

Notes

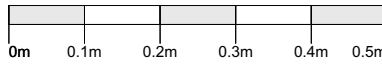
Do not scale from this drawing except for planning purposes. All dimensions must be checked on site before any work begins.

All goods, materials, and workmanship must comply with current Building Regulations, British Standards, and relevant Codes of Practice.

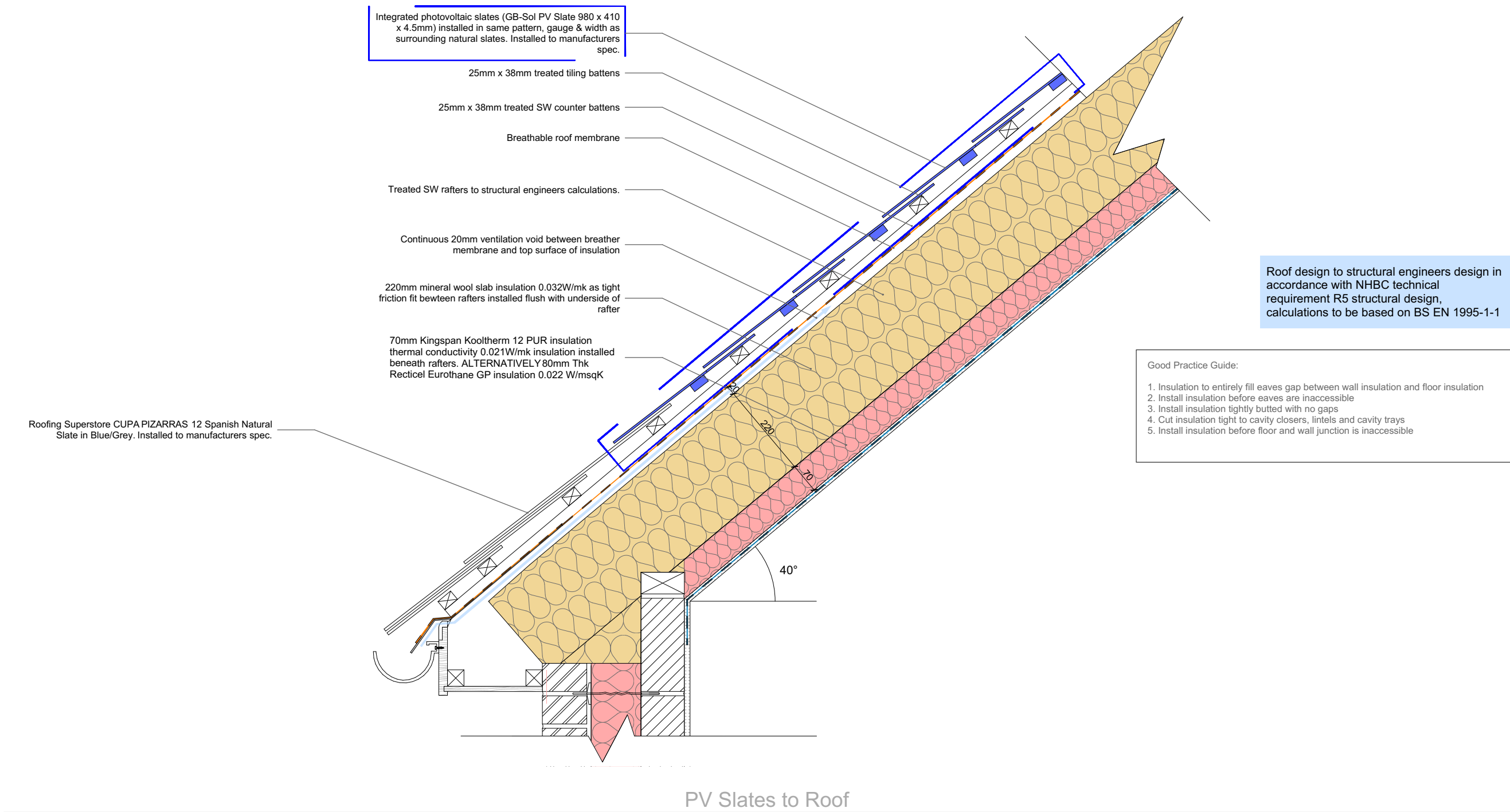
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Drawing to be printed A1



Scale 1-10



Issue Version	By	Checked	Approved
1.4	LS	BC	BC

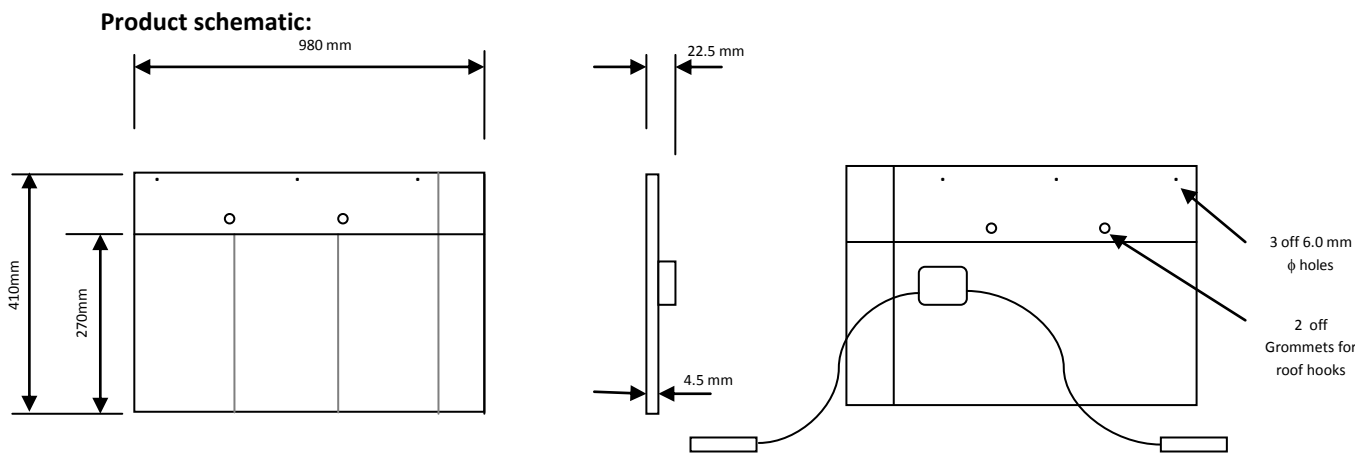
Technical Data Sheet

PV Slate

The PV Slate is a photovoltaic unit that visually emulates a row of 3 standard 24" x 12" (600 mm x 300 mm) 'Duchess' roofing slates. The product has a very good colour match to traditional 'blue', 'grey' and 'black' slate grades¹, and is installed using three stainless steel screws through prepared holes along the top edge of the unit and two stainless steel roof hooks at the bottom edge of the slate, on a 270 mm batten gauge.

The product is designed to be linked together in a series of 'strings' to feed DC electrical power into a suitable inverter for either on-site consumption or export. The inverters used are to have permanent insulation monitoring installed.

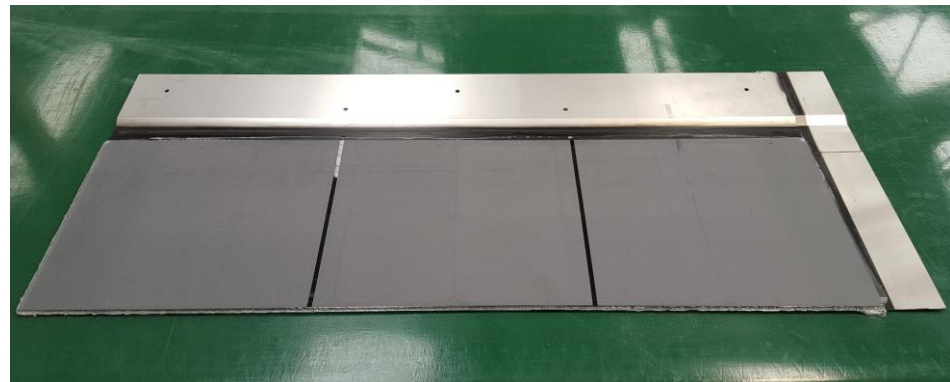
Product: PV Slate product installed in a slate roof



¹ Roofing slate is a natural product that varies in appearance according to both origin and weather exposure, so exact colour matching is impossible to guarantee, however please contact GB-Sol Limited for recommended materials and slate selection to achieve the best colour alignment.



Technical Data Sheet



Product specifications:

Mechanical	Nominal Dimensions (L x W x T)	980 mm x 410 mm x 4.5 mm
	Connectors	Multi-contact connectors MC4 type 1.0 m fly leads
	Junction box	Suncon PV Technology Ltd junction box
	Slate weight (individual product)	3.5 Kg
	Slate product packaging	Standard palletised carton containing 25 Carton dimensions 1000mm (L) x 800 mm (W) x 450 mm (H) plus Euro pallet Packed weight 125 Kg (including pallet)
	Roof mounting method	Using stainless steel fixing screws: - 3 off M5 x 25 mm A2 pan head wood screws - 2 off Roof Hooks 2.7mm 316 St steel black powder coated - 2 x Rubber Grommets assembled to panel Batten gauge 270 mm
Electrical	Minimum roof angle (when applied in accordance with BS5534:2014)	20° - with a functional weatherproof sub-roof system
	25 PV Slates per KiloWatt	Roof coverage per KiloWatt 6M²
	Nominal output at STC (P _{max} MPP)	40 Wp. (+/- 05%)
	Short Circuit Current - I _{sc}	5.77 A
	Open Circuit Voltage - V _{oc}	7.76 V
	Current at MPP	5.46A
	Voltage at MPP	6.2V
	Temperature coefficient of power	-0.40 %/K
	Temperature coefficient of Voltage - V _{oc}	-0.32 %/K
	Temperature coefficient of current- ISC	0.042 %/K
	Maximum permissible system voltage - V _{max}	600 V (Maximum string length is 77 PV Slates)



Note: Under normal conditions, a photovoltaic unit is likely to experience conditions that produce more current and /or voltage than reported at standard test conditions. Accordingly the values of I_{sc} and V_{oc} specified for this product should be multiplied by a factor of 1.25 when determining component voltage ratings, conductor ratings, fuse sizes and size of controls connected to the PV output.

Note: PV Slate is not feedin tariff eligible

Maintenance: Self cleaning due to roof pitch. Roof access via padded ladders only - no access during earth faults.

Warranty: The PV Slate has a 10 year product and power performance warranty.
Power performance warranted as a minimum of 80% of initial estimated output after 10 years

Contacts: GB-Sol Ltd Renewable Energy Works, Building B2, Taffs Fall Road, Treforest Ind Est, Pontypridd CF37 5TF

T: +44(0)1443 841 811 **E:** info@gb-sol.co.uk **W:** www.gb-sol.co.uk

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ecotecture

ECOLOGICAL ARCHITECTURE

01444 416745 info@ecotecture.co.uk
www.ecotecture.co.uk

31 Sussex Road Haywards Heath
West Sussex RH16 4DZ

Client: David Thackeray

Address: Dumbrells
Church Platt
Cuckfield
RH17 5LA

Description: New Dwelling PV Slate Detail & Manufacturer's Specification

Scale: 1:10 Date: April '26
Drawn: AT Checked: RM

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