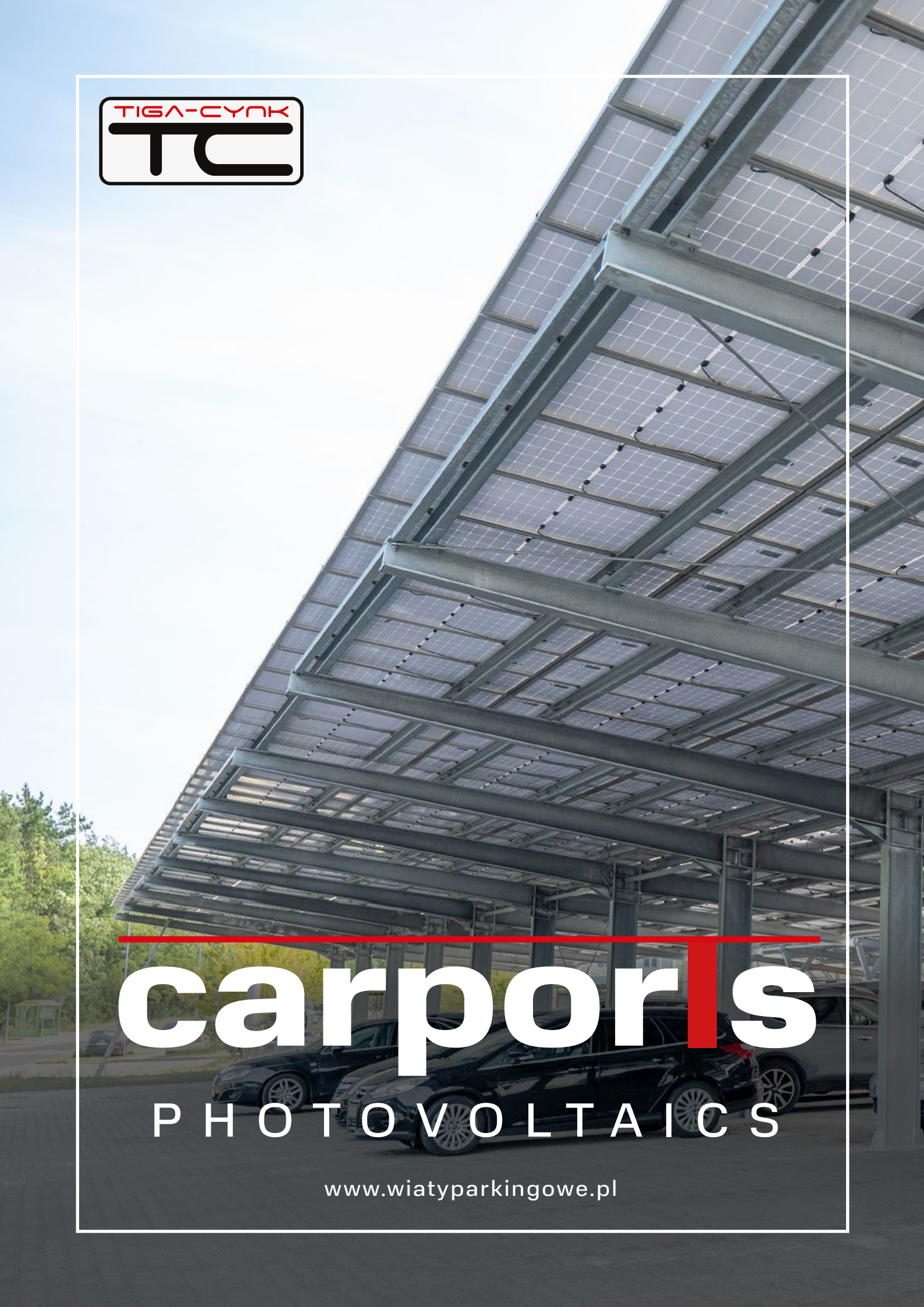


TIGA-CYNK

carports

PHOTOVOLTAICS

www.wiatyparkingowe.pl

WHY TIGA-CYNK CARPORTS?

TIGA-CYNK carports are durable, galvanised steel structures designed for the installation of photovoltaic panels. They come in many types, allowing them to be adapted to different parking layouts. They are aesthetic, functional and ready for integration with EV chargers and energy banks, and each project can be individually tailored to the customer's needs.

Universal assembly system

Different types of carports adapted to the specifics of the location and parking layout, with the possibility of installing additional equipment such as EV chargers, lighting or inverters.

Experience and specialisation

We have extensive knowledge in the design and installation of photovoltaic carports, ensuring contact with our engineers from the very beginning to create innovative solutions tailored to your needs.

Comprehensive approach

From design to implementation – everything under one roof.

Warranty

Galvanising of structures in accordance with DIN-EN ISO 1461 and DASt022 standards ensures the
quality and durability of the anti-corrosion coating for up to 50 years.

Delivery time

High production capacity and a well-coordinated design and assembly team allow for a quick start and completion of construction.

Property design

We offer unique assembly solutions that combine aesthetics with speed and simplicity of assembly.

Guaranteed quality

To ensure the highest quality of our products, we use an Integrated Quality, Occupational Health and Safety and Environmental Management System compliant with PN-EN ISO 9001:2015, PN-EN ISO 14001:2015 and PN-EN ISO 45001:2018, TÜV EN 1090-1 and ISO 3834-2.

Foundation piles

The use of foundation piles reduces installation time due to the possibility of immediate loading after screwing (no additional setting time is required, as with concrete). It minimises interference with existing infrastructure – no need for large excavations. Can be dismantled and reused.

Modern photovoltaic carports are steel parking roofs integrated with PV panels, which combine the function of protecting vehicles with the production of electricity. Thanks to their modular design, they can be adapted to various parking layouts, and their roof surface maximises energy yield while protecting cars from precipitation and solar radiation.

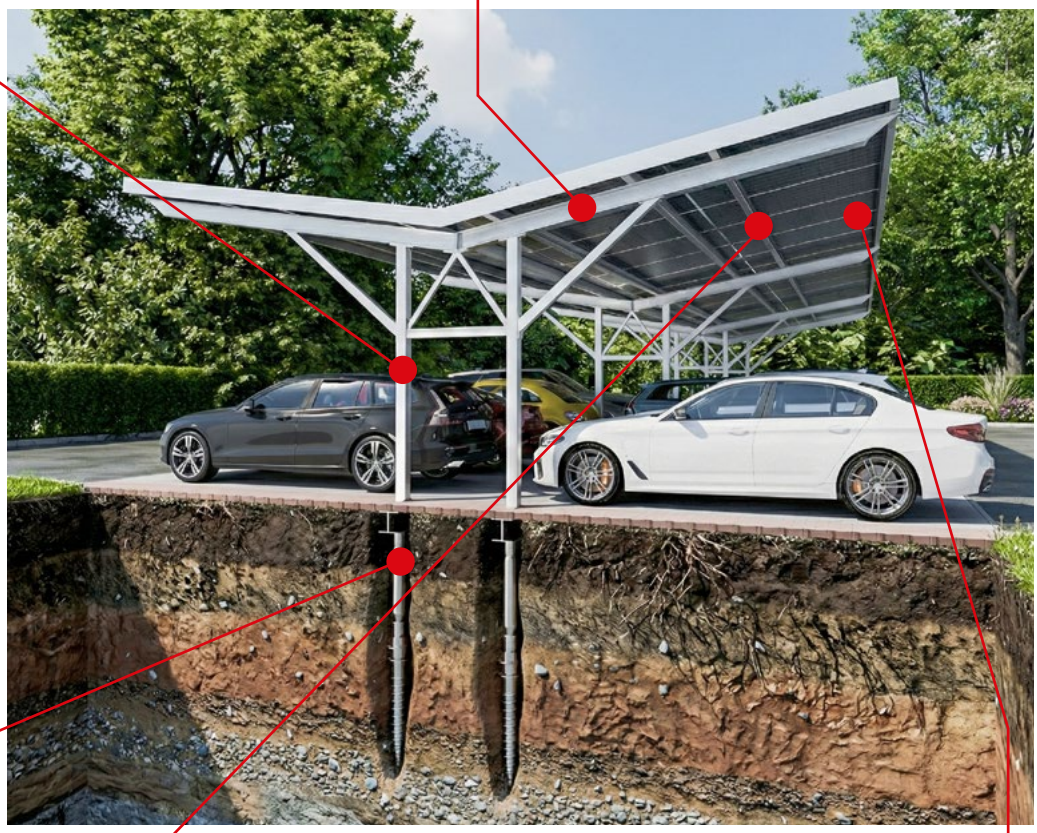
CARPORT DESIGN

POSTS

The carport columns are mounted on foundations and provide the main support for the roof structure. Their height can be adjusted to the user's needs, and their cross-section – selected from I-beams or closed profiles – ensures optimal strength while maintaining the aesthetics of the entire structure.

BEAMS

Roof bolts are made of sheet metal or I-beams, which are adapted to the support spacing for a specific type of PV module.



RAILS

These are horizontal roof support elements made of cold-formed profiles, which provide a stable base for the installation of photovoltaic panels and at the same time stiffen the entire structure.

ROOFING

Covering the carport roof with photovoltaic panels serves a dual purpose: it protects vehicles from the weather and enables the production of electricity. The roof can be covered with trapezoidal sheet metal.

Thanks to comprehensive solutions, we ensure an efficient installation process, which is important for active facilities or those that need to be put into service quickly.

ADDITIONAL FOUNDATION OPTIONS

Traditional foundations

CFA type

CARPORTS

CARPORT T-i type

p. 8

CARPORT T-h type

p. 9

CARPORT Y-i type

p. 10

CARPORT Y-h type

p. 11

TIGA-CYNK TC

PHOTOVOLTAIC

CARPORT L-i type

p. 12

CARPORT L-h type

p. 13

CARPORT 4N type

p. 14

CARPORT 4NP type

p. 15

Sample projects

LUMEL S.A. - 450 kWp

An example of implementation is a 450 kWp investment consisting of two types of carports: T and 4N, covering a total of 140 parking spaces. The investment was carried out on an existing car park. In this case, it was crucial to choose a foundation method that would have as little impact as possible on the existing infrastructure and would allow the parking spaces to be restored to use in the shortest possible time. Each element of the carport structure was protected against corrosion using individual galvanising technology with constant monitoring of the zinc bath at TIGA-CYNK Sp z o.o. in Małomice, resulting in a 20-year warranty for the structure and anti-corrosion coating.

Tiga-Cynk Sp. z o.o. - 138 kWp

An investment in Małomice with a capacity of 138 kWp, consisting of four types of carports: L, T, 4N, 4NP covering a total of approx 41 parking spaces. The aim of the project was to create an alternative power source for the company and to use the existing area for employee parking, while also creating a portfolio of Tiga-Cynk product portfolio - available to our customers at any time of the day. The project was carried out on a non-existent car park, which required a complete set of earthworks. The foundation work began in winter and, despite the frost and precipitation, this did not prevent the investment schedule from being maintained.

L-i

T-i

Investment proposals

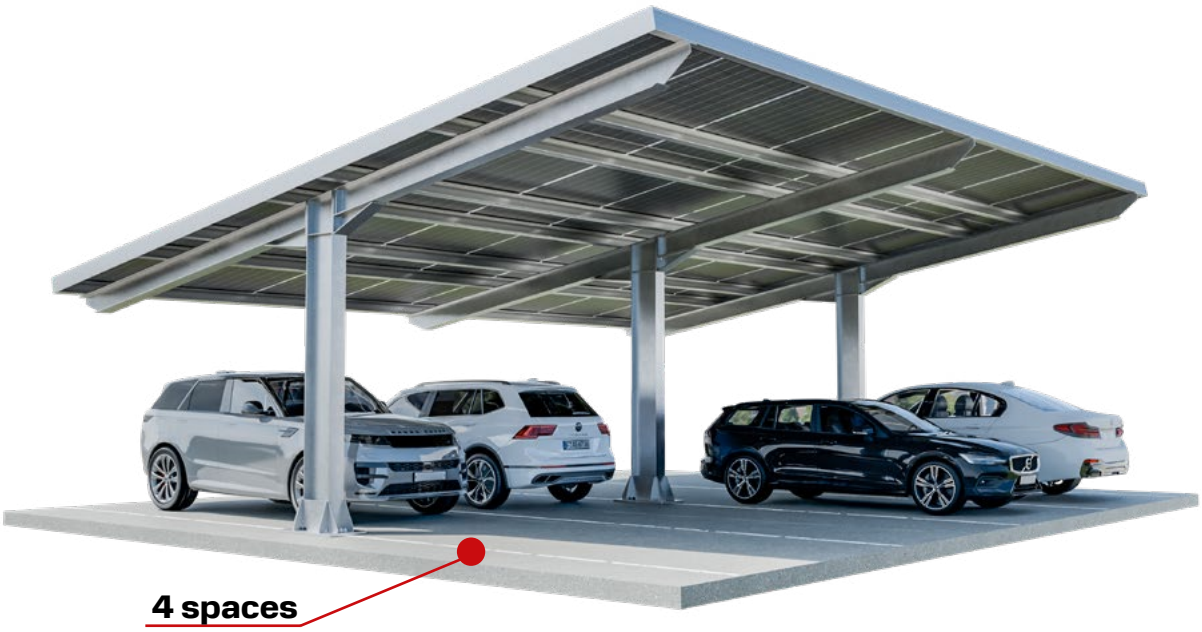
Below are two conceptual visualisations of photovoltaic carports, which illustrate possible ways of utilising parking space using the TIGA-CYNK structure. Both versions take into account aesthetics, functionality and the effective placement of PV panels, while ensuring vehicle protection and green energy production. Each of the presented options can be adapted to the individual needs of the investor – in terms of layout, dimensions and the types of structures used.

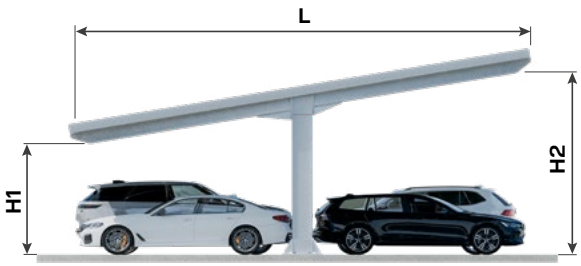
Y-h

T-h

CARPORT
T-i type

The T-i type carport is a single-support steel structure designed for large-area car parks with a front-to-back layout, where there is no risk of vehicle doors colliding with the structure. High energy efficiency is ensured by a south-facing single-pitched roof.





TECHNICAL DATA

H1	**2,0 ÷ 4,0 [m]**
H2	**4,1 ÷ 6,1 [m]**
L	**up to 12,3 [m]**
Number of spaces / 1 carport	**4**
Power / 1 carport	**up to 16,4 [kWp]**
Warranty	**up to 20 years**
Modular expansion	**Yes**

10 — 10-degree angle of inclination

Load compliance with EUROCODE

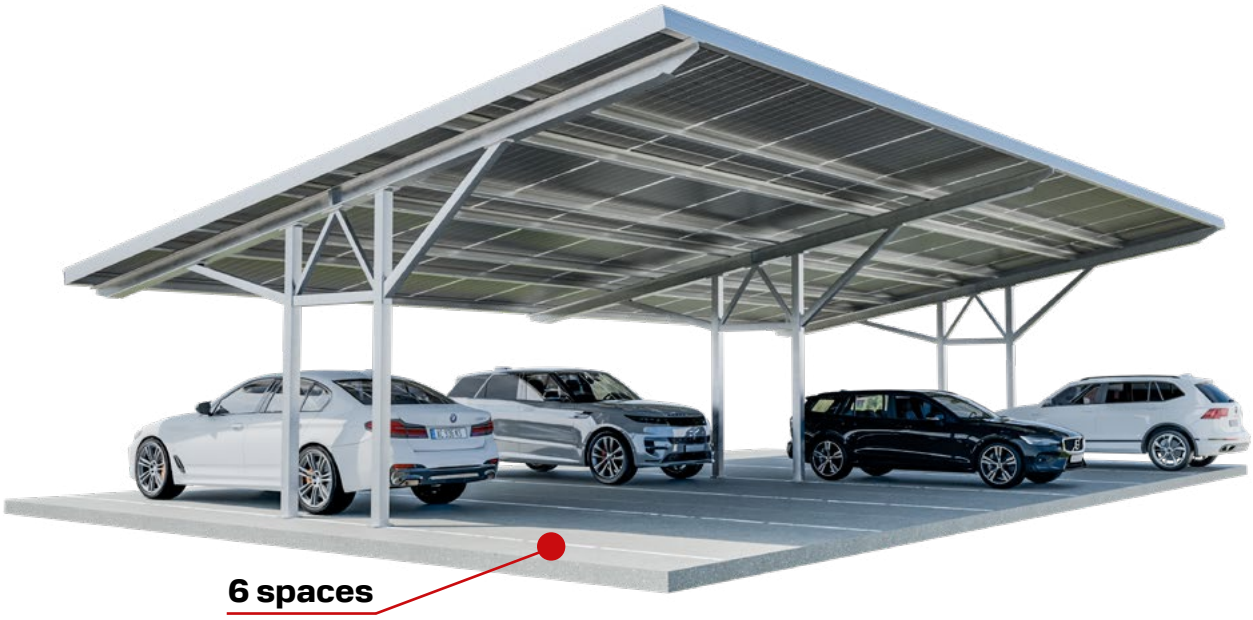
Width between posts 7,5 m

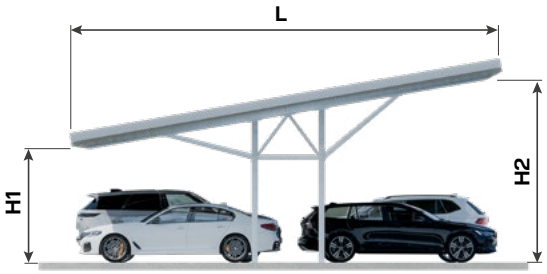
Zn — Hot-dip galvanised construction

Modular expansion option

CARPORT
T-h type

The T-h carport is a steel double-support structure designed for use in large-area car parkswith a front-to-back layout, eliminating the risk of vehicle doors colliding with structural elements. The south-facing single-pitched roof ensures high energy efficiency.





TECHNICAL DATA

H1	2,0 ÷ 4,0 [m]
H2	4,1 ÷ 6,1 [m]
L	up to 12,3 [m]
Number of spaces / 1 carport	6
Power / 1 carport	up to 21,6 [kWp]
Warranty	up to 20 years
Modular expansion	Yes

10 — 10-degree angle of inclination

Load compliance with EUROCODE

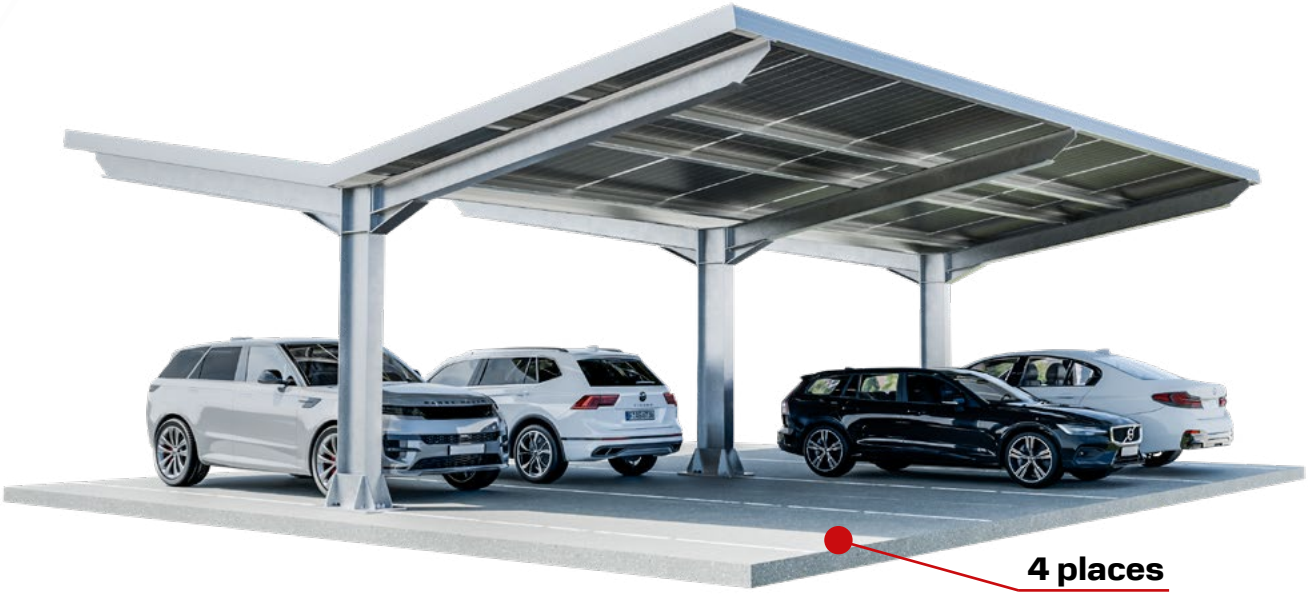
Width between posts 8,2 m

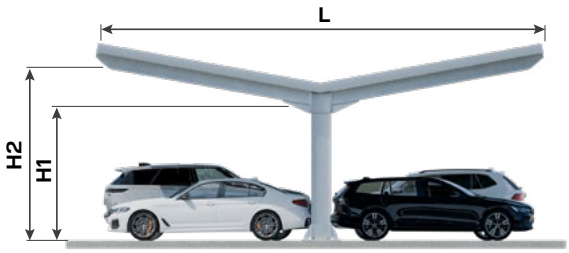
Zn — Hot-dip galvanised construction

Modular expansion option

CARPORT
Y-i type

The Y-i type carport is a single-support steel structure designed for large-area car parks with a front-to-back layout, where there is no risk of vehicle doors colliding with the structure. The gable roof allows for all-day use of photovoltaic panels.





TECHNICAL DATA

H1	**2,0 ÷ 4,0 [m]**
H2	**3,1 ÷ 5,1 [m]**
L	**up to 12,3 [m]**
Number of spaces / 1 carport	**4**
Power / 1 carport	**up to 16,4 [kWp]**
Warranty	**up to 20 years**
Modular expansion	**Yes**

10 — 10-degree angle of inclination

Load compliance with EUROCODE

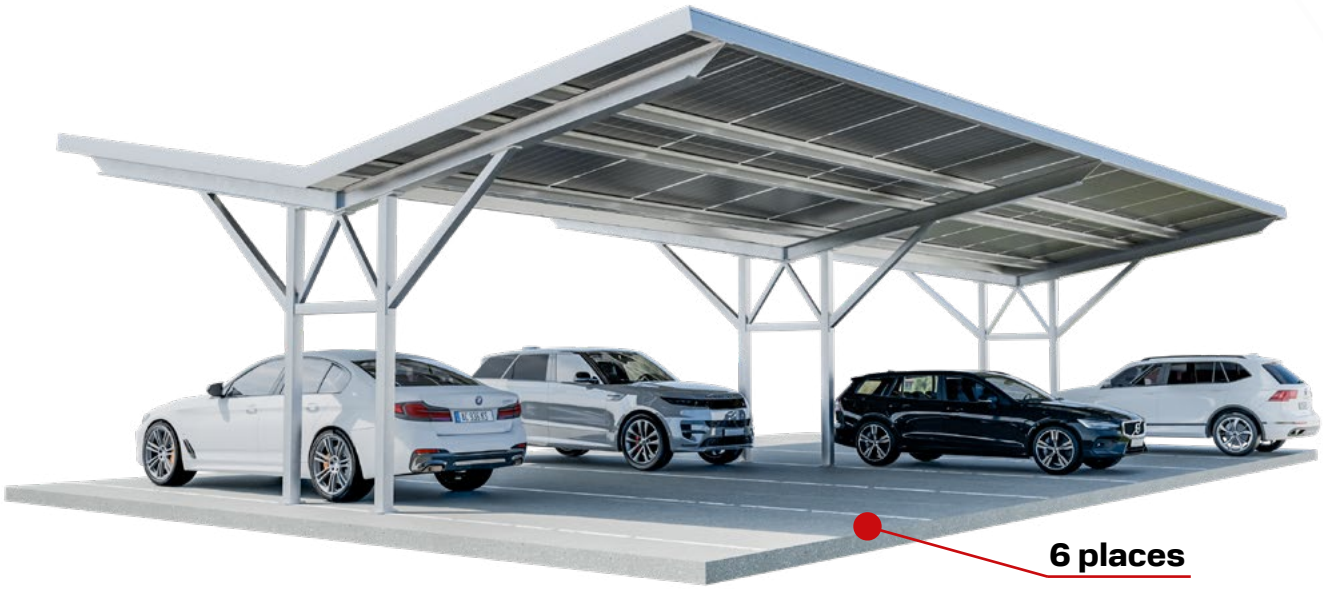
Width between posts 7,5 m

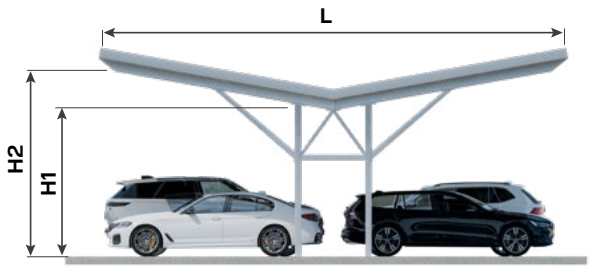
Zn — Hot-dip galvanised construction

Modular expansion option

CARPORT
Y-h type

The Y-h carport is a steel double-support structure designed for use in large-area car parks with a front-to-back layout. This type eliminates the risk of vehicle doors colliding with load-bearing elements. The use of a gable roof allows for the effective use of photovoltaic panels.





TECHNICAL DATA

H1	2,0 ÷ 4,0 [m]
H2	3,1 ÷ 5,1 [m]
L	up to 12,3 [m]
Number of spaces / 1 carport	6
Power / 1 carport	up to 21,6 [kWp]
Warranty	up to 20 years
Modular expansion	Yes

10 — 10-degree angle of inclination

Load compliance with EUROCODE

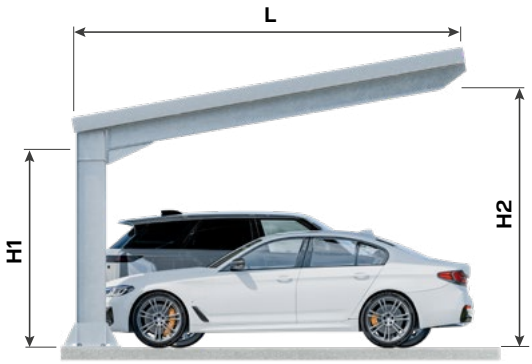
Width between posts 8,2 m

Zn — Hot-dip galvanised construction

Modular expansion option

CARPORT
L-i type

The L-i type carport is a single-support steel structure designed for single- row parking spaces with a parallel parking layout, where there is no risk of vehicle doors colliding with the structure.



TECHNICAL DATA

H1	**2,0 ÷ 4,0 [m]**
H2	**3,1 ÷ 5,1 [m]**
L	**up to 7,2 [m]**
Number of spaces / 1 carport	**2**
Power / 1 carport	**up to 8,2 [kWp]**
Warranty	**up to 20 years**
Modular expansion	**Yes**

10 — 10-degree angle of inclination

Load compliance with EUROCODE

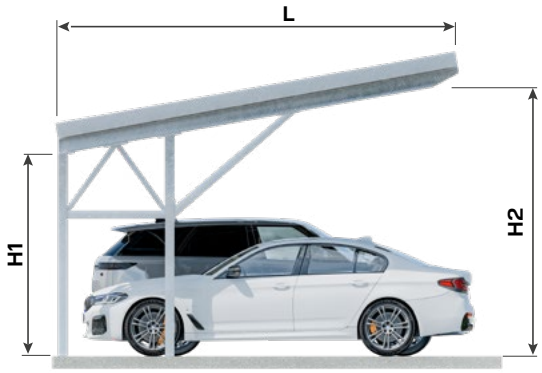
Width between posts 7,5 m

Zn — Hot-dip galvanised construction

Modular expansion option

CARPORT
L-h type

The L-h carport is a double-suppor t steel structure designed for single-row parking spaces with a parallel parking layout. The design eliminates the risk of vehicle doors colliding with the load-bearing elements of the carport.



TECHNICAL DATA

H1	2,0 ÷ 4,0 [m]
H2	3,1 ÷ 5,1 [m]
L	up to 7,2 [m]
Number of spaces / 1 carport	2
Power / 1 carport	up to 8,2 [kWp]
Warranty	up to 20 years
Modular expansion	Yes

10 — 10-degree angle of inclination

Load compliance with EUROCODE

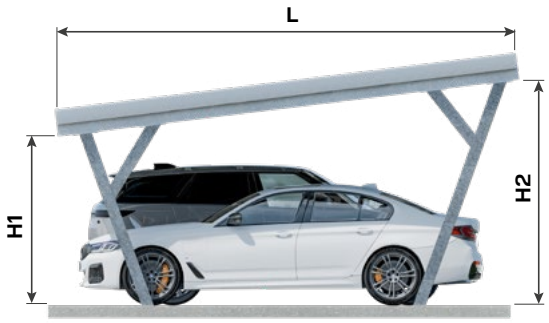
Width between posts 7,5 m

Zn — Hot-dip galvanised construction

Modular expansion option

CARPORT
4N type

The 4N carport is a steel two-support structure designed for single- row parking lots with a serial parking layout, where there is no risk of vehicle doors colliding with the structure thanks to the appropriate spacing of the support columns.



TECHNICAL DATA

H1	**2,2 [m]**
H2	**3,3 [m]**
L	**up to 7,2 [m]**
Number of spaces / 1 carport	**2**
Power / 1 carport	**up to 8,2 [kWp]**
Warranty	**up to 20 years**
Modular expansion	**Yes**

10
10-degree angle of inclination

Load compliance with EUROCODE

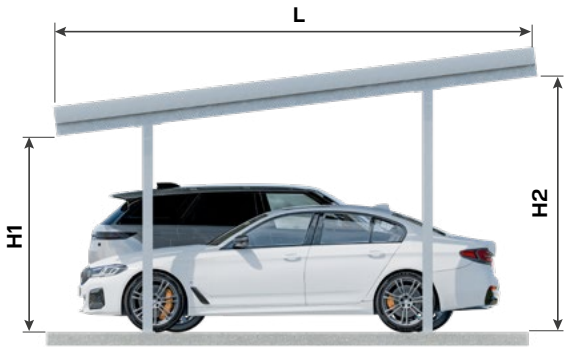
Width between posts 7,5 m

Zn
Hot-dip galvanised construction

Modular expansion option

CARPORT
4NP type

The 4NP carport is a double-support steel structure designed for single-row parking spaces with a parallel parking layout. The appropriate spacing of the support columns eliminates the risk of vehicle doors colliding with structural elements.



TECHNICAL DATA

H1	2,0 ÷ 3,0 [m]
H2	3,1 ÷ 4,1 [m]
L	up to 7,2 [m]
Number of spaces / 1 carport	2
Power / 1 carport	up to 8,2 [kWp]
Warranty	up to 20 years
Modular expansion	Yes

10 — 10-degree angle of inclination

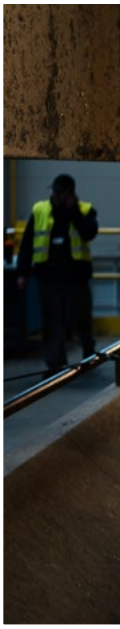
Load compliance with EUROCODE

Width between posts 7,5 m

Zn — Hot-dip galvanised construction

Modular expansion option

ABOUT US

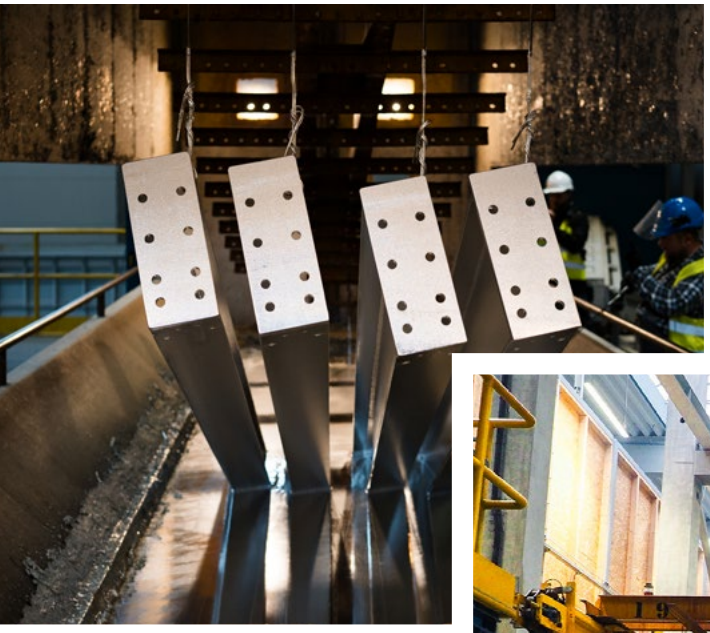


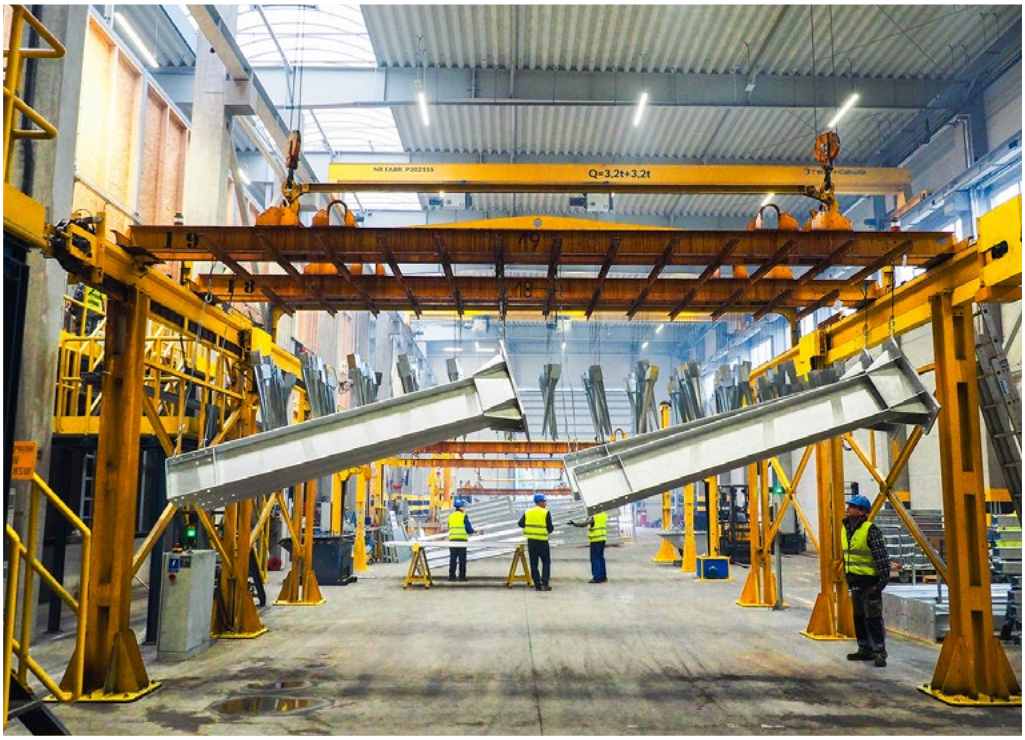
2012

Establishment of

TIGA-CYNK

TIGA-CYNK was established in 2012. Previously, since 1993, the company's shareholders had been involved in the production of galvanised barrels, ground wires and galvanised strips for the production of galvanised pipes and cold-formed profiles. Currently, at our production plant in Małomice, thanks to the use of advanced technologies in an integrated, partially automated continuous galvanising line for steel strips and lightning protection wires, we ensure not only the high quality of our products, but also care for the natural environment and the safety of our employees.





2022

Expansion of the offer to include

HOT-DIP GALVANISING

Our production processes comply with the PN-EN ISO 1461 standard. The integrated management system used in the plant is based on the PN-EN ISO 9001:2015, PN-EN ISO 14001:2015 and PN -EN ISO 45001:2018 is proof of our commitment to supporting the idea of sustainable development. In 2022, we expanded our offer to include hot-dip galvanising services carried out on a modern technological line.

The central point of this line, a 7.0 m x 3.2 m x 1.5 m tank, enables the galvanising of a wide range of elements. This investment is the next stage in our efforts to protect against corrosion while conserving natural resources.

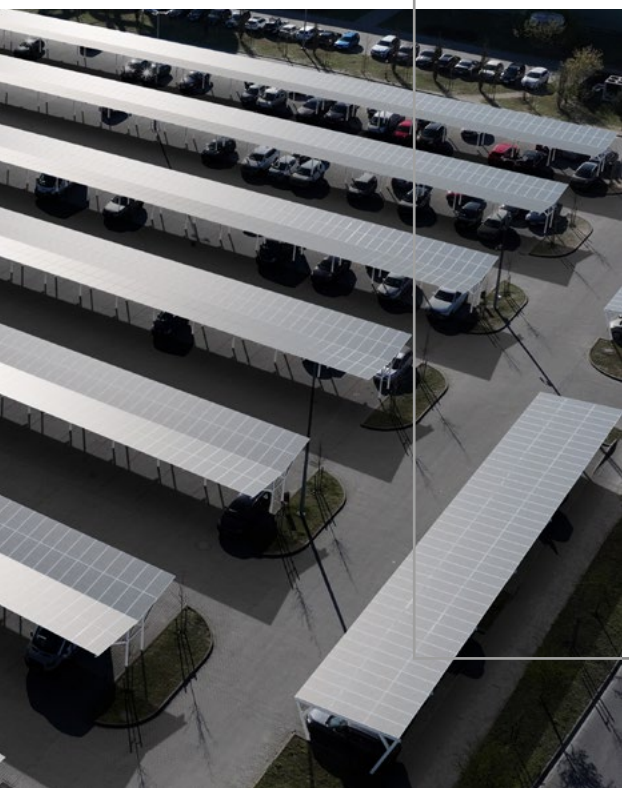
2024

Expansion of our portfolio to include the sale of

PHOTOVOLTAIC CARPORTS

In 2022, we began design work on expanding the Tiga-Cynk range with permanent structures in the form of photovoltaic carports. The key advantage of the products we offer is their well-thought--out assembly method, a number of functional and technical improvements, as well as the quality of workmanship, which is supervised by our own modern laboratory.

The products we sell are original designs created by our internal research and development centre. Striving to set new standards in the industry, we use innovative unit galvanising technologies with constant monitoring of the zinc bath, ensuring the durability of our products while maintaining the highest environmental standards.



Guaranteed
QUALITY

Our commitment to building lasting relationships with our partners, offering the highest quality products at competitive prices and striving to minimise order fulfilment times goes hand in hand with our primary goal – customer satisfaction and contentment. Having our own quality control department and laboratory ensures faster response to problems and guarantees the highest standards.

TIGA-CYNK
TC

PLEASE FEEL FREE TO CONTACT US!

CARPORTY@TIGA-CYNK.PL

WWW.WIATYPARKINGOWE.PL

FILL OUT THE FORM FOR SUBMITTING OFFERS

Production plant i Małomice near Żagań (ubuskie voivodeship)

Tiga-Cynk is located close to the **A4** and **A18** motorways and the **S3** expressway, which allows us to offer fast deliveries and easy collection of our products.

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Share capital: PLN 2,004,000, paid in full