



Member of PISLA GROUP

Vertex S.A. SUN PROTECTION SYSTEMS

External blinds
price list



2018

15.05.2018



EXTERNAL BLINDS

External blinds are designed by using innovative technology solutions. They are made with mind of necessity of architects, investors, distributors and final users. System of external blinds gives absolute possibility of configuration the lamella's position what helps keep insolation level under control.

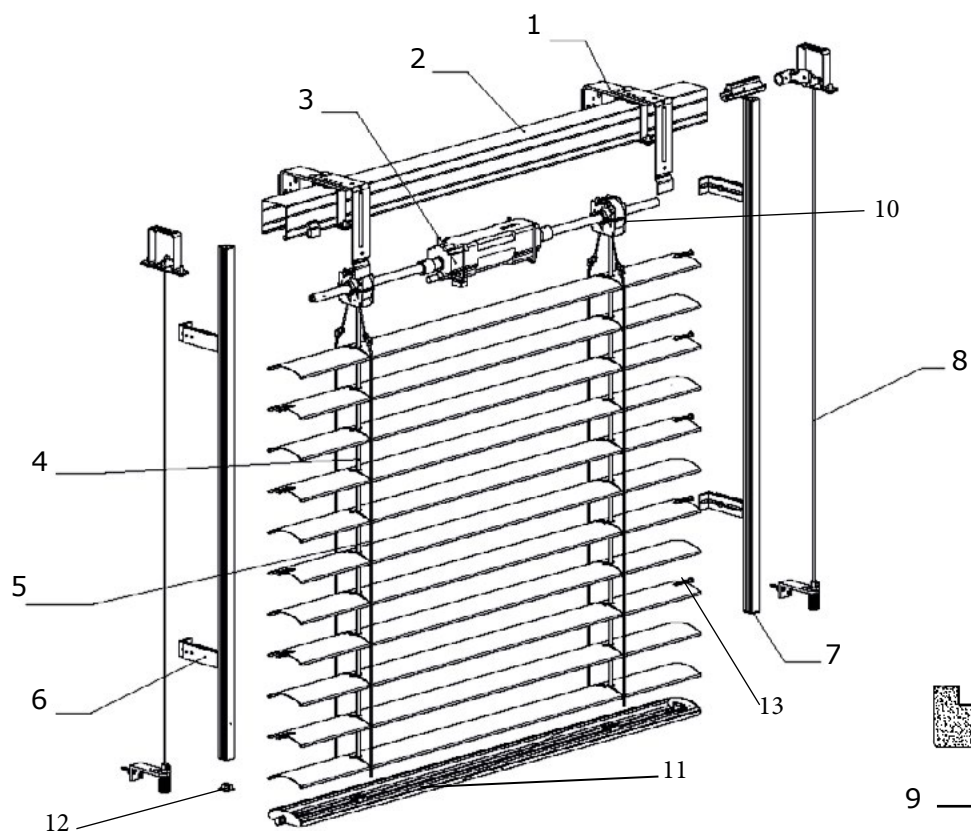
You can choose:

- type of lamella's,
- type of guiding rails (independent left and right),
- top hangers,
- type of cover sheet,
- operation.

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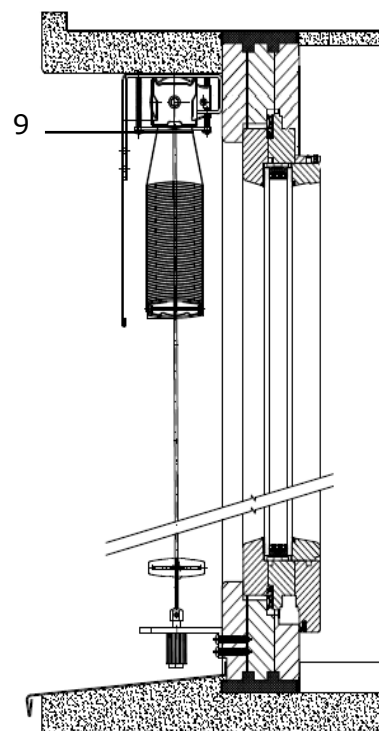
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I. General construction of external



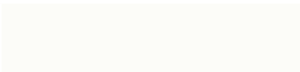
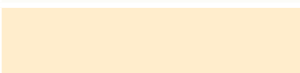
Definitions:

1. Top rail hanger
2. Motor
3. Tape
4. Ladder
5. Guiding rail handle
6. Guiding rail
7. Line
8. Cover sheet
9. Bearing
10. End list
11. Guiding rail cover
12. Pin



Description of each element with technical details in further part of price list.

II. Colours

Colors of lamella's C-80 and Z-90		Price group
RAL 9006		1
RAL 7016		1
RAL 9016		1
RAL 1015		1
RAL 8014		1
RAL 7035		1
RAL 9005		1
RAL 9007		1
DB 703		2*

*Extra 3% to add to price from table.

Presented colors are only based on sight. To choose the color, please use our Vertex samplebook.

Equipment colors

Element	Standard	Extra charges
Guiding rails and handles	table below	individual quotation
End list		
Cover sheets		
Tapes	Grey	Black
Ladders		

Standard colors from Vertex collection

RAL 1000	RAL 1001	RAL 1002	RAL 1004	RAL 1005	RAL 1006	RAL 1011	RAL 1013	RAL 1014	RAL 1015
RAL 1016	RAL 1018	RAL 1019	RAL 1024	RAL 1034	RAL 2000	RAL 2001	RAL 2010	RAL 3003	RAL 3004
RAL 3005	RAL 3011	RAL 3015	RAL 4003	RAL 4006	RAL 4009	RAL 5002	RAL 5003	RAL 5005	RAL 5007
RAL 5009	RAL 5010	RAL 5011	RAL 5012	RAL 5013	RAL 5014	RAL 5015	RAL 5017	RAL 5018	RAL 5020
RAL 5023	RAL 5024	RAL 6000	RAL 6005	RAL 6009	RAL 6013	RAL 6019	RAL 6021	RAL 6027	RAL 6032
RAL 6033	RAL 6034	RAL 7001	RAL 7003	RAL 7004	RAL 7005	RAL 7006	RAL 7009	RAL 7011	RAL 7012
RAL 7013	RAL 7015	RAL 7016	RAL 7021	RAL 7022	RAL 7023	RAL 7024	RAL 7030	RAL 7031	RAL 7032
RAL 7035	RAL 7036	RAL 7037	RAL 7038	RAL 7039	RAL 7040	RAL 7042	RAL 7043	RAL 7044	RAL 7045
RAL 7046	RAL 7047	RAL 8001	RAL 8002	RAL 8003	RAL 8004	RAL 8007	RAL 8008	RAL 8011	RAL 8012
RAL 8014	RAL 8015	RAL 8016	RAL 8017	RAL 8019	RAL 8022	RAL 8025	RAL 8028	RAL 9001	RAL 9002
RAL 9003	RAL 9004	RAL 9005	RAL 9006	RAL 9007	RAL 9010	RAL 9011	RAL 9016	RAL 9017	

III. Types of external blinds

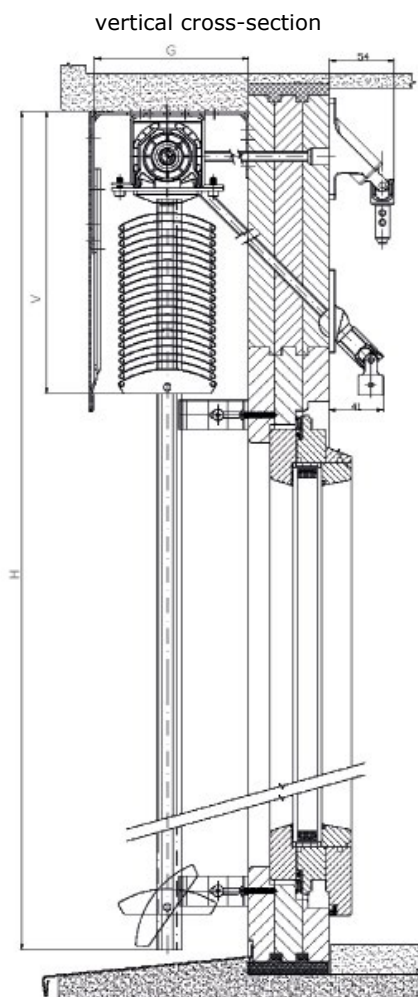
1. Lamella's C-80



External blind C-80 is equipped with aluminium lamellas: width 80 mm, thickness 0,42 mm, shape of „C“.

- Steel top rail 58x56 (galvanised)
- End list and guiding rails made with extruded aluminium
- Tape and ladder made with kevlar fibre (non-flammable fabric which resistant for stretching, breaking and mechanical damages)
- Aluminium lamellas in shape of „C“ made with sheet 0,42 mm

1.1. Technical details for C-80 lamellas



Definitions:

H- height of blind

V - height of batch

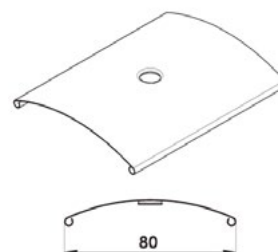
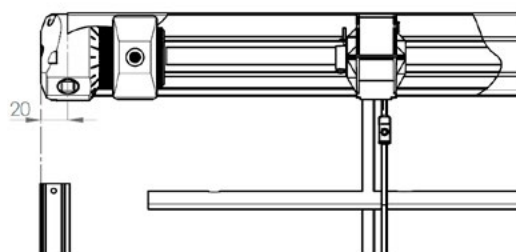
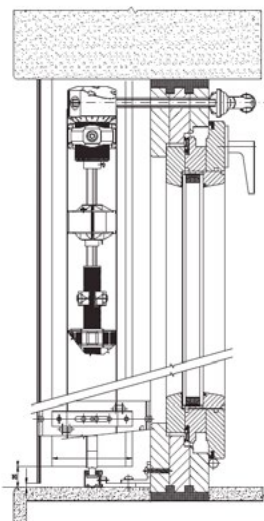
G - depth of cover sheet

(min. 130 mm, recommended 140 mm)

In standard:

- Guiding rails type 1 or 2 (in standard colors)
- Top rail hangers
- Lamellas C-80
- End list (in standard colors)
- Manual operation (crank with cardan joint 90°) or electrical operation (in standard Somfy J4WT motor or Geiger GJ56)

Top throw



Technical details

Minimal width	Maximal height	Maximal width	Maximal surface	
			Manual	Electrical
600 mm	4000 mm	4000 mm*	8 m ²	16 m ²

*Maximal surface for self-portable system is 2400 mm.

Width of blind (mm)	to 1300	1301-2200	2201-3100	3101-4000
Bearings quantity	2	3	4	5

1.2. Manual operation C-80 price list

Width																
Height	3 pairs of hangers	2 hangers						3 hangers						4 hangers		
		0,6	0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,25	3,5	3,75	4
		137	140	146	159	165	177	189	195	207	220	225	244	250	256	268
		144	148	155	169	175	189	202	209	223	236	243	263	270	277	291
		152	156	165	180	189	203	219	227	241	257	265	287	295	303	319
		159	165	175	192	202	217	235	244	260	277	287	310	320	330	347
		166	173	183	202	212	229	248	259	275	294	305	330	340	351	370
		174	181	193	214	225	243	264	276	294	315	326	353	365	377	397
		188	196	209	232	245	264	286	300	319	341	354	383	396	409	432
		195	204	218	242	256	276	300	314	334	358	372	402	416		
3 pairs of hangers	3 pairs of hangers	203	212	228	253	269	290	316	331	353	379	394				
		211	221	237	265	282	305	332	349	372	399					
		219	229	247	276	294	317	346	364	388						
		227	238	257	288	307	332	363	381							
4 pairs of hangers	4 pairs of hangers	234	247	267	299	320	346	379	399							
		241	254	275	309	330	358	392								
		249	263	285	321	343	372	408								

Price included:

- Blinds with lamellas in color of price group 1.
- Top rail hangers depends on width.
- Guiding rails type 1 or 2 in standard colors or line guiding.
- Guiding rail handles type L1 or L2 or L3 in standard color in quantity depends on width.
- Manual operation with crank.

Price excluded:

- Cover sheet.
- Sides for cover sheet.
-

Charge for self-portable system (to quotation we need total surface of blind with batch)	+57,50 EUR/m²
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All prices are net prices.

1.3. Electrical operation C-80 price list

Width																
	2 hangers						3 hangers			4 hangers			5 hangers			
	0,6	0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,25	3,5	3,75	4	
Height	0,5	169	173	179	191	197	209	222	240	252	258	277	283	289	301	
	0,75	176	181	187	201	208	221	235	255	269	276	296	303	310	324	
	1	184	189	197	213	221	236	251	274	289	298	320	328	336	352	
	1,25	192	198	207	225	234	250	267	293	310	320	343	353	362	380	
	1,5	199	205	216	235	245	262	281	308	327	337	362	373	383	402	
	1,75	207	214	226	246	258	276	297	327	347	359	386	398	410	430	
	2	221	229	242	264	277	297	319	352	374	387	416	429	442	464	
	2,25	228	236	250	274	288	309	333	367	391	405	435	449	463	487	
	2,5	236	245	260	286	301	323	349	386	411	427	459	474	489	544	
	2,75	243	253	270	298	314	337	365	404	432	448	482	499	545	572	
4 pairs of hangers	3	251	262	280	309	326	350	379	421	450	467	502	549	567	596	
	3,25	259	271	290	320	339	364	395	439	470	489	555	574	593	624	
	3,5	267	279	299	332	352	379	411	458	491	540	579	599	619	652	
	3,75	274	287	308	342	363	391	425	473	537	558	598	619	641	675	
4	282	295	318	354	376	405	441	463	521	557	580	622	644	667	703	

Charges for motor		Price (EUR/pce.)	
GJ56	Motor Geiger	6 Nm	10 Nm
	mechanical limiters	incl. In price	
JA Soft	Motor Elero	6 Nm	9 Nm
	mechanical limiters, noiseless	incl. In price	
JA Comfort	Electronical limiters	39,00	26,30
JA Comfort-868	Radio	72,50	67,50
J4 WT	Motor Somfy	6 Nm	10 Nm
	Electronical limiters	incl. In price	
J4 WT Protect	Obstacles and ice detection	9,80	13,80
J4 WT RTS i IO	Radio and IO	118,30	103,30
J4 IO Protect	IO with obstacle and ice detection	129,30	114,30
Electronics		page 33	

Price included:

- Blinds with lamellas in color of price group 1.
- Top rail hangers depends on width.
- Guiding rails type 1 or 2 in standard colors or line guiding.
- Guiding rail handles type L1 or L2 or L3 in standard color in quantity depends on width.
- Motor Somfy J4WT(cable) or Geiger GJ56.

Price excluded:

- Cover sheet.
- Sides for cover sheet.

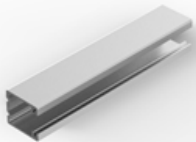
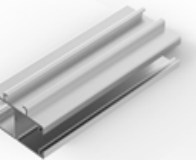
Note: price excluded maneuvering (remote controls, switches).

All prices are net prices.

Charge for self-portable system (to quotation we need total surface of blind with batch)	+57,50 EUR/m²
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1.4. Charges for external blinds C-80

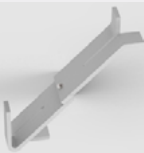
Lamellas color	Price
Price group 1	incl. in price
Price group 2	+3%

Guiding rails		One-side (EUR/lm of height)	Two-sides (EUR/lm of height)
	Type 1 or 2	incl. in price	
	Type PT (2 parts set)	7,50 EUR/lm	15,00 EUR/lm
	Type D2	8,00 EUR/lm	16,00 EUR/lm
	Line guiding	incl. in price	

Guiding rails handles		Price (EUR/pce)	
	Type L1 (55-74 mm)	incl. in price	3,30 EUR/pce
	Type L2 (73-102 mm)	incl. in price	3,30 EUR/pce
	Type L3 (103-154 mm)	incl. in price	3,30 EUR/pce
	Type T1 (103-170 mm)	extra	9,50 EUR/pce
	Type T2 (171-295 mm)	extra	11,50 EUR/pce

All prices are net prices.

1.4. Charges for C-80

Angle connector in standard color from Vertex collection		One-side	
	external (70-80 mm)	extra	12,50 EUR/pce
	external (80-100 mm)	extra	13,30 EUR/pce
	internal (58-76 mm)	extra	13,30 EUR/pce
	external (100-140 mm)	extra	15,00 EUR/pce
	internal (76-117 mm)	extra	15,00 EUR/pce
	Connecting profile (obligatorily with using connectors)	extra	28,80 EUR/lm

Colors of remaining parts	Price
Guiding rails in extra color	Individual quotation
End list in extra color	Individual quotation
Black tape and ladder	6,30 EUR/ pce of blind

All prices are net prices.

1.5. Height of batch and cover sheets price list

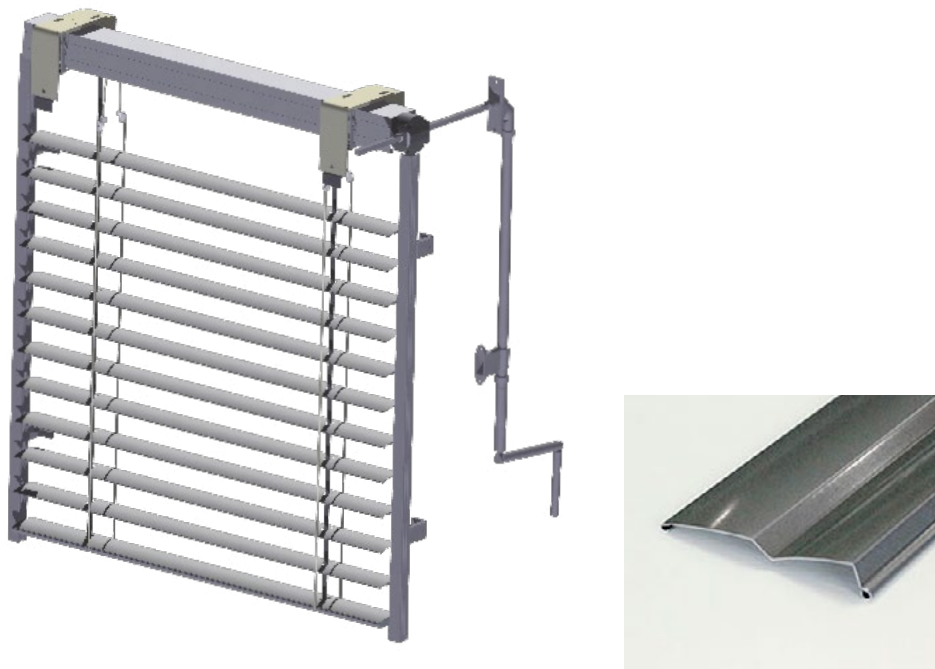
Height of blind (mm)	Height of batch		Range of cover sheets height (mm)	Cover sheets (EUR/lm)				Sides for cover sheets (EUR/pair)
	Manual (mm)	Electrical (mm)		Type 0	Type 1 A, 1 B	Type 2	Type 3 A, 3 B, 3 C	
Do 500	130	150	to 190	21,50 EUR/lm	26,50 EUR/lm	27,30 EUR/lm	40,30 EUR/lm	12,50 EUR/pair
501-600	140	160						
601-700	145	165						
701-800	155	175	to 240	23,80 EUR/lm	28,80 EUR/lm	29,80 EUR/lm	45,00 EUR/lm	
801-900	155	175						
901-1000	165	185						
1001-1100	170	190						
1101-1200	180	200						
1201-1300	185	205						
1301-1400	190	210	to 290	26,00 EUR/lm	31,00 EUR/lm	32,00 EUR/lm	49,80 EUR/lm	
1401-1500	195	215						
1501-1600	205	225						
1601-1700	210	230						
1701-1800	215	235						
1801-1900	225	245						
1901-2000	230	250						
2001-2100	235	255						
2101-2200	240	260	to 340	28,50 EUR/lm	33,50 EUR/lm	34,50 EUR/lm	54,50 EUR/lm	
2201-2300	250	270						
2301-2400	255	275						
2401-2500	265	285						
2501-2600	265	285						
2601-2700	275	295						
2701-2800	280	300						
2801-2900	290	310						
2901-3000	295	315	to 390	30,80 EUR/lm	35,80 EUR/lm	36,80 EUR/lm	59,00 EUR/lm	
3001-3100	300	320						
3101-3200	305	325						
3201-3300	315	335						
3301-3400	320	340						
3401-3500	325	345						
3501-3600	335	355						
3601-3700	340	360	to 440	33,30 EUR/lm	38,30 EUR/lm	39,00 EUR/lm	63,80 EUR/lm	
3701-3800	345	365						
3801-3900	350	370						
3901-4000	360	380						

* to calculate height of cover sheet we suggest to add 35 mm to batch height (table above) – it enable to cover top rail hangers and make sure that batch will be behind cover sheet.

All prices are net prices.



2. Z-90 external blinds

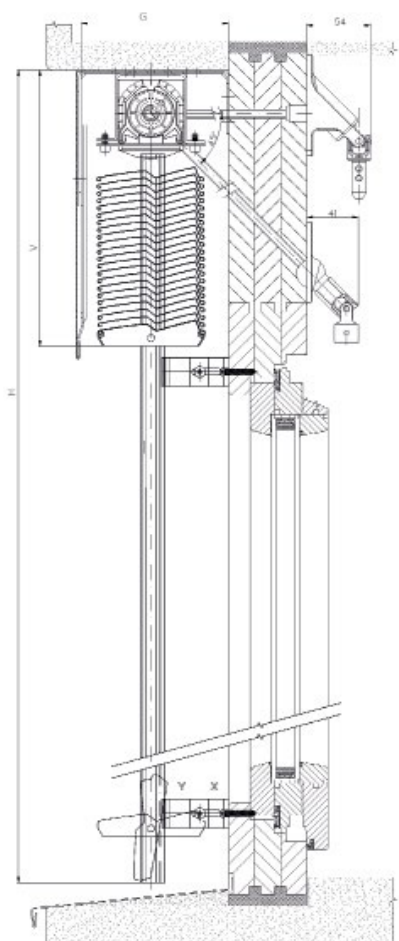


Aluminium lamellas in shape of „Z” made with sheet 0,42 mm (painting with polyester paint – smooth). Z-90 after total closing makes hermetic curtain, disobedient for sun-beam, Lamellas have on whole lenght a gum seal which helps with total closing and noiseless blind working.

- Steel top rail 58x56 (galvanised).
- End list and guiding rails made with extruded aluminium.
- Tape and ladder made with kevlar fibre (non-flammable fabric which resistant for stretching, breaking and mechanical damages).
- Aluminium lamellas in shape of „Z” made with sheet 0,42 mm.

2.1. Technical details for Z-90

vertical cross-section



Definitions:

H- height of blind

V - height of batch

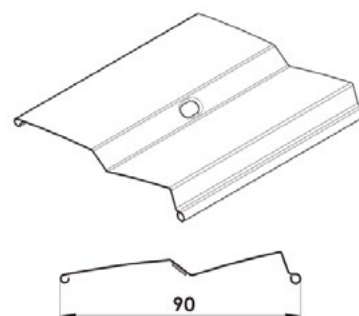
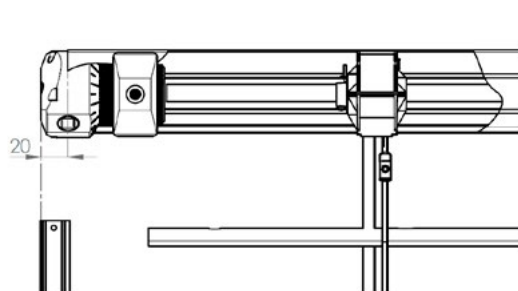
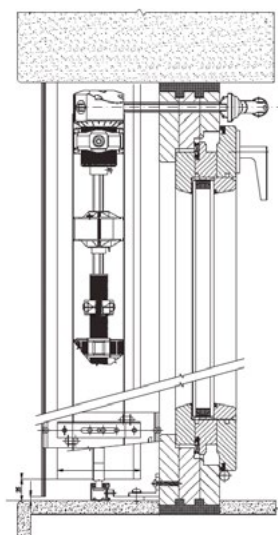
G - depth of cover sheet

(min. 130 mm, recommended 140 mm)

In standard:

- guiding rails type 1 or 2 (in standard colors)
- Top rail hangers
- Lamellas Z-90
- End list (in standard colors)
- Manual operation (crank with cardan joint 90°) or electrical operation (in standard Somfy J4WT motor or Geiger GJ56)

Top throw



Technical details

Minimal width	Maximal height	Maximal width	Maximal surface	
			Manual	Electrical
600 mm	4000 mm	4000 mm*	8 m ²	16 m ²

*Maximal surface for self-portable system is 2400 mm.

Width of blind (mm)	to 1200	1201-2000	2001-2800	2801-3600	up 3600
Bearings quantity	2	3	4	5	6

2.2. Manual operation for Z-90 price list

Width															
2 hangers								3 hangers							
0,6	0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,25	3,5	3,75	4	
0,5	154	160	167	183	190	206	213	229	243	252	280	289	305	312	
0,75	164	171	181	199	209	227	236	255	270	282	314	326	344	354	
1	173	181	192	213	224	244	254	276	292	306	341	355	376	387	
1,25	184	195	207	233	245	268	281	306	325	342	382	399	424	436	
1,5	191	203	217	244	257	282	295	322	342	360	403	421	448	461	
1,75	203	216	232	263	279	306	322	353	375	396	443	464	495	511	
2	217	233	249	283	300	329	346	380	403	426	477	500	533	550	
2,25	228	244	263	300	318	350	369	406	431	456	511	537			
2,5	236	254	274	314	334	367	387	427	453	480					
2,75	247	268	290	333	355	392	414	457	485	516					
3	257	279	302	348	371	410	433	479	508						
3,25	267	290	315	364	389	431	456	505							
3,5	276	300	327	378	404	448	474	526							
3,75	286	312	340	395	423	469	497								
4	295	322	351	409	438	486	515								

Price included:

- Blinds with lamellas in color of price group 1.
- Top rail hangers depends on width.
- Guiding rails type 1 or 2 in standard colors or line guiding.
- Guiding rail handles type L1 or L2 or L3 in standard color in quantity depends on width.
- Manual operation with crank.

Price excluded:

- Cover sheet.
- Sides for cover sheet.

Charge for self-portable system
(to quotation we need total surface of blind with batch)

+ 57,50 EUR/m²

All prices are net prices.

2.3. Electrical operation for Z-90 price list

Width															
2 hangers								3 hangers							
0,6		0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,25	3,5	3,75	4
Height	0,5	187	193	200	216	223	246	262	275	284	299	312	321	337	345
	0,75	197	204	213	232	241	269	288	303	315	331	346	358	377	386
	1	205	214	225	246	256	287	308	325	339	357	374	387	409	419
	1,25	217	227	240	265	278	313	339	358	374	395	414	431	456	469
	1,5	224	236	249	276	290	328	355	375	393	415	435	453	481	494
2 pairs of hangers	1,75	235	249	265	296	311	354	385	407	429	454	476	497	528	544
	2	250	265	282	316	333	379	412	436	459	486	509	532	566	583
	2,25	260	277	296	333	351	402	439	463	489	519	544	569	606	625
3 pairs of hangers	2,5	269	287	307	346	366	420	459	485	513	545	571	598	638	687
	2,75	280	300	322	366	388	447	490	518	549	583	611	642	715	737
	3	290	311	335	380	404	466	512	541	574	610	640	702	748	771
4 pairs of hangers	3,25	300	323	348	397	422	488	537	569	604	643	703	739	788	812
	3,5	309	333	359	411	437	507	558	591	628	698	731	768	819	845
	3,75	319	345	373	427	455	529	584	618	688	730	765	804	859	887
	4	327	355	384	441	470	548	605	670	712	756	792	834	891	920

Price included:

- Blinds with lamellas in color of price group 1.
- Top rail hangers depends on width.
- Guiding rails type 1 or 2 in standard colors or line guiding.
- Guiding rail handles type L1 or L2 or L3 in standard color in quantity depends on width.
- Motor Somfy J4WT(cable) or Geiger GJ56.

Price excluded:

- Cover sheet.
- Sides for cover sheet.

Note: price excluded maneuvering (remote controls, switches).

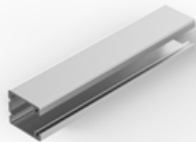
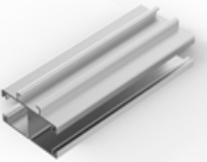
Charges for motor		Price (EUR/pce.)	
GJ56	Motor Geiger	6 Nm	10 Nm
	mechanical limiters	incl. In price	
JA Soft	Motor Elero	6 Nm	9 Nm
	mechanical limiters, noiseless	incl. In price	
JA Comfort	Electronical limiters	39,00	26,30
JA Comfort-868	Radio	72,50	67,50
J4 WT	Motor Somfy	6 Nm	10 Nm
	Electronical limiters	incl. In price	
	Obstacles and ice detection	9,80	13,80
	Radio and IO	118,30	103,30
J4 IO Protect	IO with obstacle and ice detection	129,30	114,30
Electronics		page 33	

All prices are net prices.

Charge for self-portable system (to quotation we need total surface of blind with batch).	+57,50 EUR/m²
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2.4. Charges for Z-90

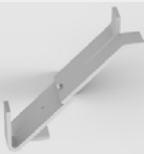
Lamellas color	Price
Price group 1	incl. in price
Price group 2	+3%

Guiding rails		One-side (eur/lm of height)	Two-sides (eur/lm of height)
	Type 1 or 2	incl. in price	
	Type PT (2 parts set)	7,50 EUR/lm	15,00 EUR/lm
	Type D2	8,00 EUR/lm	16,00 EUR/lm
	Line guiding	incl. in price	

Guiding rails handles		Price (EUR/pce)	
	Type L1 (55-74 mm)	incl. in price	3,30 EUR/pce
	Type L2 (73-102 mm)	incl. in price	3,30 EUR/pce
	Type L3 (103-154 mm)	incl. in price	3,30 EUR/pce
	Type T1 (103-170 mm)	extra	9,50 EUR/pce
	Type T2 (171-295 mm)	extra	11,50 EUR/pce

All prices are net prices.

2.4. Charges for Z-90

Angle connector in standard color from Vertex collection		One-side	
	external (70-80 mm)	extra	12,50 EUR/pce
	external (80-100 mm)	extra	13,30 EUR/pce
	internal (58-76 mm)	extra	13,30 EUR/pce
	external (100-140 mm)	extra	15,00 EUR/pce
	internal (76-117 mm)	extra	15,00 EUR/pce
	Connecting profile (obligatorily with using connectors)	extra	28,80 EUR/pce

Colors of remaining parts	Price
Guiding rails in extra color	Individual quotation
End list in extra color	Individual quotation
Black tape and ladder	6,30 EUR pce of blind

All prices are net prices.

2.5. Height of batch and cover sheets price list

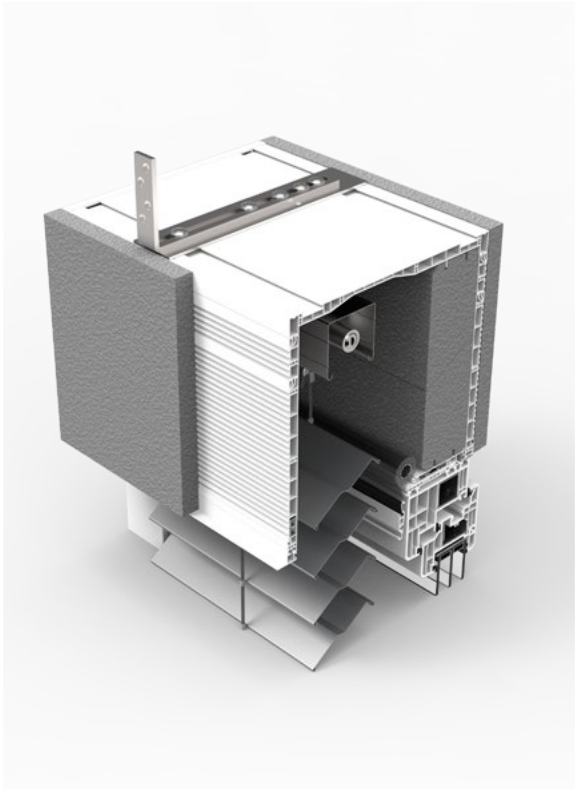
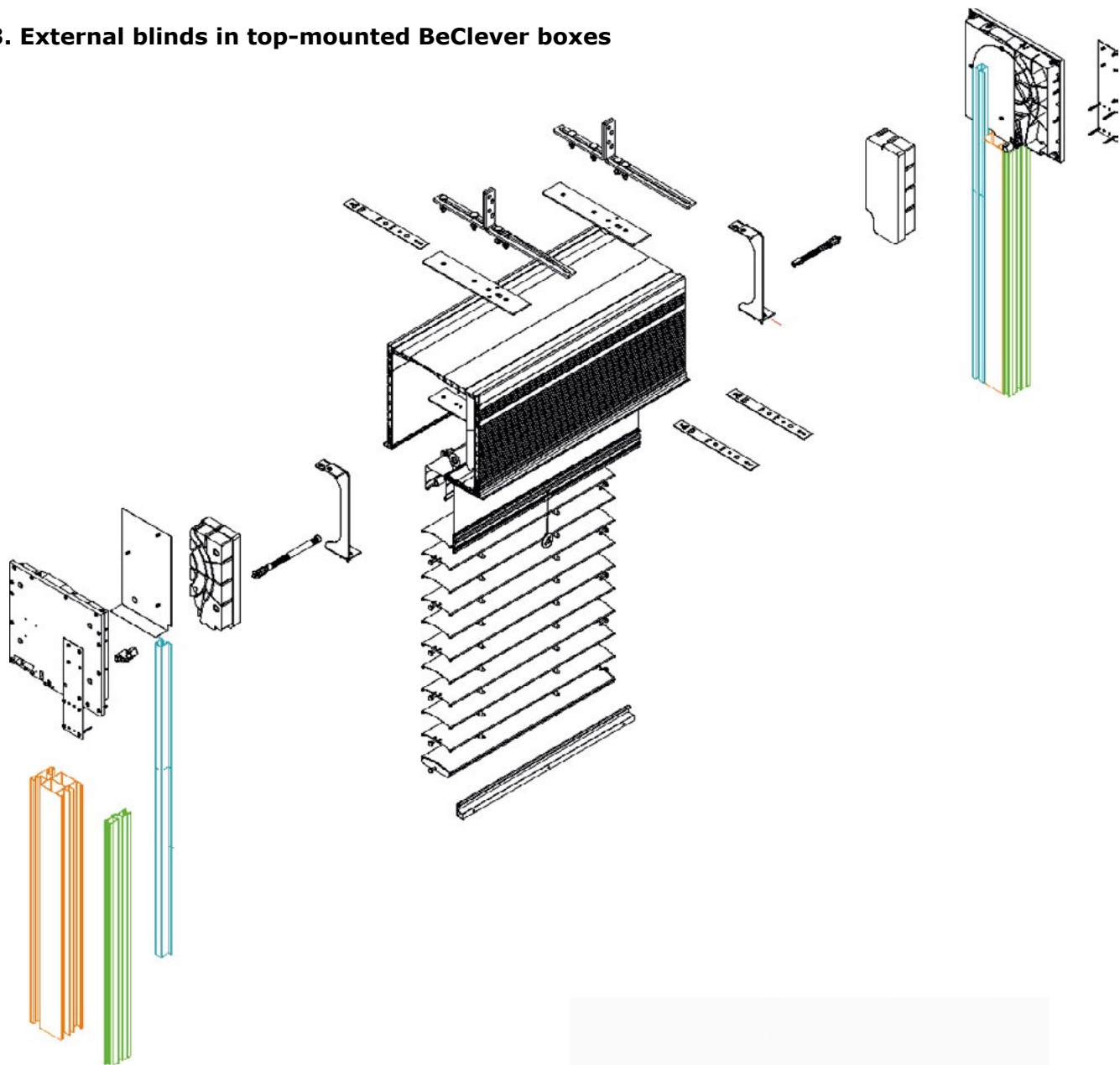
Height of blind (mm)	Height of batch		Range of cover sheets height (mm)	Cover sheets (EUR/lm)				Sides for cover sheets (EUR/pair)
	Manual (mm)	Electrical (mm)		Type 0	Type 1 A, 1 B	Type 2	Type 3 A, 3 B, 3 C	
Do 500	125	145	to 190	21,50 EUR/lm	26,50 EUR/lm	27,30 EUR/lm	40,30 EUR/lm	12,50 EUR/pair
501-600	135	155						
601-700	140	160						
701-800	145	165	to 240	23,80 EUR/lm	28,80 EUR/lm	29,80 EUR/lm	45,00 EUR/lm	
801-900	150	170						
901-1000	160	180						
1001-1100	165	185						
1101-1200	170	190						
1201-1300	170	190						
1301-1400	180	200						
1401-1500	185	205						
1501-1600	190	210	to 290	26,00 EUR/lm	31,00 EUR/lm	32,00 EUR/lm	49,80 EUR/lm	
1601-1700	195	215						
1701-1800	205	225						
1801-1900	210	230						
1901-2000	215	235						
2001-2100	215	235						
2101-2200	225	245						
2201-2300	230	250						
2301-2400	235	255	to 340	28,50 EUR/lm	33,50 EUR/lm	34,50 EUR/lm	54,50 EUR/lm	
2401-2500	240	260						
2501-2600	250	270						
2601-2700	255	275						
2701-2800	260	280						
2801-2900	260	280						
2901-3000	270	290						
3001-3100	275	295						
3101-3200	280	300	to 390	30,80 EUR/lm	35,80 EUR/lm	36,80 EUR/lm	59,00 EUR/lm	
3201-3300	285	305						
3301-3400	295	315						
3401-3500	300	320						
3501-3600	305	325						
3601-3700	305	325						
3701-3800	315	335						
3801-3900	320	340						
3901-4000	325	345						

* to calculate height of cover sheet we suggest to add 35 mm to batch height (table above) – it enable to cover top rail hangers and make sure that batch will be behind cover sheet.

All prices are net prices.

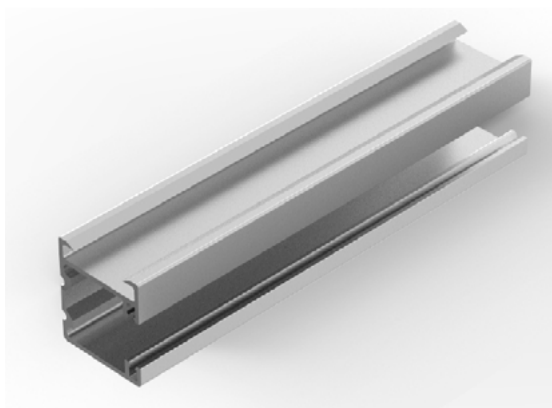


3. External blinds in top-mounted BeClever boxes

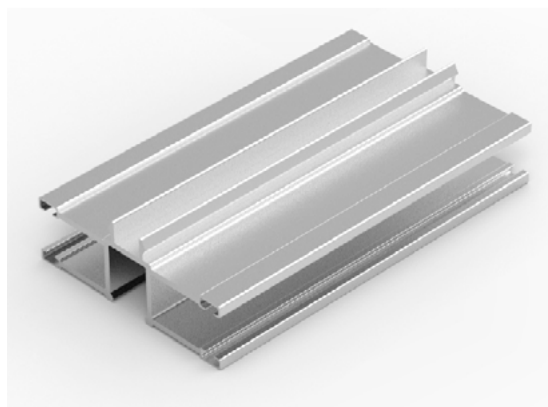


3.1. Guiding rails for top-mounted boxes

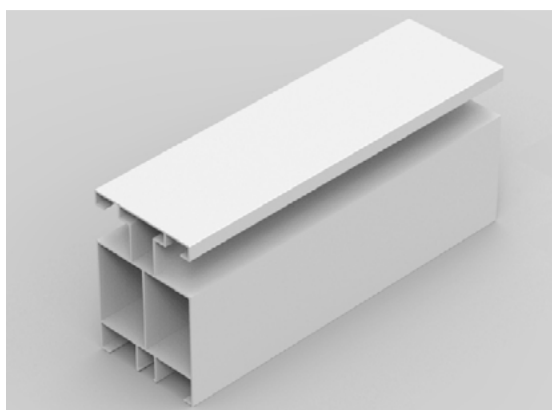
Type 2



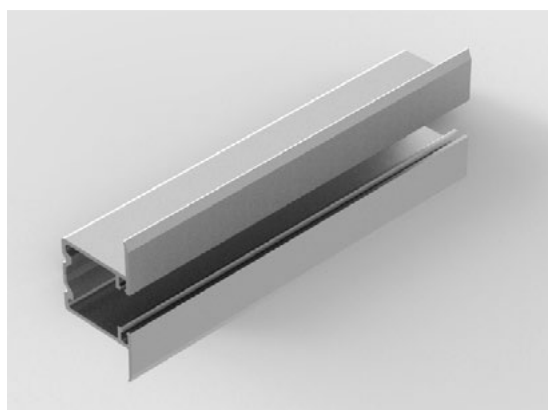
Type 2/PG-01 for anti-mosquito nets



PG-10



PG-12



Technical details

Minimal width		Maximal width	Maximal height
Manual	Electrical		
600 mm	600 mm	to 4000 mm (depends on lamellas type)	depends on lamellas type – batch cannot has more than 225 mm

Maximal width of blind with anti-mosquito net is 160 mm and maximal height is 2500 mm. Maximal surface is 3m².

Maximal height for top-mounted boxes external blinds

C-80		Z-90	
Manual	Electrical	Manual	Electrical
1600 mm	1300 mm	1800 mm	1500 mm

There is possibility to make blind above this height, but after closing not all batch will be in box.

3.2. C-80 with top-mounted box manual operation price list

Width																					
2 hangers						3 hangers						4 hangers					5 hangers				
	0,6	0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,25	3,5	3,75	4						
Height	0,5	201	210	225	247	262	301	322	338	358	398	413	440	474	489	511					
	0,75	207	217	233	256	272	312	335	351	373	414	430	459	494	510	533					
	1	214	225	242	267	284	326	350	368	391	434	452	482	518	535	560					
	1,25	222	233	251	278	297	339	366	385	409	454	473	505	542	561	587					
	1,5	228	240	259	287	307	350	378	398	423	470	490	523	562	581	609					
	1,75	235	247	268	298	319	364	394	415	441	490	511	546	586	607	636					
	2	242	255	278	309	331	378	409	432	459	510	532	569	610	632	664					
	2,25	248	262	285	318	342	389	422	445	474	526	549	587	629							
	2,5	255	270	295	329	354	402	437	462	492	545	570									
	2,75	262	278	304	340	366	416	453	479	510	565										
3	269	285	311	350	376	427	465	492	524												
3,25	276	293	321	361	389	441	481	509													
3,5	283	301	330	372	401	454	496	526													
3,75	289	307	338	381	411	465	509														
4	296	315	347	392	423	479	524														

Price included:

- Blinds with lamellas in color of price group 1.
- Top rail hangers depends on width.
- Guiding rails type 2 in standard colors.
- Cleverbox in white color.
- Manual operation with crank.
- Static console.

All prices are net prices..

Price excluded:

- Extra brackets for Cleverbox to lintel mouting.

3.3. C-80 with top-mounted box electrical operation price list

Height	Width															
	2 hangers				3 hangers				4 hangers				5 hangers			
	0,6	0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,25	3,5	3,75	4	
0,5	233	242	257	279	294	333	355	370	390	431	446	472	506	522	543	
0,75	239	249	265	288	304	344	367	383	405	446	462	491	526	542	565	
1	246	257	274	299	316	357	382	400	422	466	483	513	550	567	592	
1,25	253	264	283	309	328	371	397	416	440	485	504	536	574	592	619	
1,5	259	271	290	318	338	382	410	430	454	501	521	554	593	612	640	
1,75	266	278	299	329	350	395	425	446	472	521	542	577	617	638	668	
2	273	286	308	340	362	408	440	463	490	540	563	600	641	663	695	
2,25	279	293	316	349	372	419	452	476	504	556	579	618	660	683	716	
2,5	286	300	325	360	384	433	468	492	522	576	600	641	684	708	773	
2,75	293	308	334	370	396	446	483	509	540	595	621	663	708	763	800	
3	298	315	341	379	406	457	495	522	554	611	638	681	756	783	821	
3,25	305	322	350	390	418	470	510	539	572	631	659	733	780	808	848	
3,5	312	330	359	401	430	484	525	555	590	650	709	756	804	834	875	
3,75	318	336	367	410	440	495	538	568	604	695	726	774	824	854	897	
4	325	344	376	421	452	508	553	585	651	715	747	797	848	879	924	

Price included:

- Blinds with lamellas in color of price group 1.
- Top rail hangers depends on width.
- Guiding rails type 2 in standard colors.
- Cleverbox in white color.
- Motor Somfy J4WT(cable) or Geiger GJ56.
- Static console.

Price excluded:

- Extra brackets for Cleverbox to lintel mouting.

Note: in price excluded manouvering (remote controls, switches).

All prices are net prices.

Charges for motor		Price (EUR/pce)	
GJ56	Motor Geiger	6 Nm	10 Nm
	mechanical limiters	incl. in price	
JA Soft	Motor Elero	6 Nm	9 Nm
	mechanical limiters, noiseless	incl. in price	
JA Comfort	Electronical limiters	39,00	26,30
JA Comfort-868	Radio	72,50	67,50
J4 WT	Motor Somfy	6 Nm	10 Nm
	Electronical limiters	incl. in price	
J4 WT Protect	Obstacles and ice detection	9,80	13,80
J4 WT RTS i IO	Radio and IO	118,30	103,30
J4 IO Protect	IO with obstacle and ice detection	129,30	114,30
Electronics		page 33	

3.4. Z-90 with top-mounted box manual operation price list

Width															
2 hangers								3 hangers				4 hangers			
0,6		0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,25	3,5	3,75	4
0,5	218	229	246	271	287	330	346	371	393	430	453	476	513	538	554
0,75	227	240	259	287	305	350	368	397	420	460	485	509	549	577	595
1	235	250	269	300	319	366	386	417	441	483	511	536	577	608	628
1,25	246	262	284	319	340	390	412	447	474	518	549	576	621	655	677
1,5	253	270	293	329	351	403	425	462	490	536	568	596	642	678	701
1,75	263	283	307	348	372	427	451	492	522	571	606	636	685	725	750
2	271	292	318	361	387	443	469	512	543	595	631	663	714	756	782
2,25	281	303	331	377	405	463	491	537	570	624	663	696	750		
2,5	289	312	341	390	419	480	509	558	592	647	688				
2,75	299	325	356	409	440	504	535	588	624	683					
3	307	334	367	422	454	520	552	608	645						
3,25	317	346	380	438	472	540	574	633							
3,5	325	355	390	451	486	557	592	653							
3,75	334	366	403	467	504	577	614								
4	342	375	414	480	519	593	632								

Price included:

- Blinds with lamellas in color of price group 1.
- Top rail hangers depends on width.
- Guiding rails type 2 in standard colors.
- Cleverbox in white color.
- Manual operation with crank.
- Static console.

Price excluded:

- Extra brackets for Cleverbox to lintel mouting.

All prices are net prices.

3.5. Z-90 with top-mounted box electrical operation price list

Width																		
2 hangers						3 hangers					4 hangers				5 hangers			
	0,6	0,75	1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,25	3,5	3,75	4			
0,5	251	262	278	303	320	362	379	404	426	463	486	508	545	570	587			
0,75	260	273	291	319	337	382	401	429	452	492	518	541	581	609	628			
1	268	282	301	332	352	398	418	449	474	515	543	568	610	640	660			
1,25	278	294	316	351	372	422	444	479	506	550	581	608	653	687	709			
1,5	284	302	324	361	383	435	457	494	522	568	600	628	674	710	733			
1,75	295	314	339	379	404	458	483	524	553	603	637	667	717	757	782			
2	303	323	349	392	418	474	500	544	575	626	662	694	745	788	814			
2,25	312	334	362	408	436	494	522	568	601	655	694	727	781	827	855			
2,5	320	343	372	421	450	511	540	588	623	678	719	753	809	858	916			
2,75	330	356	387	439	470	534	565	618	654	713	757	793	852	934	965			
3	338	365	397	452	484	550	583	638	675	736	782	820	910	965	997			
3,25	347	376	410	468	502	570	605	663	702	765	813	882	946	1004	1038			
3,5	355	385	420	481	516	587	622	683	724	789	868	909	974	1035	1070			
3,75	364	396	433	497	534	607	644	708	750	847	899	942	1010	1074	1111			
4	372	405	443	510	548	623	661	728	801	871	924	968	1038	1104	1143			

Charges for motor		Price (EUR/pce)	
Motor Geiger		6 Nm	10 Nm
GJ56	mechanical limiters	incl. in price	
Motor Elero		6 Nm	9 Nm
JA Soft	mechanical limiters, noiseless	incl. in price	
JA Comfort	Electronical limiters	39,00	26,30
JA Comfort-868	Radio	72,50	67,50
Motor Somfy		6 Nm	10 Nm
J4 WT	Electronical limiters	incl. in price	
J4 WT Protect	Obstacles and ice detection	9,80	13,80
J4 WT RTS i IO	Radio and IO	118,30	103,30
J4 IO Protect	IO with obstacle and ice detection	129,30	114,30
Electronics		page 33	

Price included:

- Blinds with lamellas in color of price group 1.
- Top rail hangers depends on width.
- Guiding rails type 2 in standard colors.
- Cleverbox in white color.
- Motor Somfy J4WT(cable) or Geiger GJ56.
- Static console.

Price excluded:

- Extra brackets for Cleverbox to lintel mouting.

Note: in price excluded manoeuvring (remote controls, switches).

All prices are net prices.

3.6. Charges for top-mounted blinds

Lamellas colors	C-80	Z-90
Price group 1	incl. in price	incl. in price
Price group 2	+3%	+3%
Colors of remaining parts		Price (EUR/lm)
End list in extra color		individual quotation
Black tape and ladder		6,30 EUR pce of blinds

Guiding rails	Extra
Type 2 in standard color	incl. in price
PG-10 + PG-12	42,80 EUR/lm of blind

Anti-mosquito net (price for 1m ²)*	51,80 EUR/m ²
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*Possible to use only with guiding rails PG-10 and PG-12.

Extra elements	Price (EUR/pce)
Additional manouvering box to lintel	31,50 EUR/ pce

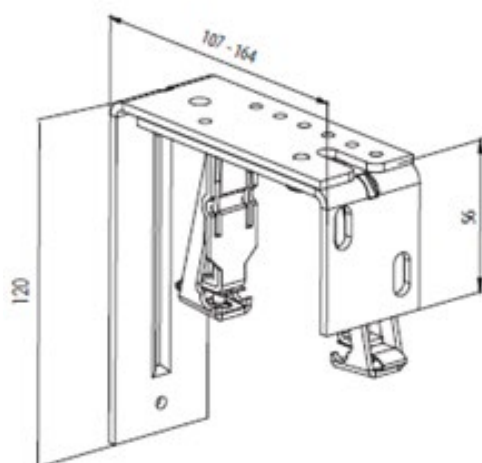
Color of box and guiding rails PG-10	Extra
white box, guiding rail PG-10 – RAL from standard collection	incl. in price
Box – one-side veneer structural Renolit – anthracite 701605, brown 887505, nut 2178007, mahagony 2065021, golden oak 2178001, winchester 49240	+10%
Box – two-sides veneer structural Renolit - anthracite 701605, brown 887505, nut 2178007, mahagony 2065021, golden oak 2178001, winchester 49240	+20%
Guiding rails – Renolit veneer structural - anthracite 701605, brown 887505, nut 2178007, mahagony 2065021, golden oak 2178001, winchester 49240	+5%
Remaining veneers	individual quotation

* Guiding rail PG-12 and end list is painted for RAL color approximate to veneer color.

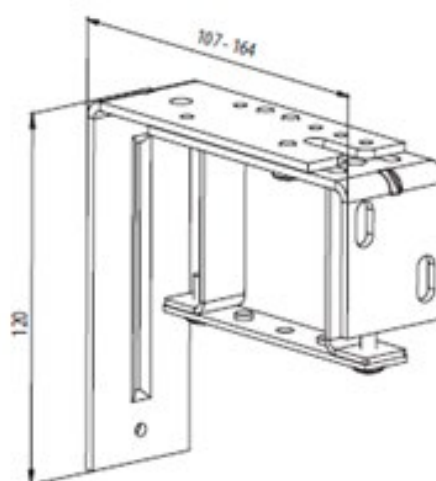
All prices are net prices.

IV. Components for external blinds

4.1. Top rail hangers incl. in price of blind

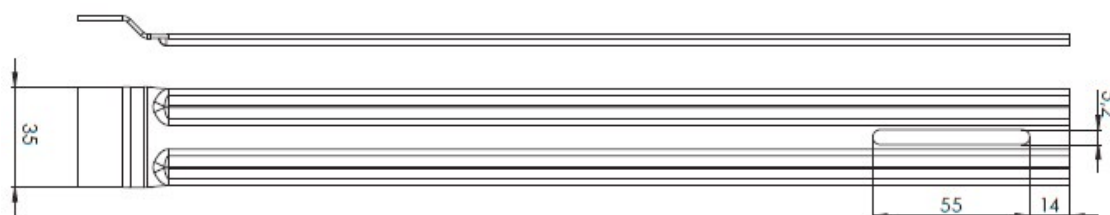


„Click” hanger



Hangers with support

Brackets for cover sheet are applied with top rail hangers

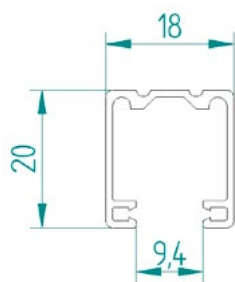
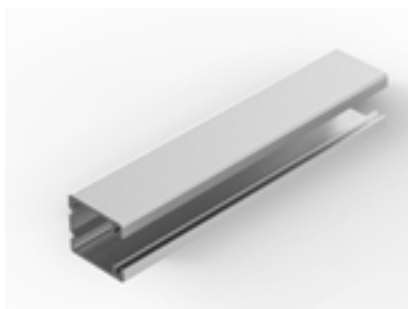


Hangers quantity depends on blind width

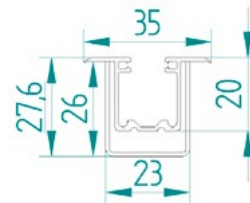
Blind width	to 1600 mm	1601-2400 mm	2401-3200 mm	3201-4000 mm
Hangers quantity and brackets for cover sheet	2	3	4	5

4.2. Guiding rails and handles

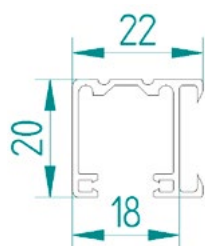
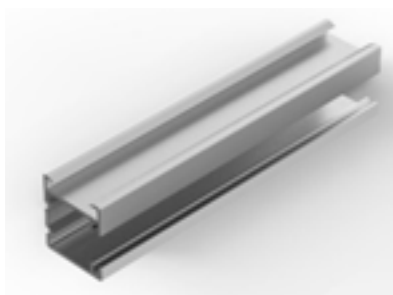
Guiding rails



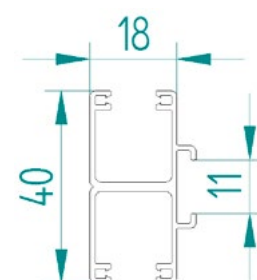
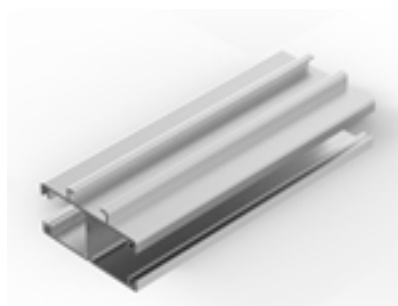
Type 1



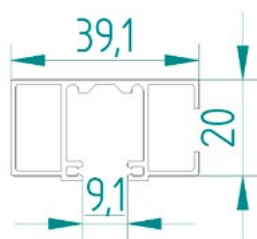
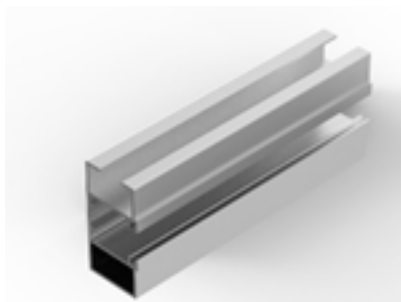
Type PT (2-parts set)



Type 2



Type D2

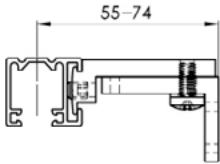


Self-portable type

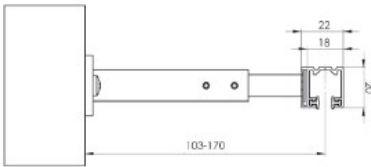
4.2. Guiding rails and handles

Handles

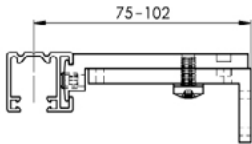
Type L1 (55-74 mm) to use with guiding rails type 2 and D2



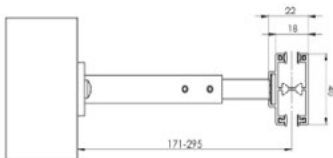
Type T1 (103-170 mm) to use with guiding rails type 2 and D2



Type L2 (75-102 mm) to use with guiding rails type 2 and D2



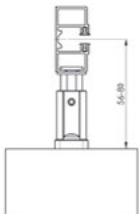
Type T2 (171-295 mm) to use with guiding rails type 2 and D2



Type L3 (103-154 mm) to use with guiding rails type 2 and D2



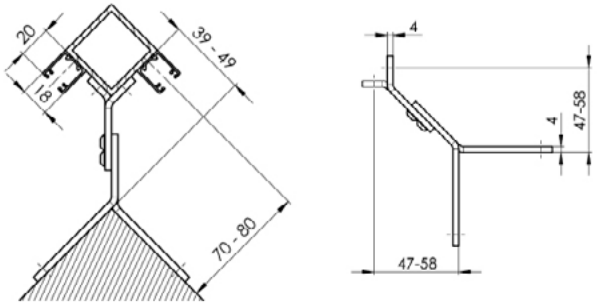
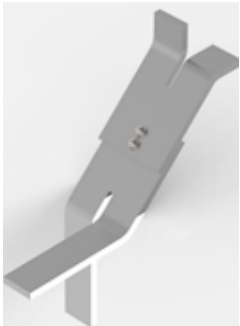
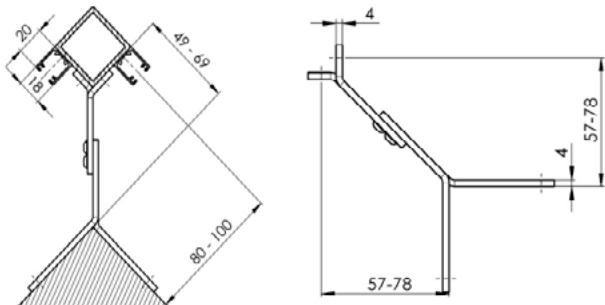
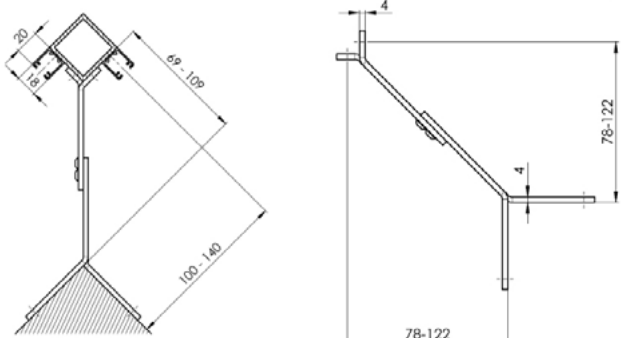
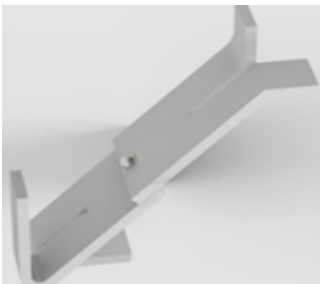
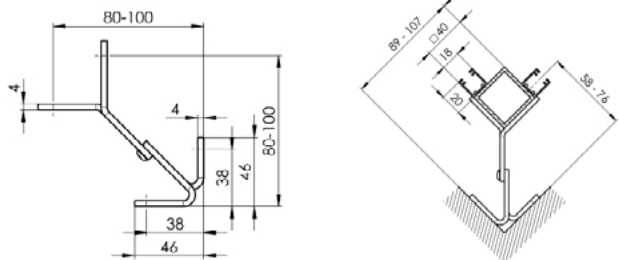
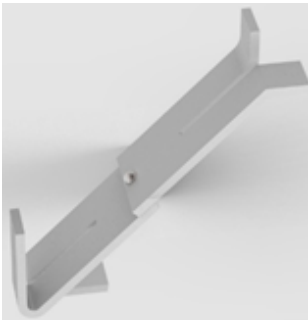
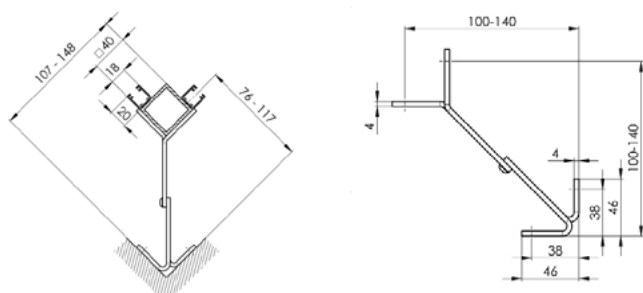
Type S - to using with self-portable guiding rails



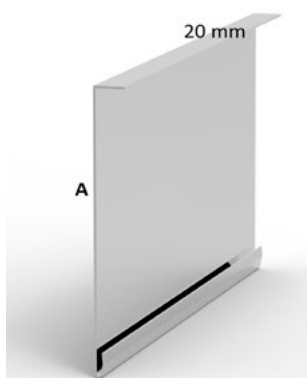
Handles quantity depends on blinds height (for one guiding rail)

Blinds height	to 1799 mm	1800-2799 mm	2800-4000 mm
Handles quantity	2	3	4

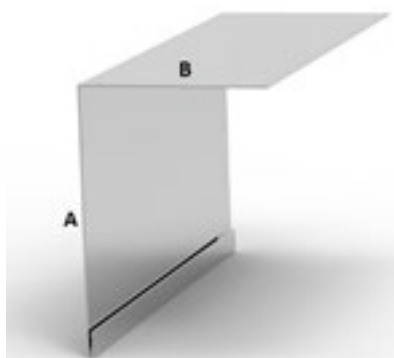
4.3. Angle connectors

external (70-80 mm)		
external (80-100 mm)		
external (100-140 mm)		
internal (58-76 mm)		
internal (76-117 mm)		

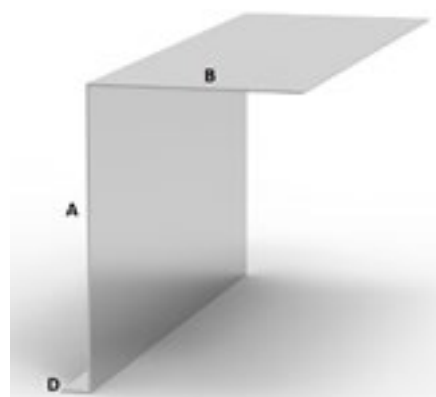
4.4. Cover sheets



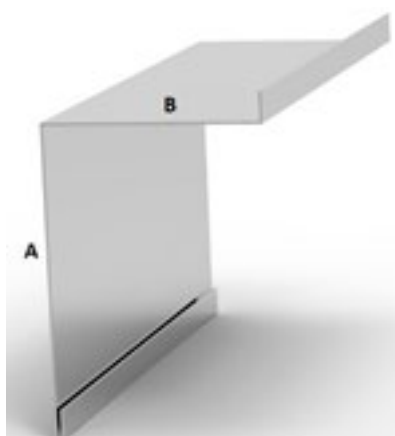
Type 0



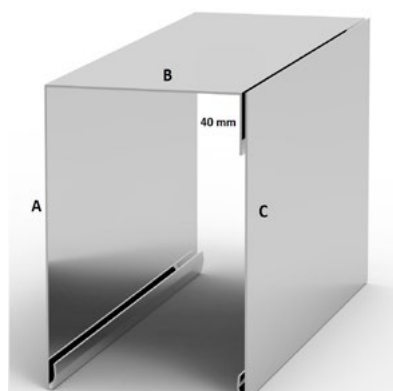
Type 1A



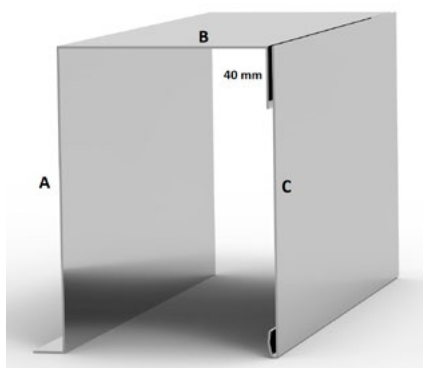
Type 1B



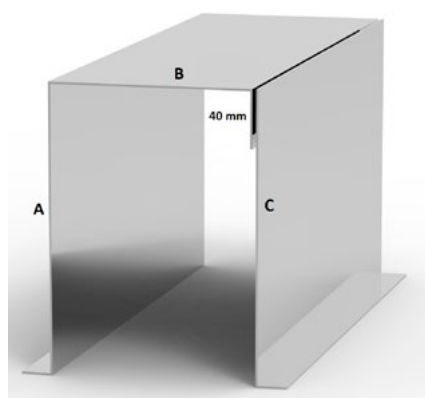
Type 2



Type 3A



Type 3B



Type 3C

*Cover sheets are painted one-side. Two-sides painting for extra charge.

Dimension	Suggested dimension
Cover sheets width	Blinds width
Size A	Height of batch +35 mm
Size B	Suggested depth of cover sheet depends on lamellas type
Size C	Height of batch +35 mm
Size D	18 mm in angulation; 20 mm as plaster carrier
Size E	18 mm in angulation; 20 mm as plaster carrier

V. Components price

Motors		Price (EUR/pce)		
Motors Geiger		6 Nm	10 Nm	20 Nm
GJ56	mechanical limiters	92,50 EUR/pce	125,00 EUR/pce	134,00 EUR/pce
Motors Elero		6 Nm	9 Nm	
JA Soft	mechanical limiters, noiseless	92,50 EUR/pce	125,00 EUR/pce	
JA Comfort	Electronical limiters	132,00 EUR/pce	151,30 EUR/pce	
JA Comfort-868	Radio	165 EUR/pce	192,50 EUR/pce	
Motors Somfy		6 Nm	10 Nm	18 Nm
J4 WT	Electronical limiters	92,50 EUR/pce	125 EUR/pce	134 EUR/pce
J4 WT Protect	Obstacles and ice detection	102,30 EUR/pce	138,80 EUR/pce	159,50 EUR/pce
J4 WT RTS i IO	Radio and IO	210,80 EUR/pce	228,30 EUR/pce	259,80 EUR/pce
J4 IO Protect	IO with obstacle and ice detection	221,80 EUR/pce	239,30 EUR/pce	268,50 EUR/pce

Guiding rails handles	Price (EUR/pce)
Type L1	3,30 EUR/pce
Type L2	
Type L3	
Type T1	9,50 EUR/pce
Type T2	11,50 EUR/pce

Top rail hangers	Price (EUR/lm)
Type 1	5,80 EUR/lm
Type 2	
Type PT	7,50 EUR/lm
Type D2	8,00 EUR/lm
Type PG-10 + PG 12	23,00 EUR/lm

Top rail hangers	Price (EUR/pce)
„click” hanger	5,30 EUR/pce
hanger with support	4,80 EUR/pce

Cover sheet mouting part	Applied with cover sheet height	Price (EUR/pce)
Mouting part „100”	140-190 mm	0,50 EUR/pce
Mouting part „150”	191-240 mm	0,60 EUR/pce
Mouting part „200”	241-290 mm	0,80 EUR/pce
Mouting part „250”	291-340 mm	1,00 EUR/pce
Mouting part „300”	341-390 mm	1,10 EUR/pce
Mouting part „350”	391-440 mm	1,20 EUR/pce

VI. Electronical details

Switches	Price (Eur/pce)
Key switch	9,00
Inis Uno VB	13,30
Inis Duo VB	18,50
Top-mounted case for Inis Uno i Inis Uno	3,80
Centralis Uno RTS VB	96,30
Smove Orgin RTS	35,30
Frame for Smoove Pure	2,80
Frame for Smoove silver, silver mat, black	8,00
Driver for Centralis IB	22,50
Smoove 1 IO Pure Shine	48,00
Smoove 1 IO Black Shine	48,00
Smoove 1 IO silver Shine	54,00
Smoove Orgin IO with frame Pure	40,50



Inis Uno VB



Inis Duo VB



Situio 1 io Pure



Situio 5 io Pure



NiNa Timer



Smoove

Remote controls	Price (EUR/pce)
Telis 1 Mod/Var RTS Pure	57,50
Telis 1 Mod/Var RTS Silver	71,30
Telis 1 Mod/Var RTS Longue	71,30
Telis 4 Mod/Var RTS Pure	76,50
Telis 4 Mod/Var RTS Silver	97,00
Telis 4 Mod/Var RTS Longue	97,00
Situio 1 IO Pure	40,50
Situio 1 IO kolor (grey, green, orange)	55,30
Situio 5 IO Pure	63,30
Situio 5 IO kolor (grey, green, orange)	86,30
NiNa Centralization	206,50
NiNa Timer	211,30
SoloTel 2, Remote controls 1-channel, white, silver anthracite	33,00
MonoTel 2, Remote controls 1-channel, white, silver anthracite	55,00
VarioTel 2, Remote controls 5+1-channel, white, silver anthracite	77,00

Remaining products	Price (EUR/pce)
Receiver Mod/Var Slim Receiver RTS	110,30
Eolis Sensor RTS LED	82,50
Sunis WireFree RTS	177,30
Soliris Sensor RTS	116,30
Soliris IB/VB	147,00
TaHoma	330,00
TaHoma Premium Base	287,50

All prices are net prices.

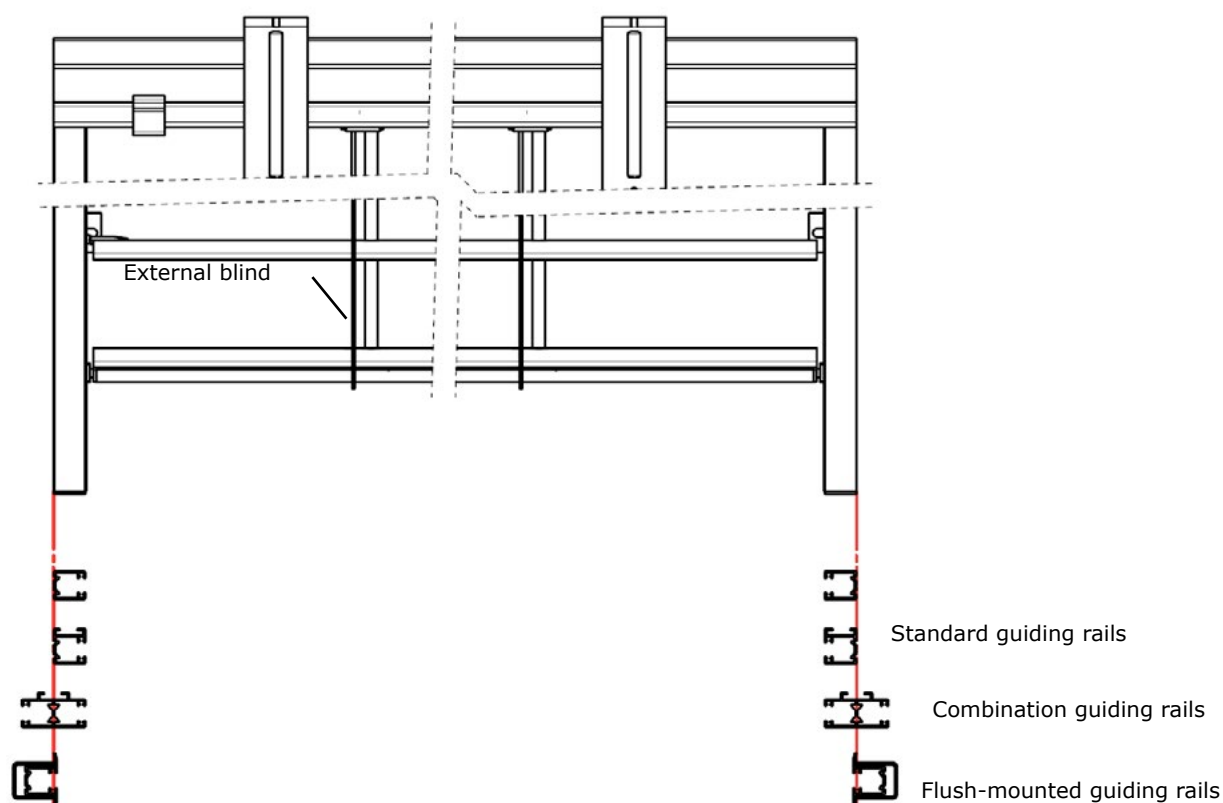
VI. Assembly ways and measurements

	Mouting to the niche Necessary size is H, X and S	
	Mouting on facade Variant 1 – guiding rails mouted to window frame. Necessary size is H, X and S	Variant 2 – blind and guiding rails mouted to wall. Necessary size is H, X and S
	Flush-mounted mouting Variant 1 – blinds with standard guiding rails, necessary size is H, X and S	Variant 2 – blinds with flush-mounted guiding rails. Necessary size is H, X and S
	Mouting to top-mounted boxes Necessary is width and height of window frames. Height will be extended of top-mounted box height (245 mm).	

In measurement it is necessary to include all the possible another obstacles (for example window sill, window, shutted window frame, etc.). External blinds measurement is specific and if you have doubts, please contact our technical specialist.

External blinds with flush-mounted guiding rails

Laying of flush-mounted guiding rails compared to standard guiding rails of external blinds.



Flush-mounted guiding rails mouted to architrave

Blinds with flush-mounted guiding rails lets overall cover them in architrave warming. Guiding rails are composed of two parts – part stuck into warming and appropriate guiding rail (inside of this one moves pins of lamellas). Mouting this type of blind requires make the warming with big accuracy (just the little deviation in thickness of it on the height of window frame).

WARRANTY TERMS AND CONDITIONS

1. Vertex S.A., hereinafter referred to as the Guarantor, guarantees a good quality and proper operation of a new product in accordance with the standards set for a specified product type, subject to the intended use in normal conditions.
2. During receipt of the product at the Guarantor's headquarters or on the date of product's delivery the Buyer is obliged to check product's packaging for any damages, as well as the product's completeness in accordance with the order, on pain of losing the right to question the quality and completeness of the delivery.
3. The Guarantor's warranty is valid for a period of 12 months from the date of sale. The basis of the complaint comprise jointly
 - 3.1. Proof of purchase with a date of sale of the faulty product.
 - 3.2. Installation execution according to the instructions set out in the price list and in manufacturer's (Vertex S.A.) installation instructions.
4. In case of proper submission of the complaint by the Buyer, the Guarantor agrees to:
 - 4.1. Consider the validity of the complaint within the statutory time limit.
 - 4.2. Remove defects — if the complaint is valid.
 - 4.3. Replace the product with the one that is free from defects — in case of being unable to remove the defects.
 - 4.4. In case of replacement of the defective product or defective parts with the new ones, the Buyer is obliged to return the subject matter of a complaint to the Guarantor.
5. Defects discovered during the warranty period will be removed by the Guarantor as soon as possible, however the free of charge repair or replacement of the faulty product will be preceded by an expertise of the damage on the basis of which the Guarantor shall decide if the complaint is valid.

The Guarantor's liability does not cover the costs of disassembly of the defective product and the costs of transporting the product to its manufacturer, as well as the costs of the transport back and re installation, which are borne by the Buyer in full.
6. Should the quality complaint be recognized as valid, the Guarantor agrees to reimburse the amount paid for transportation, after presenting relevant documents confirming the price by the Buyer, as well as to return the product to the Buyer on their return address at the Guarantor's own expense.
7. The Guarantor is not liable for:
 - 7.1. The Buyer or the third parties using modifications not made or not authorized by the manufacturer — Vertex S.A.
 - 7.2. Damages of the packaging or the product itself that were not reported on the date of the receipt of the product.
 - 7.3. Mechanical damages or damages resulting from improper or negligent installation, usage or storage, overloading, usage in improper conditions or improper electrical wiring.
 - 7.4. Random events occurring after the receipt of the product, in particular due to adverse weather conditions, electromagnetic interference, electric discharges and power surges in supply network.
 - 7.5. Using non-original materials or accessories.
 - 7.6. Failure to follow the recommendations set forth in the price list and manufacturer's (Vertex S.A.) installation instructions. Usage inconsistent with the instructions.
 - 7.7. The warranty does not cover normal wear and tear of original elements, parts and accessories caused by their normal operation.
8. In case of rejection of the complaint as a result of an inspection conducted by the Guarantor, the costs of the inspection and returning the product shall be borne by the Buyer.
 - 8.1. The negative complaint recognition may be appealed by the Buyer to the Guarantor in writing.
 - 8.2. Appeal deadline, referred to in Section 7.1, is 7 days from the date of notifying the Buyer by the Guarantor about the outcome of the inspection.
9. The Buyer loses their warranty rights in case of repairing, modifying or replacing damaged products and parts on their own, by persons and companies other than the Guarantor or recommended by the Guarantor.
10. Activities referred to in Section 8 the Buyer may conduct on their own, without losing their warranty rights, after receiving a written consent of the Guarantor.
11. The warranty is not given to the Buyers that did not pay for the received products.
12. The Buyer may raise liability claims against the Seller only under a cumulative fulfilling of these conditions:
 - the installation was carried out by authorized representatives of the seller
 - defects were immediately reported to the seller in writing
 - the product was mounted and used according to manufacturer's instructions
 - the product has not been modified or repaired by unauthorized persons.

The foregoing states the overall liability of the seller for defects of the subject matter of the agreement. Further claims of the Buyer, in particular statutory liability claims and consequential damages claims, including profits lost by the Buyer, are excluded.
13. Other provisions of the Buyer result from mandatory regulations, in particular on consumer sales the provisions of the Act of 27.07.2002. (Journal of Laws of 2002. No. 141 item 1176, as amended) apply.

Vertex S.A. reserves the rights to make technical changes. Prices in this price list - at the day 15.05.2018



www.vertex.pl

