

Calculation aid for determining demand for standard rectangular structures

Calculation example:

PV modules (total)	200 units
Rows	10
PV modules (per row)	20 units
Maintenance aisles	1

1) HSF Ballast Tank

Formula:

$$\text{Number of HSF Ballast Tank (total)} = \frac{\text{Number of PV modules}}{2} + \text{Number of incomplete rows}$$

Example calculation:

$$\frac{200}{2} + 10 = 110$$

Formula:

$$\text{Number of HSF Ballast Tank (per row)} = \frac{\text{Number of HSF Ballast Tank (total)}}{\text{Number of incomplete rows}}$$

Example calculation:

$$\frac{110}{10} = 11$$

2) Spacer for maintenance aisle

Formula:

$$\text{Spacer for maintenance aisle} = \text{Number of maintenance aisles} \times \text{Number of HSF Ballast Tank (per row)}$$

Example calculation:

$$1 \times 11 = 11$$

3) Tight spacer

Formula:

$$\text{Tight spacer} = (\text{Number of rows} - 1 - \text{Number of maintenance aisles}) \times \text{Number of HSF Ballast Tank (per row)}$$

Example calculation:

$$(10 - 1 - 1) \times 11 = 88$$