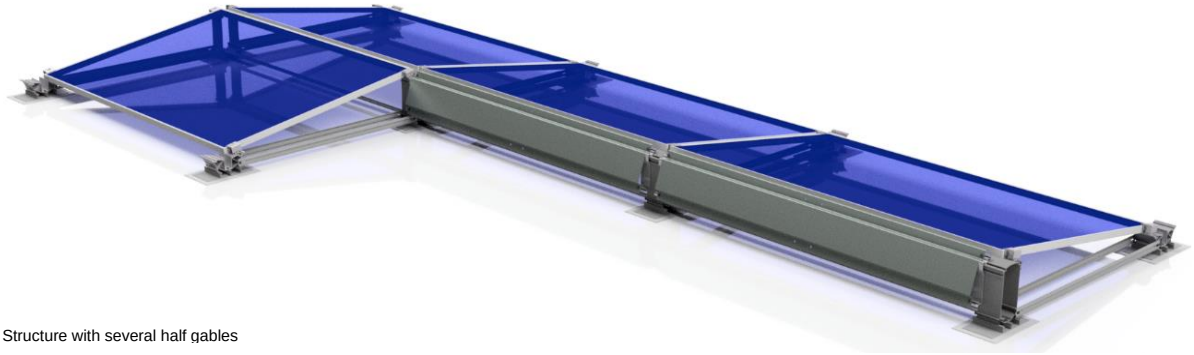
Solar systems from Schweizer
Leaflet PV mounting system MSP-FR
Half gables

1 Introduction



1 : Structure with several half gables

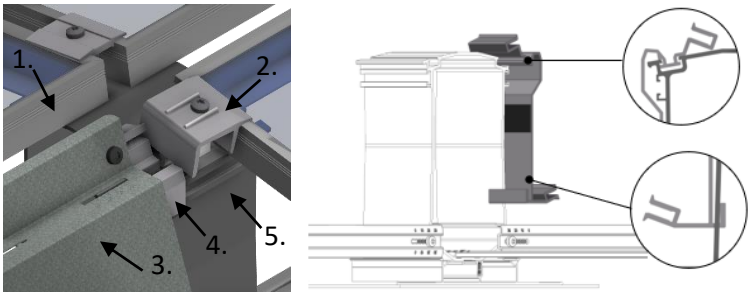
The wind deflector adapter MSP-FR-EW-WDA for half gables is used to increase the utilisation of the roof area despite obstacles and special situations. With the wind deflector adapter, half gables can be mounted on the roof effortlessly and without drilling. At the same time, the wind deflectors of the mounting system MSP-FR-Scan be easily integrated into the mounting system MSP-FR-EW.
The half gables can be constructed using the following items from the mounting system MSP-FR:

- Wind deflector adapter MSP-FR-EW-WDA (article no. 23157)
- Wind deflector MSP-FR-S-WD (article nos. 20680, 21562, 21811, 22987 – 22995)
- Screw MSP-FR-S 6x16 (article no. 2013705)

The wind deflector adapter is inserted into the side of the support MSP-FR-EW-SH until it stops and connected to the wind deflector MSP-FR-S-WD (see installation instructions Download Center - Solar).
The wind deflector adapter can also be used in combination with a centre support.

2 Application

As the PV module and the end clamp restrict the available space, the wind deflector must be selected in a size smaller than the PV module (see table, page 3). The wind deflector adapter always sits evenly on the support thanks to pre-milled slots and does not need to be measured.



2 : Detail of half gable assembly

1. PV module
2. End clamp "MSP-PR-EC"
3. Wind deflector "MSP-FR-S-WD"
4. Wind deflector adapter "MSP-FR-EW-WDA"
5. Support "MSP-FR-EW-SH"

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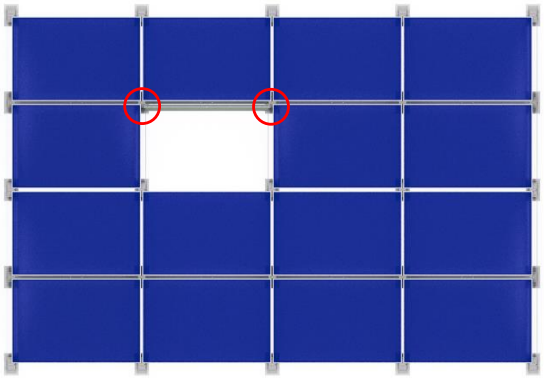
2.1 Half gable variants

There are various situations in which half gables can be used. The red circles mark where a wind deflector adapter must be placed. Combinations of the variants shown are also permitted.

1. Half gable between two full gables
2. Half gable with central support
3. Several half gables next to each other between full gables
4. Single or multiple half gables as end pieces in combination with full gables

Note on half rows:→ The half row can be constructed using items from the mounting system MSP-FR-S.

1.



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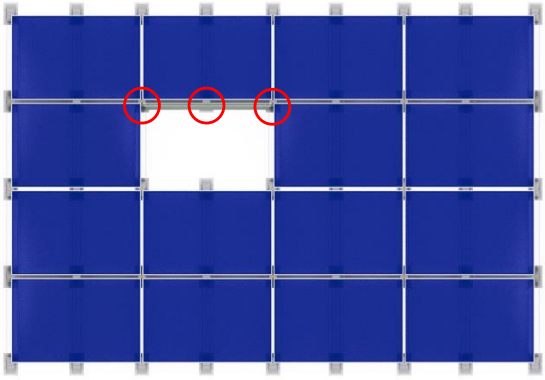

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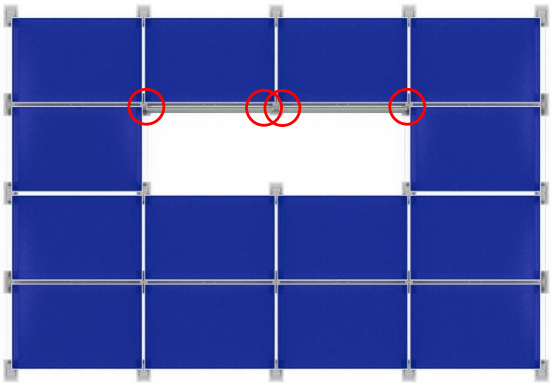

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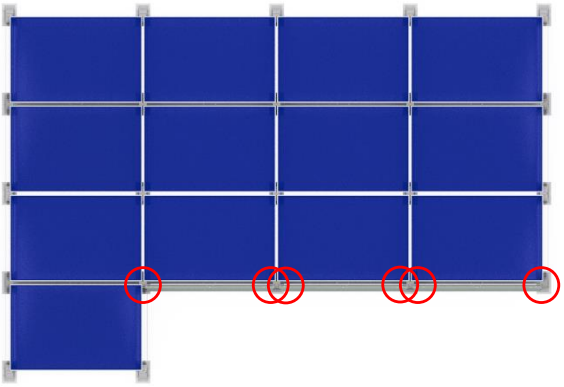

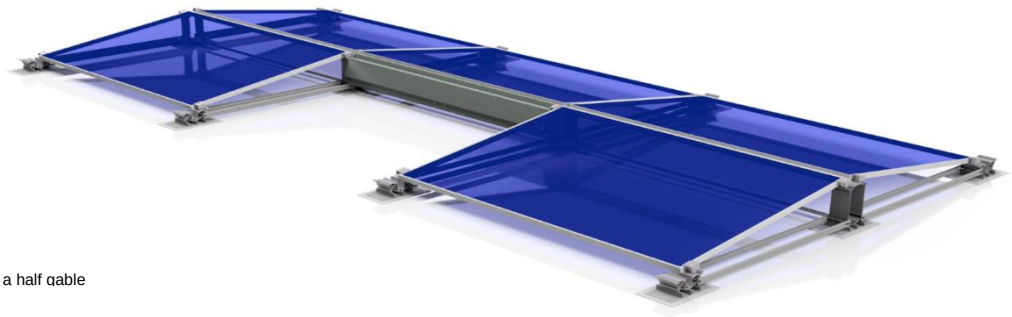

3 : Structure with a half gable

2.2 Assignment of wind deflector size to PV module size

PV module size	Wind deflector size	Item number	Cut length mm
1620	1620	2068	1639
1685-1749	1620-1684	20680	1639
1750-1814	1685-1749	21562	1704
1815-1879	1750-1814	21811	1769
1880	1815-1879	22987	1834
1945	1880	22988	1899
2010	1945	22989	1964
2075-2139	2010	22990	2029
2140-2204	2075-2139	22991	2094
2205-2269	2140-2204	22992	2159
2270-2334	2205-2269	22993	2224
2335-2399	2270-2334	22994	2289
-	2335-2399	22995	2354

*For PV modules between 1620-1684 mm, notching may be necessary in some cases.

Examples:

1. PV module 1722 mm x 1134 mm
   In combination with wind deflector adapter, use wind deflector MSP-FR-S-WD 1620-1684.
2. PV module 2187 mm x 1102 mm
   Use the wind deflector MSP-FR-S-WD 2075-2139 in combination with the wind deflector adapter.

3 Planning information for the Solar.Pro.Tool (S.P.T)

Selection options on the design page:

- Use only low supports MSP-FR-EW-SL – If this option is deactivated, low supports MSP-FR-S-SL are issued at the block edges and at walkways.
- Use high supports MSP-FR-S-SH for half gables – If this option is activated, a high support MSP-FR-S-SH is used for the half gables where possible. The wind deflector adapter is not required. No supports MSP-FR-S-SH are installed in the middle of a field.

Note on minimum edge distance: The minimum edge distance for planning is 150 mm. As soon as half gables are installed, they should be placed at least 500 mm from the roof edge. Placing half gables between 150 mm and 500 mm will result in extreme wind loads. A structurally positive design is impossible.

Half gables

Arrangement:

- The default setting is to use whole gables (click the "Regenerate module area" button). Clicking the "Fill roof" button places half gables where possible.
- The following options are available for placing PV modules: double module, west module and east module.
- Modules with the same orientation must not be placed next to each other in an east-west direction. This also applies to walkways.
- Modules with different orientations must not be placed next to each other in a north-south direction.

Adjustment of existing projects (created before August 2025):

- Existing projects can be adapted with whole gables.
- Half gables cannot be added to existing projects.
- If half gables are to be added, the module must be changed. The existing arrangement will then no longer exist. The module may also be changed back.

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