

NEXT LEVEL.

PHOTOVOLTAIC CARPORT ROOFING



ABA

KIRCHDORFER
CONCRETE SOLUTIONS

PHOTOVOLTAIC (PV) CARPORT ROOFING

Re-thinking sealed surfaces.

MABA Parking Solutions transform car parks into modern energy solutions. They generate environmentally-friendly electricity directly on site where people park, shop or work. Quick to install, requiring no foundations and fully compatible with e-charging stations, they offer a smart response to continuously rising energy demands and serve as a visible commitment to the energy transition.



LOAD-BEARING CONSTRUCTION

A variety of structures designed to impress.

Whether constructed from concrete or steel, our PV carports are available in a range of materials and structural forms and shapes (U, C or O), allowing them to integrate seamlessly into the architectural landscape.

High-quality sandwich or trapezoidal panels are used to secure the PV modules. For those wishing to create a strong visual statement, glass PV modules with a refined and well thought-out design, offer an attractive alternative.

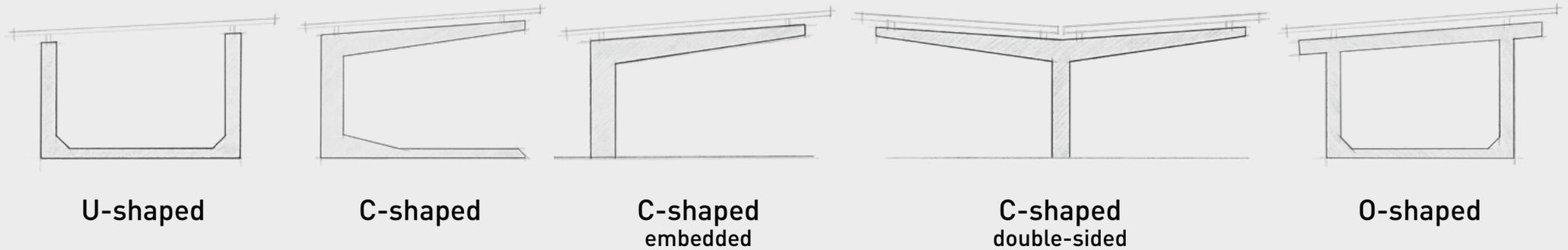
Roof covering options:

- trapezoidal sheet metal panels
- sandwich panels
- glass
- mineral surface roofing materials





CONCRETE LOAD-BEARING CONSTRUCTION

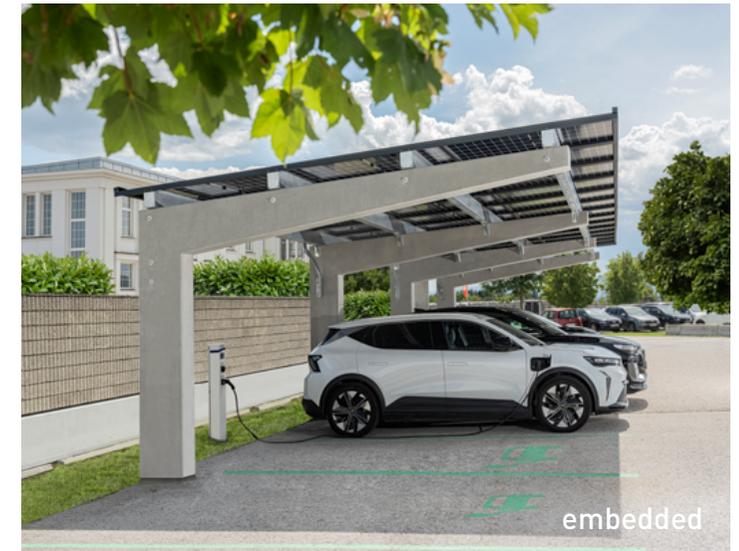


FLEXIBLE IMPLEMENTATION – TWO VARIANTS COMPARED

In the first variant, the carport is installed directly onto the existing surface – in this case asphalt.

The second solution features a partially recessed construction, in which the lower support beam is embedded in the ground.

This modular principle can be implemented with all concrete load-bearing structures (U, C and O shaped), fully adaptable to on-site requirements and local conditions.



INTELLIGENT CHARGING VERSATILE USE

Our PV carports can optionally be equipped with modern charging infrastructure. This allows not only electric cars, but also e-bikes, electric cargo bikes and e-scooters to be conveniently charged on site.

A forward-looking advantage whether for businesses, customers or employees.

Contact for the Energy and Electrical Engineering Business Unit

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BENEFITS



Installation Without Foundations

Our PV carports do not require conventional foundations. The load-bearing structures ensure maximum stability while minimising any intrusion into existing surfaces.



Energy Directly to the Vehicle

Thanks to the smart integration of e-charging stations, the electricity generated from solar power is used exactly where it is needed for charging electric cars and e-bikes on site.



Quick to Install, Ready for Immediate Use

Precast concrete elements manufactured as a single unit enable fast, clean and cost-efficient installation — ideal for both new developments and retrofit projects.



Flexible Application

Whether at corporate locations, car parks or private properties, our PV carports adapt to a wide range of requirements and combine technology, design and sustainability.