

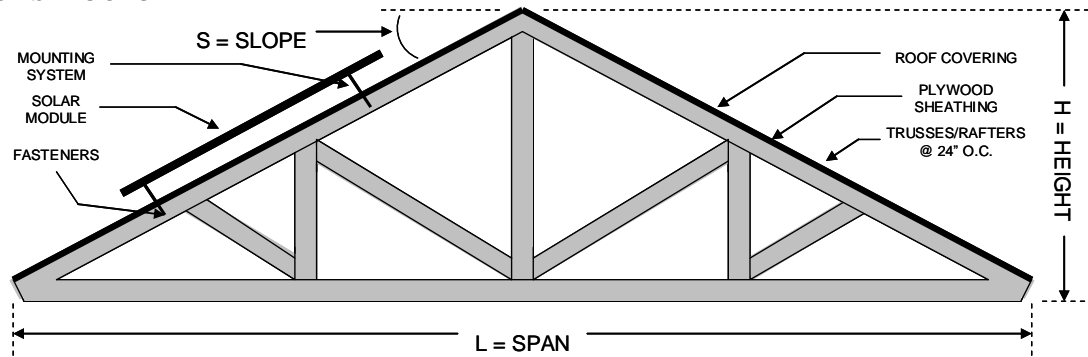


PRINCE WILLIAM COUNTY
Department of Development Services – Building Development Division

SOLAR ENERGY SYSTEMS
ROOF MOUNTED SOLAR PANELS STRUCTURAL PLAN

Version 2014-10-18

Figure - ROOF STRUCTURE DETAIL



ROOF MEASUREMENTS

L = SPAN	
H = HEIGHT	
S = SLOPE	

NOTES

1. All details not to scale.
2. To be used in conjunction with manufacturer's installation instructions.
3. Design Ground Snow Load 30 PSF.
4. See IRC for span tables.
5. Blocking shall be properly secured per industry standards.
6. Pre-drilling of structural members is required for lag bolts.
7. Caulk all penetrations through the roof membrane.

Figure - ATTACHMENT LOCATION

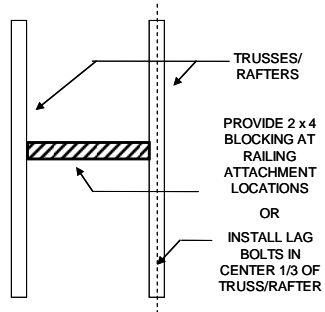
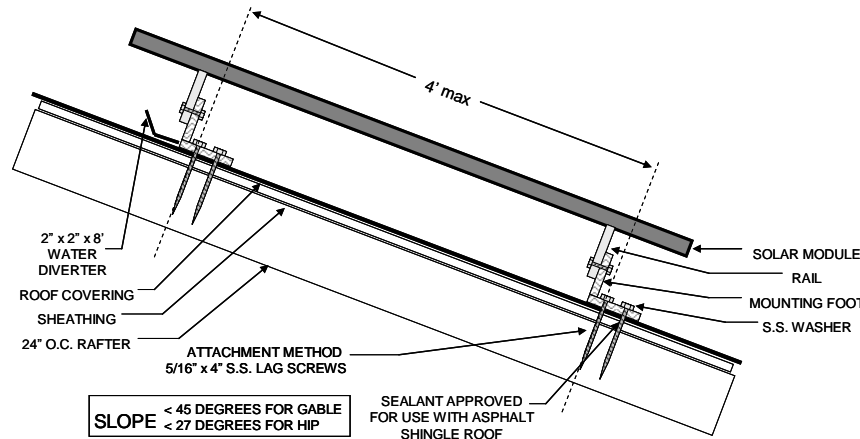


Figure - ATTACHMENT DETAIL



SLOPE < 45 DEGREES FOR GABLE
 < 27 DEGREES FOR HIP
 SEALANT APPROVED FOR USE WITH ASPHALT SHINGLE ROOF

PROJECT INFORMATION

Site Address _____

 Prepared by _____
 Date _____
 Phone _____
 Email _____

ROOF SYSTEM INFORMATION

1. Roof construction: Rafters Trusses
 Other _____
2. Describe site built rafter or truss system.
 - a. Rafter Size _____ x _____ inches
 - b. Rafter Spacing _____ inches
 - c. Maximum unsupported span _____ feet, _____ inches
 - d. Are the rafters over-spanned? (Use the IRC span tables)

MODULE ATTACHMENT INFORMATION

- a. Mounting System Manufacturer _____
- b. Product Name and Model Number _____
- c. Total Dead Weight of PV Modules and Rails _____ lbs
- d. Total Number of Attachment Points _____
- e. Weight per Attachment Point (c ÷ d) _____ lbs
- f. Total Surface Area of PV Modules _____ ft²
- g. Distributed Weight of PV Module on Roof (c ÷ f) _____ lbs/ft²