

Meyer Burger Tile

The solar roof tile.

Product type: MB_BF6AyBT_17

For a modern roof that protects, generates electricity with patented Heterojunction SmartWire Connection Technology (SWCT®) and impresses with its simple elegance.

The most beautiful electricity in the world, directly from the roof

Combines high-quality aesthetics with innovative solar technology, invisibly integrated

Historic preservation and solar energy hand in hand in roofing

Perfect for listed buildings, energy-efficient renovations, or high-end new constructions

Transforms complex roofs into powerful solar power plants

Especially suitable for roofs with many disruptive elements such as dormers, windows, or chimneys, maximizes the output on complex surface

Versatile combination with various roof tiles

Can be combined with roof tiles from various manufacturers, allowing installation in rows or offset.

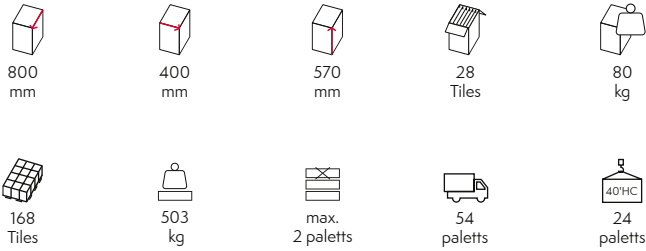


Residential systems
(roof-integrated)



Commercial systems
(roof-integrated)

Packaging



Mechanical specifications

Dimensions L x W x H	[mm]	521.2 x 334.0 x 26.3
Weight	[kg]	2.8
Deck width	[mm]	300.0
Deck length	[mm]	340.0
Number of Tiles	[n/m ²]	10
Min. roof pitch ¹	[°]	≥ 35
Front cover		Solar glass 3.2 mm, textured
Back cover		Float glass 3.0 mm
Housing		Powder-coated aluminum [RAL 9005]
Solar cell type		6 half-cells, mono n-Si, HJT with SWCT®
Junction box		1 diode, IP68 according to IEC 62790
Cables		PV cable 4 mm ² , 0.5 m long in accordance with EN 50618
Connectors		7: PV-GZX1500, in accordance with IEC 62852, IP68

Electrical specifications²

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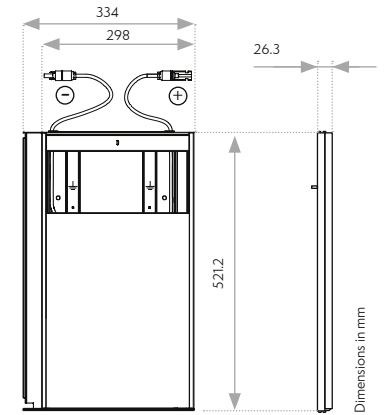
Power (sorting +/- 0.5 W)		STC ²	
Modul power	P _{max}	[Wp]	17.0
Area output	P/A	[W/m ²]	167
Short circuit current	I _{sc}	[A]	10.1
Open circuit voltage	V _{oc}	[V]	2.2
Current at MPP	I _{mpp}	[A]	9.1
Voltage at MPP	V _{mpp}	[V]	1.9
Efficiency	η	[%]	16.7

Temperature coefficients³

Temperature coefficient I _{sc}	α	[%/K]	+0.033
Temperature coefficient V _{oc}	β	[%/K]	-0.234
Temperature coefficient P _{MPP}	γ	[%/K]	-0.259

Certificates

General building inspectorate test certificate (abP),
Hail test with 55 mm hailstone according to IEC 61215 (MQT17)
Fire protection class, B _{ROOF} (fl) / EN 13501-5
Certifications applied for: IEC 61215, IEC 61730



Construction

Roof battens/substructure ^{1,5}	Requirements according to manufacturer's specifications of complementary bricks
Cabling	horizontal stringing
Screw connection	Mounting with 4 screws
Special complementaries ⁴	Snow guard holder, roof step, etc.

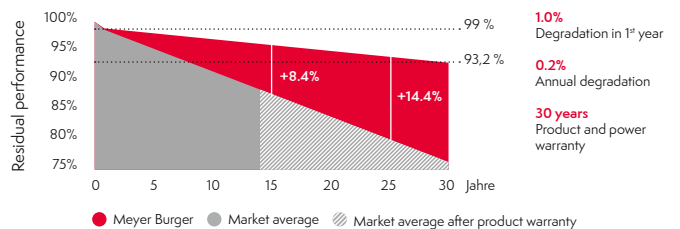
Properties of system design

Max. system voltage	[V]	600
Overcurrent protection rating [OCPR]	[A]	15
Max. test load ⁵	[Pa]	+12,000/-2,400
Max. design load	[Pa]	+8,000/-1,600
Ambient temperature	[°C]	-40 bis +85

Meyer Burger warranty⁶

Product warranty	[J]	30
Performance warranty	[J]	30
Performance after 1 year		≥ 99% of the rated power
Annual degradation	[%/J]	0.20
Performance after 30 years		≥ 93.2% of the rated power

Linear power warranty



WEEE-Reg.-Nr. DE 73583316

¹ Roof pitches of ≥ 20° are possible with rain-protected under-roofs
² According to STC: irradiance 1.000 W/m², module temperature 25 °C, spectrum AM1.5G, measurement according to IEC 60904-3, measurement tolerance: ±3%
³ The mentioned temperature coefficients are linear values
⁴ Complementary tiles, e.g., Braas Tegaltit, Nelskamp Planum, Creorton Kapstadt
⁵ Safety factor for test load = 1.5
⁶ Warranty conditions apply

Hinweis: All data and specifications are preliminary and subject to change without notice.

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