

# GRIDFLEX® 5D Wire Management Guide

With RayTray V3

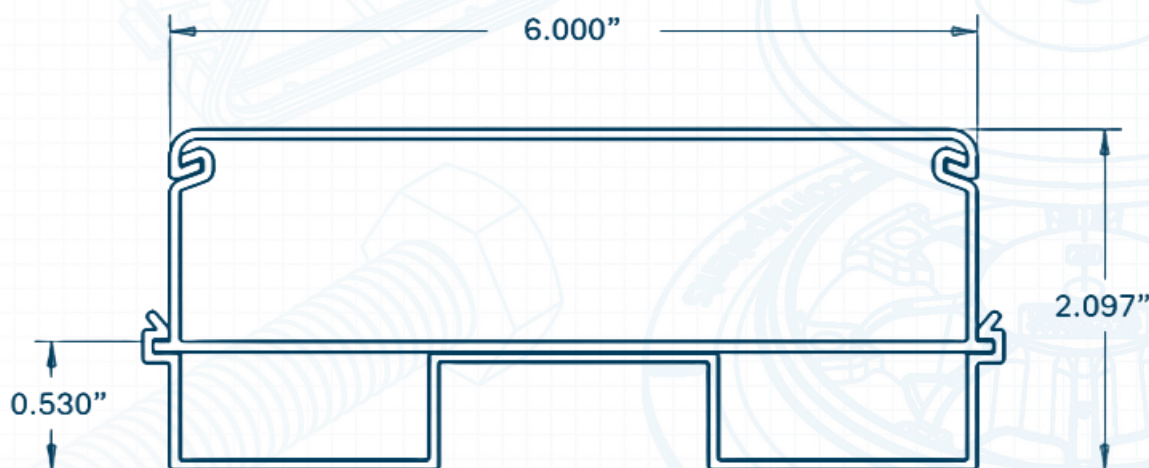


## RayTray Components

| UNIRAC PART # | PRODUCT DESCRIPTION     |
|---------------|-------------------------|
| RAYTV3HBASE   | RAYTRAY V3 HALF BASE 8" |
| RAYTV3CAP     | RAYTRAY V3 CAP 96"      |
| RAYTV3TRAY    | RAYTRAY V3 TRAY 96"     |
| RAYTV3RIV     | RAYTRAY V3 RIVETS       |
| RAYTV3TOOL    | RAYTRAY V3 EDGING TOOL  |
| RAYTV3CAPE    | RAYTRAY V3 END CAP      |
| RAYTV3TPIE    | RAYTRAY V3 T PIECE      |

### IMPORTANT:

1. To accommodate the low-profile, aerodynamic GRIDFLEX® 5D, the HALF BASE is required instead of the regular RayTray base (see image below for the correct RayTray assembly dimensions).
2. Additional quantities of the (SKU: 380800/380800-US) GFXD ROOF PAD – STACK are required to increase the roof clearance of the GRIDFLEX® 5D system to fit RayTray.



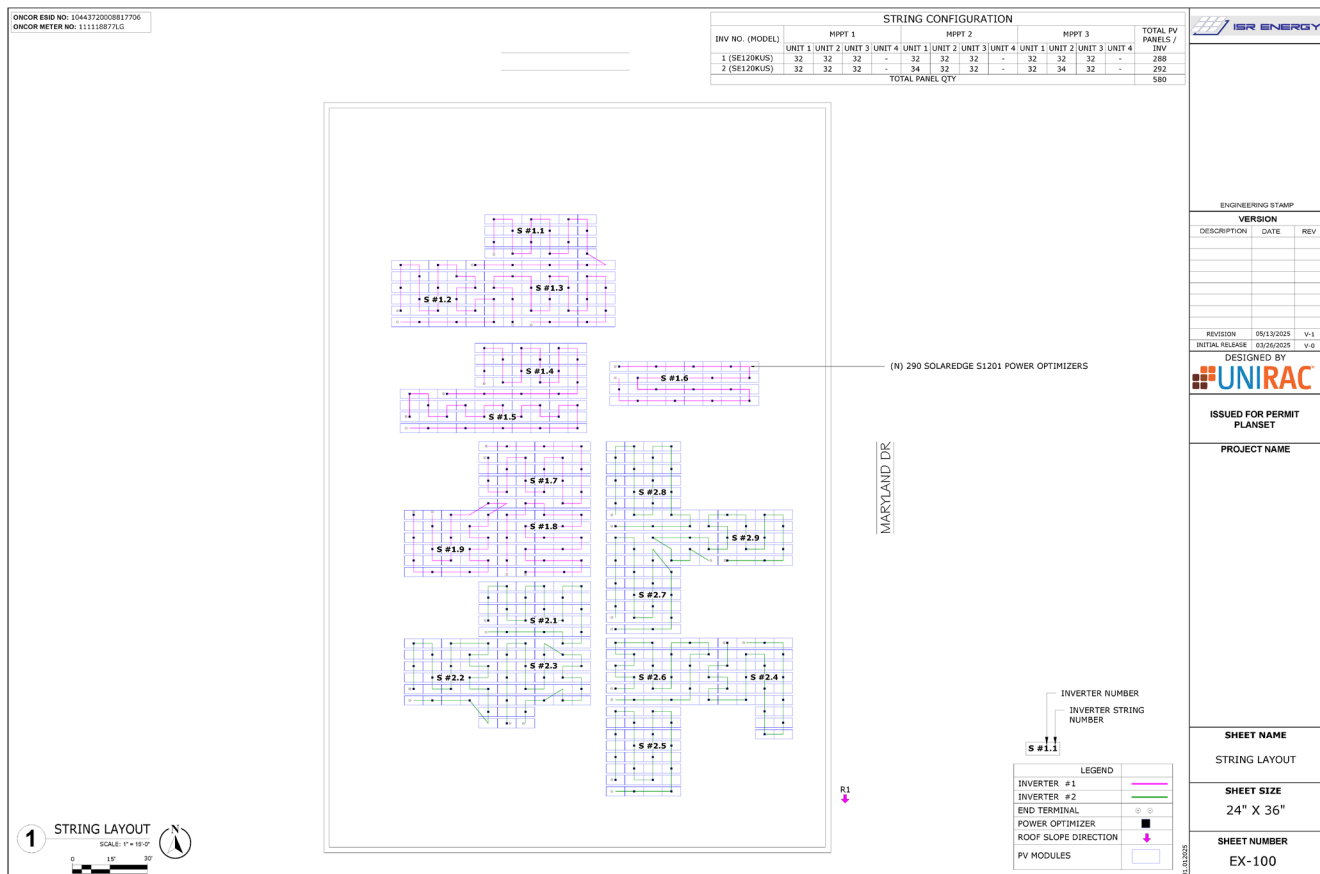
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## STEP 1

Plan the wire management paths by referring to your string diagram (usually available on the Construction Drawings).



Above: A sample of a string diagram/layout.

This step is crucial to ensure that enough wire length & quantities are prepared to accommodate the wire paths from/to the RayTray wire trays and MLPE placement.

### IMPORTANT:

Refer to RayTray Installation Manual (available on [raytraysolar.com](http://raytraysolar.com)) and the GRIDFLEX® 5D Installation Manual (available on [Unirac.com](http://Unirac.com)) for guidance on assembly.



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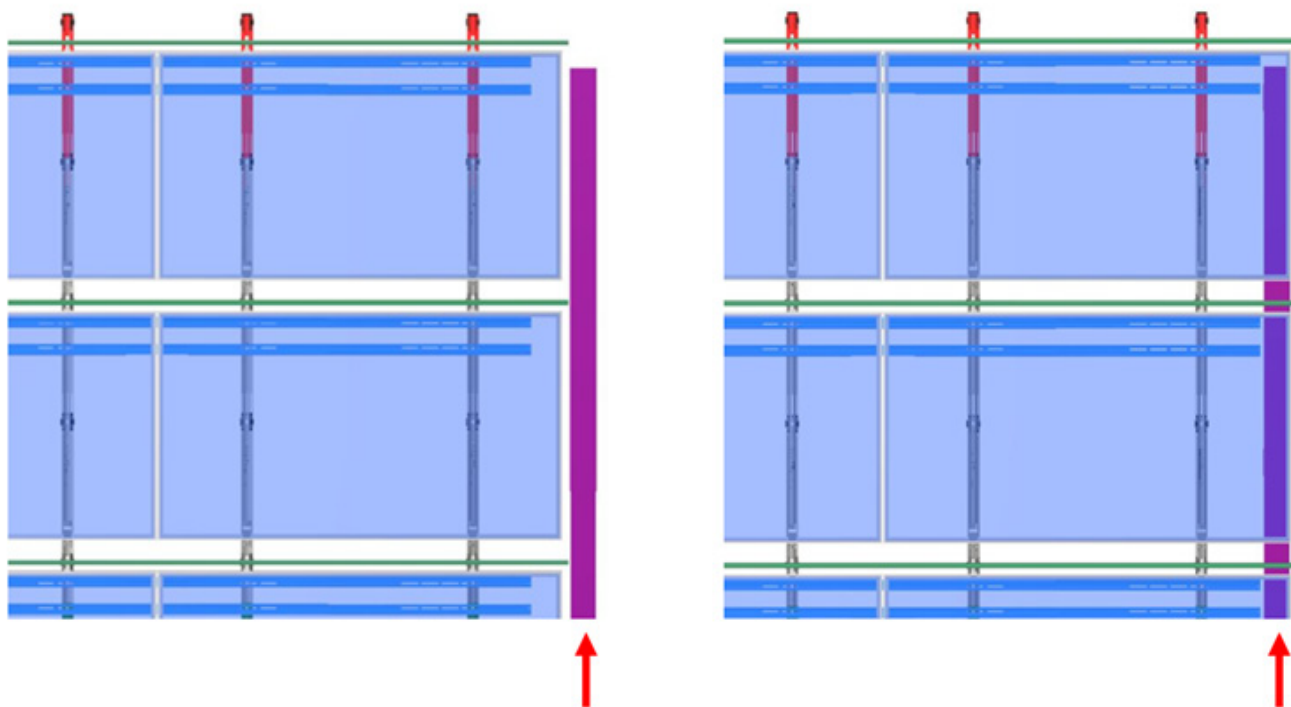


## STEP 2

**Position RayTray wire trays with the GRIDFLEX® 5D system.**

When using RayTray V3 for GRIDFLEX® 5D wire management, the goal is to always place the RayTray wire trays underneath the panels to prevent expanding the array footprint, risking interference with walkways and/or fire setbacks.

In cases where there is enough space between the array and the walkways or fire setbacks, RayTray may be installed outside of the array.



*Image on the left shows placement of RayTray outside of the array that may interfere with walkways or fire setbacks, image on the right shows placement of RayTray underneath the modules.*

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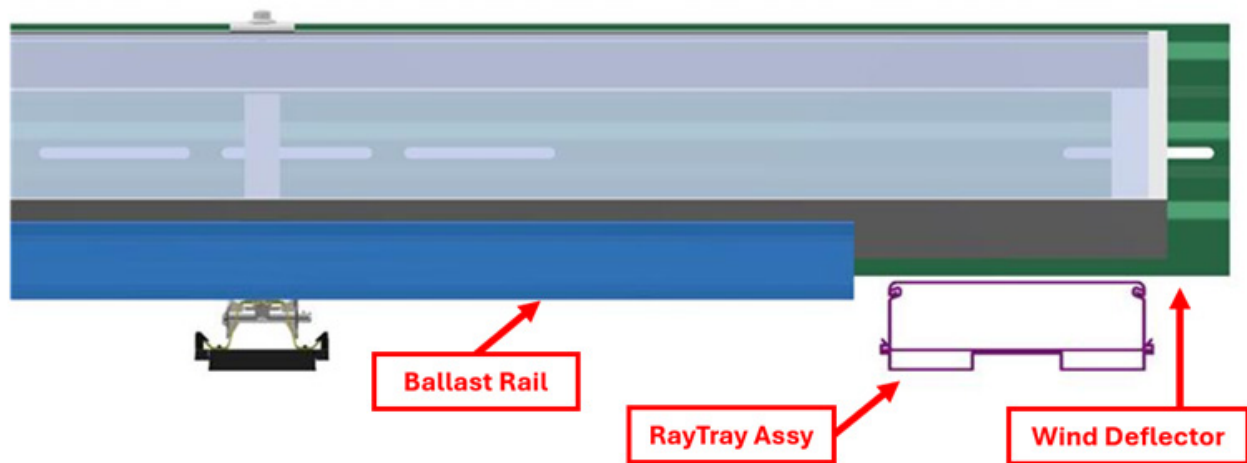


### 2 configurations of GRIDFLEX® 5D will allow RayTray wire trays to fit underneath the array:

**Option 1: Fitting RayTray underneath the wind deflector, and next to the ballast rails.**

**Caution: DO NOT cut ballast rails.**

Apply at least 1 ea of the (SKU: 380800/380800-US) GFXD ROOF PAD – STACK to increase the clearance of the GRIDFLEX® 5D system to enable fitting the RayTray assembly underneath the wind deflector (SEE IMAGE BELOW). The RayTray should sit NEXT TO the ballast rails, NOT underneath – follow the Option 2 guidelines for fitting the RayTray assembly underneath the ballast rails. See image below.



*The image above shows the placement of RayTray Assembly underneath the Wind Deflector & next to the Ballast Rail.*

### Rules for different panel dimensions:

- 1. For panels longer than 93.25"/2368mm:** RayTray assembly should fit underneath the module without any system modifications.
- 2. For panels between 88.05"/2237mm and 93.25"/2368mm:** The ballast rail may be shifted away from the module edge to fit the RayTray assembly underneath the module. Note that this means the ballast rails can only accommodate max 4 ballast blocks, which may not work if structural engineering requires 5 ballast blocks at this location. Follow Option 2 guidelines if this is the case.
- 3. For panels shorter than or equal to 88"/2236mm:** follow Option 2 guidelines.



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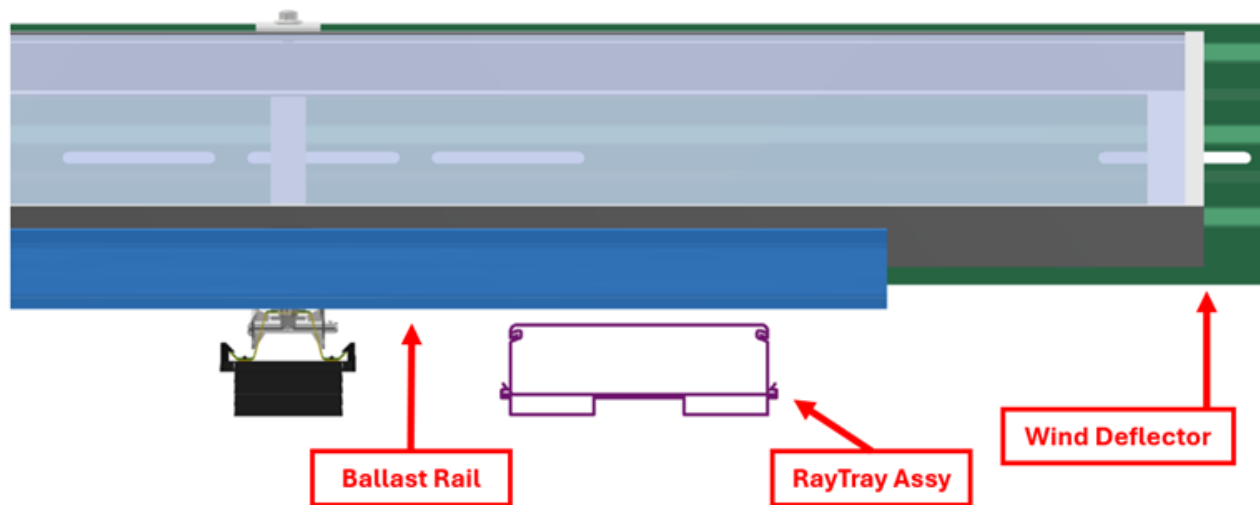
With RayTray V3



**2 configurations of GRIDFLEX® 5D will allow RayTray wire trays to fit underneath the array:**

**Option 2: Fitting RayTray underneath the ballast rails.**

Apply 3 ea of the (SKU: 380800/380800-US) GFXD ROOF PAD – STACK to increase the clearance of the GRIDFLEX® 5D system to enable fitting the RayTray assembly underneath the Ballast Rails.



*The image above shows the placement of RayTray Assembly underneath the Ballast Rails.*