



EXTERNAL BLINDS

PERFECT IN EVERY DETAIL

With external blinds, you can stop sunlight before it reaches the windows. By tilting the slats, you can ventilate and regulate the amount of light in the interior. External blinds protect your privacy and make your home an even more enjoyable place.

Everything made to measure and with a 4-year warranty.

EXTERNAL BLINDS



Protects your privacy
against unwanted looks
from the outside.



Allows, at the same time,
both ventilation and light
regulation, when the win-
dow is open.



By pulling the blinds down
and tilting the slats, you
regulate the amount of light
and temperature inside
your home.



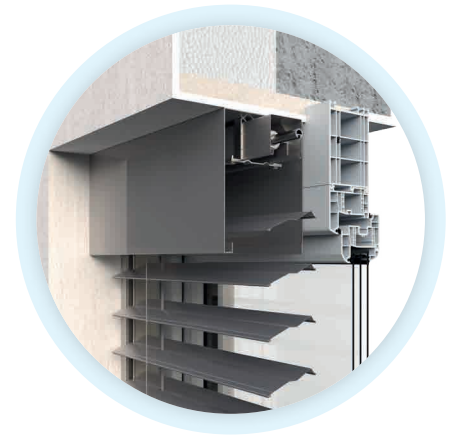
Prevents the interior from
overheating in summer
and helps save air condi-
tioning costs.

Types of installation



WITH ALUMINIUM SHEET COVER PLATE

The sheet covers the head rail and slat bundle, protecting it from the weather when the blind is retracted. Colour can be matched to the colour of the blind or facade.



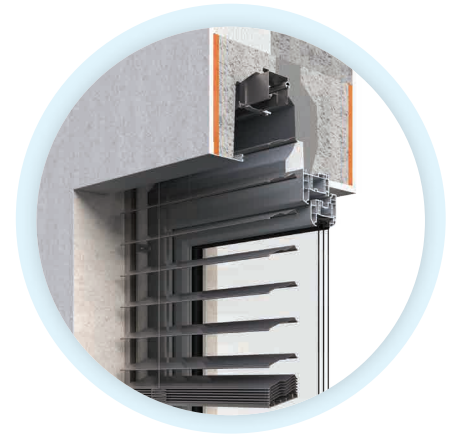
IN A SELF-SUPPORTING VERSION OF COMFORT SYSTEM

It is used where there is no possibility to fix the head rail on the building. The blind is only anchored into the reveal through the guide rails in this case.



IN AN UNDER-THE-FACADE CASSETTE (THE BUILT-IN BOX)

Hidden under the facade of the house, built-in boxes for external blinds have become a major trend in recent years. However, this needs to be considered before the actual construction of your home or before additional overcladding.

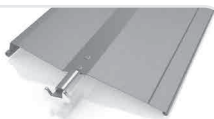


LINTEL VERSION HELUZ

The special building lintel designed for placement of external blinds is used as a standard carrier lintel. External blinds can be installed into it even after the building is completed.

Slats types

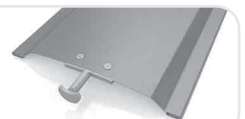
Z-90
NOVAL



Z-70



T-80



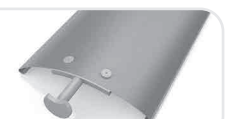
C-80
VENTAL



C-80



C-60



F-80



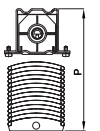
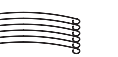
EXT-50

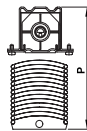


PROTAL



		Z-90 NOVAL		Z-70		T-80		C-80 VENTAL		C-80	
HEIGHT (cm)		crank	motor	crank	motor	crank	motor	crank	motor	crank	motor
	50 - 75	12	14	15	17	13	15	12,5	14,5	14	16
	75,1 - 100	14	16	16	18	15	17	14	16	16	18
	100,1 - 125	15	17	17	19	16	18	15,5	17,5	18	20
	125,1 - 150	16	18	19	21	17	19	17	19	20	22
	150,1 - 175	18	20	21	23	18	20	18,5	20,5	22	24
	175,1 - 200	19	21	23	25	19	21	20	22	24	26
	200,1 - 225	20	22	25	27	20	22	21,5	23,5	26	28
	225,1 - 250	22	24	27	29	21	23	22,5	24,5	28	30
	250,1 - 275	23	25	28	30	22	24	23,5	25,5	30	32
	275,1 - 300	24	26	29	31	23	25	25	27	32	34
	300,1 - 325	25	27	31	33	24	26	26,5	28,5	34	36
	325,1 - 350	27	28	33	35	25	27	27,5	29,5	36	38
	350,1 - 375	28	30	35	37	27	29	29	31	38	40
	375,1 - 400	29	31	37	39	28	30	30	32	40	42
	400,1 - 425	30	32	38	40	29	31	31,5	33,5	42	44
	425,1 - 450	31	33	40	42	30	32	33	35	44	46
	450,1 - 475	33	35	41	43	31	33	34,5	36,5	46	48
	475,1 - 500	34	36	43	45	32	34	36	38	48	50

		C-80 CC		C-60		F-80		EXT-50		EXT-50 H	
											
HEIGHT (cm)		crank	motor	crank	motor	crank	motor	crank	motor	crank	motor
	50 - 75	14	16	18	20	11,5	13,5	11,5	13,5	9,5	9,5
	75,1 - 100	16	18	20	22	12,5	14,5				
	100,1 - 125	18	20	22	24	13	15	13	15	11	11
	125,1 - 150	20	22	24	26	14	16				
	150,1 - 175	22	24	26	28	14,5	16,5	14	16	12	12
	175,1 - 200	24	26	28	30	15,5	17,5				
	200,1 - 225	26	28	30	32	16	18	15,5	17,5	13,5	13,5
	225,1 - 250	28	30	32	34	17	19				
	250,1 - 275	30	32	34	36	17,5	19,5	17	19	15	15
	275,1 - 300	32	34	36	38	18,5	20,5				
	300,1 - 325	34	36	38	40	19	21	18,5	20,5	16	16
	325,1 - 350	36	38	40	42	20	22				
	350,1 - 375	38	40	42	44	20,5	22,5	20	22	-	
	375,1 - 400	40	42	44	46	21	23				
	400,1 - 425	42	44	46	48	22	24	-			
	425,1 - 450	44	46	48	50	23	25				
450,1 - 475	46	48	50	52	23,5	25,5					
475,1 - 500	48	50	52	54	24,5	26,5	-				



A diagram showing a series of seven horizontal, slightly curved lines. Each line is terminated at both ends by a small, rounded rectangular shape, resembling a connector or a terminal. The lines are stacked vertically, with the top line being the most curved and the bottom line being the least curved.

		crank / motor				crank / motor			
HEIGHT (cm)	75,0 - 171,3	25,7	236,7 - 245,1	32,0	310,7 - 319,0	38,4	384,5 - 392,8	44,7	
	171,4 - 172,5	26,3	245,2 - 246,4	32,7	319,1 - 320,2	39,0	392,9 - 394,1	45,4	
	172,6 - 189,3	26,9	246,5 - 263,3	33,3	320,3 - 337,1	39,6	394,2 - 411,0	46,0	
	189,4 - 190,6	27,4	263,4 - 264,6	34,0	337,2 - 338,4	40,3	411,1 - 413,2	46,7	
	190,7 - 199,1	28,2	264,7 - 273,0	34,6	338,5 - 346,8	40,9	413,3 - 429,3	47,3	
	199,2 - 200,4	28,8	273,1 - 274,2	35,2	346,9 - 348,1	41,6	429,4 - 431,5	48,0	
	200,5 - 217,3	29,5	274,3 - 291,1	35,8	348,2 - 365,0	42,2	431,6 - 439,6	48,6	
	217,4 - 218,6	30,2	291,2 - 292,4	36,5	365,1 - 366,3	42,9	439,7 - 441,8	49,3	
	218,7 - 235,4	30,8	292,5 - 309,3	37,1	366,4 - 382,5	43,5	441,9 - 450,0	49,9	
	235,5 - 236,6	31,4	309,4 - 310,6	37,8	382,6 - 384,4	44,1			

Design options

		Operation				Guiding			Various versions				
Blind type	Slat width	Crank	Motor	Cord	Chain	Guide rail	Wire	Extra wire	Tilting to both sides	Open version	Self-supporting system	MISTRAL	Sloped versions
Z-90 NOVAL	90 mm	■	●	NO	NO	■	●	●	NO	●	●	●	●
Z-70	70 mm	■	●	NO	NO	■	●	●	NO	●	●	NO	●
T-80	80 mm	■	●	NO	NO	■	●	●	YES	●	●	●	●
C-80 VENTAL	80 mm	■	●	NO	NO	■	NO	NO	NO	●	●	●	●
C-80	80 mm	■	●	NO	NO	■	●	●	YES	●	●	●	●
C-80 CC	80 mm	■	●	NO	NO	■	●	●	NO	●	●	●	●
C-60	60 mm	■	●	NO	NO	■	●	●	YES	NO	●	●	●
F-80	80 mm	■	●	NO	NO	■	●	●	YES, only in a wire	●	●	NO	NO
EXT-50	50 mm	●	NO	■	●	NO	■	●	■	NO	NO	NO	NO
EXT-50 H	50 mm	●	●	NO	NO	NO	■	●	■	NO	NO	NO	NO
PROTAL	96 mm	●	■	NO	NO	■	NO	NO	NO	YES	YES	NO	NO

Legenda: ■ standard ● for surcharge / discount

Minimum depth of mounting space for slats in cm

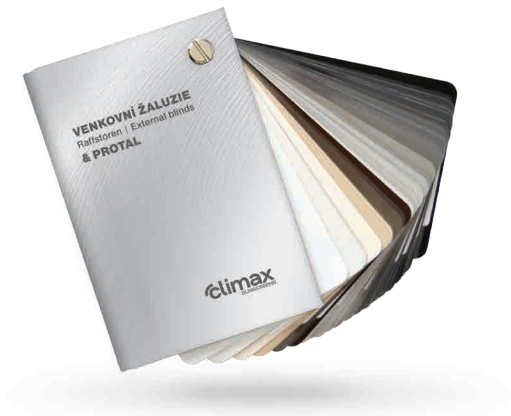
Blind type	Wire / Guide rail / Built-in rails
Z-90 NOVAL	14
Z-70	12
T-80	12
C-80 VENTAL	13
C-80	12
C-80 CC	13
C-60	10
F-80	12
EXT-50	8.7*
EXT-50 H	10*
PROTAL	12

* Version only in a wire



Colour versions

Everyone can choose from our wide range of colours and shades! In the basic menu, you will find shades of white, bronze, brown, silver, gray, anthracite or black. If you are unsure of the choice of the right colour, visit the store of one of our partners. They will show you our colour collections and will be happy to advise you on your choice.



Control types

Motorised – 230 V electric motor or 12 V solar-powered electric motor with control options:

- switch
- automatic controls (solar and wind sensor)
- remote control
- smart mobile device (Tahoma system)

Manual:

- crank with gearbox

Resistance classes

Beaufort wind scale

Resistance class against the wind	Beaufort scale	Wind speed (km/h)	Wind type	Wind characteristics
0	0	0 to 1	calm	Smoke rises vertically.
	1	2 to 5	light air	Direction shown by smoke drift.
	2	6 to 11	light breeze	Wind felt on face, leaves rustle.
	3	12 to 19	gentle breeze	Leaves and small twigs in constant motion.
1	4	20 to 28	moderate breeze	Moderate breeze - raises dust and loose paper, small branches sway.
2	5	29 to 38	fresh breeze	Small trees sway.
3	6	39 to 49	strong breeze	Large branches in motion, whistling heard in telegraph wires, umbrellas used with difficulty
4	7	50 to 61	high wind	Whole trees in motion, walking against the wind becomes difficult.
5	8	62 to 74	gale	Twigs break off trees.
6	9	75 to 88	strong gale	Slight structural damage (pulling chimneys, slates removed).
-	10	89 to 102	storm	Rarely happens inland, trees uprooted, considerable structural damage.
	11	103 to 117	violent storm	Violent storm - widespread damage.
	12	nad 118	hurricane force	Devastation, houses collapse.

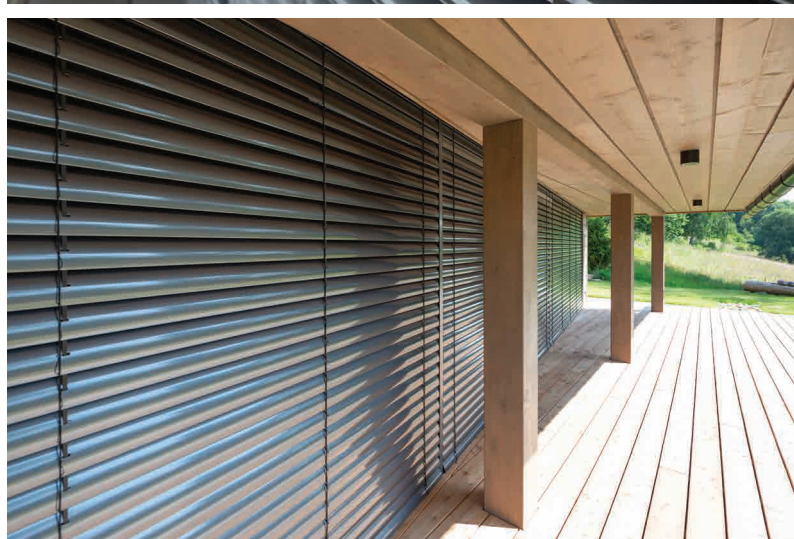
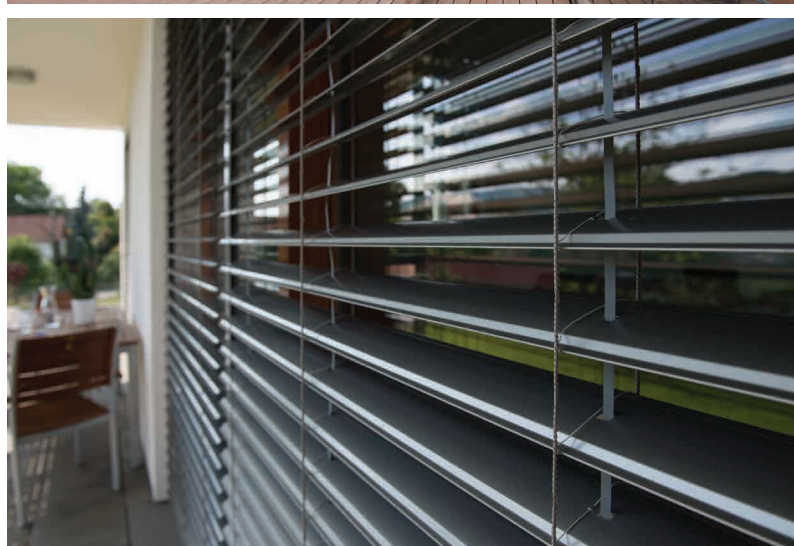
Wind resistance

Wind resistance for external blinds guided in wire

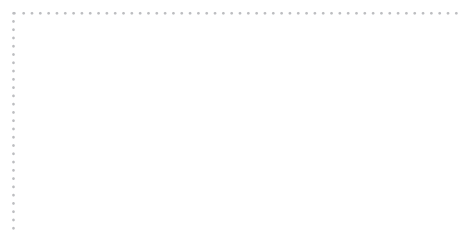
Wind resistance classes valid for loading with both pressure and intake of blinds	„A“ Width (cm)	A ≤ 200		200 < A ≤ 300		300 < A ≤ 400		400 < A ≤ 450		450 < A ≤ 480		480 < A ≤ 500	
	Height (cm)	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort
Z-90 NOVAL	up to 250	2	5	1	4	0	3	0	2	0	1	0	0
	up to 400	1	4	0	3	0	2	0	1	0	0	0	0
Z-70	up to 250	2	5	1	4	0	3	0	2	0	1	0	0
	up to 400	1	4	0	3	0	2	0	1	0	0	0	0
T-80	up to 250	2	5	1	4	0	3	0	2	0	1	0	0
	up to 400	1	4	0	3	0	2	0	1	0	0	0	0
C-80 VENTAL	up to 250	2	5	1	4	0	3	0	2	0	1	0	0
	up to 400	1	4	0	3	0	2	0	1	0	0	0	0
C-80 / C-80 CC	up to 250	2	5	1	4	0	3	0	2	0	1	0	0
	up to 400	1	4	0	3	0	2	0	1	0	0	0	0
C-60	up to 250	2	5	1	4	0	3	0	2	0	1	0	0
	up to 400	1	4	0	3	0	2	0	1	0	0	0	0
F-80	up to 250	2	5	1	4	0	3	0	2	0	1	0	0
	up to 400	1	4	0	3	0	2	0	1	0	0	0	0
EXT-50 / EXT-50 H	up to 250	1	4	0	3	0	2	0	1	0	0	0	0
	up to 400	0	3	0	2	0	1	0	0	0	0	0	0

Wind resistance for external blinds guided in guide rail

Wind resistance classes valid for loading with both pressure and intake of blinds	„A“ Width žaluzie (cm)	A ≤ 200		200 < A ≤ 300		300 < A ≤ 400		400 < A ≤ 450		450 < A ≤ 480		480 < A ≤ 500	
	Height (cm)	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort	EN 13 659 + A1	Beaufort
Z-90 NOVAL	up to 400	4	7	3	6	2	5	2	5	1	4	0	3
Z-70		5	8	4	7	3	6	2	5	1	4	0	3
T-80		4	7	3	6	2	5	1	4	0	3	0	3
C-80 VENTAL		5	8	4	7	3	6	2	5	1	4	0	3
C-80 / C-80 CC		4	7	3	6	2	5	1	4	0	3	0	2
C-60		5	8	4	7	3	6	2	5	1	4	0	3
F-80		3	6	2	5	1	4	0	3	0	2	0	1
PROTAL	up to 450	6	9	6	9	6	9	6	9	6	9	6	9



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