

# RS-VS Fire Shield

**NOTE:**

1. Follow these guidelines when the VS Tilt system is installed on a membrane roof
2. Reference Figures 4 & 5 for fire shield placement and clearance gap requirements
3. The installation of the fire shield is different when using 60 cell modules vs. 72 cell modules

## Framed 60 Cell Modules - Portrait, Single Rail (Figure 1)

- When installing the fire shield on the North, East, or West faces of the array (see Figure 4), the Fire Shield Brackets install on top of the Large Tilt Legs.
- When installing the fire shield on the South face of the array (see Figure 4), the Fire Shield Brackets install in the side channel using a serrated t-bolt and serrated flange nut.
- Secure the fire shield (1.5"x1.0"x0.125" aluminum angle) to the Fire Shield Brackets using #10-16x1.25" tek screws w/ bonded washers.

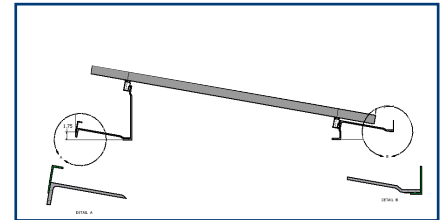


Figure 4

## Framed 72 Cell Modules - Portrait, Single Rail (Figure 2)

- Install additional roof attachments just beyond the modules. Fasten an L-foot to each roof attachment.
- Drill a 3/8" hole that is 1/4" from the edge of angle so that preassembled hardware of the L-foot can fasten to the angle. The fire shield is required only on the North face of the array (see Figure 3).
- Secure the fire shield (1.5"x1.0"x0.125" aluminum angle) to the L-foot with the pre-assembled hardware.

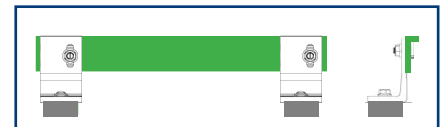


Figure 5

## Frameless (Type 3) Modules – Portrait

- When installing frameless Type 3 modules, either the Single or Double Rail configuration may be used.
- A fire shield is not required

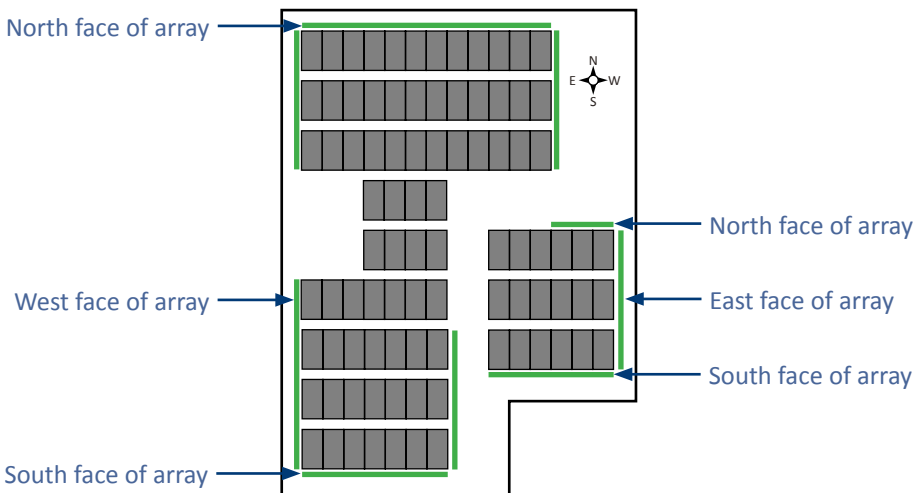


Figure 3

### Module Type Key

**Type 1 Modules**

- Fire Shield on North & South faces of array

**Type 2 Modules**

- Fire Shield on North, South, East, & West faces of array

**Type 3 Modules**

- No Fire Shield required

Figure 5

### Fire Shield Clearance Gaps

- A clearance of 1.75" is required between the roof and the fire shield on the North and South faces of the array.
- A clearance of 0.75" is required between the roof and the fire shield on the East and West faces of the array.

Figure 6