



Ingenieurgesellschaft mbH

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project: 1403p

page:

LEG²⁰ Statics Certificate

We hereby confirm the structural safety of the photovoltaic mounting system LEG²⁰, based on norms and parameters as indicated underneath if the mounting system is used in accordance to the requirements of the manufacturer:

Module measurement: 1,650 x 1,000 mm
 Modul weight: 21 kgs
 Module inclination angle: 20°
 Maximum roof pitch: 7°
 Wind load calculated according to: DIN EN 1991-1-4
 Snow load calculated according to: DIN EN 1991-1-3

For the photovoltaic mounting system LEG²⁰ the following maximum loads are permissible:

value of basic wind speed $v_{b,0}$ [m/s]	basic wind speed pressure $q_{b,0}$ [kN/m ²]	wind gust pressure q_p [kN/m ²]	top wind speed [m/s]	snow load [kN/m ²]*	tensile load on screws (roof / ground attachment) [kN]**	shearing load on screws (roof / ground attachment) [kN]**
22.5	0.32	0.70	33.5	6.0	2.40	0.23
25.0	0.39	0.86	37.1	5.5	2.94	0.28
25.0	0.39	1.08	41.6	4.5	3.70	0.36
27.5	0.47	1.03	40.6	4.5	3.53	0.34
27.5	0.47	1.30	45.6	2.5	4.45	0.43
30.0	0.56	1.23	44.4	2.5	4.21	0.41
30.0	0.56	1.55	49.8	1.3	5.31	0.51
30.0	0.56	1.70	52.3	-	5.82	0.56

* allowable snow load based on horizontal plane

** safety factor 1,0

The structural analysis and confirmation of structural safety of the ground (roof), of the attachment to the ground and of the photovoltaic modules themselves are not scope of this certificate and have to be secured by the user.



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Client: Pandja Ltd.
Designer: T. Mohr GmbH & Co.KG