

Project Report



Project Details

Name Kershaw	Date 2015-12-15
Module LG: LG315N1C-G4 (40mm)	Total Modules 36
Dimensions 39.4" x 64.6" x 1.6"	Total Watts 11,340
Tilt 45°	Attachment Pts 64

Load Assumptions

Wind Exposure D
Wind Speed 100 mph
Ground Snow Load 70 psf
Attachment Spacing 4.0 ft

Building Details

Building Height: 30'
Roof Slope 45 °
Risk Category I

Engineering Validation

RAILS

	XR10	XR100	XR1000
TOTAL PROJECT COST		\$1,158	
MAX SPAN [portrait]			
Zone 1	3' 7"	5' 4"	6' 11"
Zone 2	3' 7"	5' 4"	6' 11"
Zone 3	3' 7"	5' 4"	6' 11"
MAX CANTILEVER [portrait]			
Zone 1	1' 5"	2' 2"	2' 9"
Zone 2	1' 5"	2' 2"	2' 9"
Zone 3	1' 5"	2' 2"	2' 9"

LOADS

ZONES (portrait)	DOWN ↓ (lbs)	UPLIFT ↑ (lbs)	LATERAL ↔ (lbs)
Zone 1	230.0	-157.0	144.0
Zone 2	230.0	-191.0	144.0
Zone 3	230.0	-191.0	144.0

SubArray Information

Columns	Rows	Orientation	Required Rail	Provided Rail	Attach Pts	Clamps	Splices
3	4	Portrait	10' 2"	4 sets of 11.0' [1 x 11']	24	16 End Clamps 16 Mid Clamps	0
12	2	Portrait	39' 10"	2 sets of 42.0' [3 x 14']	40	8 End Clamps 44 Mid Clamps	8

Weight Details

Total Weight	Weight / Attachment	Distributed Weight
1558 lbs	24.3 lbs	2.4 psf