

IASO®

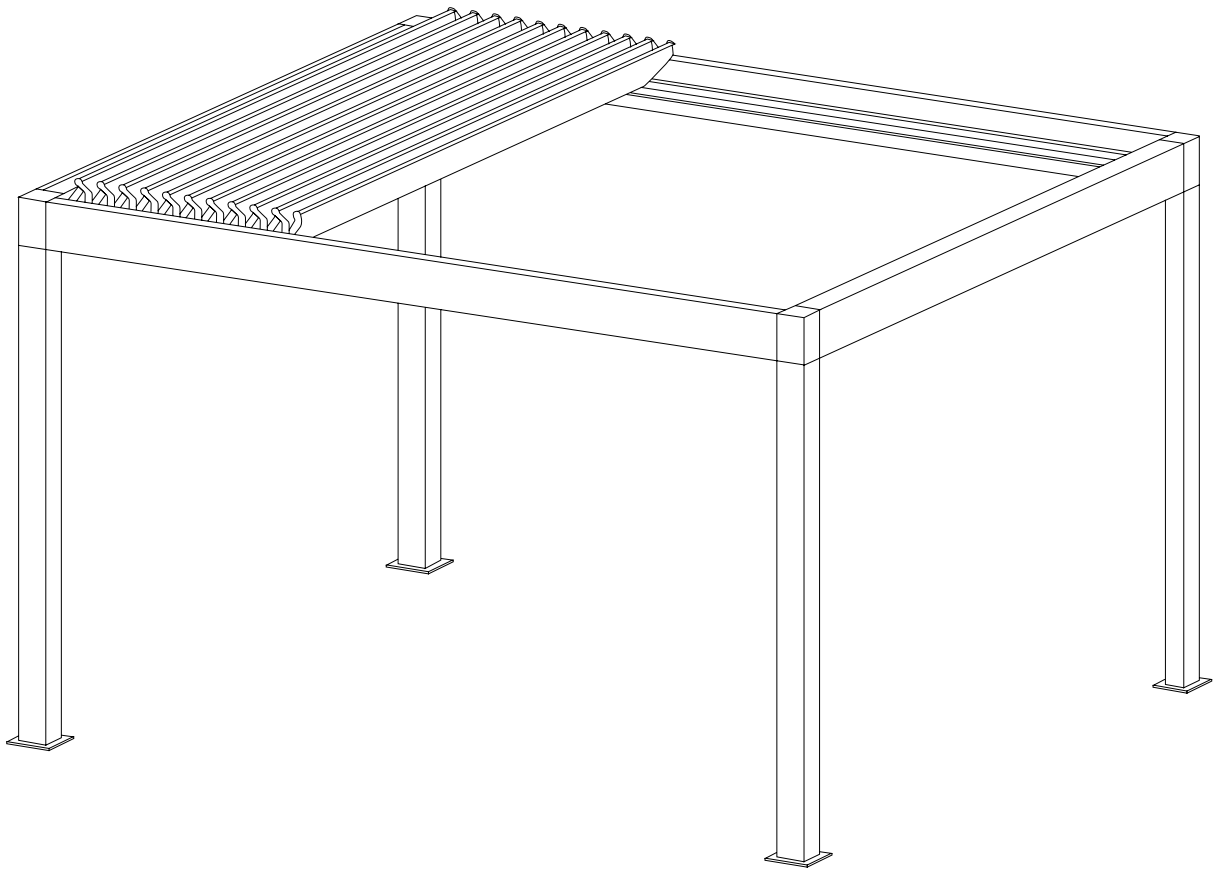
Better Outside

TECHNICAL DATA SHEET

ENGLISH

PERGOLAS

GAIA SKY



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DESCRIPTION

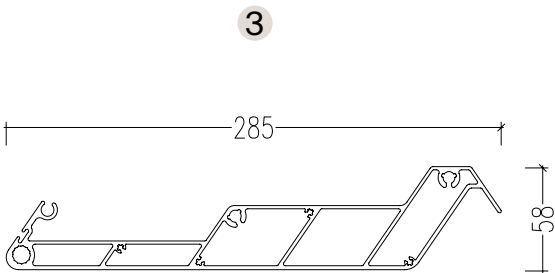
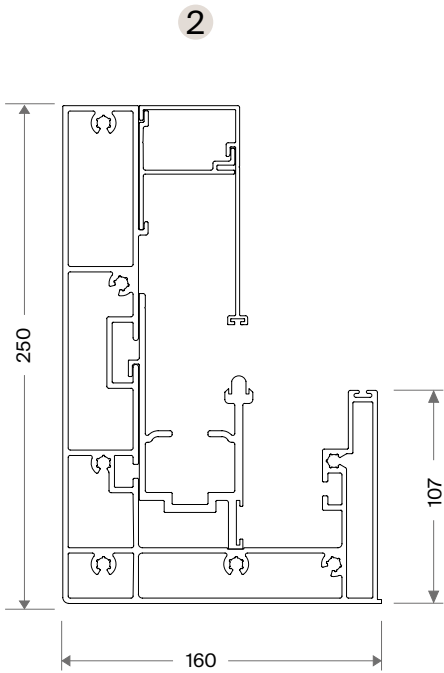
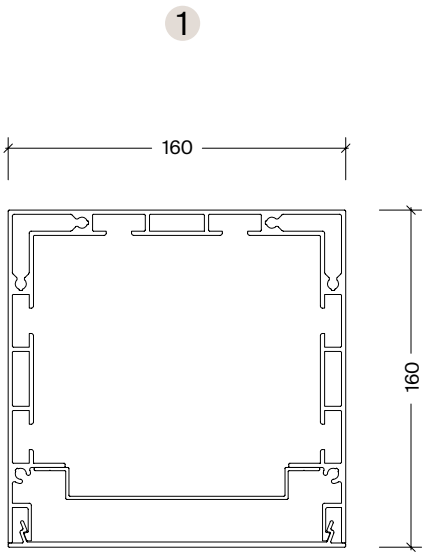
GAIA SKY is an innovative retractable bioclimatic system designed to enhance outdoor spaces. It features a sun shading roof equipped with a retractable system of extruded aluminium louvres. These louvres are not only functional but also bring a modern aesthetic to the structure. The entire system rests on four vertical pillars and offers different solutions depending on the type of installation.

TECHNICAL SPECIFICATIONS

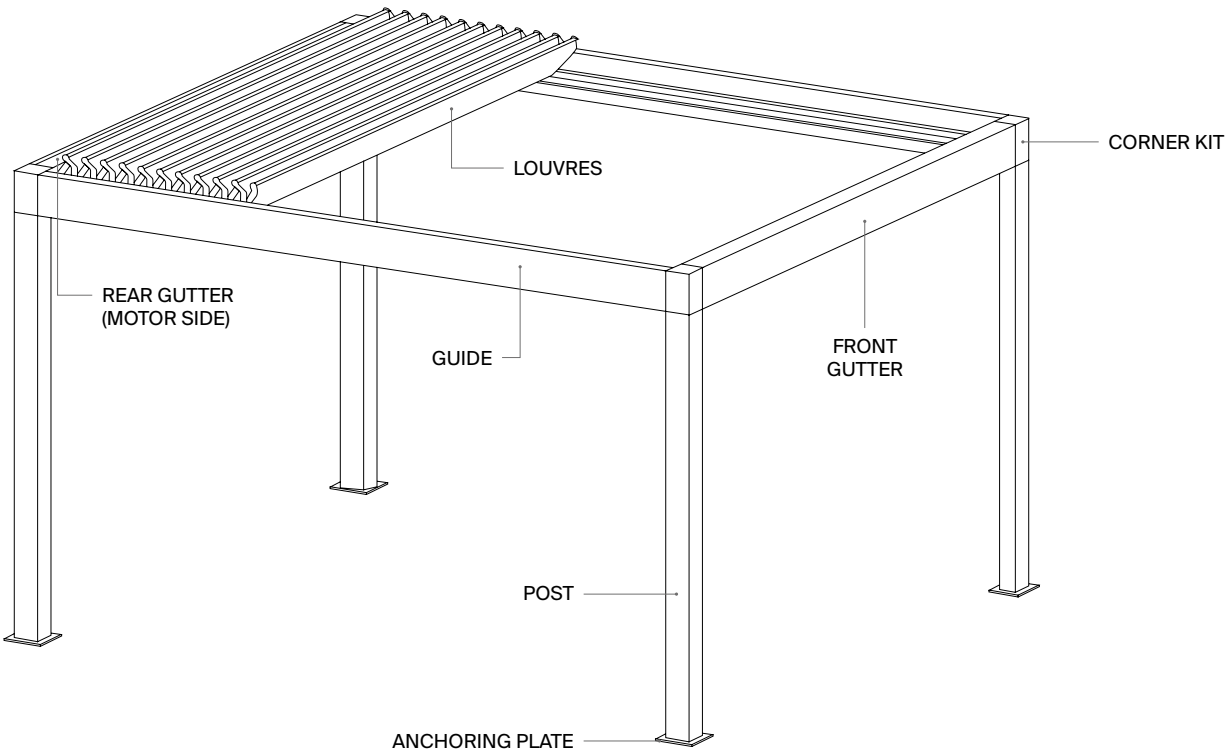
- Structure made of aluminium 6063-T6 profiles.
- Components with an electrostatic powder coating or anodised finish.
- Stainless steel and galvanised steel screws and fixings.
- Can include perimeter and ambient LED lighting systems.
- Remote control, motor and lighting.
- "ALL SEASON"

MAIN PROFILES

- 1 POST
- 2 PERIMETER / GUTTER
- 3 LOUVRE



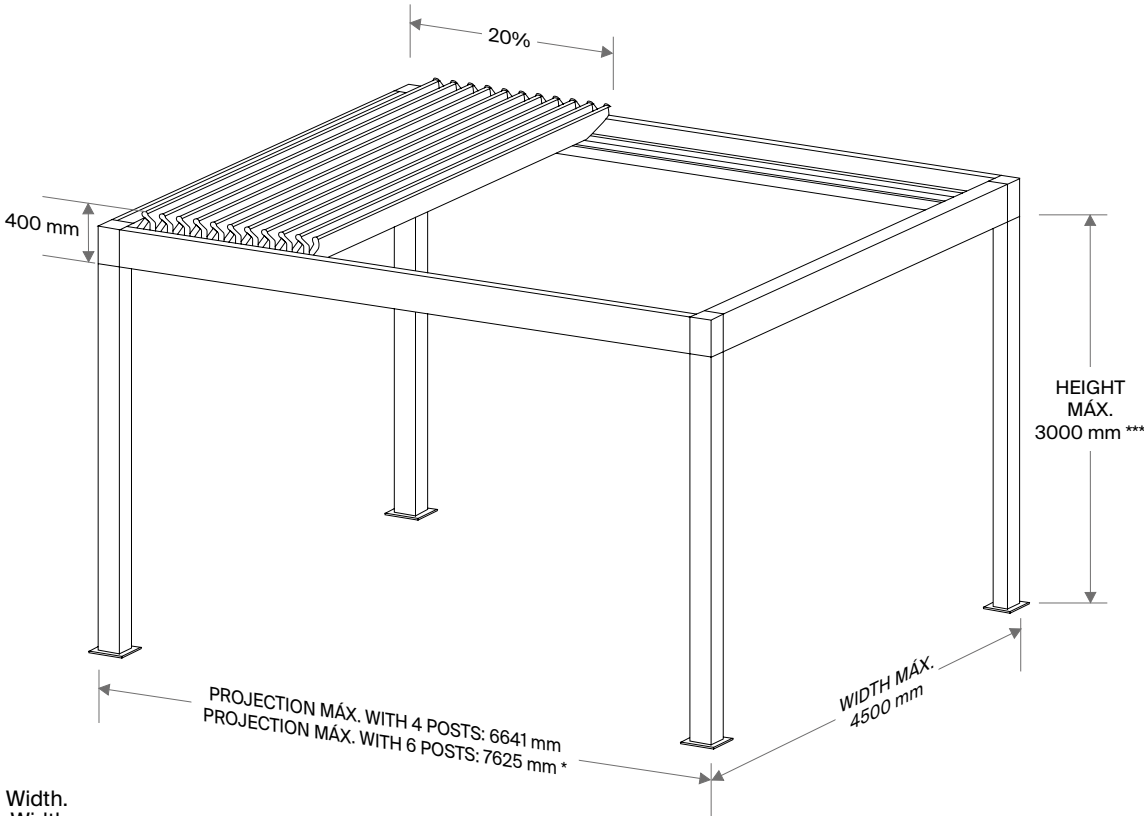
COMPONENTS



DIMENSIONS

n° Panels	Projection (mm)
5	1475
6	1721
7	1967
8	2213
9	2459
10	2705
11	2951
12	3197
13	3443
14	3689
15	3935
16	4181
17	4427
18	4673
19	4919
20	5165
21	5411
22	5657
23	5903
24	6149
25	6395
26	6641
27	6887 *
28	7133 *
29	7379 **
30	7625 **

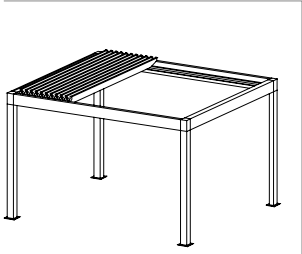
	min. (mm)	máx. (mm)
WIDTH	2000	4500
PROJECTION	1475 (with 5 panels)	7625 (with 30 panels)
HEIGHT	-	3000 (under gutter)



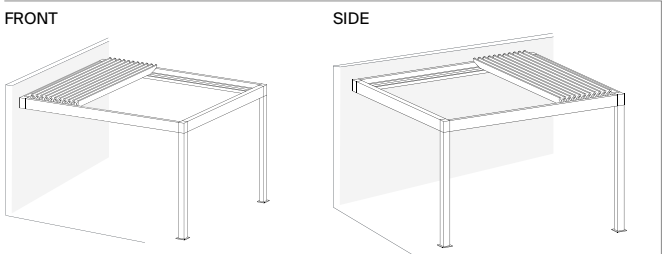
* available only for a 4000 mm Width.
** available only for a 4250 mm Width.
*** Maximum height under gutter with standard aluminium pillars.

INSTALLATION OPTIONS

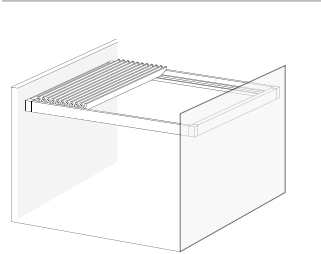
FREESTANDING



WALL-MOUNTED

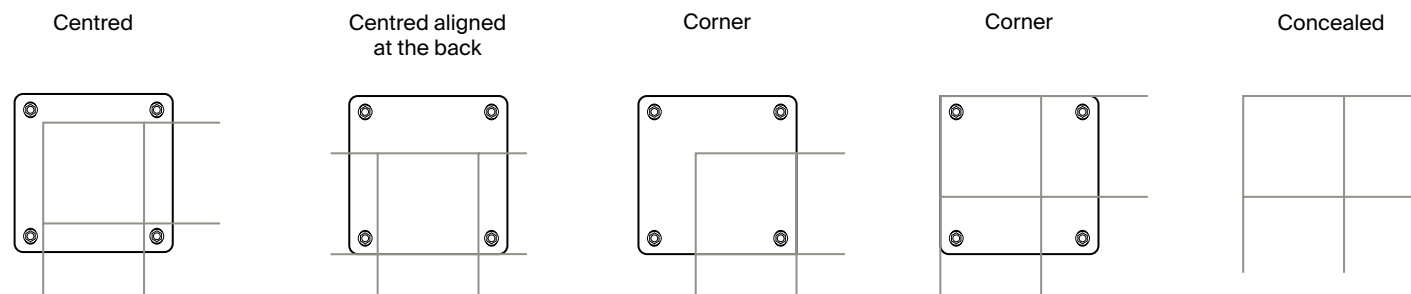


BETWEEN WALLS



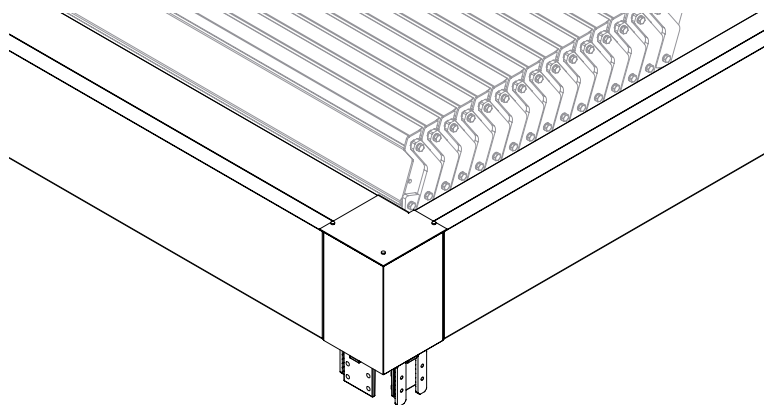
ANCHORS AND FIXINGS

POST-TO-GROUND FIXING



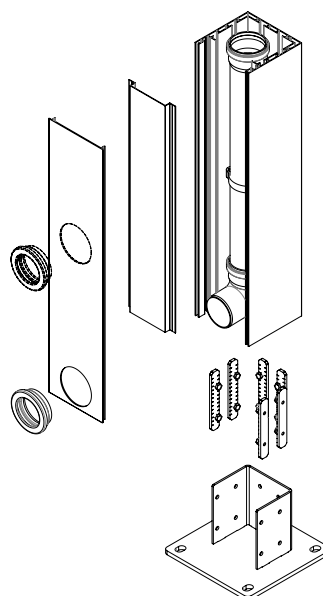
POWER SUPPLY AND WIRING

- The electrical cables are fully integrated and 100% compatible for outdoor use. Easy connection with IP68 waterproof connectors.
- Meanwell 240-24 power supply (for LED).



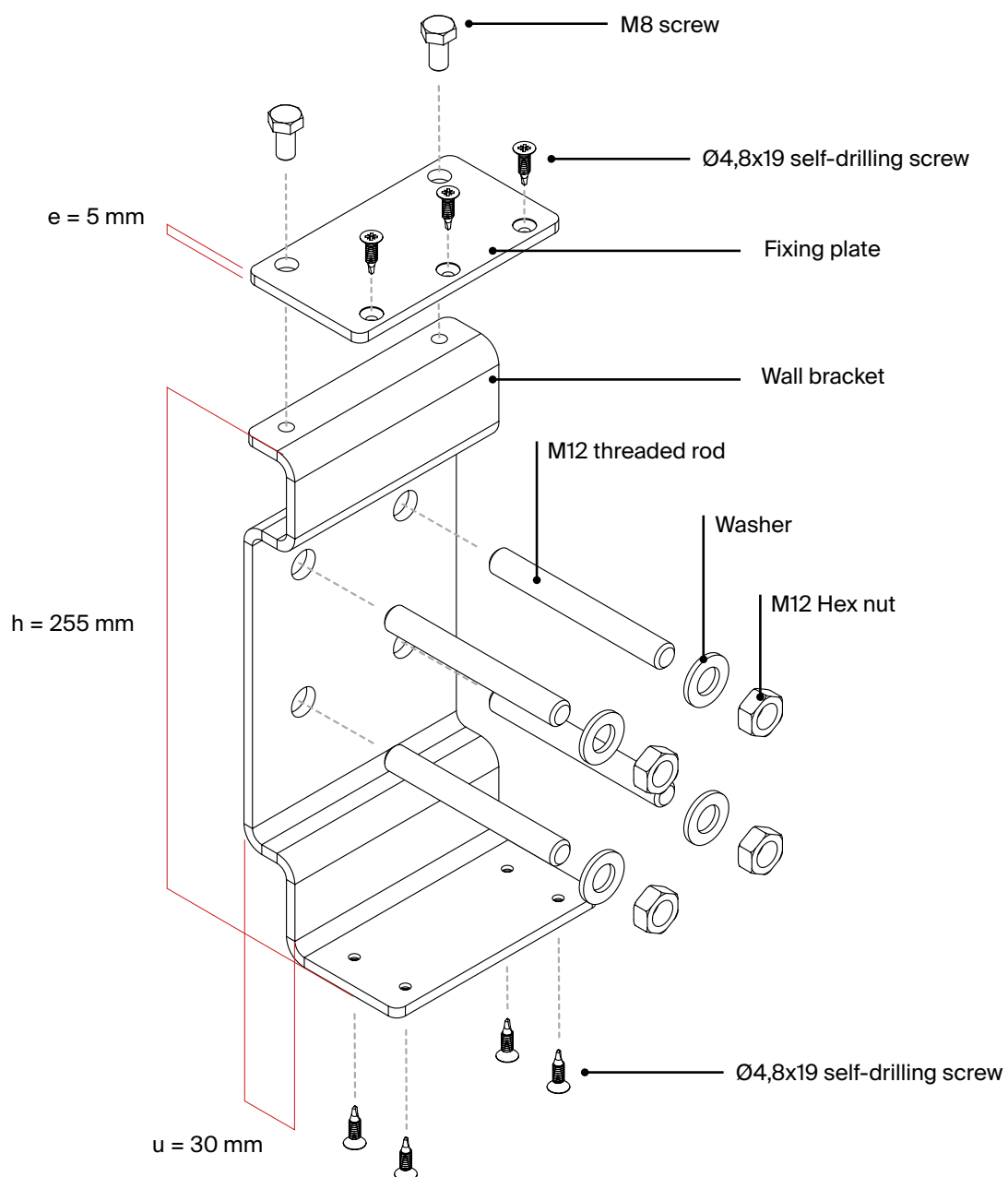
WATER DRAINAGE

- Integrated water drainage system.
- Ø 75 mm drainage pipe.
- The water outlet position can be arranged on site.



WALL BRACKET

⚠ If the pergola is wall-mounted, add 30 mm on the installed side.



DRAINAGE REQUIREMENT

Panel ud.	Projection (cm)	Width (cm)										
		200	225	250	275	300	325	350	375	400	425	450
6	172,1	1	1	1	1	1	1	1	1	1	1	1
7	196,7	1	1	1	1	1	1	1	1	1	1	1
8	221,3	1	1	1	1	1	1	1	1	1	1	1
9	245,9	1	1	1	1	1	1	1	1	1	1	1
10	270,5	1	1	1	1	1	1	1	1	1	1	1
11	295,1	1	1	1	1	1	1	1	1	1	1	1
12	319,7	1	1	1	1	1	1	1	1	1	1	1
13	344,3	1	1	1	1	1	1	1	1	1	1	2
14	368,9	1	1	1	1	1	1	1	1	1	2	2
15	393,5	1	1	1	1	1	1	1	1	2	2	2
16	418,1	1	1	1	1	1	1	1	2	2	2	2
17	442,7	1	1	1	1	1	1	2	2	2	2	2
18	467,3	1	1	1	1	1	1	2	2	2	2	2
19	491,9	1	1	1	1	1	2	2	2	2	2	2
20	516,5	1	1	1	1	2	2	2	2	2	2	2
21	541,1	1	1	1	1	2	2	2	2	2	2	2
22	565,7	1	1	1	2	2	2	2	2	2	2	2
23	590,3	1	1	1	2	2	2	2	2	2	2	2
24	614,9	1	1	1	2	2	2	2	2	2	2	2
25	639,5	1	1	2	2	2	2	2	2	2	2	2
26	664,1	1	1	2	2	2	2	2	2	2	2	2
27	688,7	1	2	2	2	2	2	2	2	2	2	
28	713,3	1	2	2	2	2	2	2	2	2	2	
29	737,9	1	2	2	2	2	2	2	2	2		
30	762,5	1	2	2	2	2	2	2	2	2		

* Average rainfall in Germany -
Risk factor = 1.5
The number of water outlets will be determined according to the table above. Please specifically inform your sales representative if you require additional water outlets.

MOTORISATION

- Integrated tubular motor with built-in receiver 230VAC-50Hz (Somfy®).
- Synchronised gear system with galvanised T10 toothed belt.
- Speed: 587 cm/min

HOME AUTOMATION

Optional motor and lighting control.
Sensors available for home automation system:

- Rain sensor
- Wind sensor
- Sunlight sensor

When the rain sensor is ordered, the Dry Contact Transmitter or the Izyzo Transmitter must also be ordered.

LIGHTING

IASO's special LED channel offers IP68-rated perimeter and ambient LED lighting options within the same profile. The specially designed lighting receiver ensures full integration with Somfy® protocols.

Perimeter: Warm white light, 120 LEDs/m
| approx. 2800–3500 K | 1094 lumens/m

Ambient: RGB 96 LEDs/m. Dimmable lights.

SENSORS

Rain, wind, sunlight, and combined sensors can be customised to ensure maximum comfort. These intelligent sensors are designed to automatically adapt to prevailing weather conditions. They provide protection against adverse weather by activating an automated system to close or retract the roof and protect the furniture and space beneath the covered area, even when manual control is not possible.

WIND RESISTANCE



Panel ud.	Projection (cm)	Width (cm)						
		200	250	300	350	400	425	450
6	172,1	11	11	11	11	10	9	9
8	221,3	11	11	11	11	10	9	9
10	270,5	11	11	11	11	10	9	9
12	319,7	11	11	11	11	10	9	9
14	368,9	11	11	11	11	10	9	9
16	418,1	11	11	11	11	10	9	9
18	467,3	11	11	11	11	10	9	9
20	516,5	11	11	11	11	10	9	9
22	565,7	11	11	11	10	10	9	9
24	614,9	11	11	10	10	10	9	9
26	664,1	11	11	10	10	10	9	9
28	713,3	11	11	11	11	10	9	
30	762,5	11	11	11	11	10		

*Tested on a system with a height of 300 cm and all sides open.
(Eurocode EN 1991-1-4 Terrain Category 4.)

Panel ud.	Projection (cm)	Width (cm)						
		200	250	300	350	400	425	450
6	172,1	11	11	11	11	9	9	9
8	221,3	11	11	11	10	9	9	9
10	270,5	11	11	11	10	9	9	9
12	319,7	11	11	11	10	9	9	9
14	368,9	11	11	10	10	9	9	9
16	418,1	11	11	10	10	9	9	9
18	467,3	10	10	10	10	9	9	9
20	516,5	10	10	10	9	9	9	9
22	565,7	10	10	9	9	9	9	9
24	614,9	9	9	9	9	9	9	9
26	664,1	9	9	9	9	9	9	9
28	713,3	11	11	10	10	9	9	
30	762,5	11	10	10	10	9		

*Tested on a system with a height of 300 cm and all sides closed.
(Eurocode EN 1991-1-4 Terrain Category 4.)

SNOW LOAD

Panel ud.	Projection (cm)	Width (cm)						
		200	250	300	350	400	425	450
6	172,1	356	342	308	289	244	105	60
8	221,3	333	315	291	271	199	105	60
10	270,5	314	296	269	236	172	105	60
12	319,7	281	257	230	197	155	105	60
14	368,9	244	229	209	176	137	105	60
16	418,1	224	206	185	159	121	94	60
18	467,3	195	169	146	128	101	82	60
20	516,5	159	136	107	95	83	71	60
22	565,7	107	91	80	75	74	67	57
24	614,9	95	88	78	72	70	63	54
26	664,1	84	77	75	71	67	61	52
28	713,3	237	221	196	167	131	105	
30	762,5	217	202	177	143	123		

*Tested on a system with a height of 300 cm. Values are expressed in kg/m².

CLASS	Grade Beaufort	Wind speed	Pressure	Environmental condition
0	0	0 - 1 km/h	0.05 N/m²	Calm
	1	1 - 5 km/h	1.21 N/m²	Very light breeze
	2	6 - 11 km/h	5.84 N/m²	Light breeze
	3	12 - 19 km/h	17.41 N/m²	Gentle breeze
1	4	20 - 28 km/h	37.81 N/m²	Moderate wind
2	5	29 - 38 km/h	69.64 N/m²	Fresh wind
3	6	39 - 49 km/h	115.79 N/m²	Cool wind
4	7	50 - 61 km/h	179.45 N/m²	Strong wind
5	8	62 - 74 km/h	264.08 N/m²	Gale
6	9	75 - 88 km/h	373.46 N/m²	Strong gale
-	10	89 - 102 km/h	501.74 N/m²	Storm
	11	103 - 117 km/h	660.16 N/m²	Violent storm
	12	118 - 133 km/h	853.06 N/m²	Hurricane

We believe in the *elegance* of engineering.