FLAT ROOF DUPLEx: THE INTELLIGENT SYSTEM FOR INSTALLING THIN-FILM MODULES.

The INTERSOL Flat Roof Duplex system allows you to easily and quickly install frameless thin film modules from east to west on flat roofs. Modules can be mounted on each roof individually. Installation times are quick due to the innovative and prefabricated substructure. The average weight of the substructure and solar modules is 20 kg/sqm, if the system groups are lined up next to each other. The area load is low because of the module spacing: this will be determined by your maximum roof load.

1. ROOF FASTENING

INTERSOL Flat Roof Duplex is suitable for all flat roofs with a roof pitch of up to 5°. Pre-assembled protective mats made of polyurethane (PU) on all profiles in contact with the roof ensure the roof membrane is not damaged. Construction of the substructure is possible for any roof covering, whether it’s foil, gravel or asphalt. Any unevenness in the roof surface is not a problem when mounting the system and obstacles can be circumvented with the modular system. There is no need to penetrate the roof membrane when assembling the substructure because the system takes advantage of aerodynamics: the greater the wind flow, the more firmly it sits on the roof.

2. ELEVATED MOUNTING

Since there is no cutting required for installation, you don’t need to do any time-consuming work such as drilling, cutting or sawing. The profiles can be screwed quickly to the substructure for the solar modules as we supply pre-fabricated screw channels and hammer head grooves. The modules are installed automatically on both sides at the optimum angle of 10°. Another benefit of elevated mounting: there is little or no ballast needed to secure the construction.

3. MODULE FASTENING

The mounting system INTERSOL Flat Roof Duplex is suitable for nearly all frameless thin-film modules and framed solar panels due to the variability of its construction. The modules are attached with the module stop bar on the profile rail and by screwing it directly to the cable channel. The modules are securely clamped to points defined by the module manufacturer.

Pre-assembled protective mats made of polyurethane protect the roof membrane from damage. The use of screw channels and hammer head grooves reduce assembly times.
» Individual layout and assembly instructions for each project
» LGA type testing/structural standards for static wind loads according to Eurocode 1: EN 1991-1-4 for 11 m high buildings, wind zone II and terrain categorie III, for snow loads according to DIN 1055-5 to snow load zone III
» Can be used anywhere in Europe with no additional approval
» No point loads, only line loads