



## Structural Review Checklist of Solar PV Array Mounting System

Is the array to be mounted on a defined, permitted roof structure? | Yes | No  
If no due to non-compliant roof, provide engineering review.

Is any portion of the array on an overhang area of the roof? | Yes | No  
If yes, provide engineering review.

### Roof Information

1. Is the roofing type lightweight (Yes = shingles, shakes, metal, lightweight masonry) | Yes | No  
If no, provide engineering review (No = heavy masonry, slate, etc....).

2. Does the roof have a single roof covering? | Yes | No  
If no, provide engineering review.

3. Provide method and type of weatherproofing roof penetrations (e.g. flashing, caulk)

### Mounting System Information

1. Is the mounting structure an engineered product designed to mount PV modules with no more than an 18" gap beneath the module frames? Yes | No  
If no, provide details of structural attachment certified by a design professional.

2. For the racking system, fill out information on the mounting system below:

a. Total Weight of PV Modules and Rails \_\_\_\_\_lbs

b. Total Number of Attachment Points \_\_\_\_\_

c. Weight per Attachment Point ( $a \div b$ ) \_\_\_\_\_lbs (if greater than 50 lbs, provide engineering)

d. Maximum Spacing Between Attachment Points on a Rail \_\_\_\_\_inches  
(see product manual for maximum spacing allowed based on maximum design wind speed)





e. Total Surface Area of PV Modules (square feet) \_\_\_\_\_ ft<sup>2</sup>

f. Distributed Weight of PV Module on Roof (a÷e) \_\_\_\_\_ lbs/ft<sup>2</sup>

*If distributed weight of the PV system is greater than 5 lbs/ft<sup>2</sup>, you are required to provide engineering.*

KW of solar system: \_\_\_\_\_

If you have questions regarding this guideline, please contact the Safety Codes branch by email at [inspections@rmwb.ca](mailto:inspections@rmwb.ca) or call 780-743-7813 and ask to speak with an Electrical Safety Codes Officer or visit us in person at 9909 Franklin Avenue.

