

ALGARVE®

PRODUCT INFORMATION



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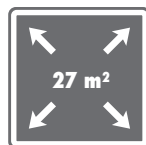




DESCRIPTION

Elegant aluminium patio cover with rotating blades and surface-mounted side elements.

- Can be controlled using io, RTS or the Renson® Connect App
- Slender support structure and sleek design
- Surface-mounted side elements and accessories
- Can be expanded up to 6 x 6 m without additional columns
- Available in Classic Line finish with a classic cornice
- Protection from the sun, rain and wind



One roof section



120 km/h



120 l/m².u

SUN
PROTECTION

VENTILATION

WATERPROOF

BENEFITS

Design



1 MINIMALIST DESIGN

Sleek profiles and invisible screw connections combined to create an elegant structure. A motor subtly hidden on the top of the Algarve bladed roof frame adds to the overall aesthetic.

2 6 X 6 M WITHOUT INTERMEDIATE COLUMN

A single roof section with intermediate beam is possible up to a maximum of 6 x 6 m without intermediate column. The 2 roof sections can be fitted with a bladed or canvas roof, and a combination of blades and canvas is also possible. There is no need for both roof sections to have the same finish.

3 SURFACE-MOUNTED SIDE ELEMENTS

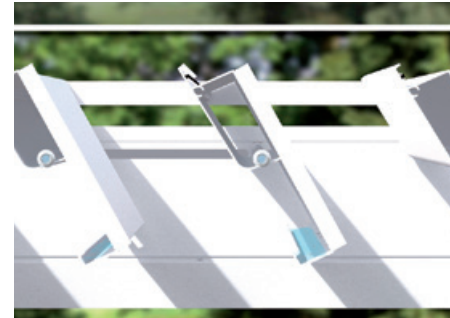
Fixscreens, glass sliding panels, Loggia panels, fixed walls or outdoor curtains can be fitted to the structure as surface-mounted elements.

4 INVISIBLE DRAINAGE VIA DRAINAGE PIPE IN THE COLUMN

5 MINIMAL GAPS BETWEEN THE BLADES

Lend a stunning and sleek finish.

Quality



1 DOUBLE-WALLED BLADES FOR EXTRA STRENGTH

Load-bearing capacity: 100 kg/m²

2 WELDED ALUMINIUM DRIPS, POWDER COATED TO MATCH THE COLOUR OF THE ROOF BLADES

3 UNIQUE END CAPS PROVIDE A SOLID CORNER CONNECTION

4 INTEGRATED WATER DRAINAGE CHANNELS

5 SAFE INSTALLATION OF SLIDING PANELS WITH OPTIONAL TUBE PROFILE



6 F2 TECHNOLOGY

INNOVATION

With a secure fastening system that ensures the rigidity of its support structure, Algarve remains stable even in strong winds.

Customisation



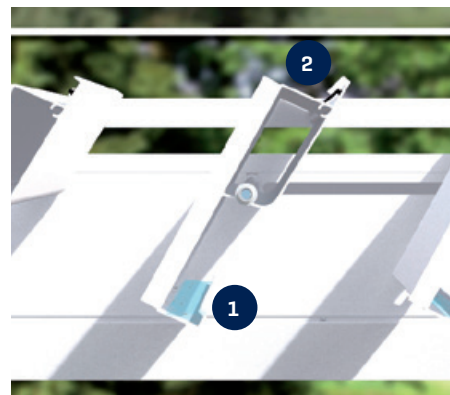
1 WIDE RANGE OF SIDE INSERTS POSSIBLE

2 BACK ORDERS POSSIBLE

3 ACCESSORIES

For more information about the possible accessories, see the 'Accessories' section and/or the product information for the various accessories.

Comfort



1 SPECIALLY DEVELOPED GUTTER BORDER

INNOVATION

Prevents your patio and furniture from getting wet when the blades are opened following a rain shower.

2 SILENT AND SOFT CLOSING MECHANISM BY ADDING A BRUSH TO THE BLADES

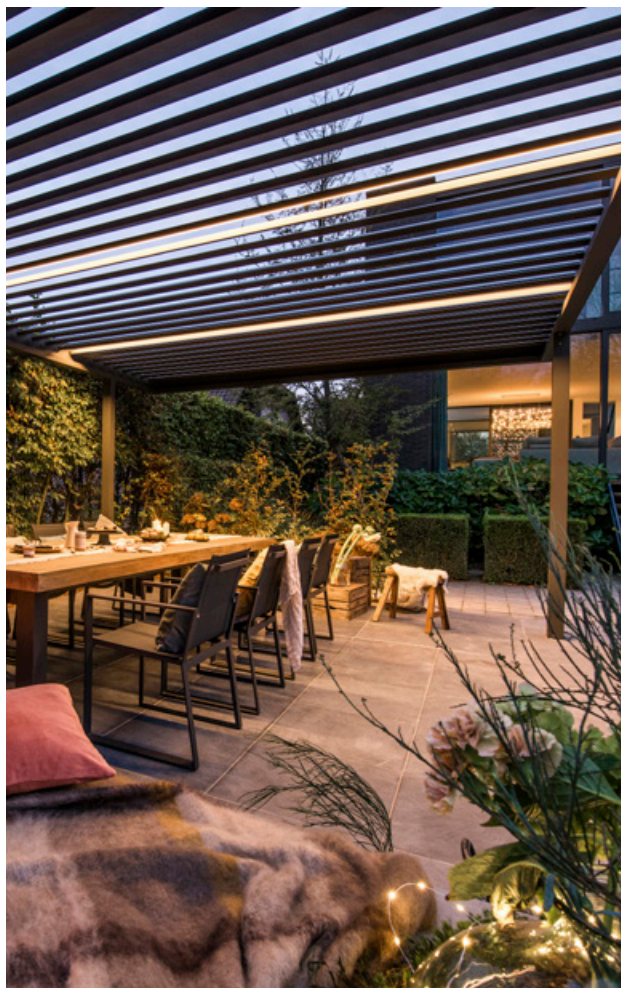
3 QUICK INSTALLATION

Thanks to maximum pre-assembly.

4 MAXIMUM NATURAL LIGHT

Blades open through 150°.

TECHNICAL DETAILS



Dimensions	
Span – Single	Min. 1800* mm - max. 4500 mm
Span – Single with additional beam	Min. 1800* mm - max. 6000 mm
Pivot – Single	Min. 2615* mm - max. 7000** mm
Passage height	Min. 375 mm – max. 2800 mm
Total height with blades closed	Passage height + 230 mm
Total height with blades 90° open	Passage height + 325 mm
Total height including motor box	Passage height + 360 mm
Minimum height required when installed under a roof overhang	Passage height + 365 mm
Blade rotation	Max. 150°
Minimum number of water drainage points < 16 m²	1
Minimum number of water drainage points > 16 m²	2
Operating methods	
Renson® Connect App	✓
Somfy io	✓
Somfy RTS	✓
Home automation ready	✓

* Smaller dimensions [span up to min. 800 mm and pivot up to min. 1110 mm] possible by special request to pre-sales - drawing office.

** Please note: if only one column is used, the water drainage capacity will be limited to 0.025 l/m2.s [90 l/h].

Electrical bladed roof drive

Parameters	Value
Supply voltage	230 Volt AC, 50 Hz
Transformer current range	0 – 2.5 Ampère
Transformer power	100 W
Motor voltage	24 Volt DC
Motor nominal current [24 Volt DC]	3 Ampère
Protection rating	IP 66 Dynamic
Maximum running time with continuous use	Approx. 2 minutes
Automatic	16 A Curve C



Standard configuration

Construction

- Free-standing or façade mounted [against whole wall or partial connection]
- Standard mounting bases [visible or invisible]
- Custom span, pivot and passage height with mm precision
- Motor drive with choice of motor position and drainage
- Blade orientation [sun protection or maximum sunlight]

Finish

- Seaside Quality A
- Monocolour or dual colour according to Renson standard colours
- Integrated water drainage [incl. PVC drainage pipes and anti-splash diffusers in the gutter]
- Adjustable installation and drainage holes

Algarve > 6055 mm

- Maximum pivot dimension: 7000 mm
- Maximum span dimension: 4000 mm (once pivot length is greater than 6055 mm)
- Number of columns per free-standing pivot side: minimum three.
- Maximum free space between two columns: 5835 mm
- Shifted column: NOT possible
- Minimum number of water drainage points: three, of which two on the lowest side
- Beam Heat & Sound: NOT possible on the pivot
- Maximum number of Led blades: 3
- Maximum number of glass blades: 5
- Maximum number of Lineo Fix blades 3



Algarve weight

		Total weight (kg) of entire Algarve															
		Span															
	Dimensions in mm	# blades	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4500
Pivot	2615	11	145	155	164	175	185	194	204	213	223	233	242	252	261	272	277
	2830	12	154	163	174	185	195	205	215	226	236	246	256	266	278	288	293
	3045	13	162	173	184	194	205	216	227	238	249	259	270	282	293	304	309
	3260	14	171	181	193	204	215	227	238	250	261	273	285	297	308	320	325
	3475	15	180	190	202	214	226	238	250	262	274	287	299	311	323	335	342
	3690	16	188	198	211	223	236	249	261	274	288	301	313	326	339	351	358
	3905	17	197	206	220	233	246	260	273	287	301	314	327	341	354	367	374
	4120	18	205	215	229	243	257	271	285	299	313	327	341	355	369	383	390
	4335	19	214	223	238	252	267	282	297	312	326	341	355	370	384	399	406
	4550	20	222	232	247	262	278	293	309	324	339	354	369	384	400	415	423
	4765	21	230	240	256	273	288	304	320	336	352	367	383	399	415	432	440
	4980	22	239	248	266	282	299	315	332	348	364	381	397	414	431	448	456
	5195	23	247	258	275	292	309	326	343	360	377	394	411	429	446	463	472
	5410	24	257	266	284	302	319	337	355	372	390	409	426	444	462	479	488
	5625	25	265	275	293	311	330	348	366	384	404	422	440	459	477	495	504
	5840	26	274	283	302	321	340	359	378	398	416	435	454	473	492	511	520
	6055	27	282	292	311	331	350	370	390	410	429	449	468	488	507	527	537

The table above shows the weight of the Algarve frame; the weight of the columns and mounting bases is not included. Each column in the configuration results in an extra weight of 4.8 kg/column metre.

Standard mounting base weight:

- invisible mounting base: 1730 g
- visible mounting base: 3370 g
- visible [corner]: 2240 g

Reinforced mounting base weight:

- invisible mounting base: 6970 g
- visible mounting base: 10290 g
- visible [corner]: 8170 g

Algarve snow load

		Single Algarve - maximum snow load [kg/m ²]															
		Span															
Dimensions in mm	# blades	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4500	
Pivot	2615	11	849	600	439	329	252	197	156	125	101	82	67	55	45	37	34
	2830	12	849	600	439	329	252	197	156	125	101	82	67	55	45	37	34
	3045	13	849	600	439	329	252	197	156	125	101	82	67	55	45	37	34
	3260	14	839	600	439	329	252	197	156	125	101	82	67	55	45	37	34
	3475	15	732	600	439	329	252	197	156	125	101	82	67	55	45	37	34
	3690	16	645	579	439	329	252	197	156	125	101	82	67	55	45	37	34
	3905	17	572	513	439	329	252	197	156	125	101	82	67	55	45	37	34
	4120	18	510	457	415	329	252	197	156	125	101	82	67	55	45	37	34
	4335	19	457	410	372	329	252	197	156	125	101	82	67	55	45	37	34
	4550	20	412	370	335	306	252	197	156	125	101	82	67	55	45	37	34
	4765	21	373	334	303	276	254	197	156	125	101	82	67	55	45	37	34
	4980	22	339	304	275	251	230	197	156	125	101	82	67	55	45	37	34
	5195	23	302	270	244	223	205	189	156	125	101	82	67	55	45	37	34
	5410	24	264	236	213	194	178	165	153	125	101	82	67	55	45	37	34
	5625	25	232	207	187	170	156	144	133	124	101	82	67	55	45	37	34
	5840	26	204	183	165	150	137	126	117	109	101	82	67	55	45	37	34
6055	27	181	161	145	132	121	111	103	95	89	82	67	55	45	37	34	
6270	28	222	199	181	166	153	142	133	125	101	82	67	55				
6485	29	211	190	173	158	146	136	127	119	101	82	67	55				
6700	30	206	185	168	154	142	132	123	116	101	82	67	55				
6915	31	200	180	164	150	138	129	120	113	101	82	67	55				
7000	32	198	178	162	148	137	127	119	111	101	82	67	55				

Tables do not exceed 300 kg/m² as values above this figure are no longer relevant.

Single Algarve with additional beam - maximum snow load [kg/m ²]																		
Span																		
Dimen- sions in mm	# blades	3200	3400	3600	3800	4000	4200	4400	4500	4600	4800	5000	5200	5400	5600	5800	6000	
Pivot	2615	11	584	512	452	402	359	322	290	276	263	239	217	199	182	167	154	142
	2830	12	538	471	416	369	330	296	267	254	241	219	199	182	167	153	141	130
	3045	13	498	437	385	342	305	274	246	234	223	202	184	168	154	141	130	119
	3260	14	464	406	358	318	284	254	229	217	207	188	171	156	142	130	120	110
	3475	15	434	380	335	297	265	237	213	203	193	175	159	145	132	121	111	102
	3690	16	408	357	314	279	248	222	200	190	180	163	148	135	124	113	104	95
	3905	17	384	336	296	262	233	209	188	178	169	153	139	127	116	106	97	89
	4120	18	363	317	279	247	220	197	177	168	160	144	131	119	109	99	91	83
	4335	19	344	300	264	234	208	186	167	159	151	136	124	112	102	93	86	78
	4550	20	326	285	251	222	197	176	158	150	143	129	117	106	97	88	81	74
	4765	21	311	271	239	211	188	168	150	143	135	122	111	100	91	83	76	70
	4980	22	296	259	227	201	179	159	143	136	129	116	105	95	87	79	72	66
	5195	23	283	247	217	192	170	152	136	129	122	110	100	91	82	75	68	62
	5410	24	271	236	208	183	163	145	130	123	117	105	95	86	78	71	65	59
	5625	25	260	227	199	176	156	139	124	118	112	101	91	82	75	68	62	56
	5840	26	249	217	191	168	149	133	119	113	107	96	87	78	71	65	59	53
	6055	27	240	209	183	162	143	128	114	108	102	92	83	75	68	62	56	51

Bending stress [pivot] less than maximum permitted bending stress taking into account a safety factor of 1.5

Tables do not exceed 300 kg/m² as values above this figure are no longer relevant.

ACCESSORIES



Comfort pack		Back order
Fixscreen + Lineo Led	✓	-
Side infills		
Integrated Fixscreen	-	-
Algarve Fixscreen	✓	✓
Lapure Fixscreen	-	-
Triangle	-	-
Loggia sliding panels*	✓	✓
Loggiascreen Canvas sliding door	-	-
Glass sliding panels**	✓	✓
Linus wall**	✓	✓
Linarte wall	-	-
Outdoor curtains	✓	✓
Comfort		
Lighting		
Lineo Led	✓	-
UpDown Led	✓	✓
Colomno Led	-	-
Lapure Led	-	-
Comfort and design		
Beam Heat & Sound	✓	✓
Lineo Luce	✓	✓
Lineo Fix	✓	-
Lineo Heat	✓	-
Waterproof wall mounting	✓	-
Protecto protective profile	✓	✓
Automation		
Wind sensor	✓	✓
Rain sensor	✓	✓
Sun sensor	-	-

* Up to a free width of 4250 mm

** Subject to use of reinforced mounting bases on adjacent columns

Styling		Back order
Classic Line	✓	-
Wooddesign roof blades	✓	-
Columns		
Extra column	✓	-
Shifted column	✓	-
Adjustable wall column	-	-



CERTIFICATES & TESTING

CE – DoP documents

- CE / UKCA / DoC / DoP / ETA

Certificates

- UL / ETL certificate US – Canada / CCC
- REACH / seaside/coastal powder coating guarantee
- RoHS / AluEco
- VMRG sun protection

Declarations

- Declaration of material codes
- Declaration of testing – overview
- Declaration of powder coating
- Declaration of anodisation layer thickness
- Declaration of glass properties
- Declaration of fire resistance / reaction
- Declaration of endurance cycles
- Declaration of UV resistance / gtot + others
- Declaration of asbestos

Test reports – calculations

- Environmental statement [recycled aluminium]
- Anchoring requirements
- Water test / sand resistance test / IP test
- Wind [load] testing / verification certificate
- Static load test / calculations
- Gravity-wind load deflection & structural test

Wind guarantee of roof with blades closed	up to 120 km/h
Wind guarantee of roof with blades open	/*
Fixscreen wind guarantee when closed	up to 60 km/h
Max. wind speed for roof or Fixscreen operation	up to 50 km/h
Water drainage flow	120 l/m ² /h
Load-bearing capacity	100 kg/m ²

* We recommend against opening the blades in high winds > 50 km/h, as there is a risk that the blades may start vibrating and operating the blades is only permitted up to 50 km/h.

