

## Intecto Roof Integrated PV Tile

The new Intecto roof integrated PV tile has been designed and developed to provide a PV solution that courses into standard roof tiles. The PV tiles protect your home from the elements whilst producing electricity and are eligible for Government backed Feed-In-Tariffs.

Available in a range of colours, Intecto PV tiles enable architects, house builders and installers to incorporate PV seamlessly into a range of roof coverings. The fully integrated PV tile is an MCS 12 approved product that satisfies rigorous and established European and International standards. It is designed to comply with planning conditions by offering a more aesthetically pleasing alternative to "on-roof" PV panels.

Designed to course with most roof tiles, the Intecto roof integrated PV tile is a cost effective option to incorporate renewable energy technology into the fabric of the building where previously this would not have been an option.

### Intecto PV tiles feature:

- **Improved aesthetics: Frameless Intecto PV tiles sit flush with standard roof tiles, to provide a conventional finish**
- **Ease and speed of installation: Fitted to standard wooden battens using traditional roofing practice, one Intecto PV tile covers the width of five standard interlocking concrete tiles**
- **Available in colours: Match roof covering to comply with planning conditions**
- **Light weight: Reduce roof loading and eliminate need for reinforcement of roof trusses, when compared to on roof PV**
- **Extensive testing: Certificated for MCS 012 weather-tightness, wind loading and spread of fire**
- **Contributes towards achieving higher levels of Code for Sustainable Homes and BREEAM**

### Why chose Romag?

- **High quality, UK manufactured - exempt from EU import duties**
- **Experience working with volume housebuilders**
- **MCS certified and BSI Kitemark**
- **Positive tolerance of up to 3%**
- **Bypass diodes to minimise power loss when shaded**
- **10 year manufacturer's workmanship guarantee**
- **25 year linear performance guarantee**
- **Experienced and knowledgeable staff**
- **Flexible and responsive customer services**

The Intecto system includes:

- Intecto solar PV tiles
- Roof fixings

### Test Standards

- MCS 012
- Weather-tightness tested by BRE to PIT Agreed Roofing Industry standards EN15601: 2009
- External fire exposure test to BS 476-3: 2004, AA rating
- Designed & manufactured to BS EN 490: 2004 where appropriate

### Quality

Romag's processes are also certified by BSI to the latest Quality Standard BSEN ISO 9001: 2008 and Environmental standard ISO 14001.

### Safety

Intecto PV tiles are certified by IPSOL in the UK in accordance with IEC 61215 Edition 2 and IEC 61730. Manufactured in an ISO18001 factory.

### Maintenance

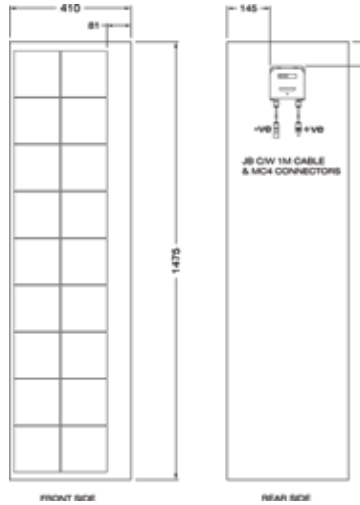
Intecto solar PV tiles are passive with no moving parts to wear out and if installed at an angle of over 22.05° are self cleaning in most locations. We do however, recommend an inspection of the modules at least once a year and any dirt build up should be cleaned off.

### Installation

Please refer to the Intecto Installation Guide before starting installation.

Intecto PV tiles must be laid and fixed to comply with:

- BS 5534:2003+Amendment 1:2010 Code of Practice for slating and tiling.
- BS 8000-6:1990 Workmanship on building sites. Code of practice for slating and tiling of roofs and claddings.



### Temperature Characteristics

#### Coefficients:

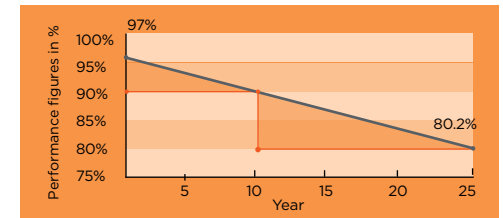
Power	-0.45%/°C
Voltage	-0.49%/°C
Current	0.38%/°C
NOCT = 45°C	

### Intecto 18 cell module Electrical Characteristics

	Intecto	Intecto Colour - Terracotta
<b>Pmp</b>	<b>70</b>	<b>68</b>
<b>Voc</b>	<b>11.52</b>	<b>10.9</b>
<b>Isc</b>	<b>8.43</b>	<b>8.27</b>
<b>Vmp</b>	<b>8.87</b>	<b>8.6</b>
<b>Imp</b>	<b>7.93</b>	<b>7.72</b>
<b>Ff</b>	<b>72.4%</b>	<b>73.7%</b>

### Linear Performance Warranty

- 10 year product warranty
- 25 year linear power warranty



- Romag linear performance guarantee
- Other manufacturers stepped performance guarantee

Dimensions	Intecto 18
Size of tile (Depth x Width)	410mm x 1475mm
Maximum Gauge	345mm
Headlap	75mm
Batten spacing at maximum gauge	345mm
Covering capacity at maximum gauge (75mm headlap)	2 Intecto tiles per m <sup>2</sup>
Cover width	1475mm
Profile depth	8-32mm
Hanging length	397mm
Weight as laid (75mm headlap)	18 kg per m <sup>2</sup>
Weight per tile	6.0 kg
Batten size (600mm rafters)	50mm x 25mm
Minimum roof pitch at 75mm headlap	22.5°
Screw size/type for tiles	4.5mm x 45mm self tapping stainless steel screws



### Romag Limited

Leadgate Industrial Estate, Leadgate,  
Consett, Co. Durham, England, DH8 7RS

Tel: **+44 (0) 1207 500 000**  
Email: **sales@romag.co.uk**  
or visit: **www.romag.co.uk**