

Installation manual Universal adjustable rack

Flat plate collectors

ST-ADM-AS-30

roof angles from max. 30°

1 General

The universal adjustable rack ST-ADM-AS-30 is especially suited for the installation of WIKORA flat plate collectors WIKOSUN 2510 on slightly inclined steel plate roofs, slate roofs and tile roofs. The maximum increase of the inclination angle is 30°.

2 Accessories universal adjustable rack

Amount	Description	Dimensions
1	Burden bracket	U-40x30x3 L=1995 mm
1	Support bracket	U-40x40x2 L=1000 mm
1	Connection element U	U-50x50x5 L=200 mm
2	Base element	U-50x50x5 L=70 mm
4	Screw set	M8x60
2	Srew set	M8x25 lock nut



3 Installation

The alignment of solar collectors contributes substantially to the energy output. In order to use the plant optimally and to increase the efficiency during the winter months, the collectors should be installed with an angle of approx. 60° in case of space heating support.

The installation of the universal adjustable rack is carried out on the brackets of the mounting kit ST-ADM- ... or on a suitable mounting area with an adequate carrying capacity.

The alignment of the brackets (roof hooks) is carried out as specified in the installation manual „on roof mounting“, part 2.2. Please note furthermore:

- The rack can be installed with an angle of 24°, 18° or 12° by using the pre-drilled holes. For this the profile is to be sawed off 15 mm above the drilling.
- The distance of the roof hooks is to be chosen in function of the angle of inclination in such a way that the support bracket stands as perpendicularly as possible to the roof area.

Height support bracket in mm	Angle in °	Distance roof hooks in mm
100	30	1740 +200/-100
800	24	1840 +180/-80
600	18	1910 +150/-60
400	12	1965 +130/-50

- The distance of the kiln furniture should not exceed 1600 mm.
- The adjustable rack is to be stabilized at the back with a back cross. There is one flat section contained per bracket which is to be shortened on the necessary length. The wholes in the support bracket are foreseen for the fixation of the back bars.

Please note:

The following amount of ST-ADM-AS30 is required:

1 collector	min. 2 x ST-ADM-AS-30
2 collectors	min. 2 x ST-ADM-AS-30
3 collectors	min. 3 x ST-ADM-AS-30,

In order to use the adjustable rack for WIKOSUN 2010, the burden bracket must be reduced to 1650 mm.