Steel open land system
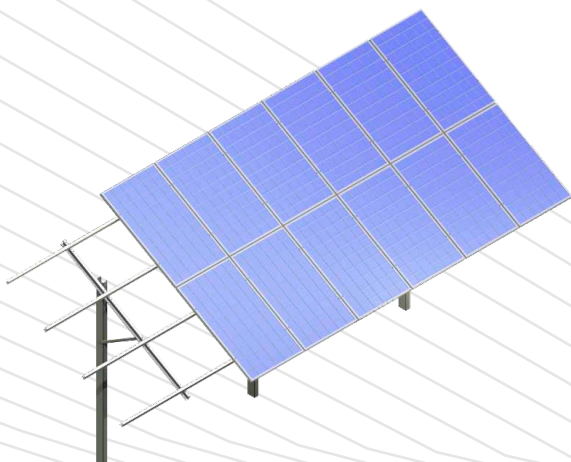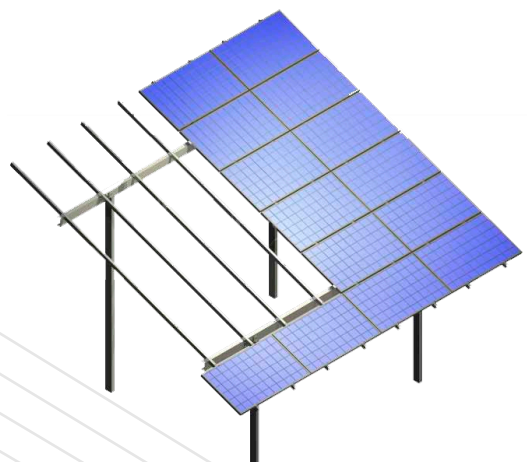
ISYS »

The ISYS steel frame ensures a timely input-output ratio of your solar park.

Plus points:

» **Optimised statics** with perfectly customised steel qualities and steel dimensions

» **Many possible variations** (based on wind and snow load)

» **Completely economical** thanks to perfectly coordinated system components

» **Assembly made easy** based on the experience of numerous building projects

» **Suitable for all panel types** (framed and unframed)

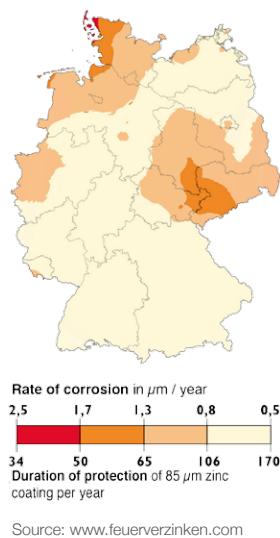» **5 year warranty** through resistant materials and special galvanisation

ISYS 1.1   **ISYS 2.1**

Description / technical data:

Specifications

Rate of corrosion in µm / year

| 2,5 | 1,7 | 1,3 | 0,8 | 0,5 |

| 34 | 50 | 65 | 106 | 170 |

Duration of protection of 85 µm zinc coating per year

Source: www.feuerverzinken.com

›› High value steels (S320GD - S350GD)
›› Galvanisation in special procedures (strip galvanising)
    Higher zinc adhesion than hot galvanisation (during drop test and ball impact test)
    Zinc quality Z600MA ≙ 600 g/m^2 ≙ average zinc coating layer approx. 80 µm in accordance with DIN EN 10327 (on customer request, thicker zinc coating also possible)
›› Partial HV screw connections (high-strength)
›› Connection parts made from hot galvanised steel or stainless steel
›› Panel fastening with and without clamps possible
›› Panels landscape: Table length up to 7m, up to 6 panels one above the other / Panels portrait: Table length up to 8.2 m, 2 panels one above the other
›› Inclination of 10 - 30°

Standardisation
(Table size is based on the load conditions in the sample table)

Characteristic value of snow load on the ground in kN/m^2	Wind zones / basic velocity pressures in accordance with DIN EN 1991-1-4/NA		
	WZ I (D) ≙ 22,5 m/s	WZ I (D) ≙ 25 m/s	WZ I (D) ≙ 27.5 m/s
sk = 0.65	T6425	T6425	T5425
sk = 0.85	T6425	T6425	T5425
sk = 1.05	T6425	T6425	T5425
sk = 1.25	T6425	T5425	T4425
sk = 1.45	T5425	T5425	T4425
sk = 1.65	T5425	T4425	T4425
sk = 1.85	T5425	T4425	T4425

Keys: T6425 = Table 6 x 4 panels, 25° (e.g. ISYS 2.1)

Geological surveys
Static

›› Location-based geological surveys
›› Individual system statics on the basis of location-based loads (wind and snow)
›› Statics calculation in accordance with Theory II. Order
›› Load assumptions in accordance with DIN 1055 / Euro code 1, DIN 4113, DIN 18800, Euro code 9 or client specific standards
›› FEM calculations for certification of the construction