

metrotile[®]
lightweight roofing systems

MetroLightPower

Metrotile integrated Photovoltaic System



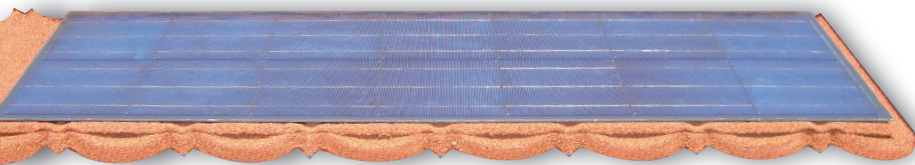
Get your home or business covered with a good-looking lightweight roof with integrated solar tiles!

- ▶ Harness energy from natural light in new build or refurb
- ▶ The system offsets the cost of the standard roof covering
- ▶ The mounting system is manufactured from lightweight aluminium and is merged into the roof line with internal natural cooling
- ▶ Life expectancy of the cell in excess of 25 years
- ▶ Supplied in complete kits to simplify your solar installation
- ▶ Solar panels are individual exchangeable
- ▶ Available for all Metrotile profiles

Why Metrotile?

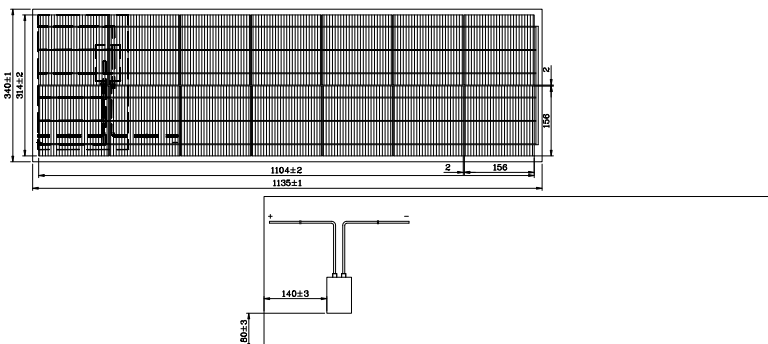
For any modern building project, a new or refurbished roof needs to be:

- ▶ Made from the Highest Quality Materials
- ▶ Sensitive to the Environment
- ▶ Aesthetically Pleasing
- ▶ Resistant to Extreme Weather Conditions
- ▶ Long Lasting
- ▶ Low Maintenance
- ▶ Low Noise
- ▶ Economical because of fast installation, less transport, almost no waste...



Cell characteristics

Cell type	Multicrystalline silicon
Cell strings	1
N° of cells	14
Cell dimensions	156x156mm



Module characteristics

Electrical characteristics (irradiance 1000W/m² module temperature 25°C, spectrum AM 1.5)

	1000W/m ²	800W/m ²	500W/m ²	200W/m ²
Peak power (P _{mpp})	51 Wp	37 Wp	23 Wp	9 Wp
Peak power voltage (V _{mpp})	6,73 V	6,65 V	6,6 V	6,6 V
Peak power current (I _{mpp})	7,60 A	5,55 A	3,47 A	1,39 A
Open circuit voltage (V _{oc})	8,57 V	7,80 V	7,80 V	7,80 V
Short circuit current (I _{sc})	8,13 A	6,56 A	4,12 A	1,68 A
Encapsulated solar cell efficiency	15 %	15 %	15 %	15 %
Maximum system voltage	715-1000 V	715-1000 V	715-1000 V	715-1000 V

Temperature coefficients

Open circuit voltage (V _{OC})	-0,027 V/°C
Short circuit current (I _{sc})	1,7 mA/°C

Physical characteristics

Lamination	Laminate with high transmittance tempered glass, transparant EVA en Tedlar
Dimensions	1335x340mm
Total weight	4 kg

Output Terminal

Small weatherproof junction box + 2 cables and connectors

Peak power warranty

1 year warranty 90% of the original power
The modules are designed to meet the international specification IEC 61215

Temperature ratings

-40 to +90 °C storage and operating temperature

Metrotile
scandinavian a/s

Løvevej 14 · DK-7700 Thisted
Tel. +45 70 20 99 01 · Fax +45 70 20 99 02
info@metrotile.dk · www.metrotile.dk