

Project Design and Calculation Results

The results have been calculated using following Standard and coefficient results from wind tunnel testing:

BS EN 1991-1-4

Date of Calculation: 20.06.2016

Name of Project: SUNFIX - 4192 - ns - Acland Burkley School

Revision: 1

Project Location: 93 Burghley Road, London NW5 1UJ

Roof Height: 9,00 m

Basic Wind Speed: 21,5 m/s

Peak Velocity Pressure: 0,57 kN/m² = 30 m/s = 109 km/h

Weight of Mounting System: 581 kg

Weight of Modules: 1554 kg

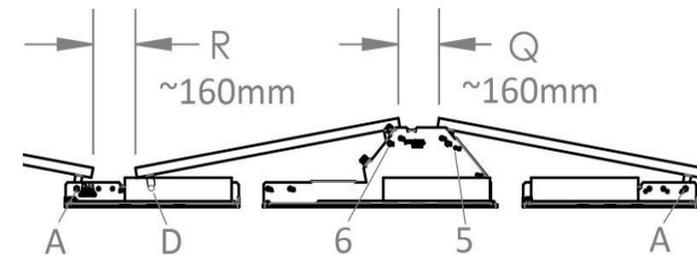
Weight of Ballast: 984 kg

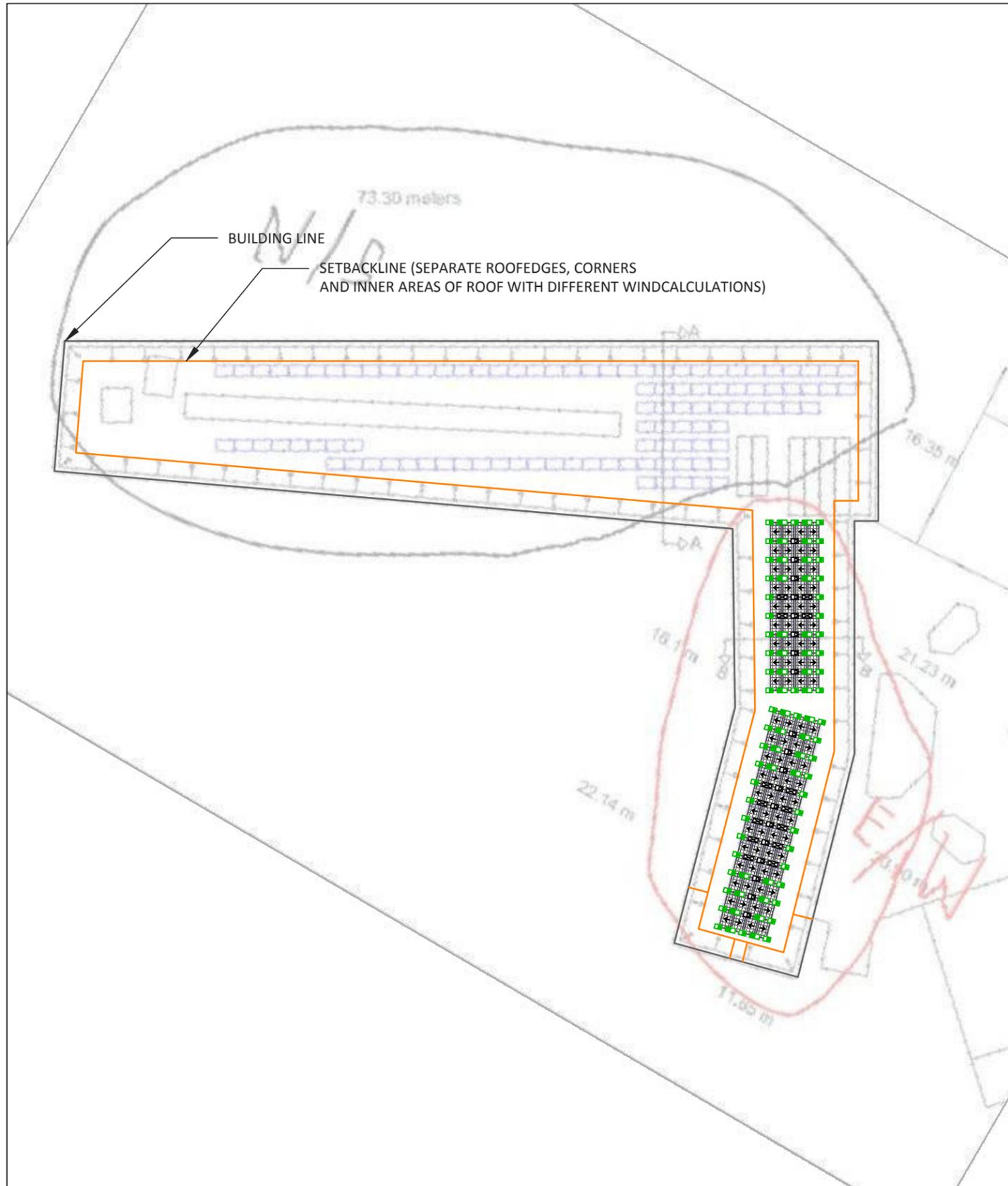
Total Weight: 3119 kg

Total Weight over the area of modules: 16,8 kg/m²

Systemload over complete roofsurface: 2,0 kg/m²

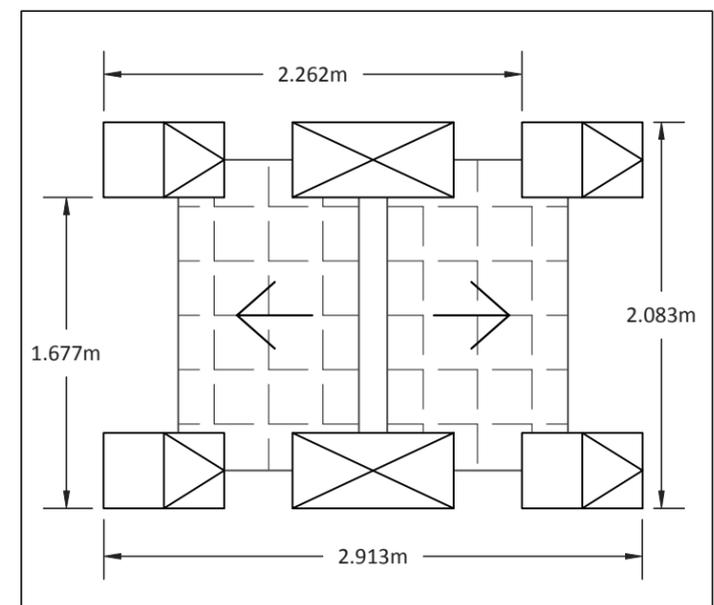
OST-WEST-SYSTEM / EAST - WEST - SYSTEM



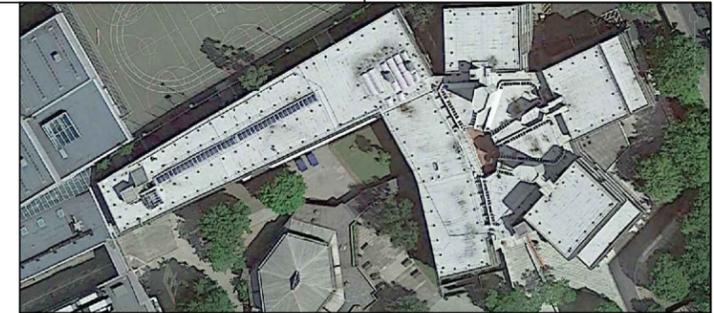


ARRAY SITE MAP
SCALE: -

- GENERAL NOTES:
1. ALL SITE, PROJECT, AND BUILDING DETAILS ARE PROVIDED BY CUSTOMER OR GENERATED VIA SATELLITE IMAGERY FROM INFORMATION PROVIDED BY CUSTOMER. PANELCLAW IS NOT RESPONSIBLE FOR SITE INACCURACIES THAT COULD LEAD TO CHANGES TO THESE DRAWING DETAILS AND ARRAY LAYOUT CONFIGURATIONS. ALL INFORMATION CONTAINED WITHIN THESE DOCUMENTS ARE TO BE FIELD VERIFIED BY CUSTOMER AND INSTALLER. ANY CHANGES OR MODIFICATIONS TO THESE DOCUMENTS, CONTAINED INFORMATION, OR FINAL ARRAY AND MOUNTING SYSTEM INSTALLATIONS MUST BE SUBMITTED TO PANELCLAW AND OTHER PROJECT AUTHORITIES FOR APPROVAL.
 2. REFER TO AND FOLLOW THE APPROPRIATE PANELCLAW INSTALLATION MANUALS AND PROCEDURES DURING THE INSTALLATION PROCESS. NOT FOLLOWING SUCH PROCEDURES AND METHODS COULD RESULT IN DAMAGE TO THE COMPONENTS OR MAY VOID THE PRODUCT WARRANTY.
 3. REFER TO THE SPECIFIC ARRAY BALLAST SHEETS FOR BALLASTING REQUIREMENTS BASED ON THE PROVIDED SITE INFORMATION.
 4. THE MODULE FOOTPRINT DETAIL INCLUDES THE ASSEMBLY OF (1) MODULE MOUNTED TO (4) SUPPORTS AND (1) DEFLECTOR. DIMENSIONS REFLECT THE CRITICAL MEASUREMENTS OF A MODULE-MOUNTING SYSTEM ASSEMBLY. DIMENSIONS DO NOT REFLECT DIRECT MODULE LENGTH AND WIDTH.
 5. COEFFICIENT OF FRICTION ASSUMED TO BE 0,5 VERIFY ON ROOF
 6. NOT FOR CONSTRUCTION. FOR PLANNING PURPOSES ONLY. ALL DIMENSIONS HAS TO BE PROOVED BY CUSTOMER/ INSTALLER ON THE ROOF.
 7. DEFLECTED MODULES HAS TO BE CONNECTED TO POLAR BEAR SUPPORTS



EAST WEST UNIT FOOTPRINT
SCALE: -



AERIAL PHOTO / SITE DIAGRAM

POLAR BEAR EAST WEST FR 10°

PROJECT DETAIL

WIND ZONE	21,5m/S
TERRAIN CATEGORY	III
SEISMIC ZONE	N/A
MODULE TYPE	Amerisolar AS-6P 30
MODULE DIMENSIONS (mm x mm)	992 x 1640
NUMBER OF MODULES	84
MODULE WATTAGE (W STC)	260
SYSTEM SIZE (KW STC)	21,84
SYSTEM WEIGHT (KG)	3119,00
SYSTEM AREA (SQ M.)	186,00
ARRAY TILT (DEG)	11,7
N-S SPACER STICK DIM. (mm)	1677
E-W SPACER STICK DIM. (mm)	897

PROJECT PART QUANTITIES

ITEM	PART NUMBER	QTY
CLAW	5010005	336
ASSY, CLAW-STANDARD, ALUMINUM		
POLAR BEAR SUPPORT	5010062	0
ASSY, SUPPORT, G90 ST, 304SS, POLAR BEAR GEN II 10 DEG-PAD		
EAST WEST SUPPORT	5010062EW	46
ASSY, SPRT, G90ST,POLAR 10D E/W-SPA		
LOW SUPPORT	5010136	69
ASSEMBLY, SUPPORT, LOW, G90ST, POLAR/GRIZZLY, PAD		
DEFLECTOR	201010804	0
DEFLECTOR, G90 ST, 1753MM, POLAR/GRIZZLY BEAR GEN II 10 DEG		
DEFLECTOR END PLATE	2000140	0
END PLATE, G90 STEEL, POLAR BEAR / GRIZZLY BEAR GEN II 10 DEG		
MECH. ATTACHMENT	N/A	0
N/A		
TOTAL STONES	3 kg	328

150°

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PREPARED FOR

PROJECT
SUNFIX - 4192 - ow - Acland Burkley School

LOCATION
93 Burghley Road, London NW5 1UJ

SCALE: - REV 1 SIZE A4 SHEET 1 OF 2

