Q.FLAT-G6 S / EW

THE FLEXIBLE Q CELLS FLAT-ROOF MOUNTING SYSTEM FOR SOLAR MODULES IN SOUTH OR TWO-SIDED ORIENTATION

MAXIMUM YIELDS
Highest yields with a power density[1] of up to 187 Wp/m² and optimised module rear ventilation.

OPTIMAL USE OF THE ROOF AREA
The compact design and 10° elevation angle enables a roof area utilisation of up to 82 %. Unobstructed roof drainage in accordance with DIN 1986-100 is ensured.

SIMPLE CLICK SYSTEM
Quick and easy installation thanks to non-interchangeable click connections, measurement-free assembly and re-releasable connections. Length expansion effects are minimised.

IDEAL CABLE ROUTING
Q.FLAT-G6 enables separate installation of DC + / - (separation distances +150 mm). Easy cable management thanks to 3-fold edge clips and integrated cable duct cover.

MINIMAL BALLAST
Latest wind tunnel evaluations improve aerodynamics and increase system stability. Optional side covers are available for wind load reduction.

INTEGRATED FALL PROTECTION
According to DIN EN 795:2012 and CEN / TS 16415:2013 (in progress) certified, circumferential safety rope system is integrated and can optionally be extended by a rope system for max. 3 persons (max. 300 kg).

MAXIMUM SAFETY
Building authority approval Z-14.4-790 (extension applied for), UL 2703 (approval in progress), lightning current carrying capacity according to DIN EN 62561-1 (VDE 0185-561-1):2013-02 (extension applied for)

THE IDEAL SOLUTION FOR:
Commercial and industrial rooftop arrays

[1] When using Q.PEAK DUO ML-G9 395 Wp solar modules.

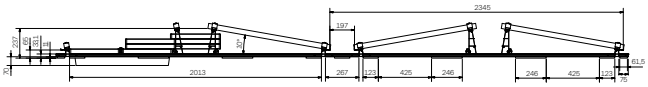
Engineered in Germany

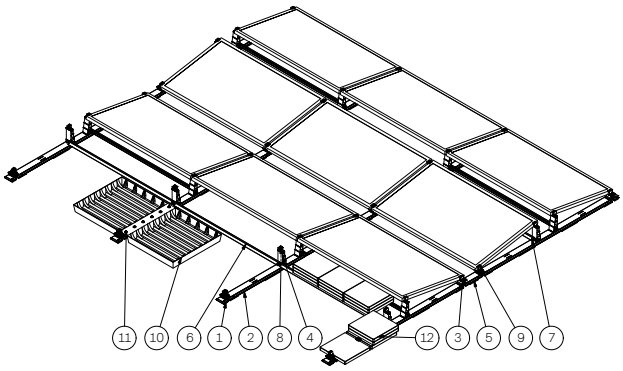
TECHNICAL SPECIFICATIONS

DESCRIPTION		Q.FLAT-G6 EW	Q.FLAT-G6 S
Application		Flat roof with foil, bitumen, gravel, greenery, sheet metal, concrete, open spaces	
Alignment		East-West	South
Inclination	[°]	10	
Approved Q CELLS solar modules		Q.PEAK DUO ML-G9 Q.PEAK DUO BLK-G9	Q.PEAK DUO-G6.X, Q.PEAK DUO-G8.X, Q.PEAK DUO BLK-G9, Q.PEAK DUO ML-G9.X
Connection		non-penetrating	
Area load	[kg / m²]	approx. 15 (occupied roof area)	approx. 10 (occupied roof area)
Roof pitch	[°]	max. 5	
Edge distances		Occupancy of the roof edge and corner areas possible	
Wind load	[kN / m²]	to 2.4	
Snow load	[kN / m²]	to 5.4	
System size	[m]	at least 2 double modules / maximum field size 20 × 20	at least 2 modules / maximum field size 20 × 20
Material		Exclusively high-quality aluminium EN-AW-6063-T3 and stainless steel A2-70. No galvanised components or plastics are used.	
Protection mat		11 mm thick high-tech protective mat with anti-slip coating for maximum protection against softener migration and roof membrane damage is already pre-assembled on the system.	
Certificates		Lightning current carrying system according to DIN EN 62561 (VDE 0185-561-1):2013-02 General building authority approval Z-14.4-790 for the aerodynamic flat roof system Testing according to UL2703 for the American market	

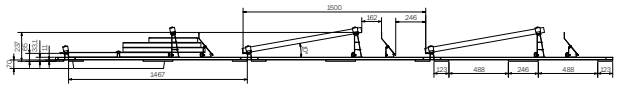
MECHANICAL SPECIFICATIONS

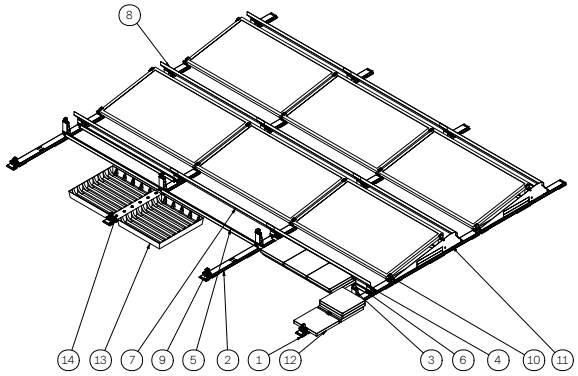
Q.FLAT-G6 EW





Q.FLAT-G6 S





No.	Number	Component	SAP no.
1	8	Q.FLAT-G6 Floor Profile AEBP TYPE 75	20006164
2	8	Q.FLAT-G6 Main Floor Profile HBP Type 2013	20006180
3	8	Q.FLAT-G6 Base B10 M6 Type 75	20006166
4	16	Q.FLAT-G6 Tower T10 Type 75	20006167
5	4	Q.FLAT-G6 Connection Profile V2BP Type 267	20006165
6	10	Q.FLAT-G6 Ballast Strut QBS TYPE 1840 or Q.FLAT-G6 Ballast Strut QBS TYPE 1682	20006169 20006230
7	20	Q.FLAT-G6 Screw Ballast S Type M8×30	20006175
8	16	Q.FLAT-G6 Middle Clamp MK Type 40	20006160
9	16	Q.FLAT-G6 End Clamp EK TYPE 35	20006162
10/11	6	Ballast Trough (on request)	
12	13	Ballast Stone 40×40×4 mm (not included in the scope of delivery)	

No.	Number	Component	SAP no.
1	4	Q.FLAT-G6 Floor Profile AEBP TYPE 75	20006164
2	12	Q.FLAT-G6 Main Floor Profile HBP Type 1467	20006179
3	12	Q.FLAT-G6 Tower T10 Type 75	20006167
4	12	Q.FLAT-G6 Back Panel Tower RWT10 Type 75	20006168
5	13	Q.FLAT-G6 Ballast Strut QBS TYPE 1840 or Q.FLAT-G6 Ballast Strut QBS TYPE 1740 or Q.FLAT-G6 Ballast Strut QBS TYPE 1682	20006169 20006205 20006230
6	26	Q.FLAT-G6 Screw Ballast S Type M8×30	20006175
7	9	Q.FLAT-G6 Backside RW10 Type 1800 or Q.FLAT-G6 Backside RW10 Type 1900	20006250 20006177
8	24	Q.FLAT-G6 Screw Side S Type M8×16	20006176
9	13	Q.FLAT-G6 Middle Clamp MK Type 40	20006160
10	12	Q.FLAT-G6 End Clamp EK TYPE 35	20006162
11	3 + 3	Q.FLAT-G6 Side Cover Left SDL S 10 Q.FLAT-G6 Side Cover Right SDR S 10	20006225 20006227
12	13	Ballast Stone 40×40×4 mm (not included in the scope of delivery)	
13/14	6	Ballast Trough (on request)	

NOTE: Always follow the installation instructions. Further information on approved use of the products is provided in the installation and operation manual or can be requested from Technical Service. You can find more information on the Q CELLS solar modules in the applicable module data sheets. Data sheets and installation instructions available at www.q-cells.com.

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