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, the Fire Shield Brackets install on top of the Large Tilt Legs.
- When installing the fire shield on the South face of the array, 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.

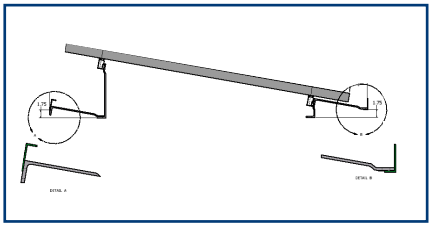

Figure 1

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 ¼” from the edge of angle so that pre-assembled hardware of the L-foot can fasten to the angle.
- Secure the fire shield (1.5”x1.0”x0.125” aluminum angle) to the L-feet with the pre-assembled hardware.

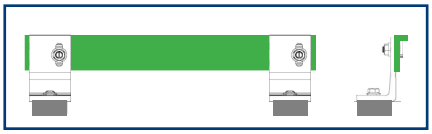

Figure 2

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

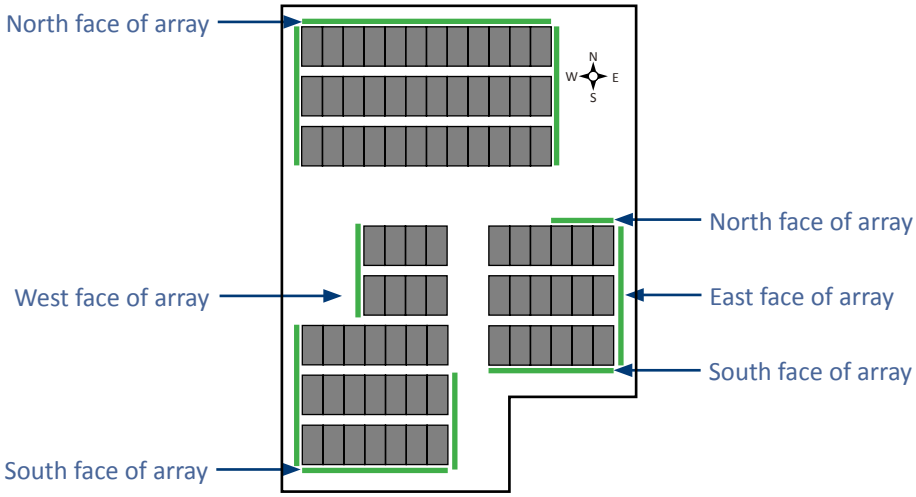

Figure 3

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 4

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 5