



**PART III – STRUCTURAL CRITERIA (continued)**

**Loading requirements**

Check the appropriate boxes for each item associated with the selected attachment method.

**Attachment Method 1:** PV modules or racking will be attached directly to the **roof framing or blocking**:

- The combined weight of PV modules and racking is not more than 4.5 psf: .....  Yes  No
- The spacing of PV modules or racking attachments complies with one of the following: .....  Yes  No
  - (check one)  Attachment spacing  $\leq$  24 inches in any direction; **or**
  - Attachment spacing  $>$  24 inches and  $\leq$  48 inches in any direction where **all** of the following exist:
    1. Ground snow load  $\leq$  36 psf.
    2. Attachments not located within 3 feet of a roof edge, hip, eave, or ridge.
    3. Basic design wind speed  $\leq$  120 mph in Wind Exposure Category B **or**  
 $\leq$  110 mph in Wind Exposure Category C.

**Attachment Method 2:** PV modules or racking will be attached directly to **standing seam metal panels**:

- The combined weight of PV modules and racking is not more than 4.5 psf: .....  Yes  No
- The clamps comply with all the following requirements: .....  Yes  No
  1. The allowable uplift capacity complies with the following:
    - Not less than 115 pounds where clamp spacing is  $\geq$  48 inches o.c.
    - and Not less than 75 pounds where clamp spacing is  $<$  48 inches o.c.
  2. The spacing along a panel seam will be  $\geq$  24 and  $\leq$  60 inches o.c.
  3. The parallel to seam clamp spacing multiplied by the perpendicular clamp spacing will be  $\leq$  10 sq. ft.
- The metal roofing panels comply with the following requirements: .....  Yes  No
  1. Panel thickness is a minimum 26 gauge steel.
  2. Panel width is  $\leq$  18 inches.
  3. Attached with at least #10 screws at 24 inches o.c.
  4. Will be installed over minimum ½-inch nominal wood structural panel sheathing that is fastened with 8d nails at 6 inches o.c. at panel edges and 12 inches o.c. field nailing.

**PART IV – ROOF FRAMING PLAN**

**Roof design requirements**

Provide a simple plan showing the roof framing members (type, size and spacing) and PV system racking attachment points in accordance with the local municipality’s requirements. The proposed system must be shown in sufficient detail to assess whether the prescriptive installation requirements of Section 3111.3.5.3 will be met.

**PART V – PV MODULES**

Manufacturer:

Model number:

Listing agency:

**PART VI – LOCATIONS AND PATHWAYS**

**Locations and pathway requirements**

Provide a simple plan in accordance with the municipality’s requirements showing the location of the proposed PV array(s) on the building(s) and fire fighter access and escape pathways. The proposed system must be shown in sufficient detail to assess whether the location and pathway requirements of Sections 3111.3.4.1 through 3111.3.4.8 will be met.