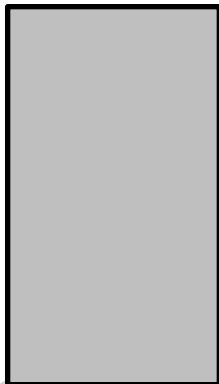
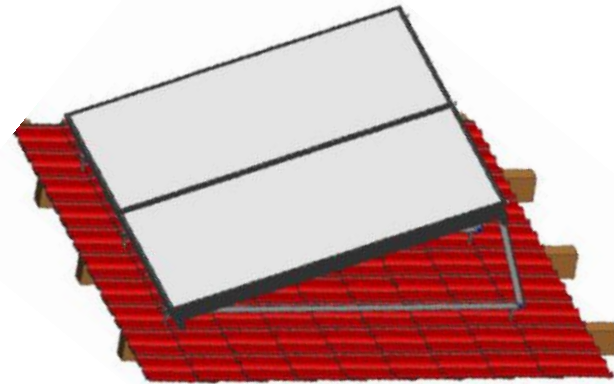
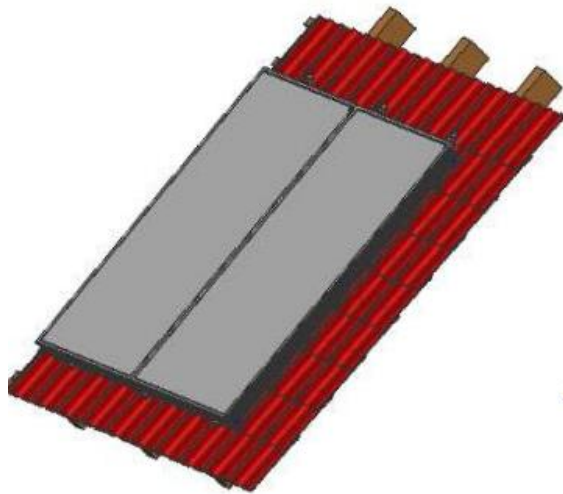


Installation of Photovoltaic modules

The module can be installed on tilted roofs as well as on flat roofs and open areas.



The installation can be done vertically or horizontally.

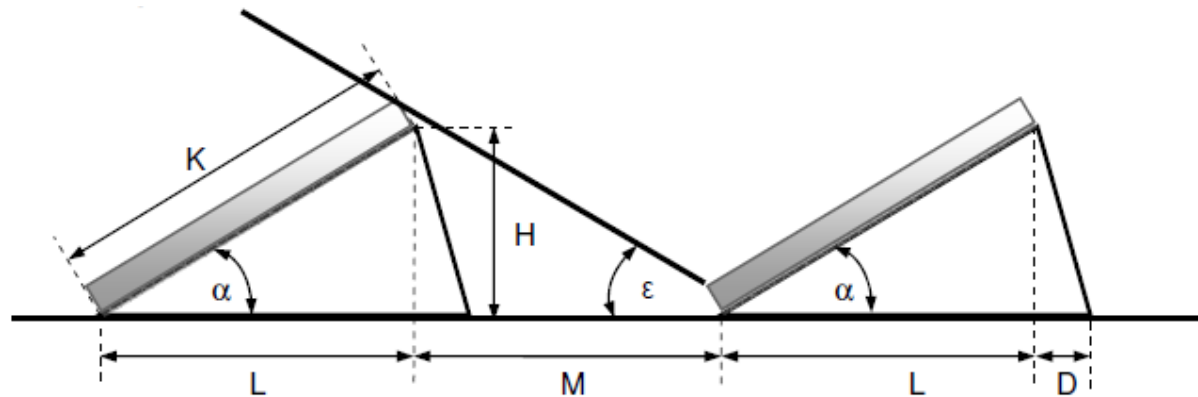
Vertical installation



Horizontal installation

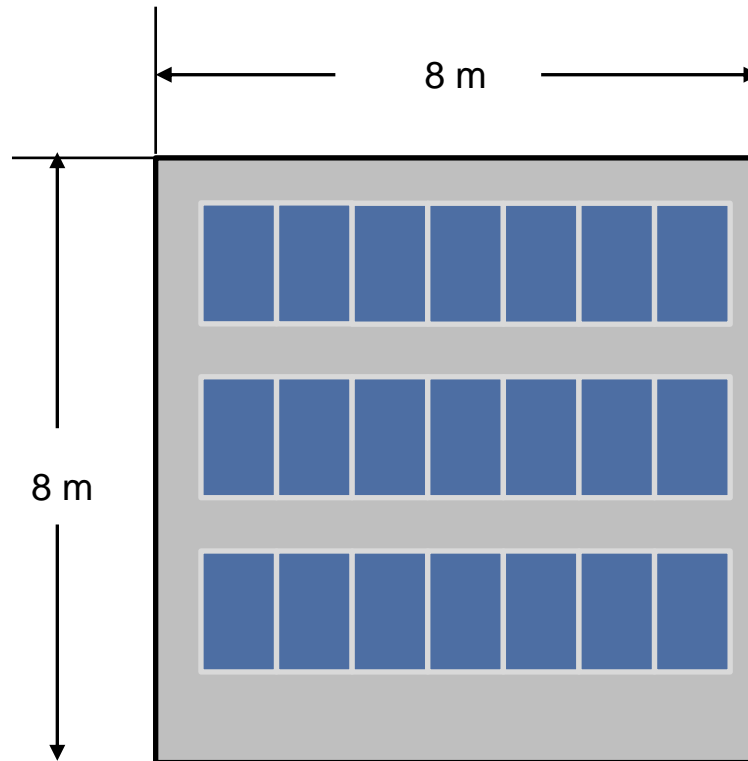
Distance of the modules due to installation on flat roofs or open areas

The majority of buildings in Turkey have a flat roof. In these cases as well as in open areas the modules have to be elevated by special mounting systems. A more steep angle provides a larger shadowing. The distance between the rows of the modules is getting larger, allowing less modules to be installed on a given roof size.



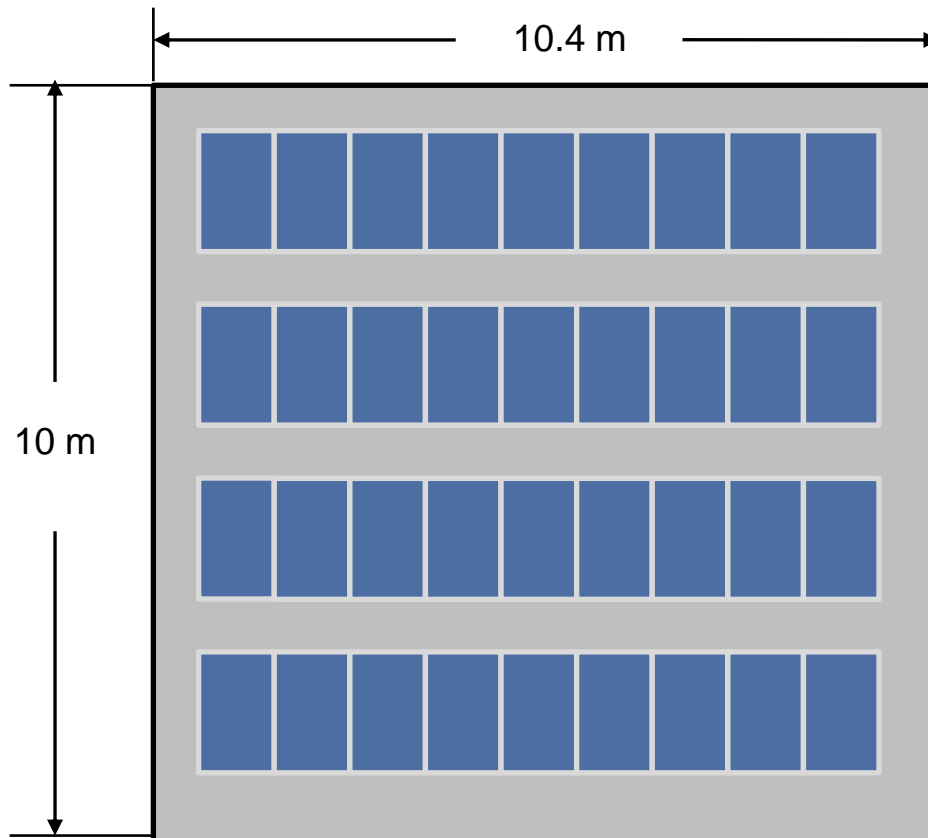
An elevation angle of 15 degrees provides a good compromise between earnings and shadowing. In addition there is still a certain self cleaning effect.

Example of roof layouts (1/3), flat roof



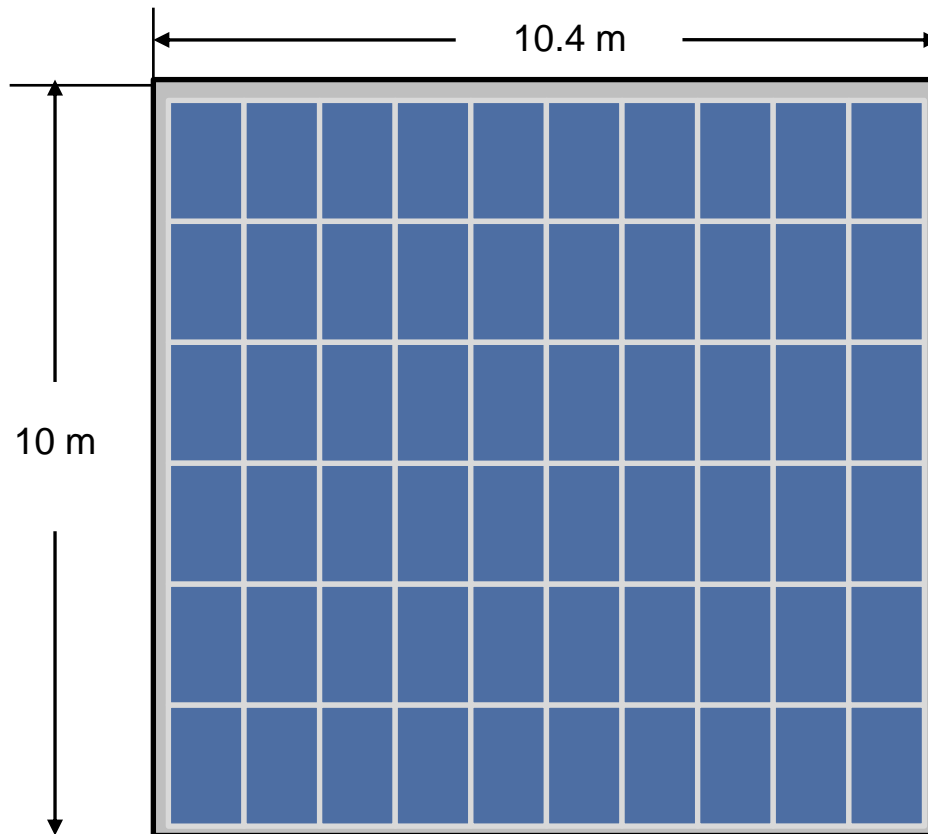
Roof size/area:	8.0 x 8.0 m / 64 sqm
Module size/performance:	1.6 x 1.0 m / 290 Wp
Installation:	vertical
Number of PV-modules:	21
Electrical power output; output/area:	6.09 KWp; 95 Wp/sqm

Example of roof layouts(2/3), flat roof



Roof size/area:	10.4 x 10.0 m / 104 sqm
Module size/performance:	1.6 x 1.0 m / 290 Wp
Installation:	vertical
Number of PV-modules:	36
Electrical power output; output/area:	10.44 KWp; 100 Wp/sqm

Example of roof layouts(2/2), tilted roof



Roof size/area:	10.4 x 10.0 m / 104 sqm
Module size/performance:	1.6 x 1.0 m / 290 Wp
Installation:	vertical
Number of PV-modules:	60
Electrical power output; output/area:	17.4 KWp; 167 Wp/sqm