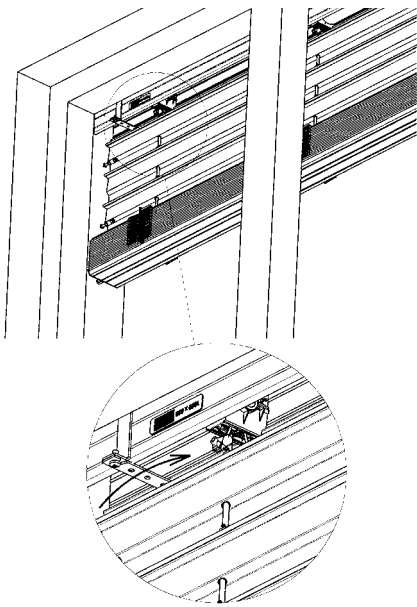
3.



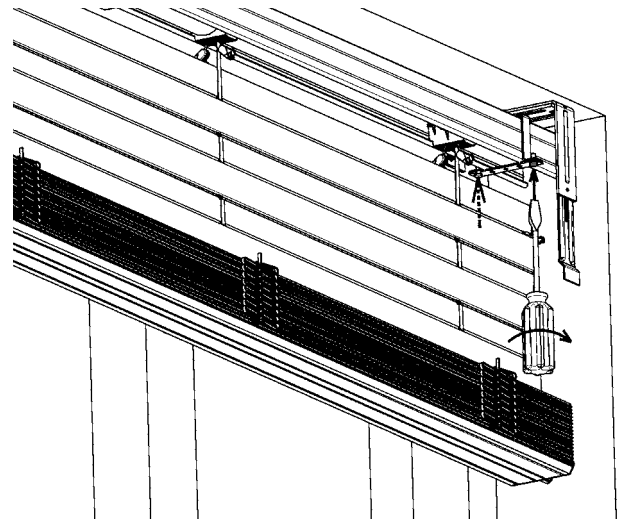
4.



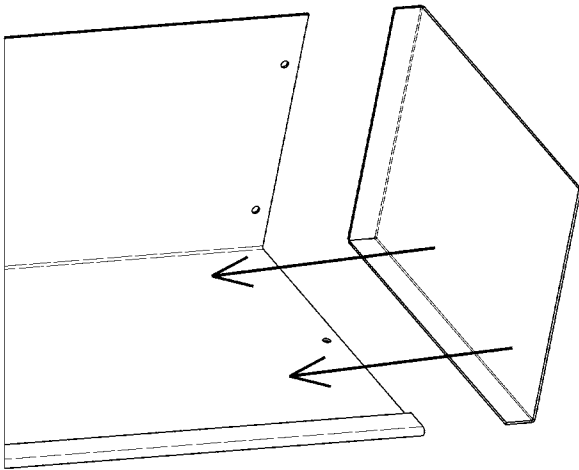
5.



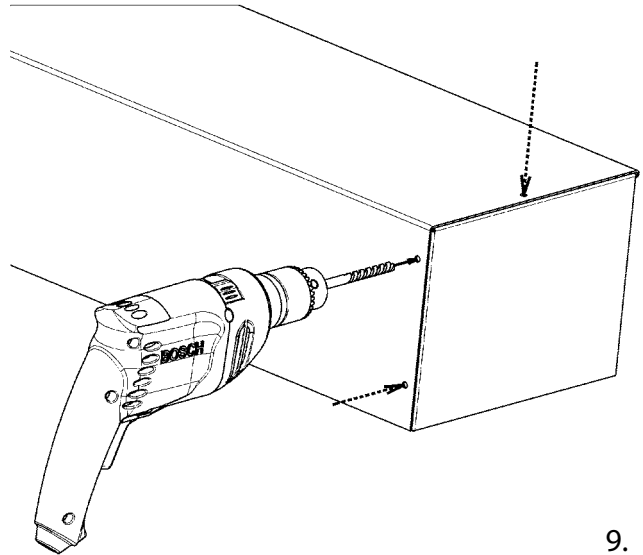
6.



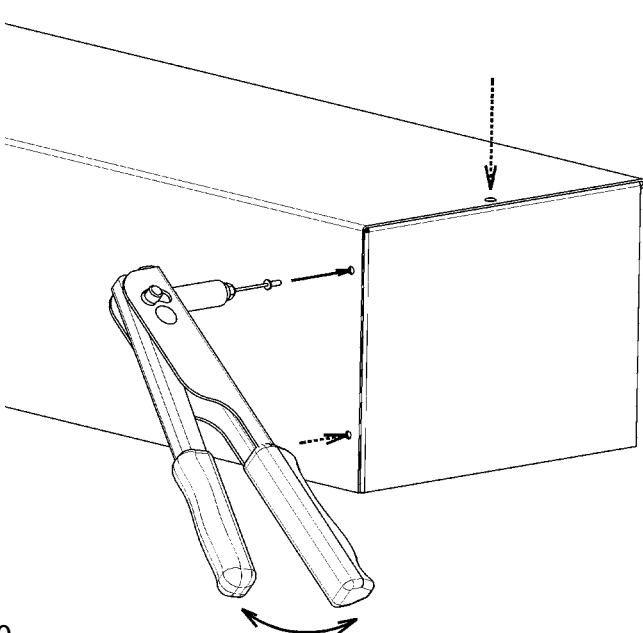
7.



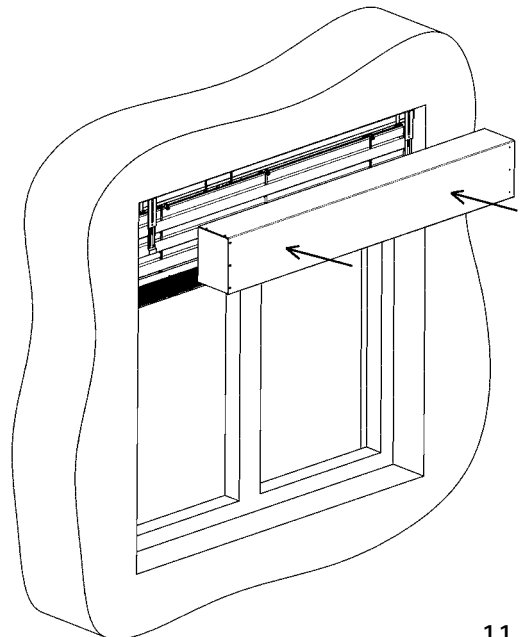
8.



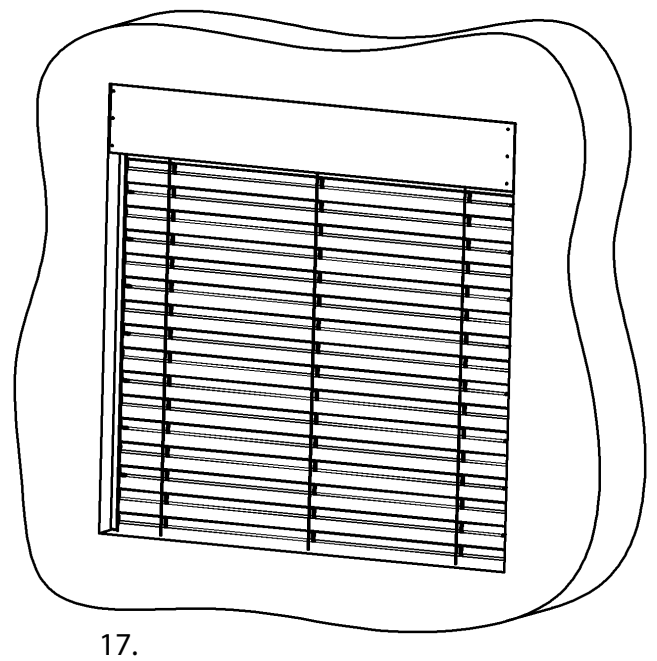
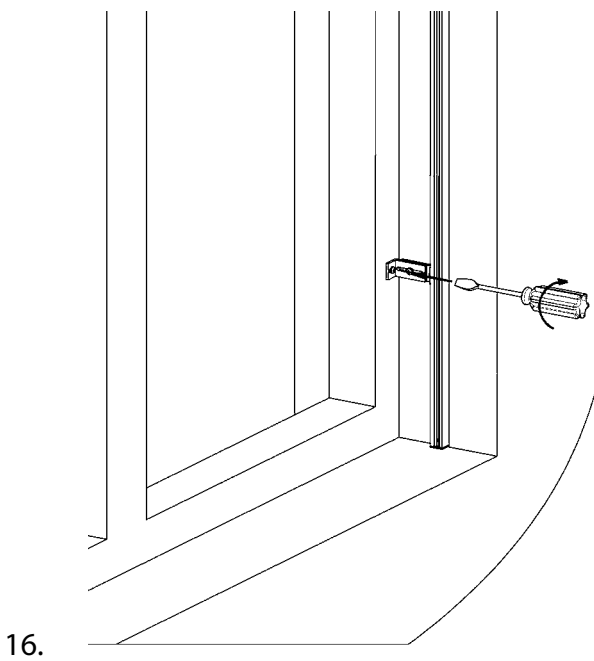
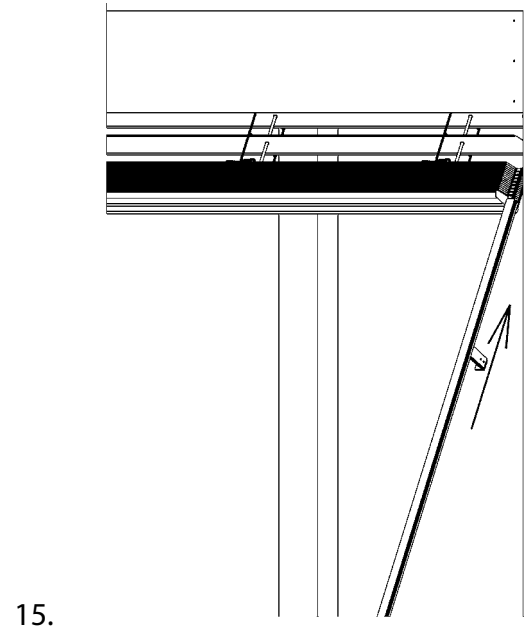
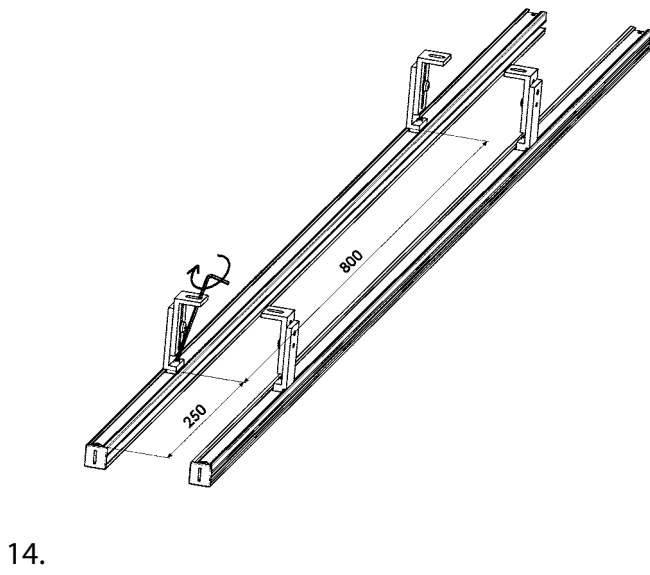
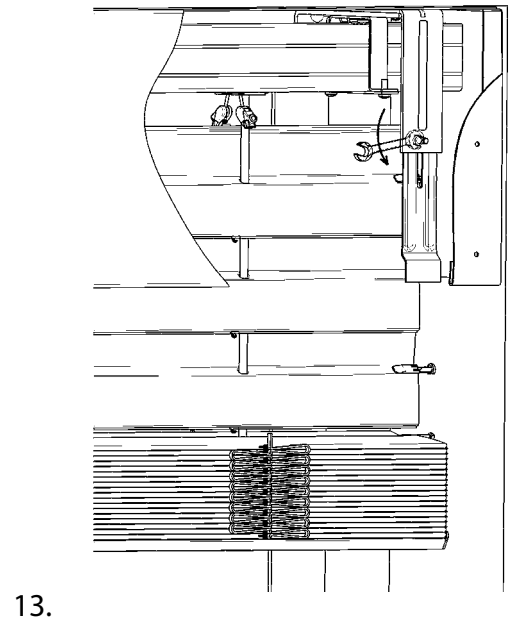
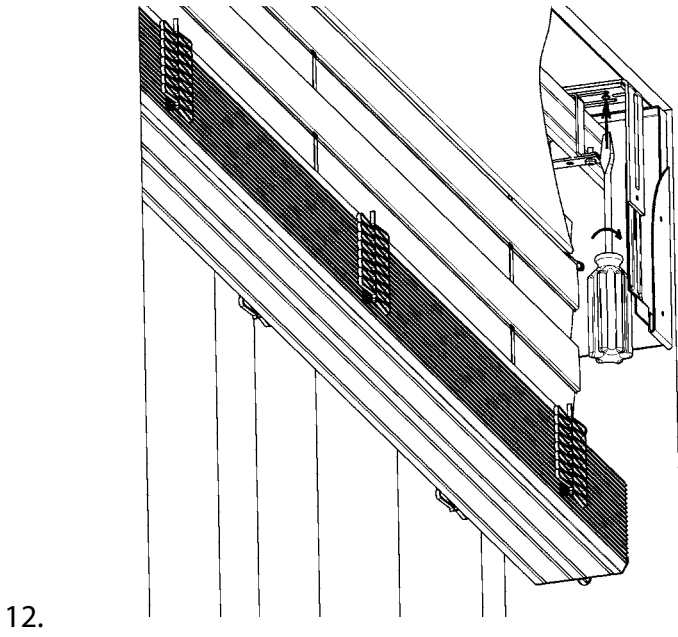
9.



10.

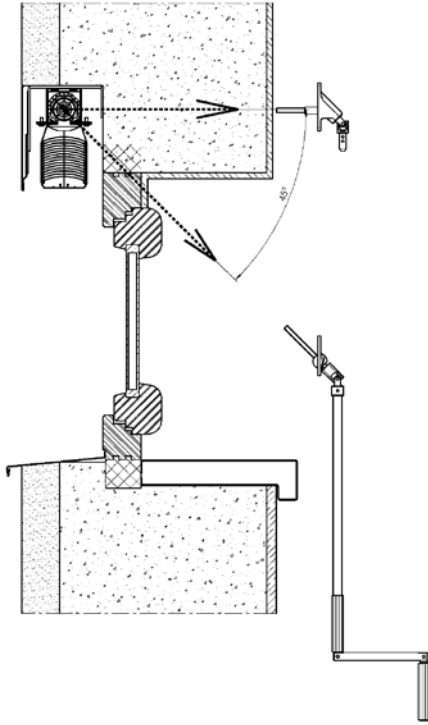


11.

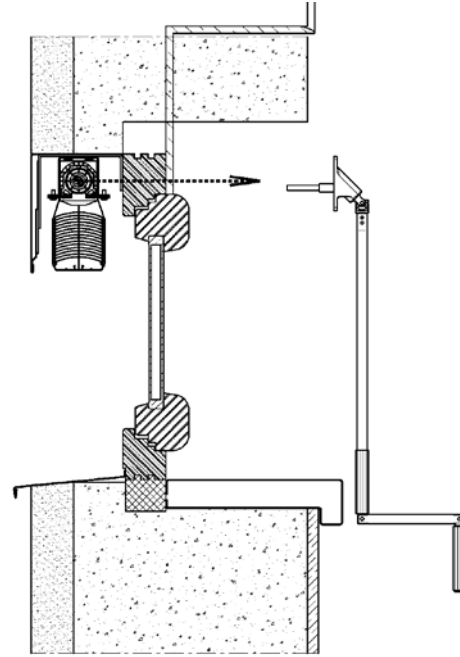


Basic types of assembly

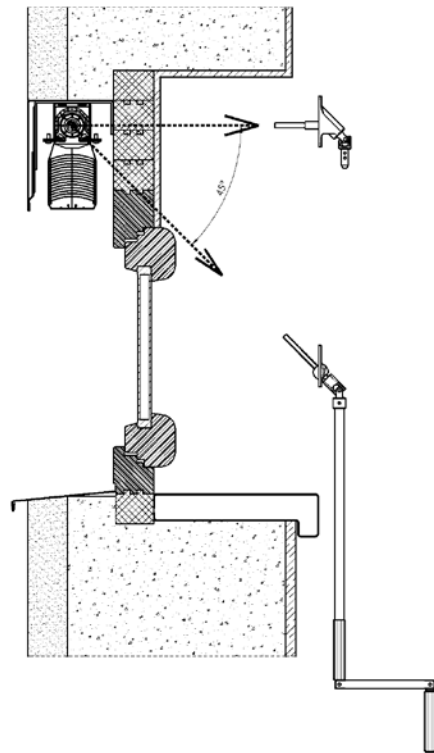
Assembly of the blind into the created pocket (ceiling/wall)



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.

Note:

For correct guiding wire tensioning follow the process below:

1. After choosing the correct position of wire guiding bracket and its screwing it is necessary to release the plastic housing with female screw up to edge of the tensioning screw thread (unscrew).
2. Put the wire through the tensioning screw.
3. Push the whole tensioning mechanism upwards to the bracket body, hold the wire in slightly tensioned position and fix it with M4 screw with cross-point screwdriver.
4. Turn the plastic housing by 3-4 turns and tension the wire. Remove the waste wire below the bracket.

It is necessary to keep prestressed 2mm tolerance between upper part of wire bracket and lower part of tensioning screw.

By following the above steps you will assure correct wire guiding tension.

Self-Supporting Blind VIVA

Blind with self-supporting guiding channels and a possibility to integrate an insect screen.

The blind's head rail and the whole slat packet are located in the ready-made box in two versions, in a concealed or revealed finish. Sockets for connecting with the supporting rails are located on the box sides. In case of the concealed version (under plastering), the front as well as the inner side of the box can be fitted with hardened polystyrene foam of 15 mm thickness.

The blind can only be installed in the version with self-supporting guiding channels.

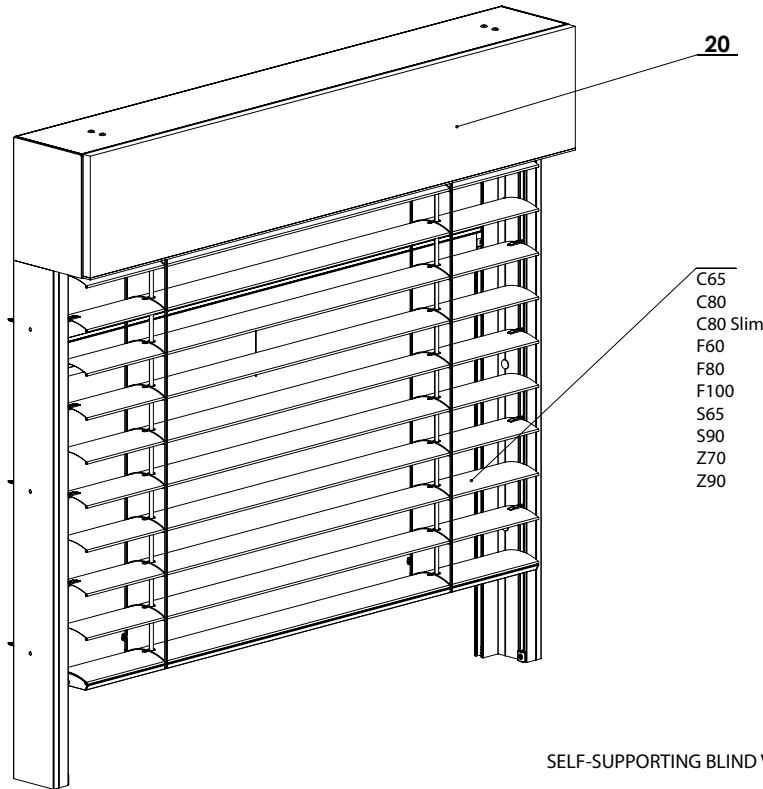
Controls: pulling the blind up and down and setting the slat by motor. The controls can be located anywhere into the box.

Version suitable for all types of exterior blinds except Cetta 50.

Standard height of cover box: 190mm, 220 mm, 260 mm, 300 mm.

Box, guide and bottom rails possible in DECORAL and RAL version.

Wide variability of pleated combined guide rails (up to 42 variants).



Blind dimensions:

	Width (mm)		Height (mm) min.	Guaranteed area (m ²)
	min.	max.		max.
without insect screen	600	4000*	500	12
with insect screen	720	1800	500	3

*If the width is bigger than 3500 mm reinforcement profile is added into the box therefore stacking height is increased by 20 mm

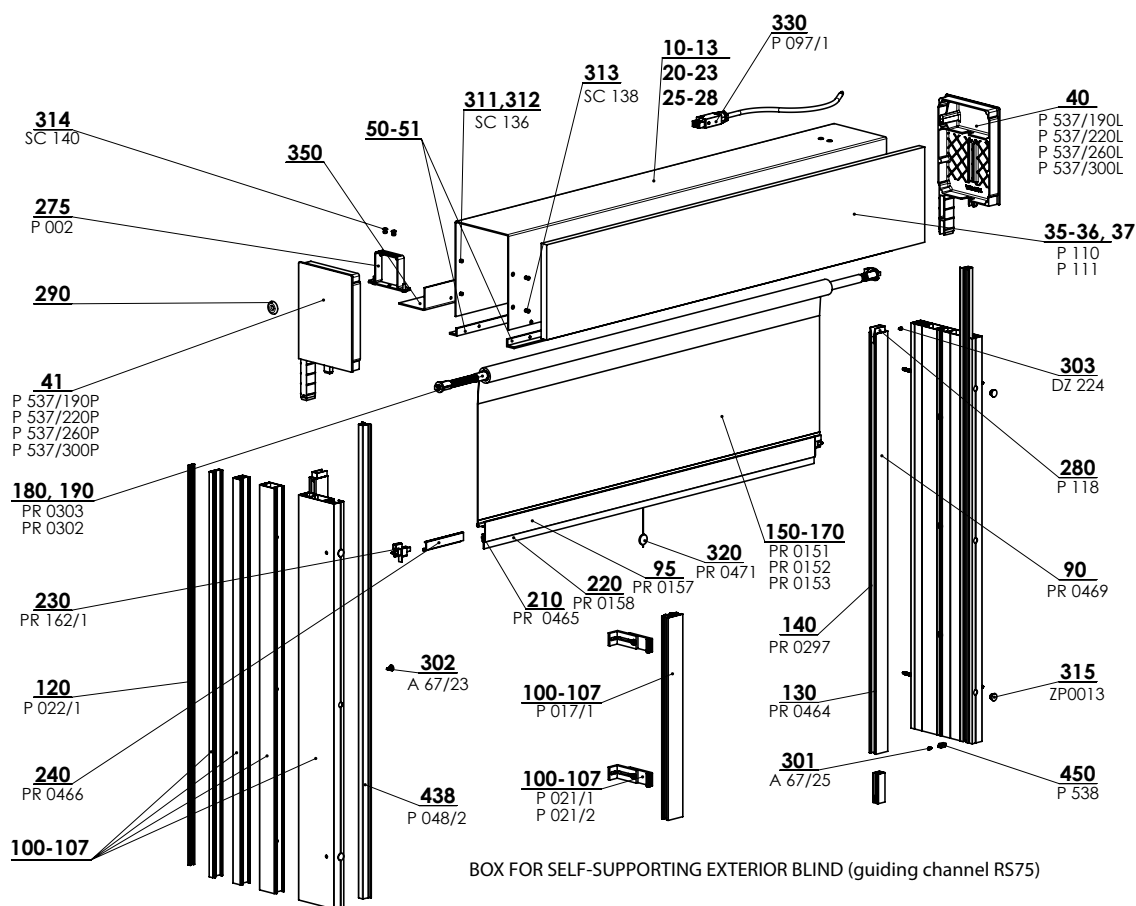
Maximum height of blind (in mm) by the type of slats for the selected dimension of box (without an insect screen)

Blind type / Height of the box in mm	190	220	260	300	300* (w. b. ↑ 3500)	Max. area [m ²]
C65	900	1300	1800	2400	2100	9
C80	1100	1500	2200	2800	2400	11
C80 Slim	1300	1800	2600	3300	2900	12
F60	1400	1900	2700	3500	3100	14
F80	1800	2500	3500	4500	4000	14
F100	2000	2900	4100	5300	4700	16
S65	900	1300	1800	2300	2100	9
S90	1300	1900	2600	3400	3000	12
Z70	1000	1400	2000	2600	2300	10
Z90	1200	1700	2500	3200	2800	12

*a reinforcing profile is installed in the box by the width of blind bigger than 3500 mm

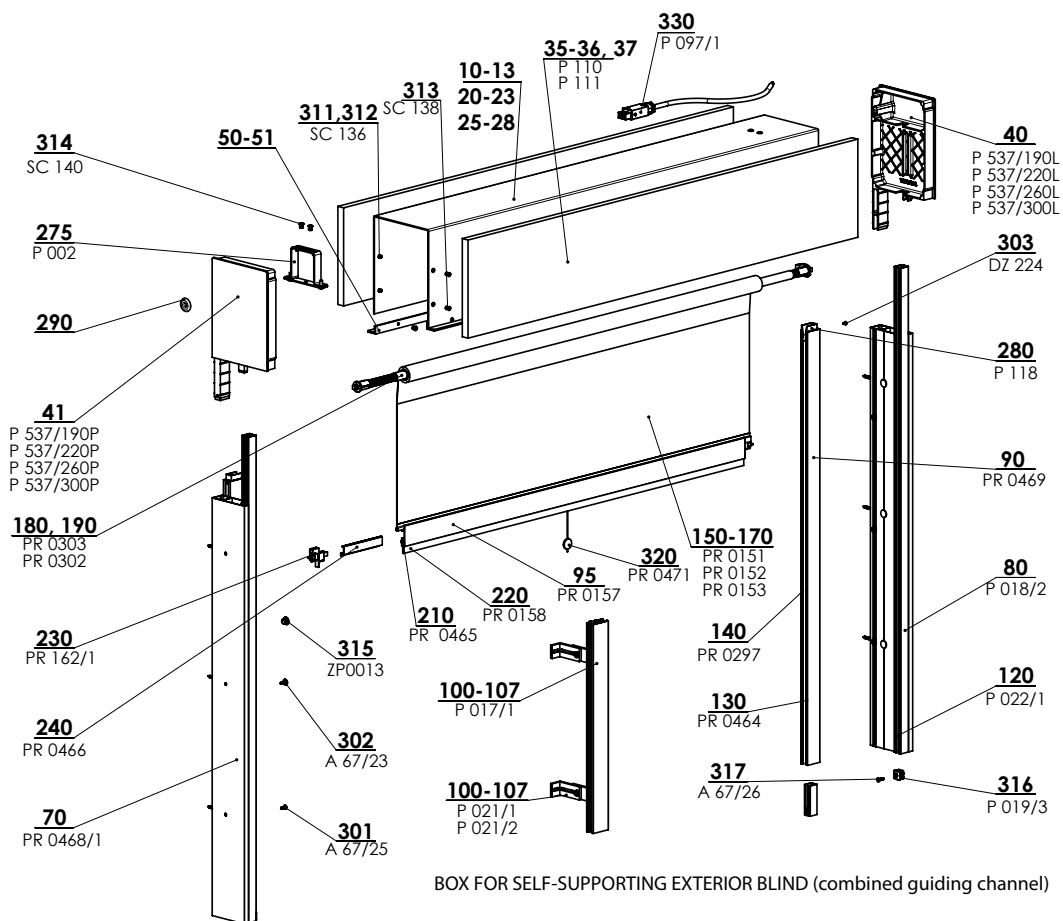
Note: Maximum height of the self-supporting blind VIVA with insect screen is 2500 mm.

Self-Supporting Blind



BOX FOR SELF-SUPPORTING EXTERIOR BLIND (guiding channel RS75)

2-01016-XXXX-D



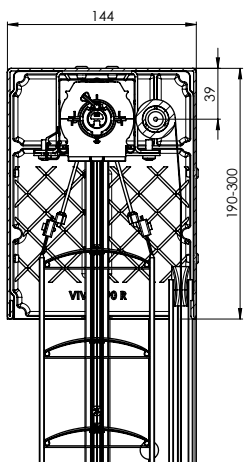
BOX FOR SELF-SUPPORTING EXTERIOR BLIND (combined guiding channel)

2-01016-XXXX-D

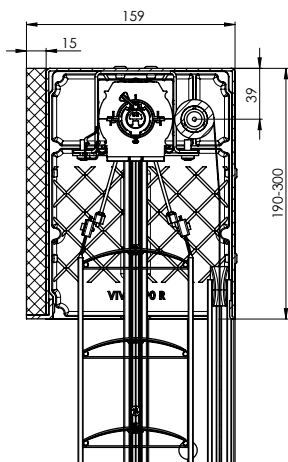
Box for self-supporting exterior blind (2-01016-XXXX)

Position	Item	Business Name	Drawing Number
10 - 13	Cover sheet 190/220/260/300 PS		3-02333/34/35/36-PU11
20 - 23	Cover sheet 190/220/260/300 visible		3-02337/38/39/40-PU11
25 - 28	Cover sheet 190/220/260/300 2 PS		3-02423/24/25/26-PU11
35 - 36	Foam polystyrene EPS200S 190/220/260/300 x 10 x L bm	P 110/190,220,260,300	6-015901-XXXX
37	Hybrifix - 600 ml IDB (MS Unifix) - whit, glue	P 111	6-012304-0000
40	Sidewall 190 left, cast - VIVA	P 537/190L/220L/260L/300L	7-303226/28/30/32-0000
41	Sidewall 190 right, cast - VIVA	P 537/190P/220P/260P/300P	7-303225/27/29/31-0000
50 - 51	Al Profile, L - 20x15x3 SEGMENTED (RAL)		3-03351-PU11
70/10	Guide rail RS 75/1	PR0468/1	7-303417-0000
80/10, 11	Guide rail profile, simple RAW / ELOX	P 018/2XX 0000/PU52	7-302122-0000/PU52
90/10, 20	Guide rail A 22 COLOURLESS	PR0469	6-011268-0000
95	End rail of the lower rail-I	PR0157	3-01139-PU11
100 - 107	Guide rail profile, double RAW / ELOX	P 017/1X 0000/PU52	7-302123-0000/PU52
100 - 107	Guide rail holder 75-102mm	P 021/1	2-00051-XXXX
100 - 107	Guide rail holder 102-154mm	P 021/2	2-00051-XXXX
100 - 107	Guide rails - combined		see page148
120	Guide rail insert- KEDR - BLACK	P 022/1 9004	7-301351-9004
130	Blackout sealing brush 9mm	PR0464	6-001801-0000
140	Oblique brush - for guide rail A20	PR0297	6-006875-0000
150-170	Insect screen ISG 600x130/170/250 cm	PR 151/152/153	6-001939/37/38-0000
180	Spring mechanics - up to width 720 without brake	PR0303	6-010476-0000
190	Spring mechanics - from width 720 with brake	PR0302	6-010475-0000
210	Lower rail brush-I at the back 12,5 mm	PR0465	6-011337-0000
220	Lower rail brush-I 4,8x20mm	PR0158	6-001749-0000
230	Easy-Click parts set for A 20	PR0162/1	6-001942-0000
240	Lower rail handle-I	PR0466	6-011245-0000
275	Upper rail hanger - Fe PROFILE	P 002	2-00038-0000
280	Screen start of EB	P 118	3-02301-0000
290	Rubber cable, plastic, black		6-017078-0000
301	Screw 2,9x9,5, DIN 7504 M, Zn, semi-spherical, cross-headed	A 67/25	6-011906-0000
302	Self-cutting screw with collar 4,2x13	A 67/23	6-011397-0000
303	Screw 2,9x6,5, DIN 7981 C,H, Zn, semi-spherical, cross-headed	DZ 224	6-003135-0000
311, 312	Blind rivet Al 4x10 DIN 7337 A, colourless	SC 136	6-002680-0000
313	Blind rivet Al 4x10, countersunk, DIN 7337 B, colourless	SC 138 0000	6-003759-0000
314	Blind rivet Al 5x10 DIN 7337 A, colourless	SC 140 0000	6-012369-0000
315	Cover caps 10mm, white	ZP0013/XXXX	6-002066-XXXX
316	Guide rail stop - set	P 019/3 9004	2-01097-9004
317	Screw 3,5x16 DIN 7982 C-H A2, countersunk, cross-headed	A 67/26	6-003097-0006
320	Cord with tassel - BLACK	PR0471	6-011033-0000
330	Cable Hirschmann 4000 mm	P 097/1 4000	2-01037-4000
350	Cover bent plate, VIVA,10 mm		3-03283-0010
438	Insert of under-plaster rail with pocket PVC BLACK / -4m	P 048/2 9017/90174	7-303507-9017/90174
450	Lower stopper	P 538/9004	3-03286-9004

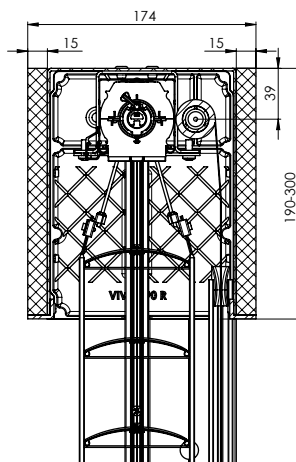
Upper profile cross section



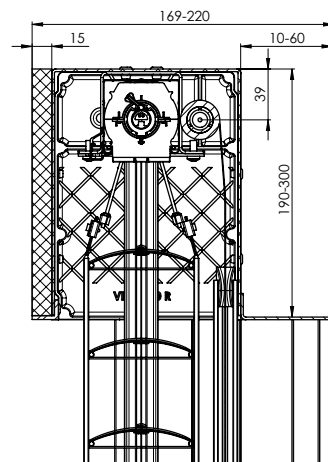
Cross section for the visible self-supporting blind Viva



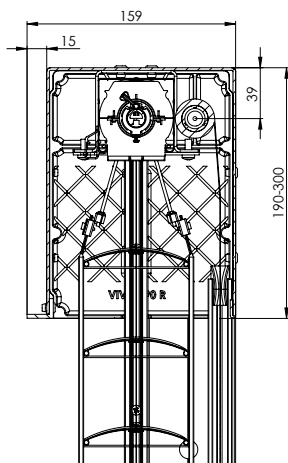
Cross section for the built-in self-supporting blind Viva



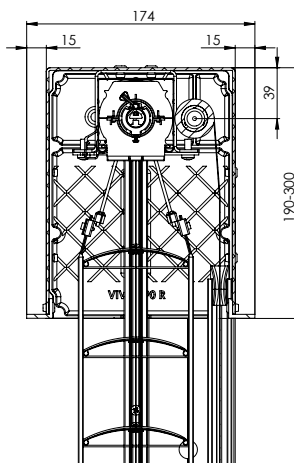
Cross section for the built-in self-supporting blind Viva (double polystyrene)



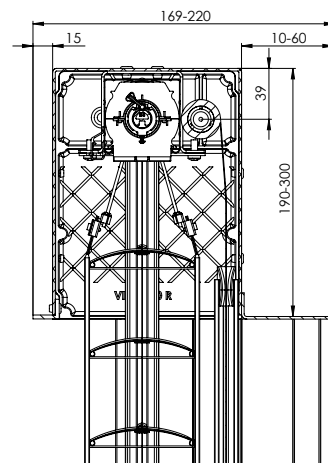
Cross section for the built-in self-supporting blind Viva (expansion profiles)



Cut of under plaster self-supporting blind VIVA (ready for polystyrene on front part)

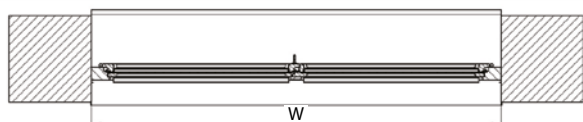
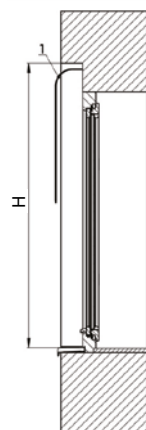
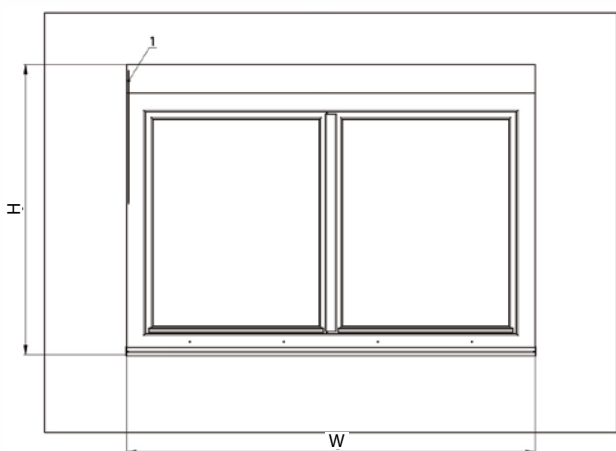


Cut of under plaster self-supporting blind VIVA (ready for polystyrene on both parts)




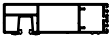
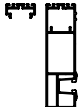
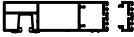
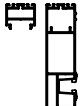
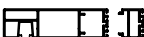
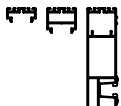

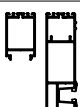
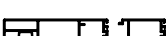
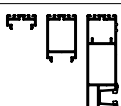

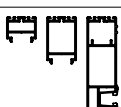
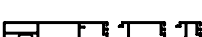
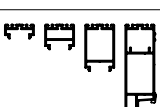
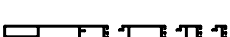


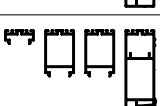

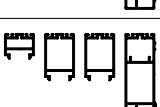

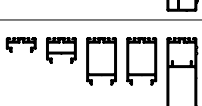

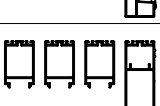

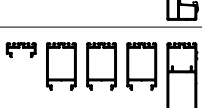

Cut of under plaster self-supporting blind VIVA (used for extension profiles - ready for polystyrene on front part)

Assessment of Self-Supporting Blind Viva








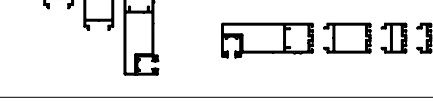








1 - kabel



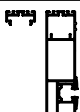
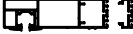
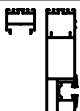

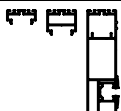
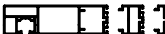
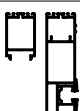
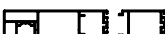
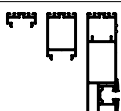

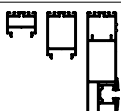

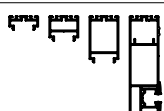

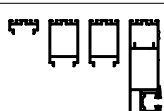

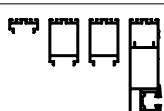
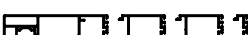
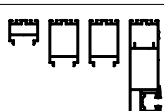

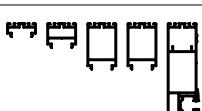

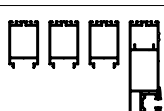
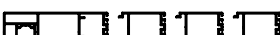


The table of combined guide channels

Dimension	Business name	Picture of guide channels	
76 mm	P 020/00		
86 mm	P 020/01		
96 mm	P 020/02		
106 mm	P 020/03		
116 mm	P 020/04		
126 mm	P 020/05		
136 mm	P 020/06		
146 mm	P 020/07		
156 mm	P 020/08		
166 mm	P 020/09		
176 mm	P 020/10		
186 mm	P 020/11		
196 mm	P 020/12		
206 mm	P 020/13		

The table of combined guide channels

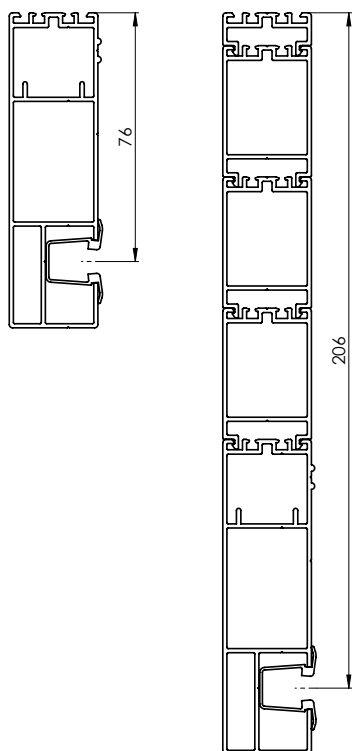
Dimension	Business name	Picture of guide channels
75 mm	P 080/00	
85 mm	P 080/01	
95 mm	P 080/02	
105 mm	P 080/03	
115 mm	P 080/04	
125 mm	P 080/05	
135 mm	P 080/06	
145 mm	P 080/07	
155 mm	P 080/08	
165 mm	P 080/09	
175 mm	P 080/10	
185 mm	P 080/11	
195 mm	P 080/12	
205 mm	P 080/13	

The table of combined guide channels

Dimension	Business name	Picture of guide channels	
76 mm	P 081/00		
86 mm	P 081/01		
96 mm	P 081/02		
106 mm	P 081/03		
116 mm	P 081/04		
126 mm	P 081/05		
136 mm	P 081/06		
146 mm	P 081/07		
156 mm	P 081/08		
166 mm	P 081/09		
176 mm	P 081/10		
186 mm	P 081/11		
196 mm	P 081/12		
206 mm	P 081/13		

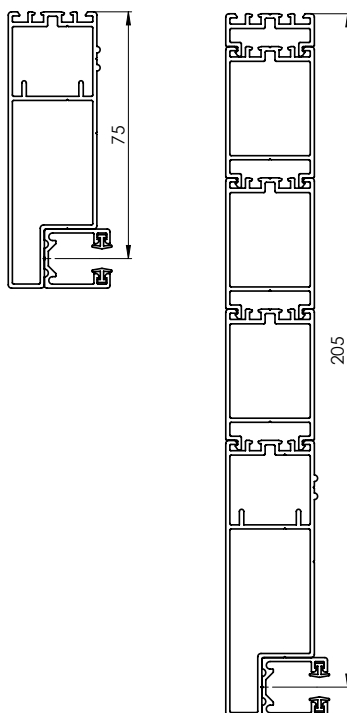
Basic profile P 020

Maximum possible extension of the basic profile P 020.



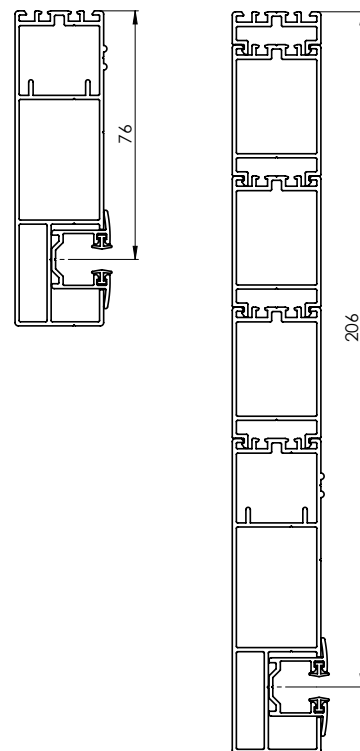
Basic profile P 080

Maximum possible extension of the basic profile P 080.



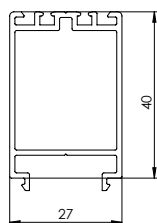
Basic profile P 081

Maximum possible extension of the basic profile P 081.

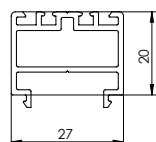


Expansion profiles for P 020, P 080, P 081

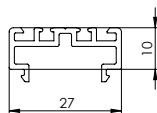
Expansion profile 40 mm P 048/40



Expansion profile 20 mm P 048/20

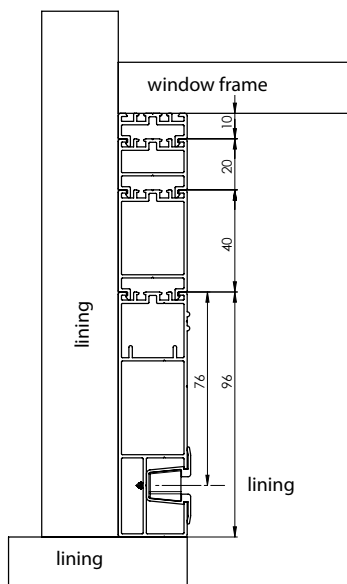


Expansion profile 10 mm P 048/10



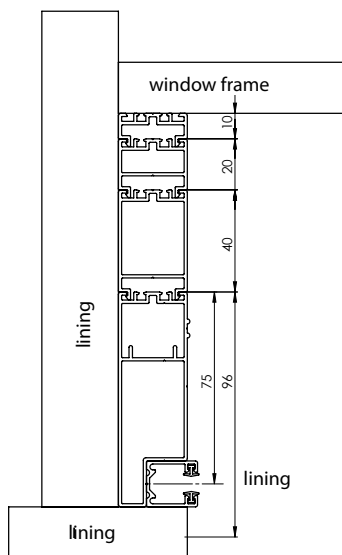
Combined guide channels P 020

The smallest dimension of the guide channels is 76 mm (that is, it is only about assembly of the concealing guide channel - see picture).



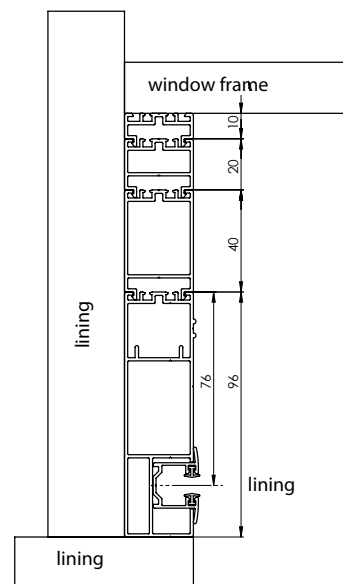
Combined guide channels P 080

The smallest dimension of the guide channels is 75 mm (that is, it is only about assembly of the concealing guide channel - see picture).



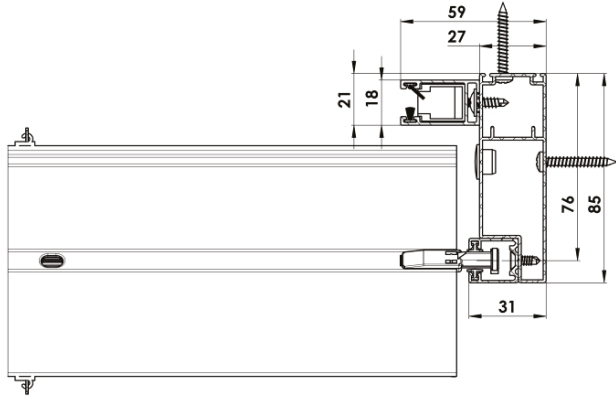
Combined guide channels P 081

The smallest dimension of the guide channels is 76 mm (that is, it is only about assembly of the concealing guide channel - see picture).

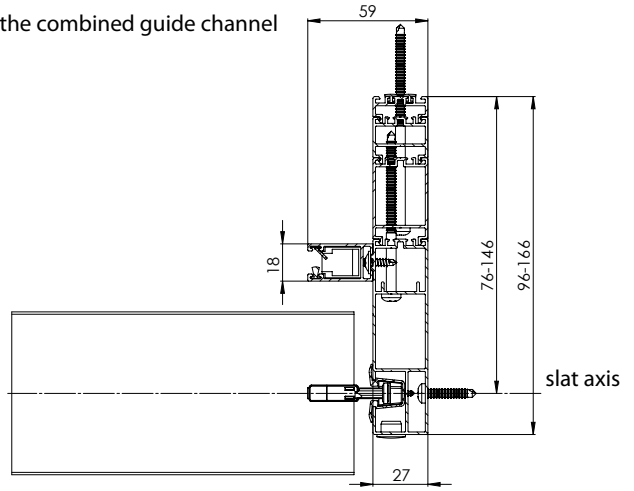


Cross section of the guide channel

Cross of the guide channel RS75



Cross of the combined guide channel



Control Placement

