### Veh

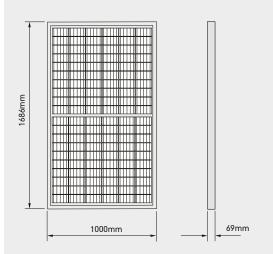
## Marley SolarTile®



Marley SolarTile® 335W photovoltaic panels offer the genuine cost-saving benefits of using renewable energy to help power our homes, along with sleek aesthetics and long-lasting, maintenance-free performance.



- Integrated with full Marley roof system and all tile types
- ▲ Renewable energy to reduce household bills
- Very low profile and unobtrusive
- ▲ Lightweight, compact and simple to install
- ▲ Market-leading fire performance\*
- Exceptional industry leading wind resistance performance
- ▲ 15 year guarantee





#### PITCHED ROOF INTEGRATION

Sleek, low-profile integrated solar that replaces the roof covering for an improved aesthetic and for simple roof maintenance, now at similar cost to above-roof panels.

#### WIND RESISTANCE

The certified wind resistance for Marley SolarTile®\* is more than four times higher than competitor products and suitable for even the most exposed locations.

#### **FIRE**

MARLEY ROOF

YFAR

YEAR

Marley SolarTile®\* is the only roof-integrated solar system accredited with the highest resistance to spread of flame and fire penetration in all European fire safety tests, achieving  $B_{\text{Roof}}$  T1, T2, T3 and T4.

#### **TECHNICAL DATA**

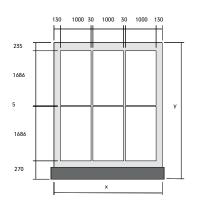
Size of PV16 panel	1000mm wide x 1686mm high
Aperture area	1.622m²
Minimum pitch	20°
Maximum pitch	60°
Body thickness (nominal)	69mm
Weight	21.7kg
Static roof loading	12.9kg/m² (distributed)
Characteristic wind resistance	5.32kPa
Ultimate design load**	5.32kPa
Positive design load (IEC 61215)	5.4kPa
Fire rating EN 13501-5	B <sub>ROOF</sub> (T1, T2, T3, T4)
Authority*	IEC 61215, 61730, TUV, MCS05, MCS12
Compatible roof coverings	All Marley concrete and clay plain, and interlocking tiles. Also compatible with tiles and slates of other manufacturers

<sup>\*\*</sup> Design resistance to ultimate loads includes a partial material safety factor of 1.0

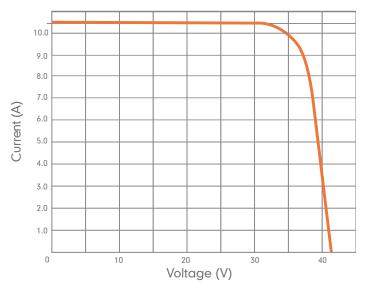
### TYPICAL CONFIGURATION







#### **IV CURVE**



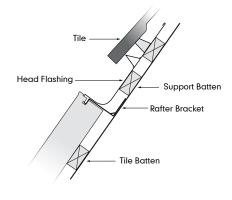
#### **ELECTRICAL DATA**

Model	PV16-335
Peak power*	335Wp
Efficiency**	20.7%
No. of cells	60x2
Max. power voltage (V <sub>mpp</sub> )	34.7V
Max. power current (I <sub>mpp</sub> )	9.7A
Open circuit voltage (V <sub>OC</sub> )	42V
Short circuit current 9 (I <sub>SC</sub> )	10.3A
NOCT†	44°C
Cell type	Monocrystalline Silicon
Power temperature co-efficient	-0.38%/°C
Current temperature co-efficient	0.05%/°C
Voltage temperature co-efficient	-0.30%/°C
Max. system voltage	1000 V <sub>DC</sub>
Max. fuse rating (A)	20
Safety classification	Class II
Electrical connectors	Genuine Stäubli MC4 PV-KST4, PV-KBT4

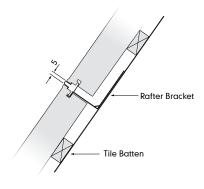
<sup>\*</sup>Subject to a manufacturing tolerance of +/- 3%. \*\* Based on aperture area.

Electrical specification measured under standard test conditions: Irradiation 1 kW/m² with light spectrum AM 1.5 and a cell temperature of 25°C.

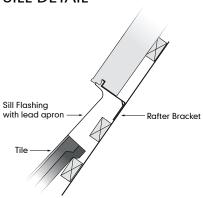
#### **HEAD DETAIL**



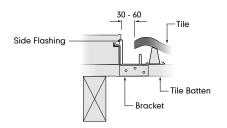
#### JOIN DETAIL



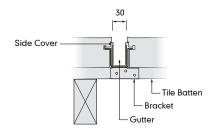
#### SILL DETAIL



#### SIDE DETAIL



#### **GUTTER DETAIL**



## Specification toolkit

Marley provides a comprehensive technical service and a range of online tools to ensure design performance and compliance to the latest Building Regulations and NHBC Technical Standards.

▲ Fixing specifications 
▲ NBS clauses ▲ CAD details

■ BIM models

Visit marley.co.uk/specifying

# Tell me more

Call 01283 722588 Email info@marley.co.uk Or visit marley.co.uk/solar



<sup>†</sup> Nominal Operating Cell Temperature