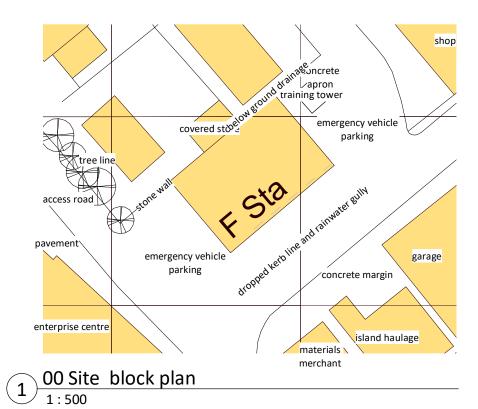


2 00 Site location plan 1:1250



PL P1 31/05/2018 Issued for Planning

STATUS REV DATE DESCRIPTION

CLIENT
Hitachi Europe Ltd.

REVISED BY

| leuan Evans | CHECKED BY |
| Edward Flood |

ORIGINATOR NO 151838

CONSULTANT

STRIDE TREGLOWN

Responsibility is not accepted for errors made by others in scaling from this drawing. All construction information should be taken from figured dimensions only.

www.stridetreglown.co m PROJECT

IoS Smart Island St Mary's Fire Station, Isles of Scilly, TR21 OJY

DRAWING TITLE

Site Location and Block Plan

SUITABILITY STATUS

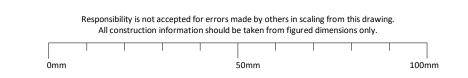
PL: PLANNING

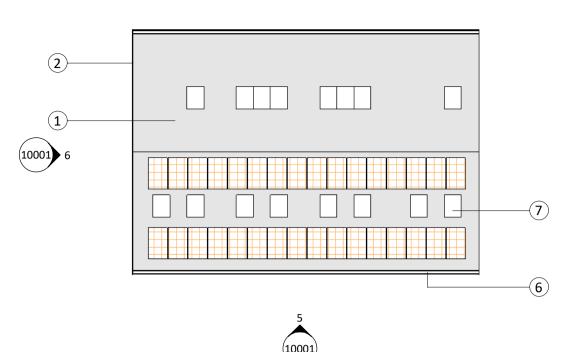
As SCALE @ A3

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | CLASSIFICATION |

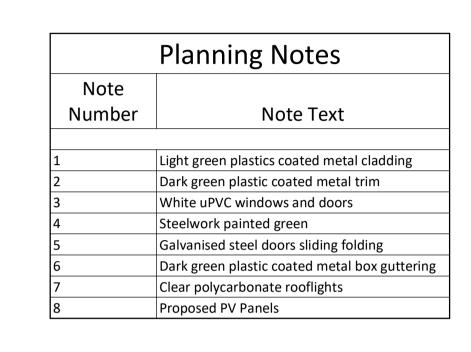
151838-STL-XX-ZZ-DR-A-XXXX-10000

P1





7 <u>Level 02 Roof</u> 1:200

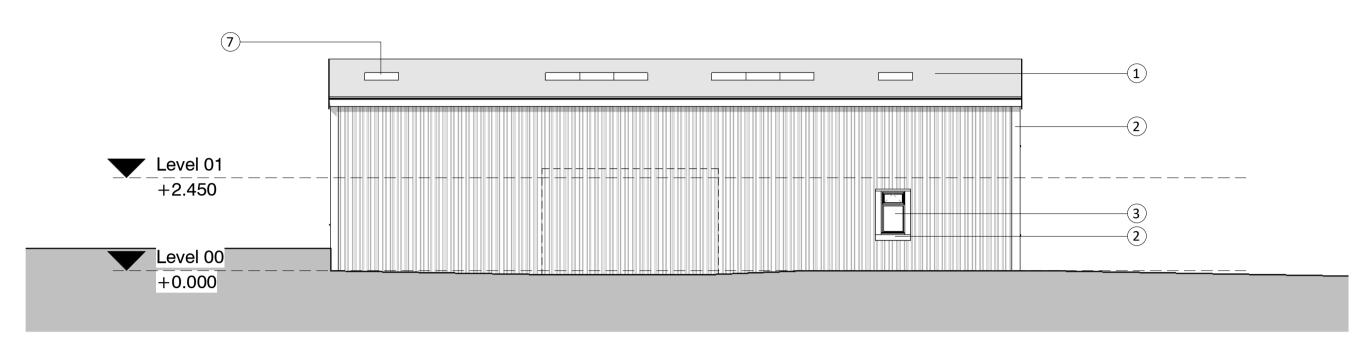


2
Level 01
+2.450

2
Level 00
+0.000

GL at 900mm from building face

GL at 900mm from building face



North West Elevation

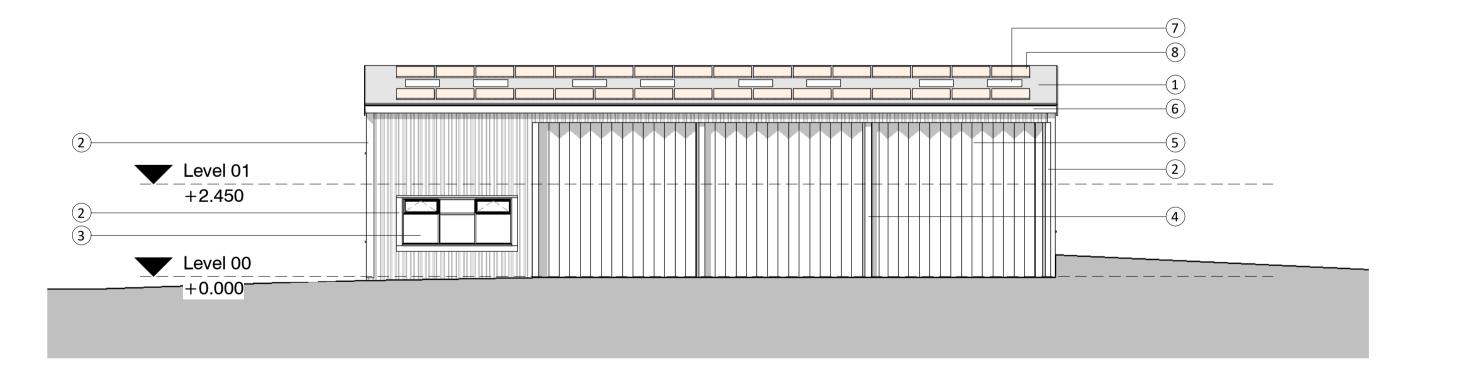
1:100



6 South West Elevation 1:100

North East Elevation

1:100



5 South East Elevation
1:100

PL P1 31/05/2018 Issued for Planning

STATUS REV DATE DESCRIPTION

CLIENT REVISED BY

leuan Evans

CHECKED BY

Edward Flood

ORIGINATOR NO

151838

CONSULTANT

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PROJECT

IoS Smart Island
St Mary's Fire Station,
Isles of Scilly,
TR21 OJY

Drawing title

Plans and Elevations

SUITABILITY STATUS
PL: PLANNING
As indicated @ A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | CLASSIFICATION | NUMBER REVISION

151838-STL-XX-ZZ-DR-A-XXXX-10001
P1

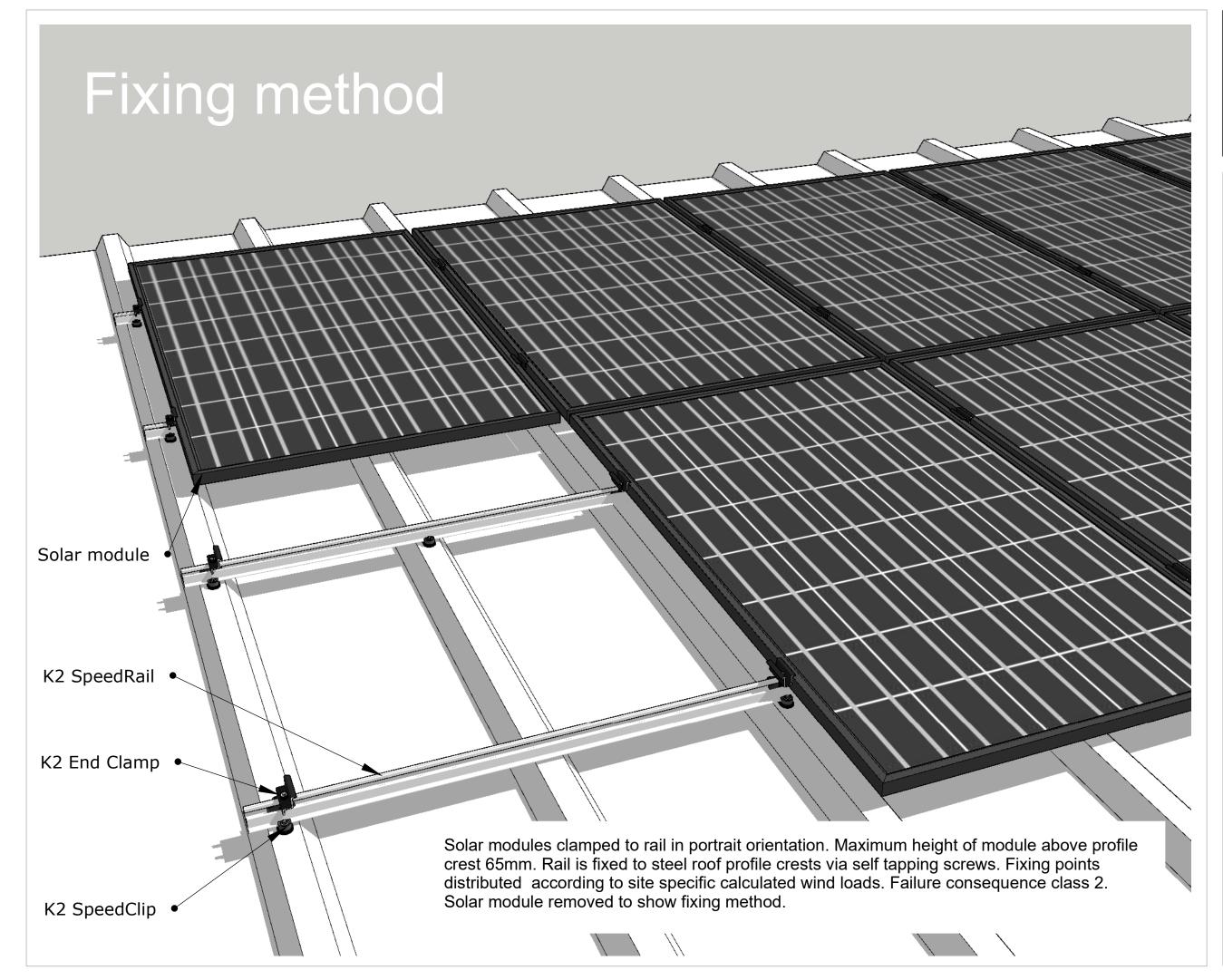
St Marys Fire Station

9.7kW South 9,600kWh Annual generation

9.7kW South 9,600kWh Annual generation

Array layout

9.7kW South 9,600kWh Annual generation



Q.ANTUM DUD Q.PEAK DUO BLK-G5 300-320 **Q.ANTUM SOLAR MODULE**

The new Q.PEAK DUO BLK-G5 solar module from Q CELLS impresses with its outstanding visual appearance and particularly high performance on a small surface thanks to the innovative Q.ANTUM DUO Technology. Q.ANTUM's world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions — both with low-intensity solar radiation as well as on hot, clear summer days.



Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.3%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee2.



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.













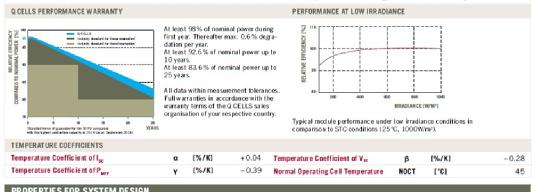


- 1 APT test conditions according to IEC/TS 62804-1:2015, method B (-1500V, 168h)
- See data sheet on rear for further

QCELLS

1670 mm × 1000 mm × 32 mm (including frame) Weight Front Cover 3.2mm thermally pre-stressed glass with anti-reflection technolog \Box Back Cover Composite film Frame Black anodised aluminium Cell 6 × 10 monocrystalline Q.ANTUM solar cells Junction box 66-77mm × 115-90mm × 15-19mm 4 mm² Solar cable; (+) 1000 mm, (-) 1000 mm Multi-Contact MC4 or MC4 intermateable, IP68. Connector ELECTRICAL CHARACTERISTICS

POV	WER CLASS		285	290	295
MIN	IIMUM PERFORMANCE AT STAN	DARD TEST CONDITIONS, STC1 (POWER TOLE	RANCE +5W / -0W)		
	Power at MPP ²	Pmpp	285	290	295
_	Short Circuit Current*	I _{sc}	9.56	9.63	9.70
Minim um	Open Circuit Voltage*	V _{oc}	38.91	39.19	39.48
	Current at MPP*	I _{MPP}	8.98	9.07	9.17
	Voltage at MPP*	VMPP	31.73	31.96	32.19
	Efficie nc y ²	η	≥17.1	≥17.4	≥17.7
MIN	IIMUM PERFORMANCE AT NORM	MAL OPERATING CONDITIONS, NOC3			
Minimum	Power at MPP ²	P _{MPP}	210.9	214.6	218.3
	Short Circuit Current*	I _{sc}	7.71	7.77	7.82
	Open Circuit Voltage*	Vec	36.38	36.65	36.92
	Current at MPP*	Inte	7.04	7.12	7.20
	Voltage at MPP*	V _{MPP}	29.95	30.14	30.33
00	0W/m², 25°C, spectrum AM 1.5 G	2 Measurement tolerances STC ±3%; NOC ±5%	3 800 W/m2, NOCT, spectrum AM 1.5G	* typical values, actual values may differ	



Temperature Coefficient of P _{MPP}	Y	[%/K]	-0.39	Normal Operating Cell Temperature	NOCT	[°C]	45
PROPERTIES FOR SYSTEM DESIGN		100		300			
Maximum System Voltage	Vsys	[V]	1000	Safety Class		II	
Maximum Reverse Current	I _R	[A]	20	Fire Rating		С	
Wind/Snow Load (Test-load in accordance with IEC 61215)		[Pa]	4000/5400	Permitted Module Temperature On Continuous Duty		-40°C up to +85°C	
QUALIFICATIONS AND CERTIFICATES				PARTNER			

VDE Quality Tested, IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), Application class A. This data sheet complies with DIN EN 50380.





NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation

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