

FLAT-ROOF MOUNTING SYSTEMS SUN 600

Technical datasheet Nr 96

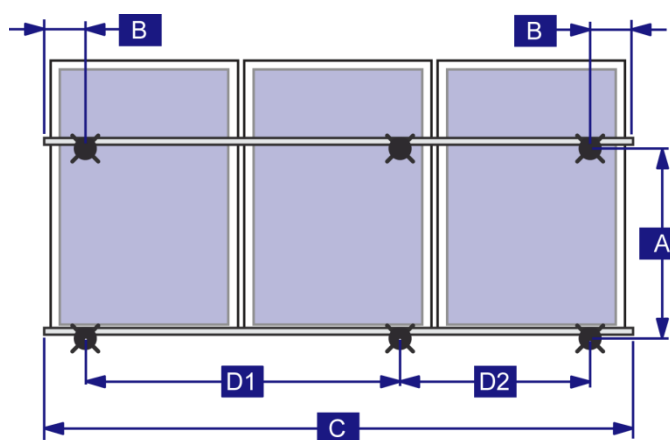
These mounting systems are designed to install rows of 1 to 6 collectors SUN 600 on flat-roof with frames tilted at 45°.

• TECHNICAL SPECIFICATIONS:

Number of collectors	Total aperture area (m ²)		Total gross area (m ²)		Total length (mm)	Frame weight (kg)
	SUN 600.20	SUN 600.23	SUN 600.20	SUN 600.23		
1	1.92	2.23	2.02	2.34	1 225	13
2	3.84	4.46	4.04	4.68	2 453	17
3	5.76	6.69	6.06	7.02	3 678	23
4	7.68	8.92	8.08	9.36	4 906	33
5	9.60	11.15	10.10	11.70	6 131	40
6	11.52	13.38	12.12	14.04	7 359	49

	Number of collectors					
	1	2	3	4	5	6
A	1 480 ±10					
B	Max. 453					
C	1 225	2 453	3 678	4 906	6 131	7 359
D1	800	1 600	1 600	1 600	2 400	1 600
D2	-	-	800	800	1 600	800
D3	-	-	-	1 600	800	2 400
D4	-	-	-	-	800	800
D5	-	-	-	-	-	1 600

Standard load 0,75 kN/m²



Calculus of the distance between collector rows to avoid shadows:

- $\beta = 90^\circ - 23,5^\circ - L$
- $z = H_{ht} \times [\cos(\alpha) + \sin(\alpha) / \tan(\beta)]$
- $d = z - H_{ht} \times \cos(\alpha)$

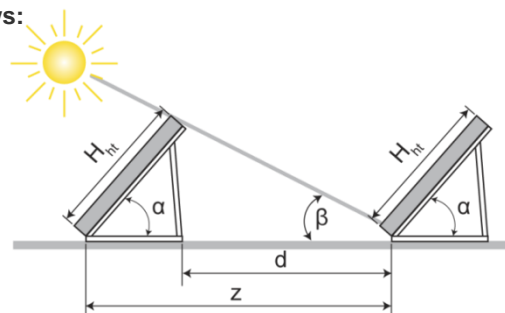
Where:

- β = Angle of the position of the sun
- L = Latitude of the place considered
- z = Spacing between rows of collectors
- α = Tilt angle of the collectors
- H_{ht} = Overall height of the collector

Example:

Field of collectors SUN600.23 ($H_{ht} = 2000\text{mm}$) located at Montpellier (Latitude = 43.6°) with an inclination of 45°:

- $\beta = 90^\circ - 23.5^\circ - 43.6^\circ = 22.9^\circ$
- $z = 2.000 \times [\cos(45) + \sin(45) / \tan(22.9)] = 4.76\text{m}$
- $d = 4.76 - 2.000 \times \cos(45) = 3.35\text{m}$



• AVAILABLE MODELS:

Designation	Reference
Mounting system 1xSUN600 on frame at 45°	50070201256
Mounting system 2xSUN600 on frame at 45°	50070201257
Mounting system 3xSUN600 on frame at 45°	50070201258
Mounting system 4xSUN600 on frame at 45°	50070201259
Mounting system 5xSUN600 on frame at 45°	50070201260
Mounting system 6xSUN600 on frame at 45°	50070201261