

Project Details

NAME	Leeman	DATE	2019-02-20
LOCATION	Portland, ME, 04102	TOTAL MODULES	16
MODULE	Q. Cells :Q.PEAK DUO L-G5.2 385 (35mm)	TOTAL WATTS	6,160
DIMENSIONS	79.33" x 39.37" x 1.38" (2,015 x 1,000 x 35mm)	ATTACHMENT PTS	56

Load Assumptions

WIND EXPOSURE	B
WIND SPEED	100 mph
GROUND SNOW LOAD	70 psf
ATTACHMENT SPACING	2.0 ft

Building Details

ROOF SLOPE	30 deg
BUILDING HEIGHT	25 ft
RISK CATEGORY	I
ROOF TYPE	Comp Shingle

Engineering

XR100 SPAN DETAILS (Portrait)

Roof Zone	Max Span	Max Cantilever
1	4'	1' 7"
2	4'	1' 7"
3	4'	1' 7"

MAXIMUM REACTION FORCES (Portrait)

Roof Zone	Down	Uplift	Lateral
1	189.00	-53.00	106.00
2	189.00	-61.00	106.00
3	189.00	-61.00	106.00

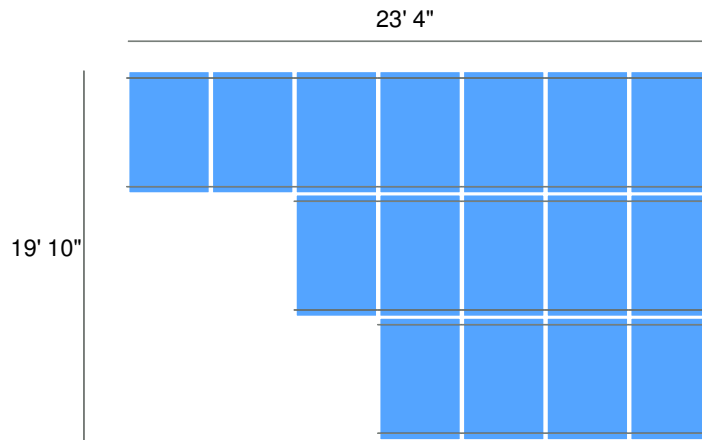
System Weight

TOTAL WEIGHT	943 lbs
WEIGHT/ATTACHMENT	16.8 lbs
DISTRIBUTED WEIGHT	2.7 psf
RACKING WEIGHT	114.3 lbs

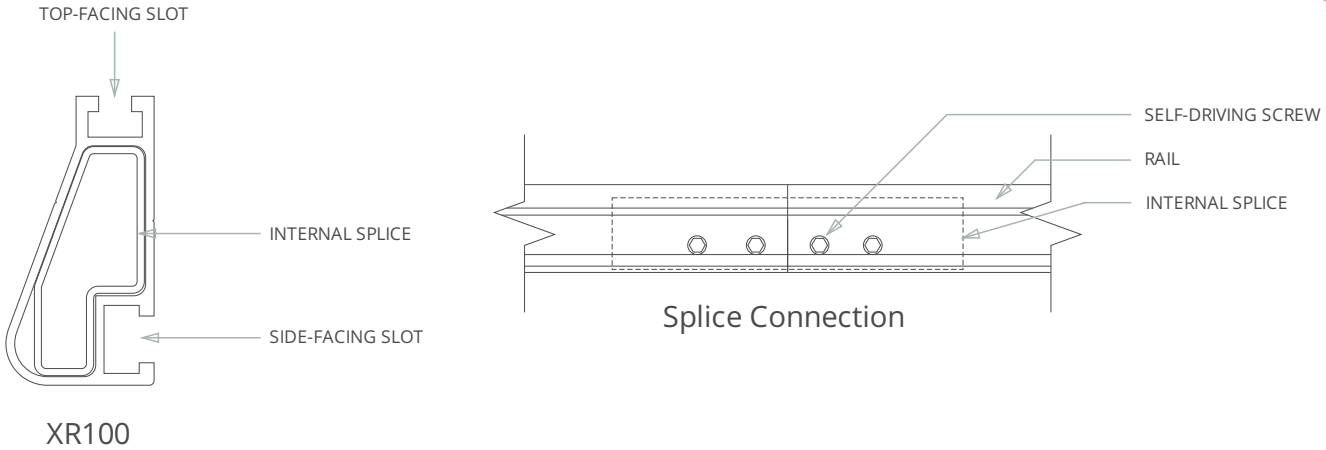


Array Details

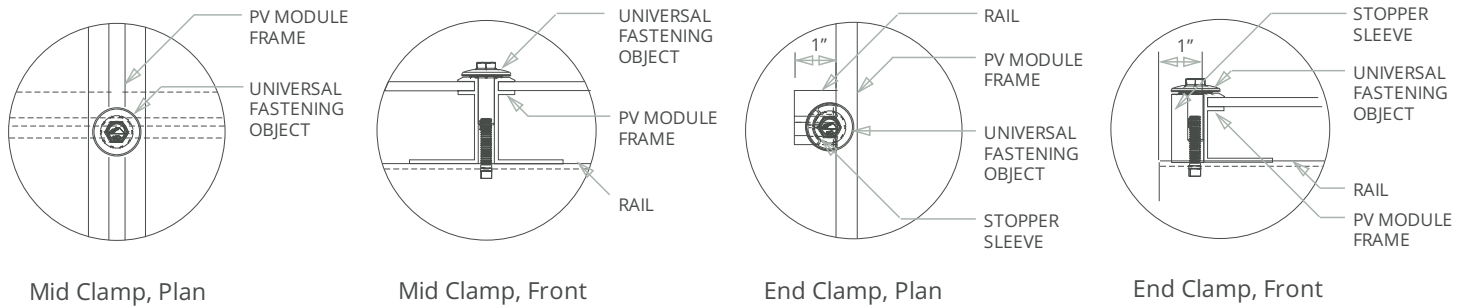
Array	Cols	Rows	Orientation	Row Length	Cantilever	Violations	Provided Rails	Attachments	Clamps	Splices
A	7	1	PORTRAIT	23' 3.8"	8"	None	56'[4 x 14']	24	16	2
A	5	1	PORTRAIT	16' 8.3"	4"	None	34'[2 x 17']	18	12	0
A	4	1	PORTRAIT	13' 4.6"	8"	None	28'[2 x 14']	14	10	0



Splice Detail

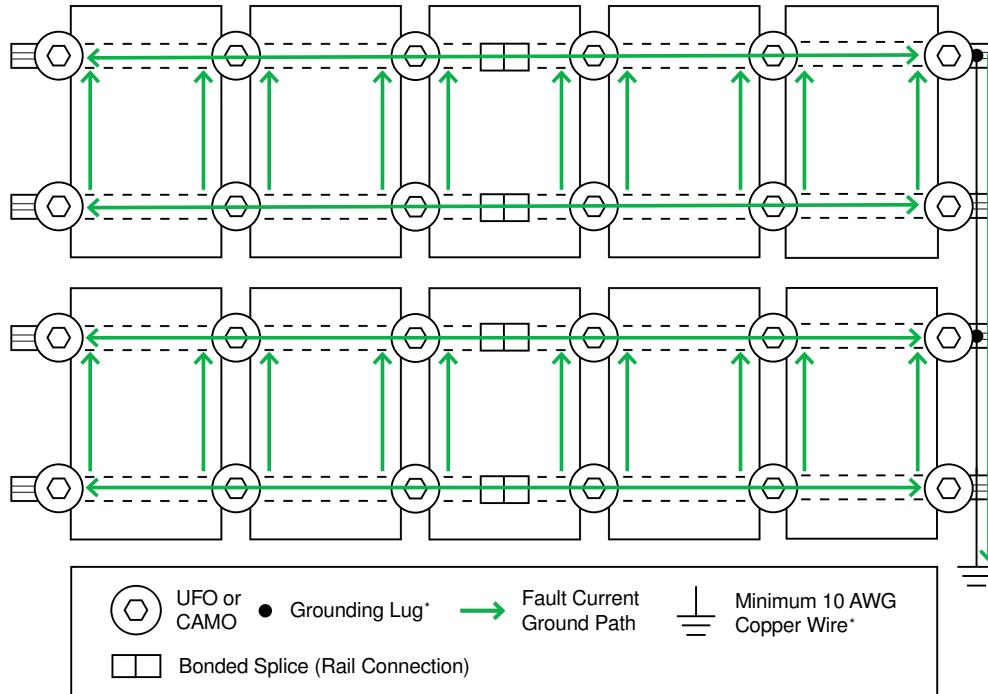


Clamp Detail





Grounding Diagram

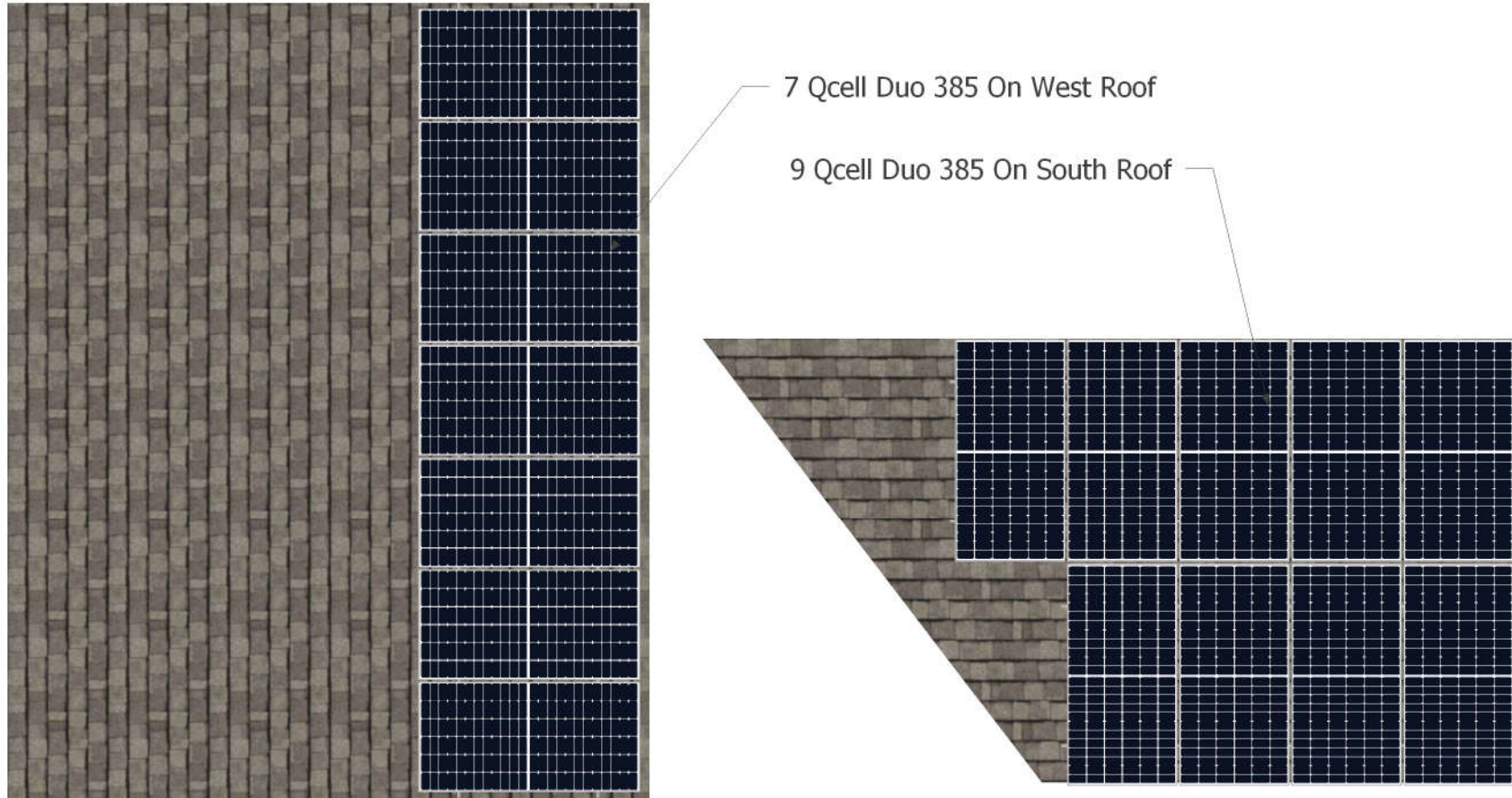


*Grounding Lugs and wire are not required in systems using certain Enphase microinverters or certain Sunpower modules. Equipment grounding is achieved with the Engage cable for Enphase or the AC module cable system for Sunpower via their integrated EGC.

GROUP	PART	DESCRIPTION	TOTAL QTY
RAILS & SPLICES	XR-100-168A	XR100, Rail 168" (14 Feet) Clear	6
	XR-100-204A	XR100, Rail 204" (17 Feet) Clear	2
	XR-100-SPLC-M1	XR100 Bonded Splice (Incl. Self-tapping Screws)	2
CLAMPS & GROUNDING	UFO-CL-01-A1	Universal Module Clamp, Clear	38
	UFO-STP-35MM-M1	Stopper Sleeve, 35MM, Mill	12
	XR-LUG-03-A1	Grounding Lug, Low Profile	3
ATTACHMENTS	LFT-03-M1	Slotted L-Foot, Mill	56
	BHW-SQ-02-A1	Square-Bolt Bonding Hardware	56



03/07/2019



7 Qcell Duo 385 On West Roof

9 Qcell Duo 385 On South Roof



Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions

03/07/2019

Show search results for 118 Ro...

261 B056
 261 B055001
 261 B057
 261 B057001
 261 B058
 261 B014
 229
 183
 2,099 Sq. Ft. 261 B059
 261 B013001
 261 B060
 2,100 Sq. Ft.
 261 B012
 185
 261 B061
 261 B011001
 261 B062
 261 B063001

ROWE AVE 115-153
 116-154
 ALMON AVE 2-20
 1-19
 261 D018001
 261 D018
 261 D017
 261 D014001
 261 D016
 261 D020
 3,600 Sq. Ft.
 261 D021
 2,700 Sq. Ft.
 261 D022
 261 D022001

119
 121
 123

414
 261 E001
 465
 261 E001001
 261 E048
 90
 30
 90
 464
 90
 40
 416
 463
 90
 40
 417
 462
 90
 30

Array details attached

0 261 B063001 30ft 2,912,275.392 305,036.710 Feet