

SOLAR CARPORTS

PRODUCT CATALOGUE

INNOVATION IN EVERY DETAIL

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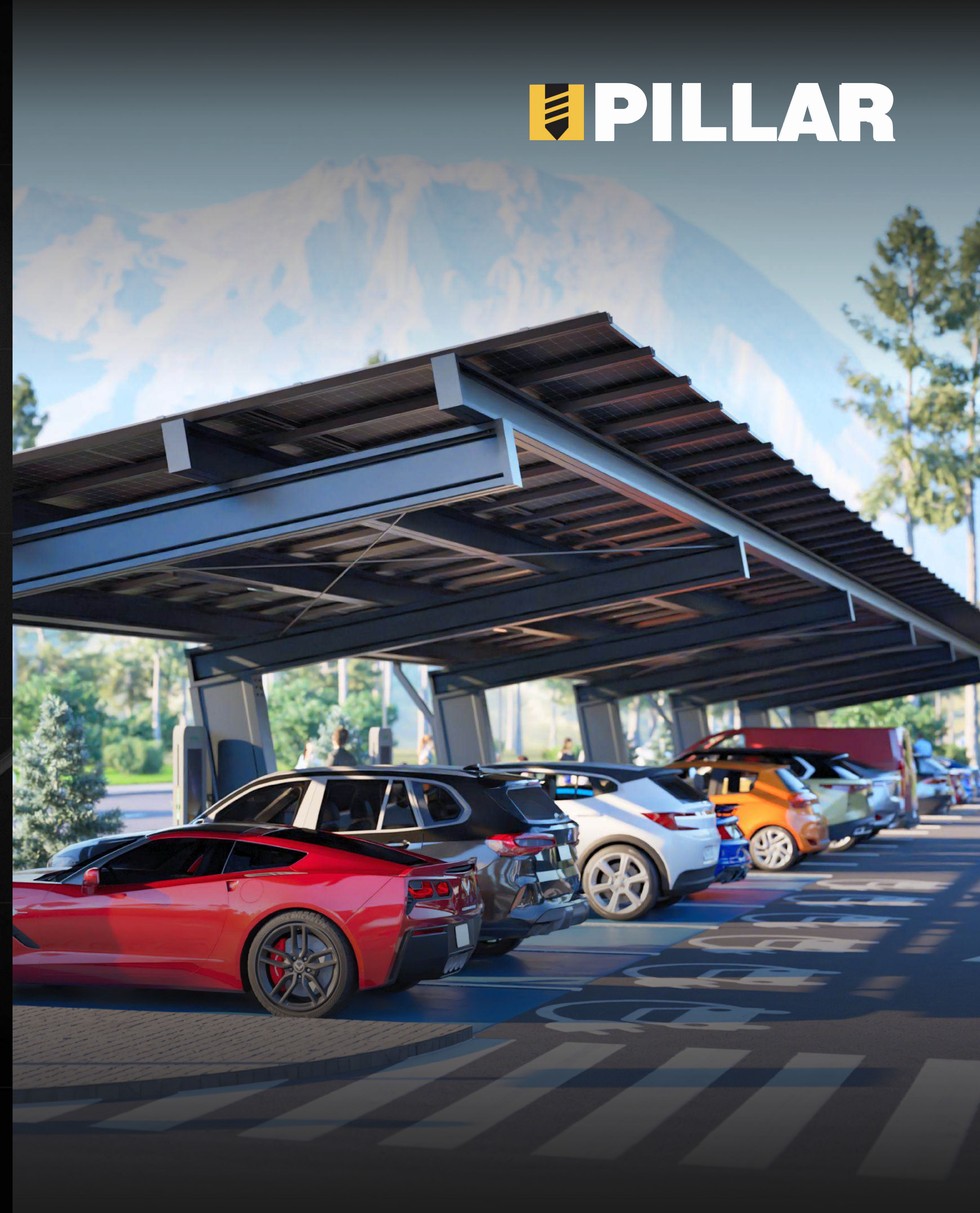
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/ SOLAR CARPORTS



PILLAR solar carports blend style and efficiency, protecting vehicles from the sun, snow, and rain while generating electricity. They are an easy-to-install system that is compatible with various foundations and all photovoltaic module types and sizes. Drainage and lighting options are available. In addition to ready-made designs, PILLAR provides tailored solutions to fit your project's power needs, parking area, and vehicle sizes. PILLAR carports provide parking spaces that benefit you, reduce costs, and support the stability of your business! Invest in a future free from energy dependency with PILLAR company!



01/ CARPORT MODELS



ENHANCE YOUR PARKING AREAS WITH AN INNOVATIVE,
ENERGY-EFFICIENT SOLUTION THROUGH PILLAR.
OPTIMIZED SPACE, POWER GENERATION,
AND VEHICLE PROTECTION.



MODEL BLADE

"Premium aesthetics meets
record-breaking efficiency"



MODEL TAURUS

"The perfect balance
of elegance and functionality"



MODEL W

"Simple design produces
powerful results"

02 / APPLICATION

PILLAR SOLAR CARPORT APPLICATION



COMMERCIAL AND ENTERTAINMENT CENTERS

Car dealerships, spa complexes, entertainment venues, business centers, offices

Solar carports offer financial savings on electricity, protect vehicles from the elements, and enhance customer comfort

INDUSTRIAL AND LOGISTICS HUBS

Production facilities, logistics hubs, airports, railway and bus stations

Solar carports lower electricity expenses, enhance facility infrastructure, and offer practical benefits for employees and guests

PARKING AREAS

Public, city and municipal parking areas

Solar carports improve urban sustainability by converting parking spaces into renewable energy infrastructure

SUBURBAN AND RECREATIONAL ZONES

Country clubs, and recreational and leisure areas

Solar carports enhance sustainability and visual appeal at their site. Improve customer experience

03 / KEY FEATURES



EASY INSTALLATION

The bolted connection enables quick and cost-effective installation

EXCEPTIONAL QUALITY

The carports are made of high-quality galvanised steel and anodised aluminium

DURABILITY IN VARIED CONDITIONS

Considering all potential loads ensures the structure's strength, resilience, and reliability under various conditions

EASY PARKING

Well-designed structural supports ensure that parking and door access are both convenient and comfortable



03.1 / KEY PROPERTIES



EFFICIENCY

An efficient design that combines reliable vehicle protection and electricity generation

RELIABILITY AND DURABILITY

The structure is made of high-quality steel, and the HDG coating (Hot-dip galvanizing of manufactured parts) ensures superior corrosion resistance

WIDE RANGE OF APPLICATIONS

The design is perfect for urban parking areas, shopping centres, residential complexes, hospitals, and private households

EASY INSTALLATION

Thanks to the modular design, the carport is easy and quick to install. The carport is designed with a minimum number and weight of components to reduce logistics and installation costs

STABILITY AND SECURITY

The design is calculated considering all possible snow/wind loads of climatic and geological conditions at the installation site. The calculations ensure that the structure operates reliably, durably, and safely

UNIVERSAL DESIGN

The carport features a modern and attractive design that integrates with any design code while providing a concise and comprehensive view of your site



04 / MODEL BLADE

 **PILLAR**



FOR THOSE SEEKING A PREMIUM PRODUCT THAT COMBINES HIGH PERFORMANCE WITH AESTHETIC APPEAL

04.1 / MODEL BLADE TYPES



L - type



Y - type

04.2

SOLAR CARPORT MODEL BLADE TECHNICAL CHARACTERISTICS



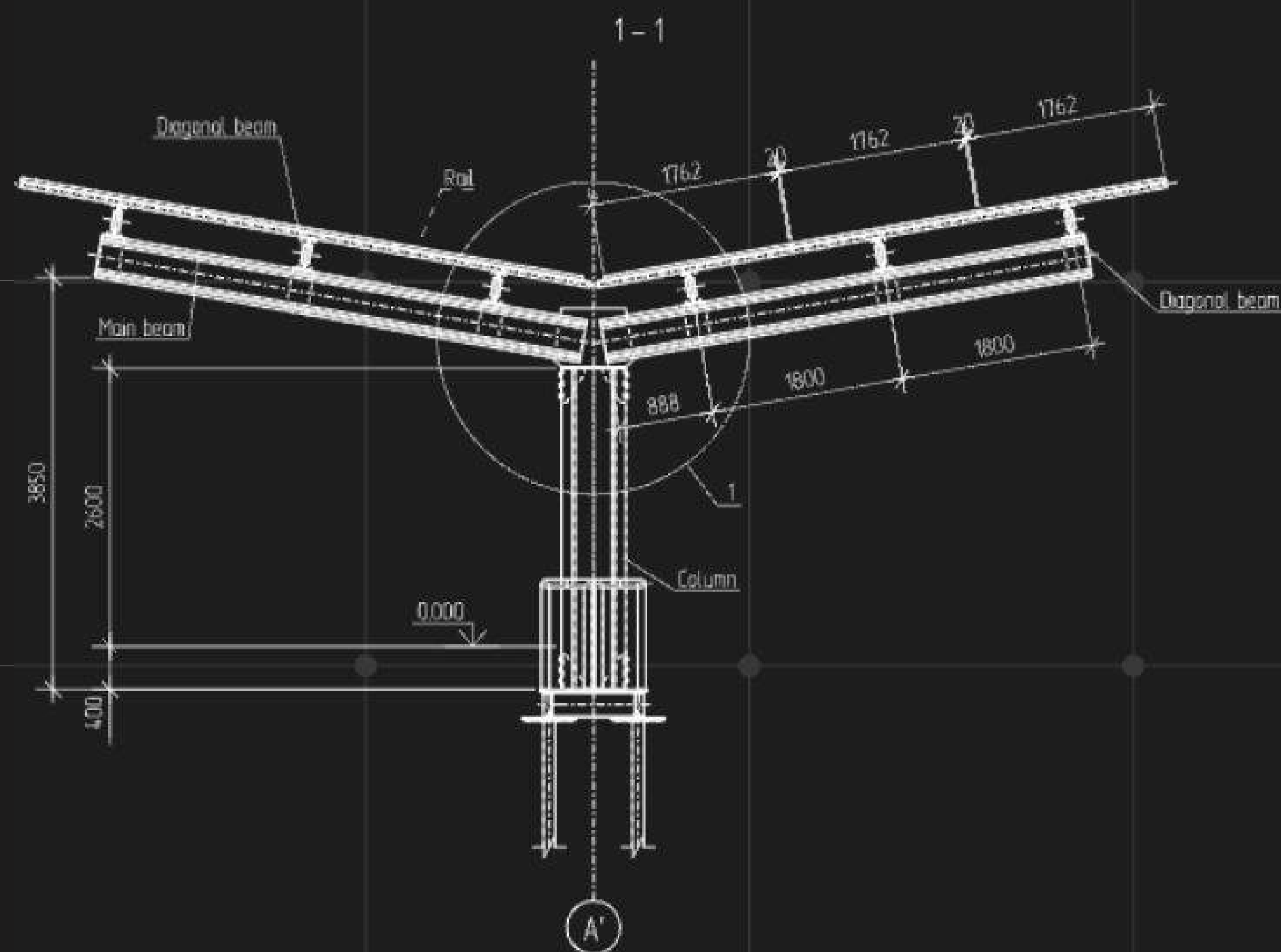
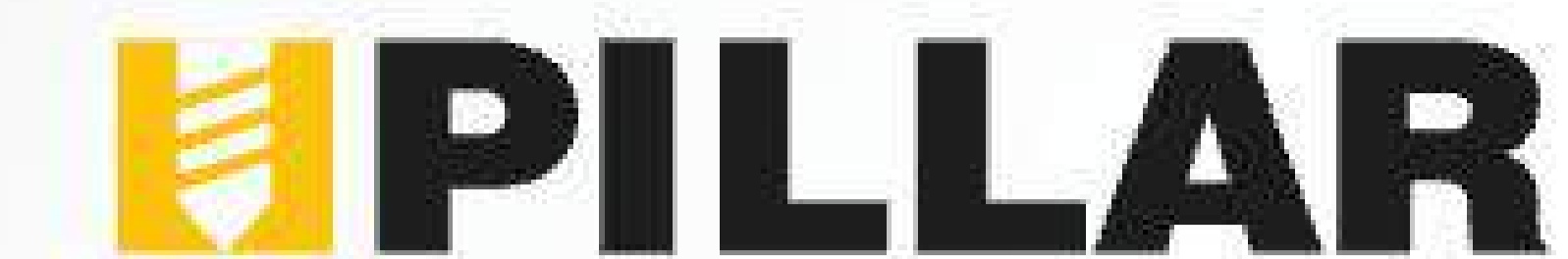
SOLAR CARPORT MODEL BLADE TECHNICAL CHARACTERISTICS

CONFIGURATION	2-6 parking spaces per system segment
DISTANCE BETWEEN SUPPORTS	8100 mm max. In the axes between the columns
FOUNDATION TYPES	Groundscrews / concrete
TILT ANGLE	Fixed 10-12°
CLEARANCE HEIGHT	min. 2300 mm
ORIENTATION AND NUMBER OF PV MODULES	Horizontal – 4-6 rows Vertical-3 rows
PV MODULE SIZES	All available sizes
MATERIALS	Steel grades S235JR, S295JR, S350GD, S355MC
COATING	Galvanized steel (PG 275-800 gr/m ²) Hot-dip galvanized steel (HDG ISO 1461)

CORROSION RESISTANCE	Standard: Class C3. Increased corrosion resistance is available on request.
PAINTING COLOR	Optional, according to the RAL color chart
LIGHTING SET	Available as an option
PROTECTIVE BUMPERS	Available as an option
WATERPROOF	Included in the basic configuration
DRAINAGE SYSTEM	Available as an option
COATING WARRANTY	10 Years
SERVICE LIFE	25 Years
PERMISSIBLE LOADS	Snow loads – up to 3.5 kN/m (increased loads upon request). Wind load - up to 1kn/m (on request)

04.3

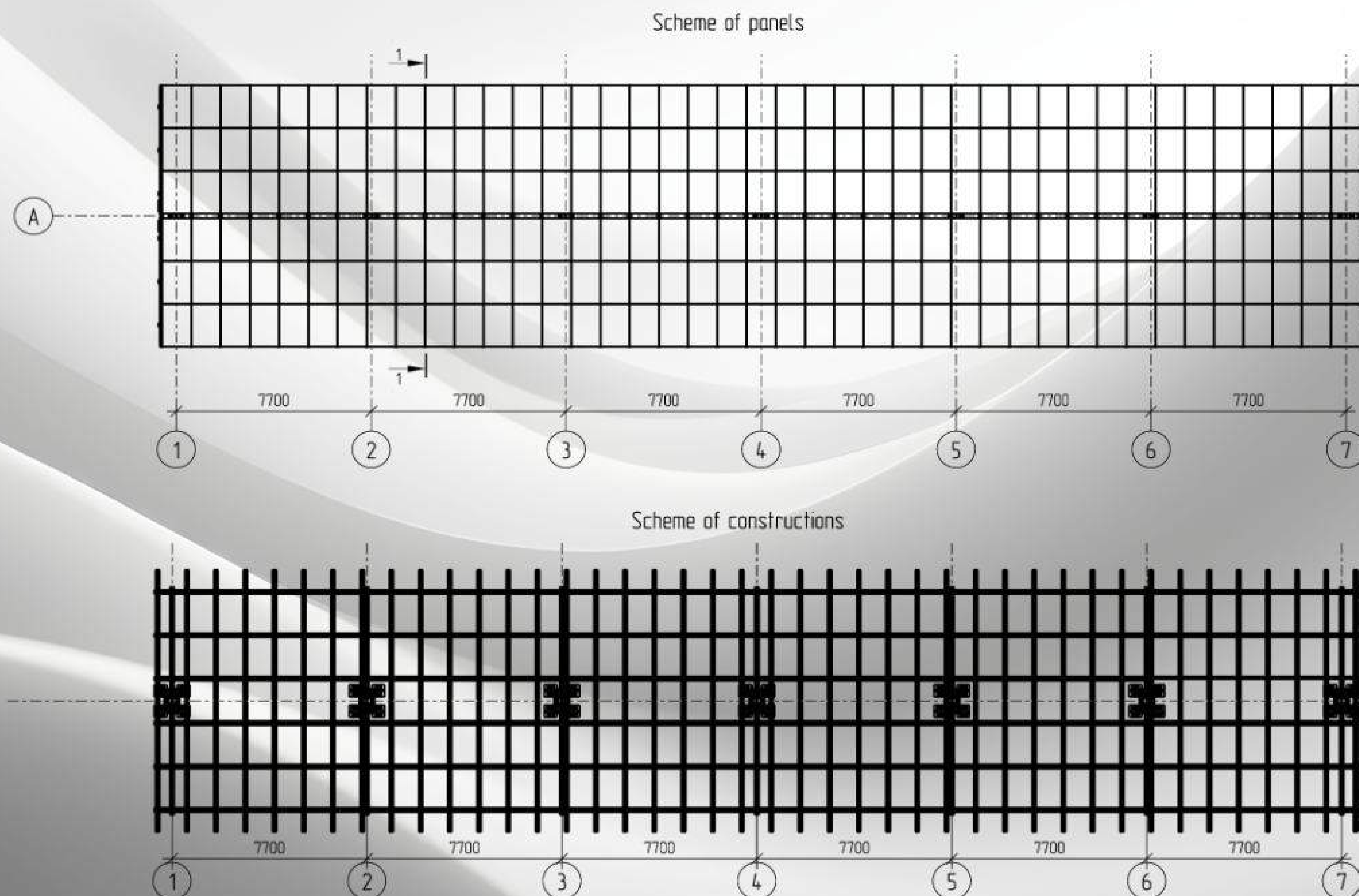
MODEL BLADE Y - 36
POWER - 150 KW



Y-type

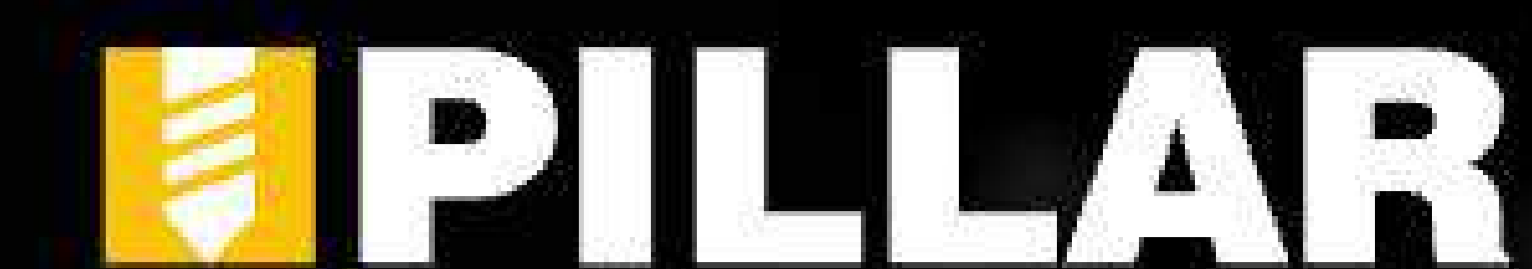
BASED ON
PV 2278x1134 mm, 610 W

36 parking spaces:
6 segments of 6 parking spaces each

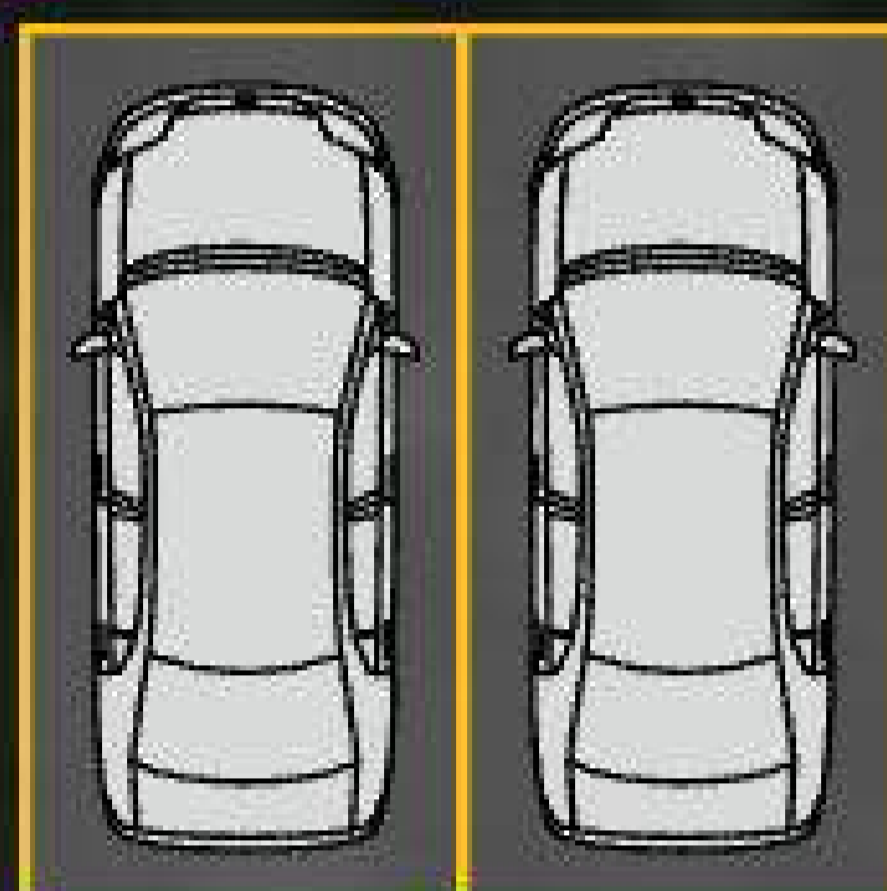


04.5

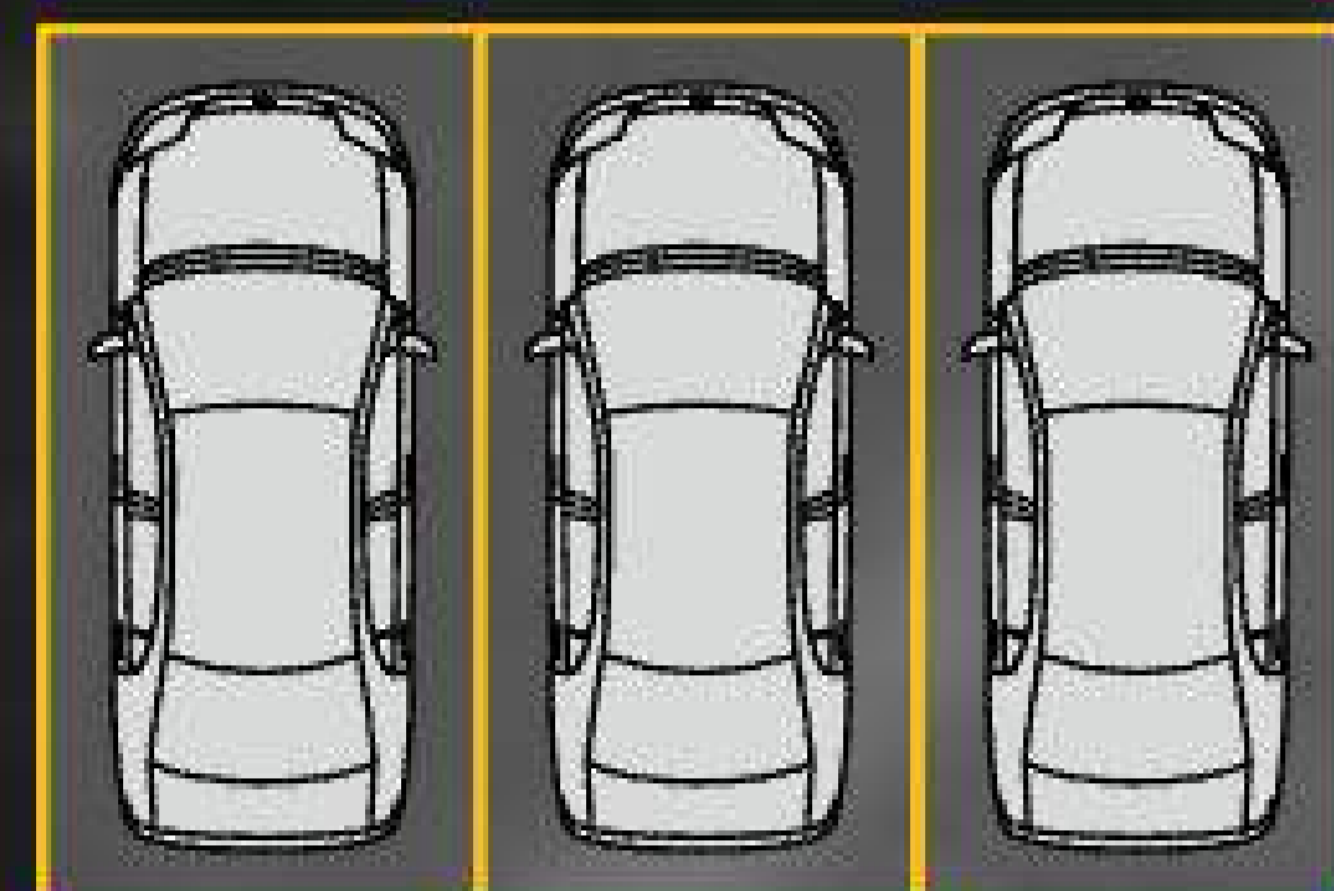
SOLAR CARPORT MODEL BLADE PARKING ANGLE AND SPAN AREA



2 cars

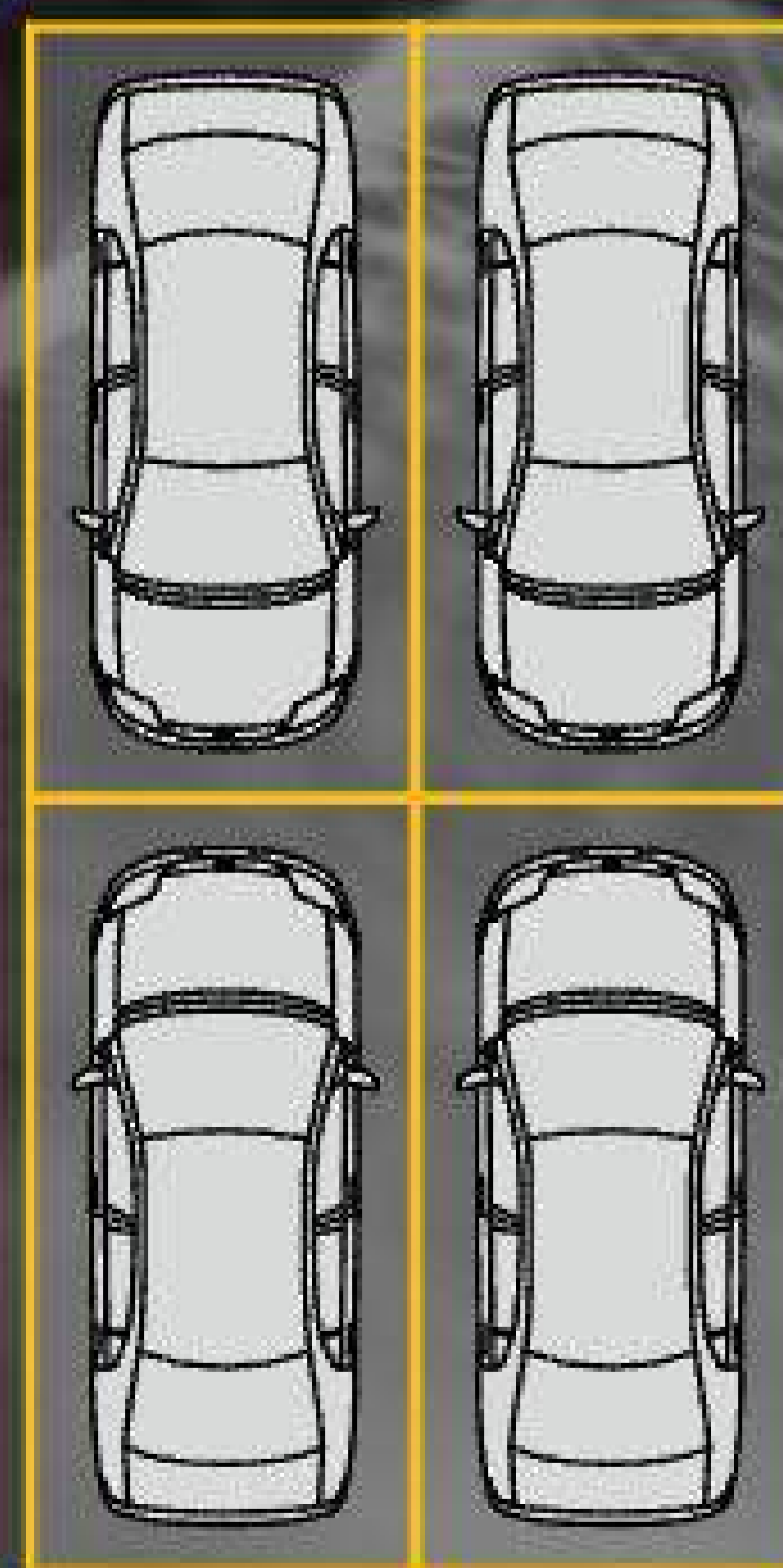


3 cars

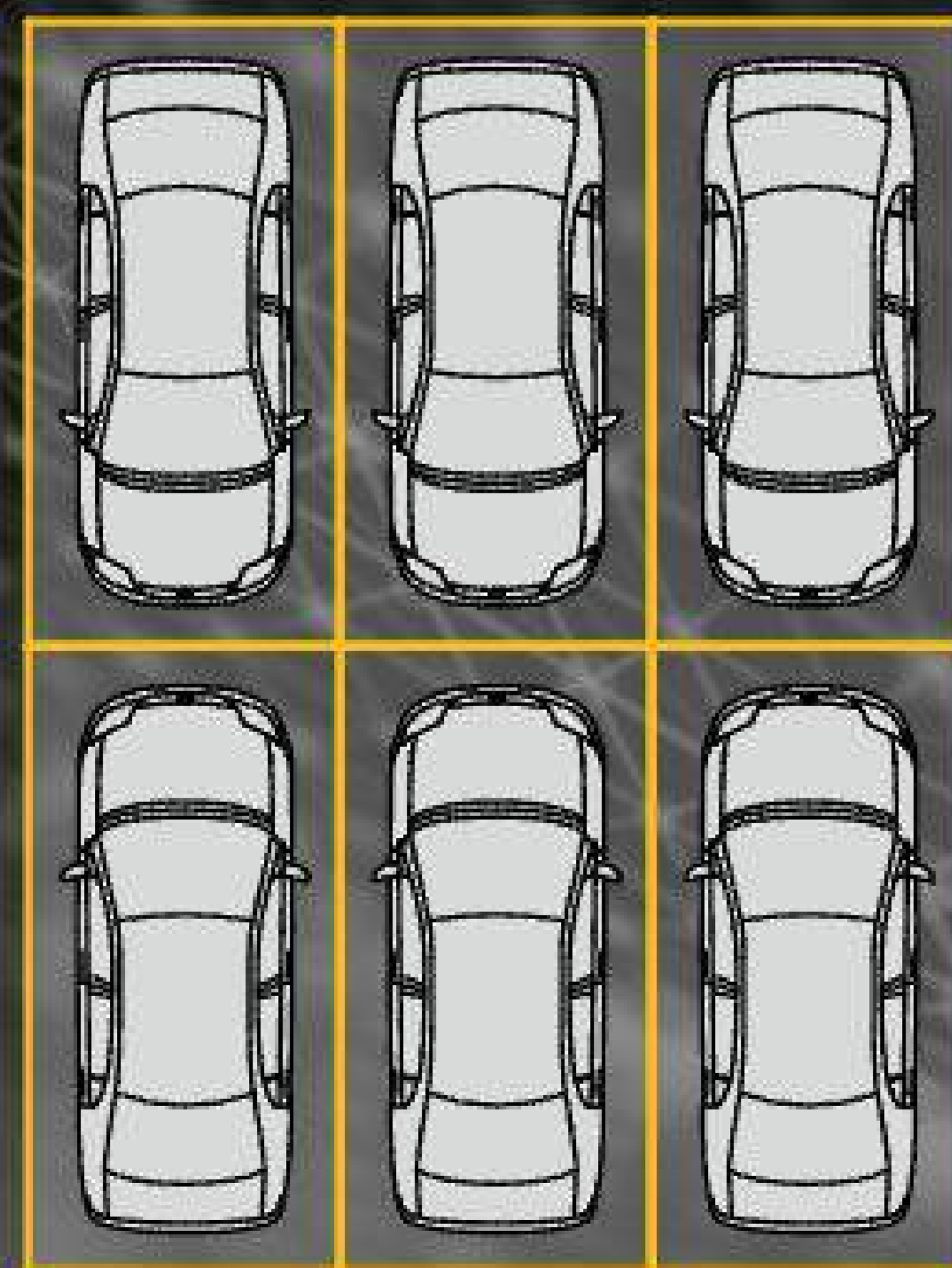


ONE SEGMENT
L - type

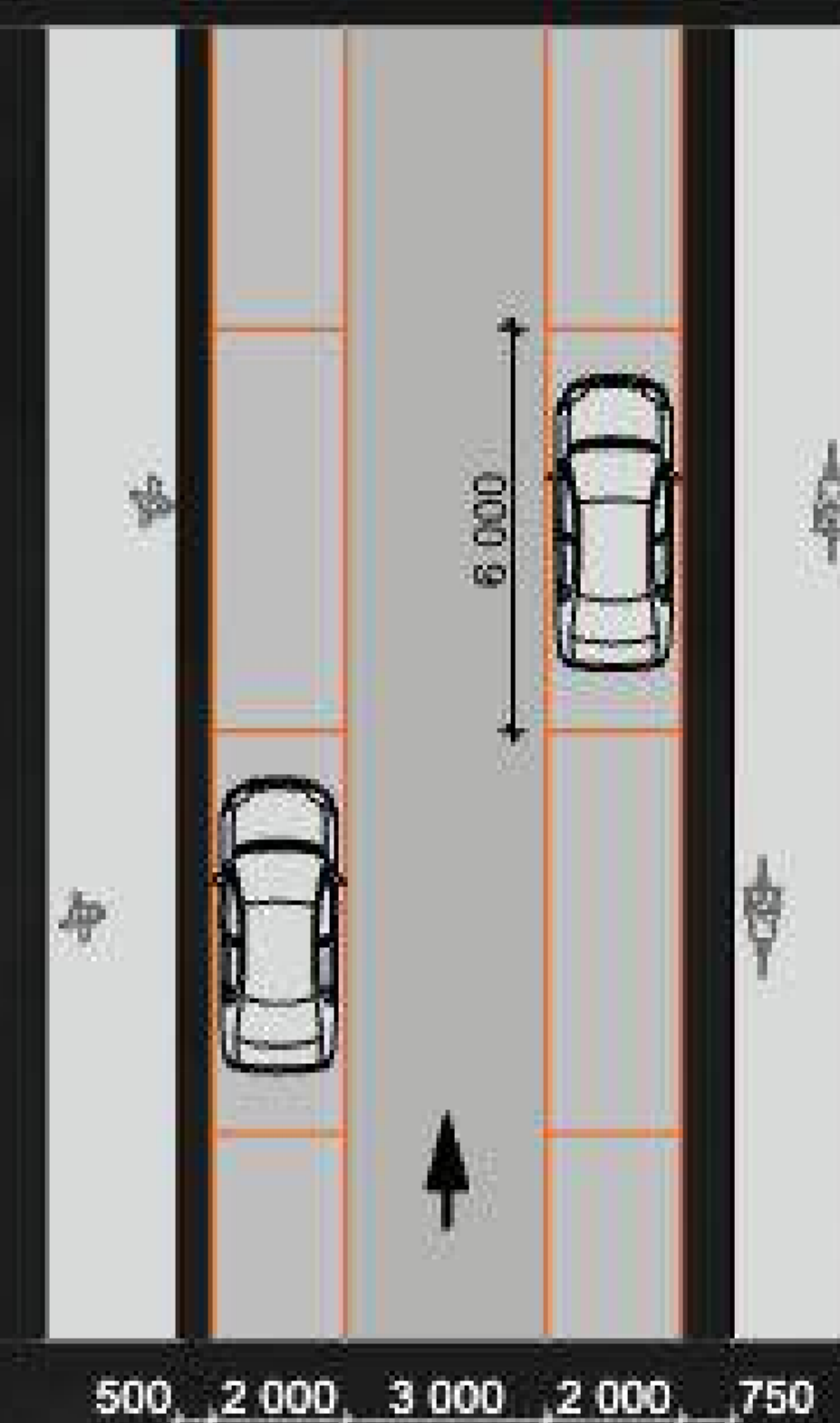
4 cars



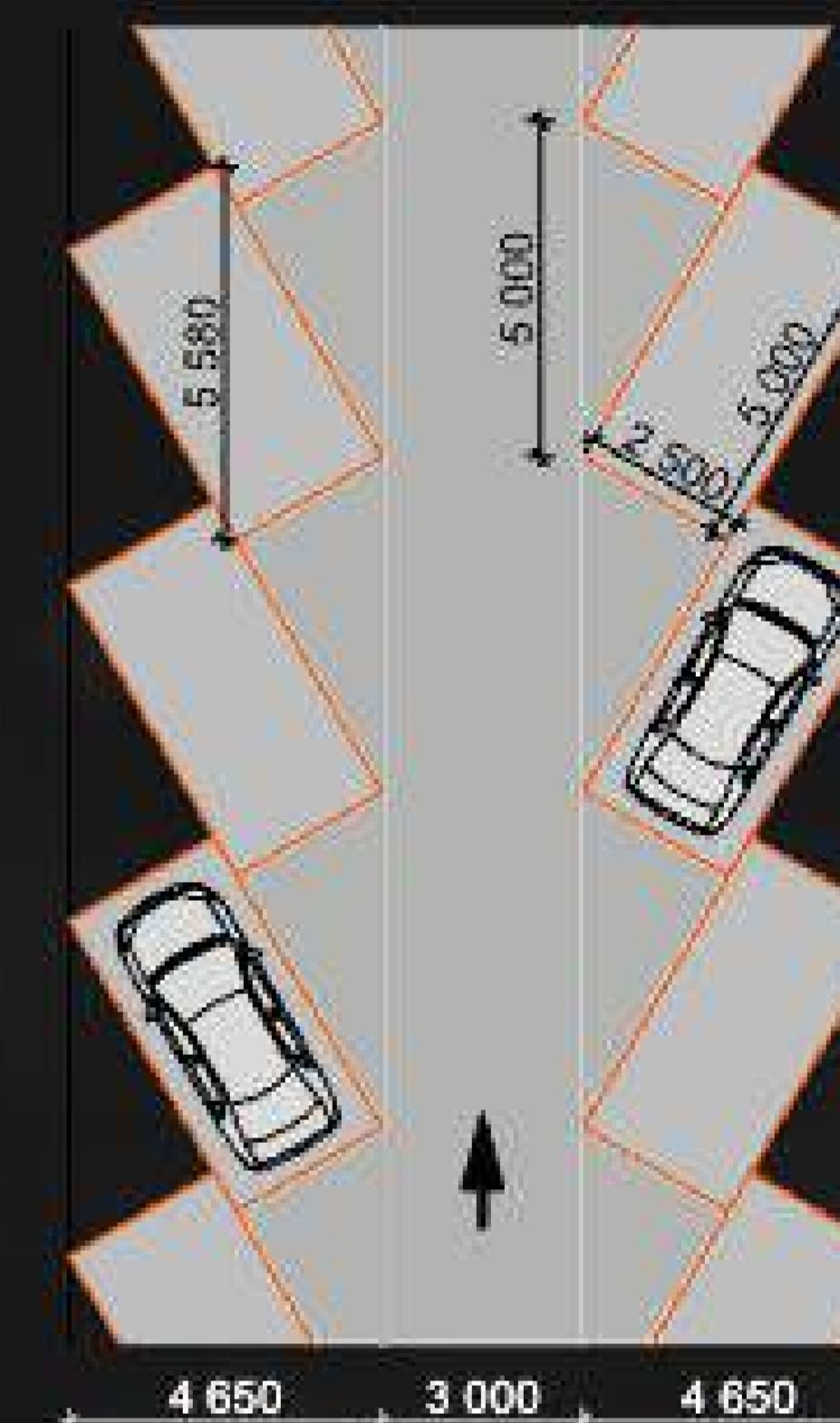
6 cars



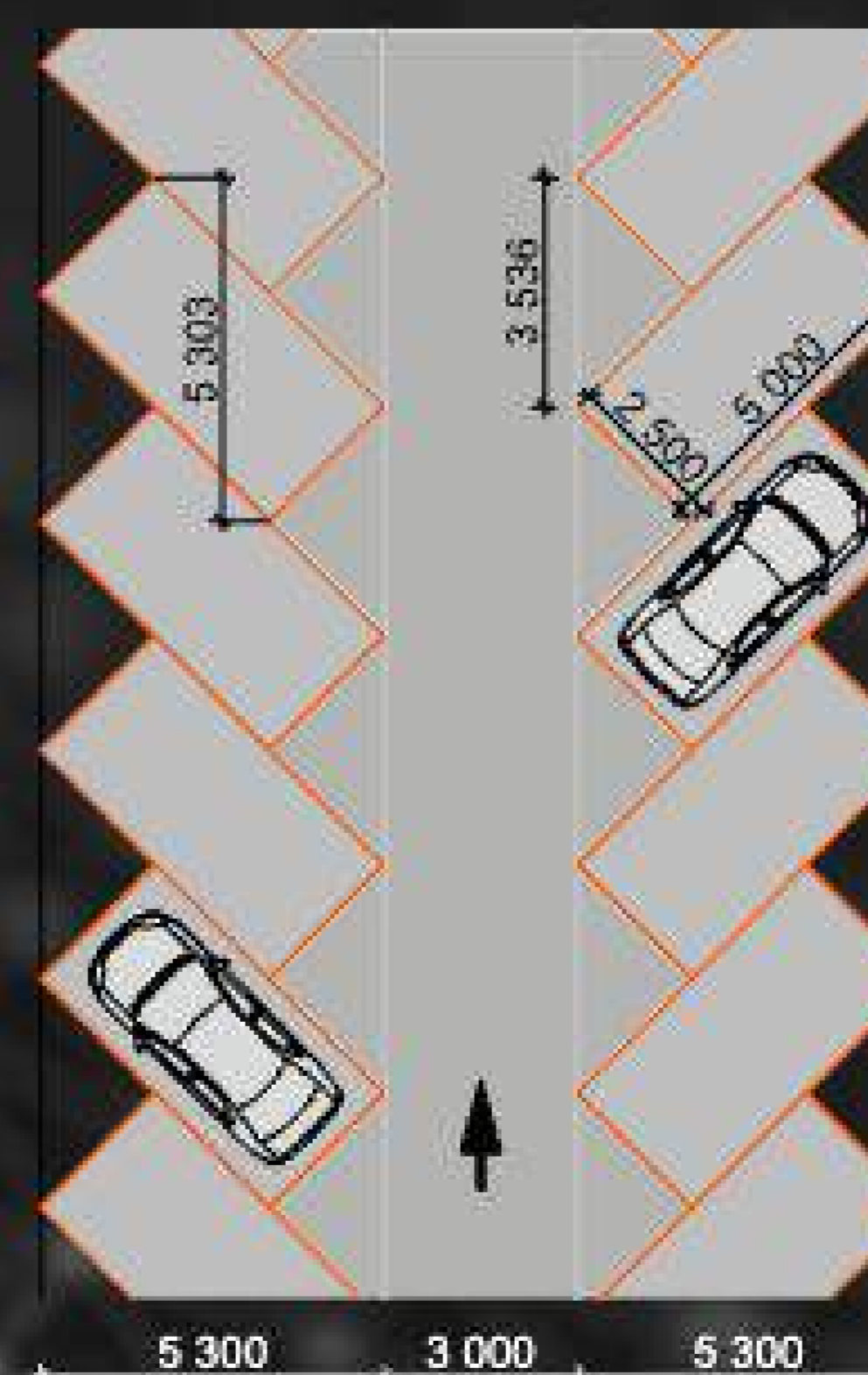
ONE SEGMENT
Y - type



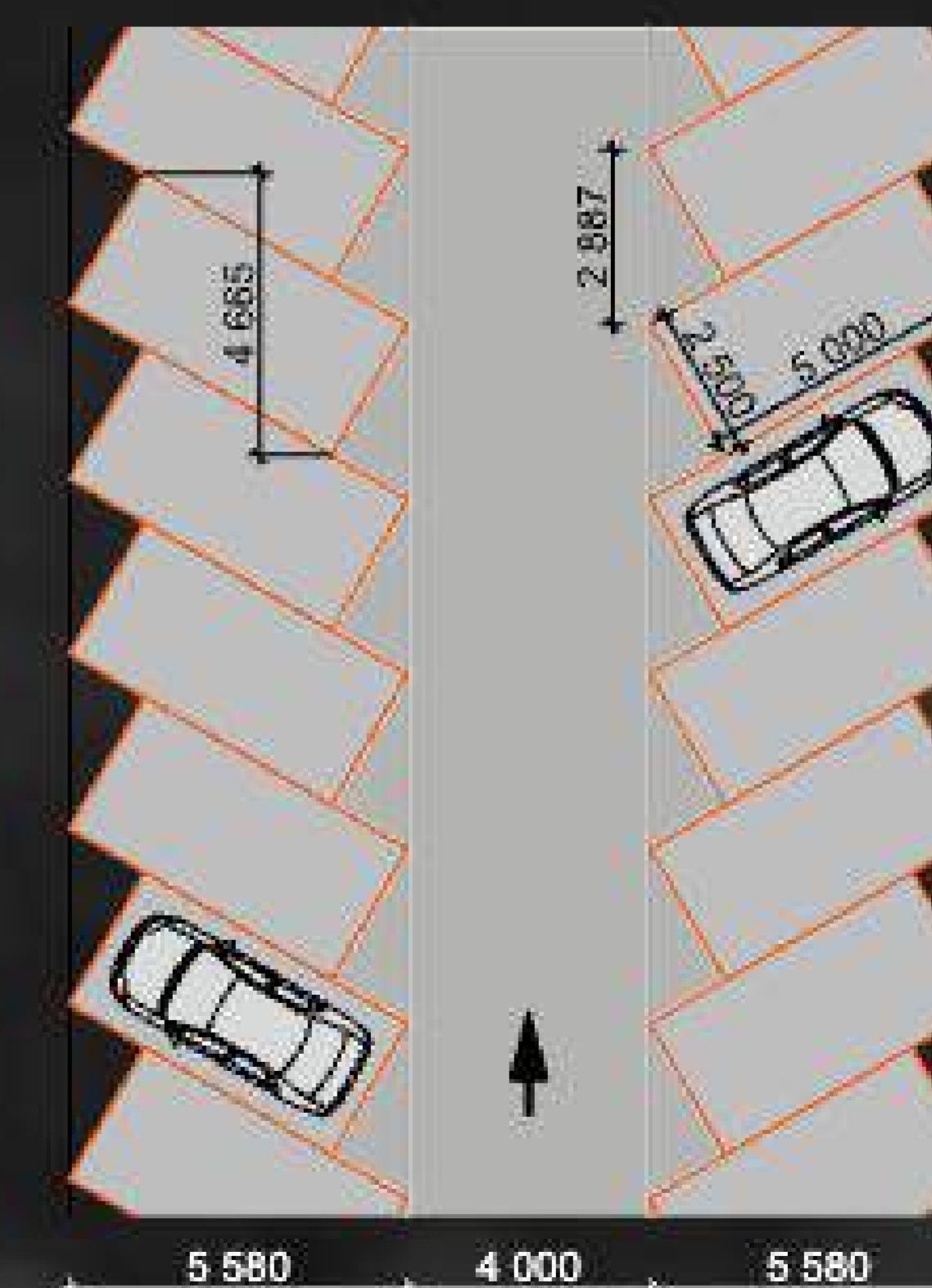
0°



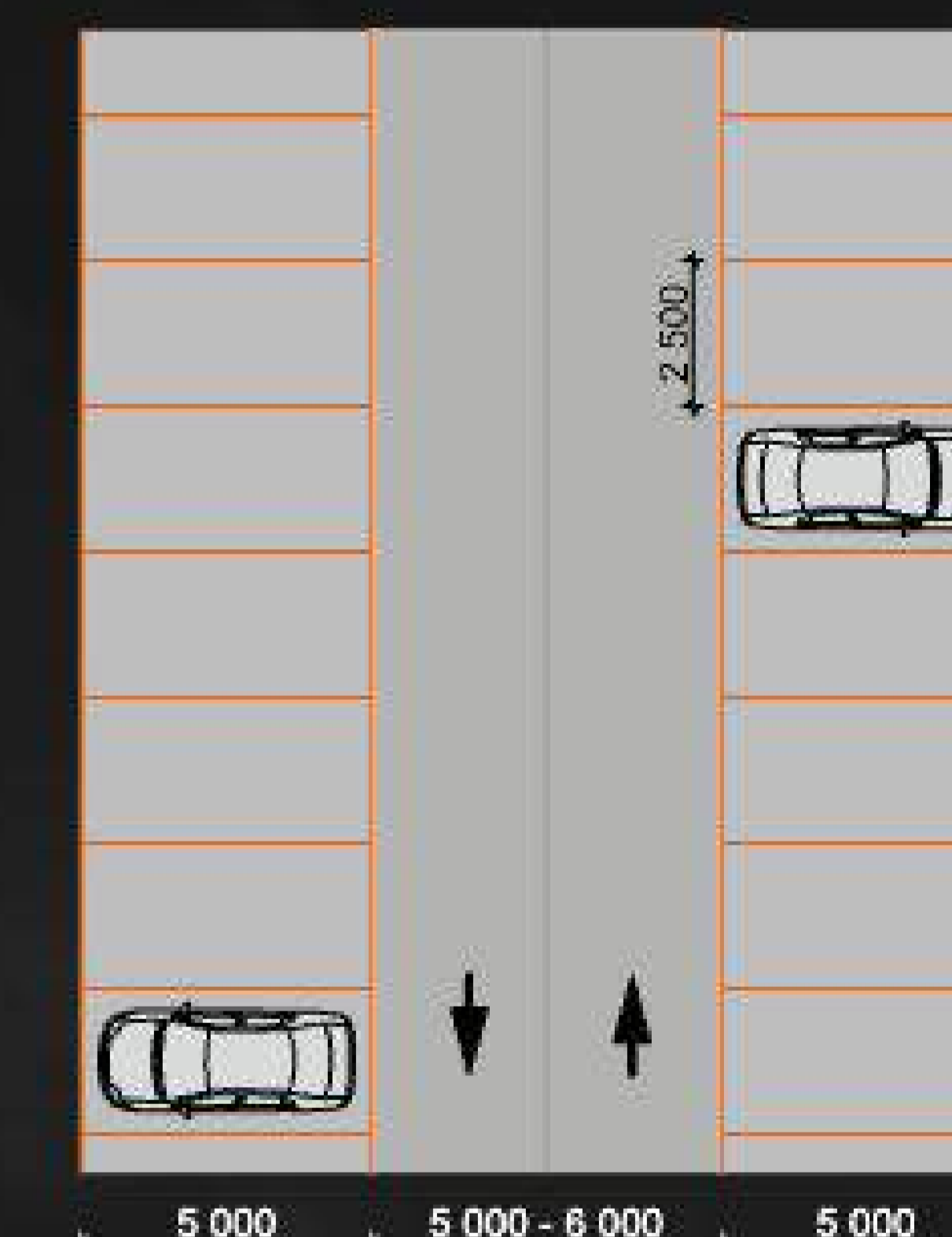
30°



45°



60°



90°

05 MODEL TAURUS

 **PILLAR**



THE TECHNICAL AND FUNCTIONAL MAXIMUM IS TAURUS

05.1 / MODEL TAURUS TYPES



Y - type



L - type



T - type

05.2

SOLAR CARPORT MODEL TAURUS TECHNICAL CHARACTERISTICS



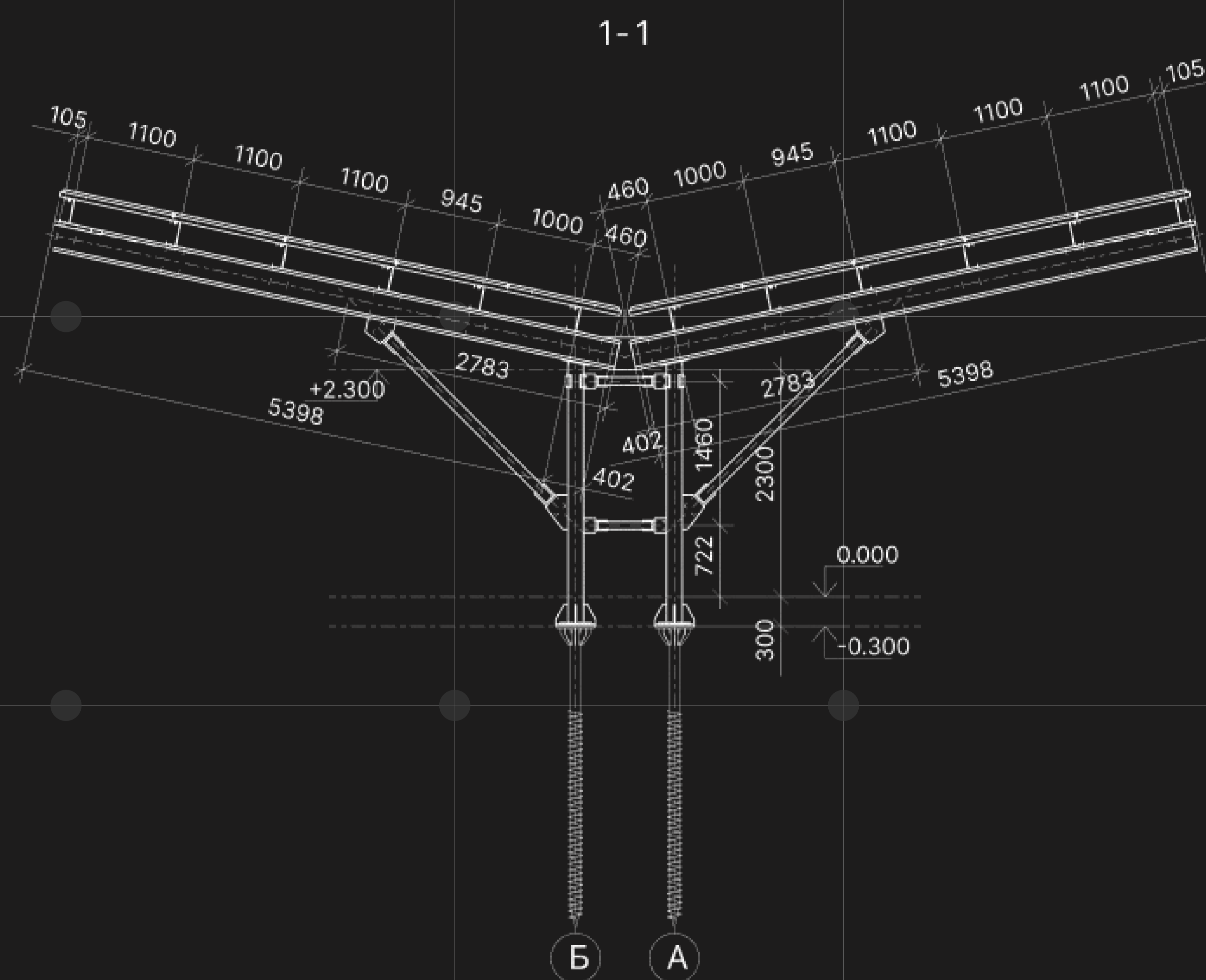
SOLAR CARPORT MODEL TAURUS TECHNICAL CHARACTERISTICS

CONFIGURATION	2-6 parking spaces per system segment
DISTANCE BETWEEN SUPPORTS	8100 mm max. In the axes between the columns
FOUNDATION TYPES	Groundscrews / concrete
TILT ANGLE	Fixed 10-12°
CLEARANCE HEIGHT	min. 2300 mm
ORIENTATION AND NUMBER OF PV MODULES	Horizontal – 4-6 rows Vertical-3 rows
PV MODULE SIZES	All available sizes
MATERIALS	Steel grades S235JR, S295JR, S350GD, S355MC
COATING	Galvanized steel (PG 275-800 gr/m ²) Hot-dip galvanized steel (HDG ISO 1461)

CORROSION RESISTANCE	Standard: Class C3. Increased corrosion resistance is available on request.
PAINTING COLOR	Optional, according to the RAL color chart
LIGHTING SET	Available as an option
PROTECTIVE BUMPERS	Available as an option
WATERPROOF	Available as an option
DRAINAGE SYSTEM	Available as an option
COATING WARRANTY	10 Years
SERVICE LIFE	25 Years
PERMISSIBLE LOADS	Snow loads – up to 3.5 kN/m (increased loads upon request). Wind load - up to 1kn/m (on request)

05.3

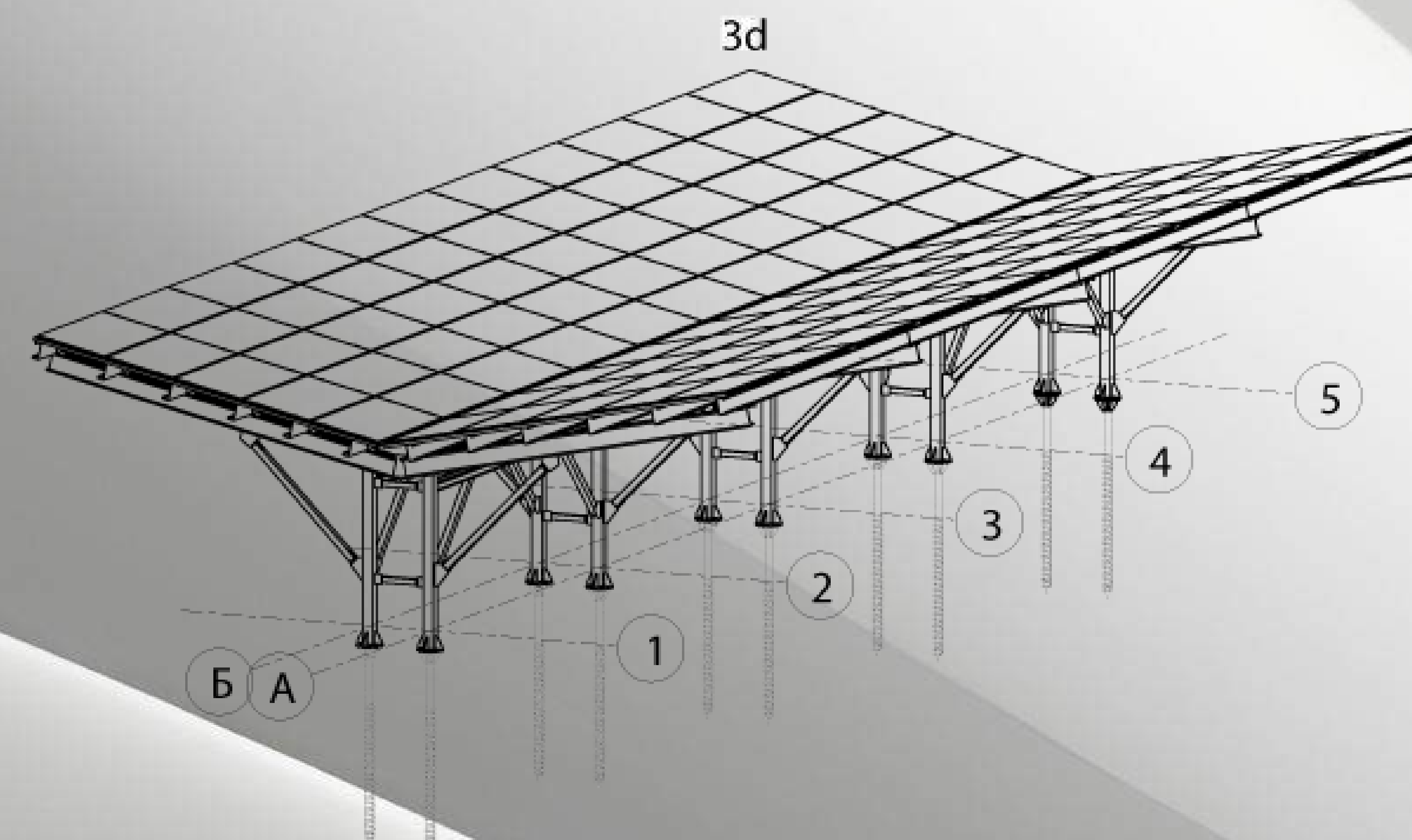
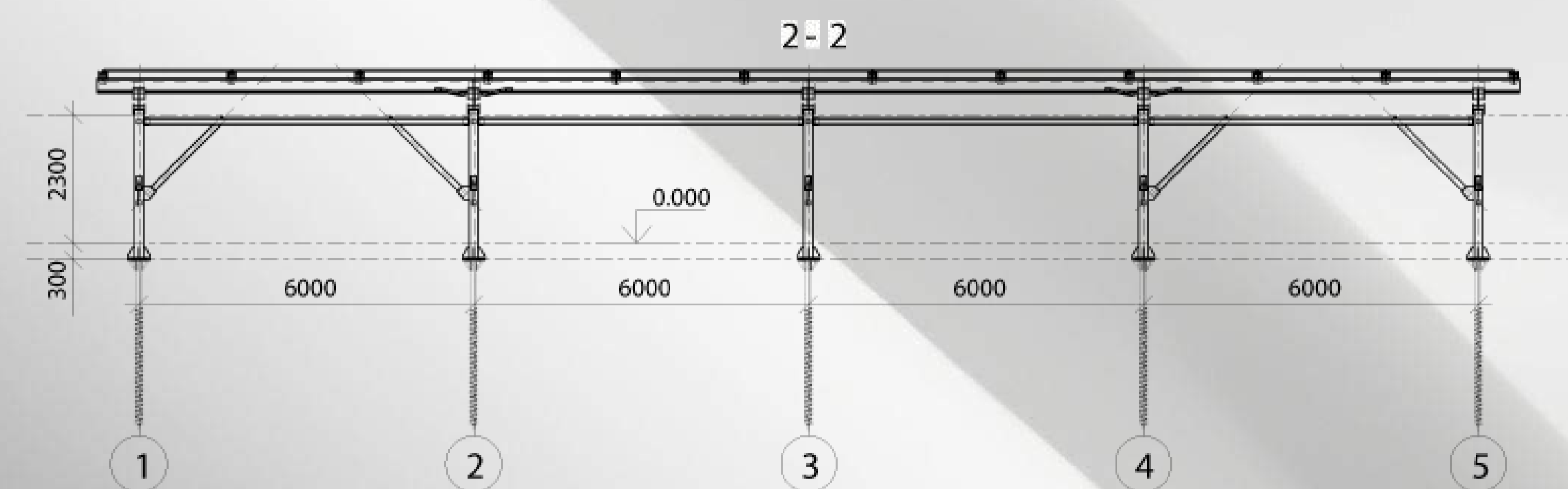
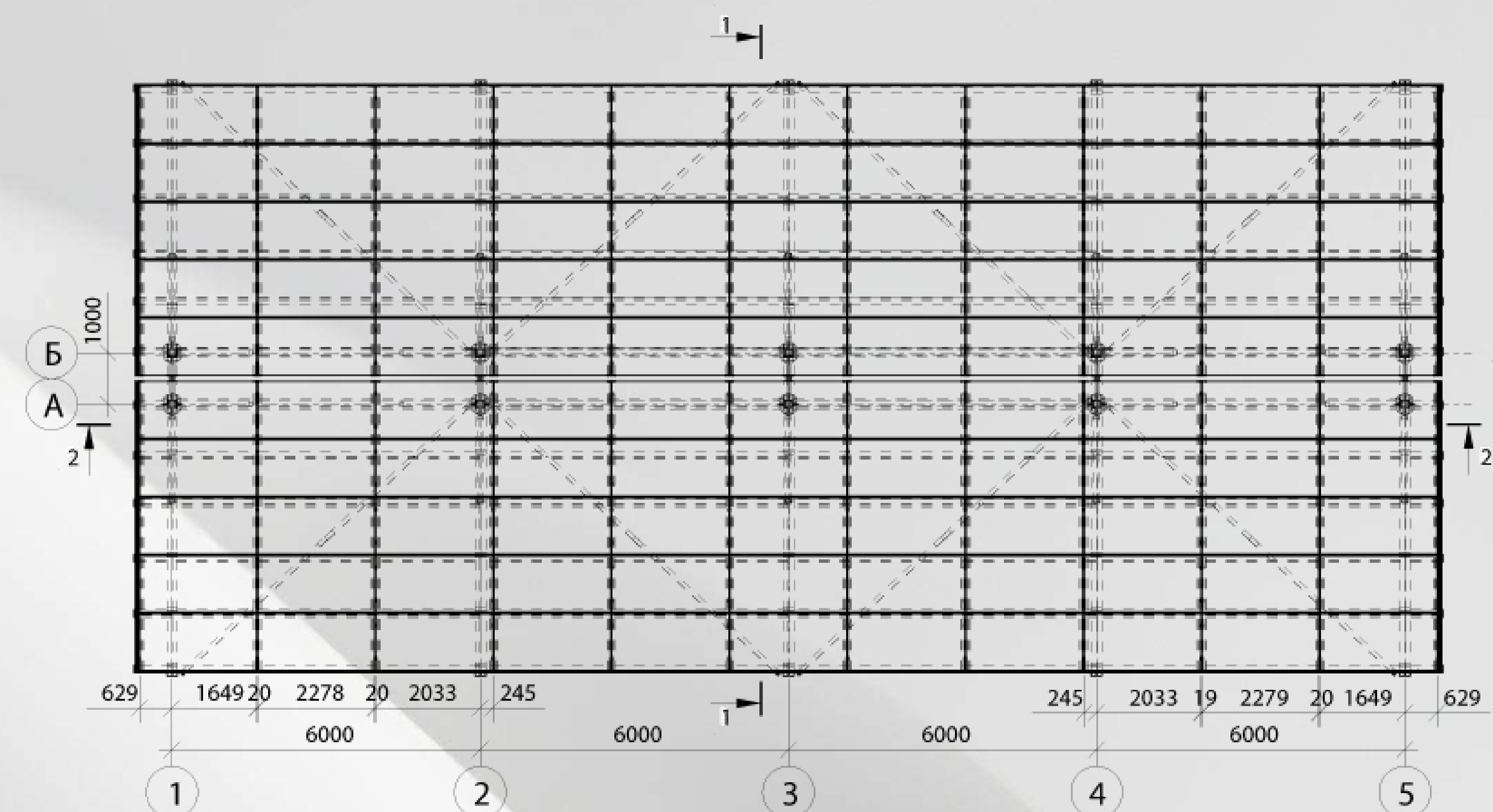
MODEL TAURUS Y - 16
POWER - 67,1 KW



Y-type

BASED ON
PV 2278x1134 mm, 610 W

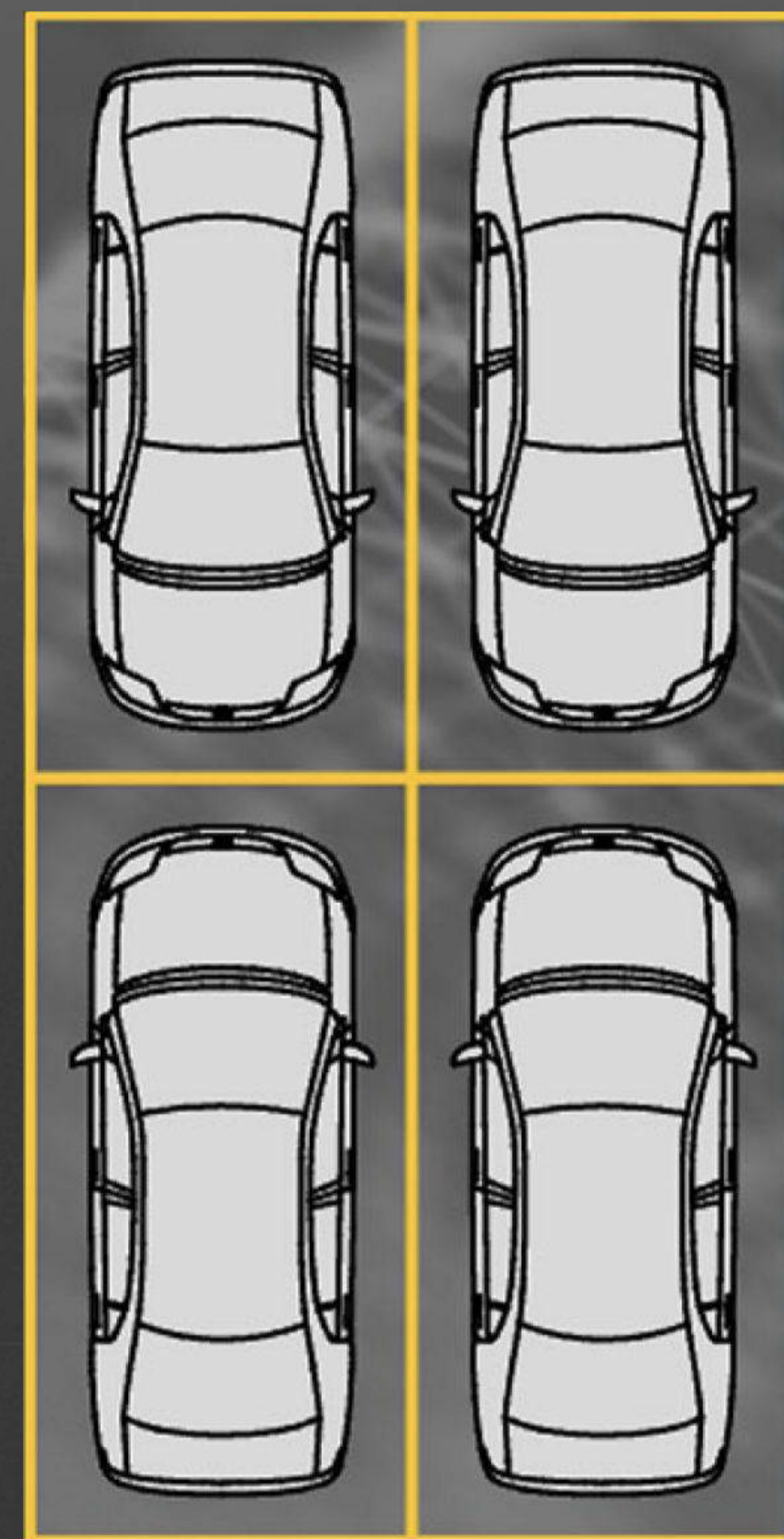
16 parking spaces:
4 segments of 4 parking spaces each



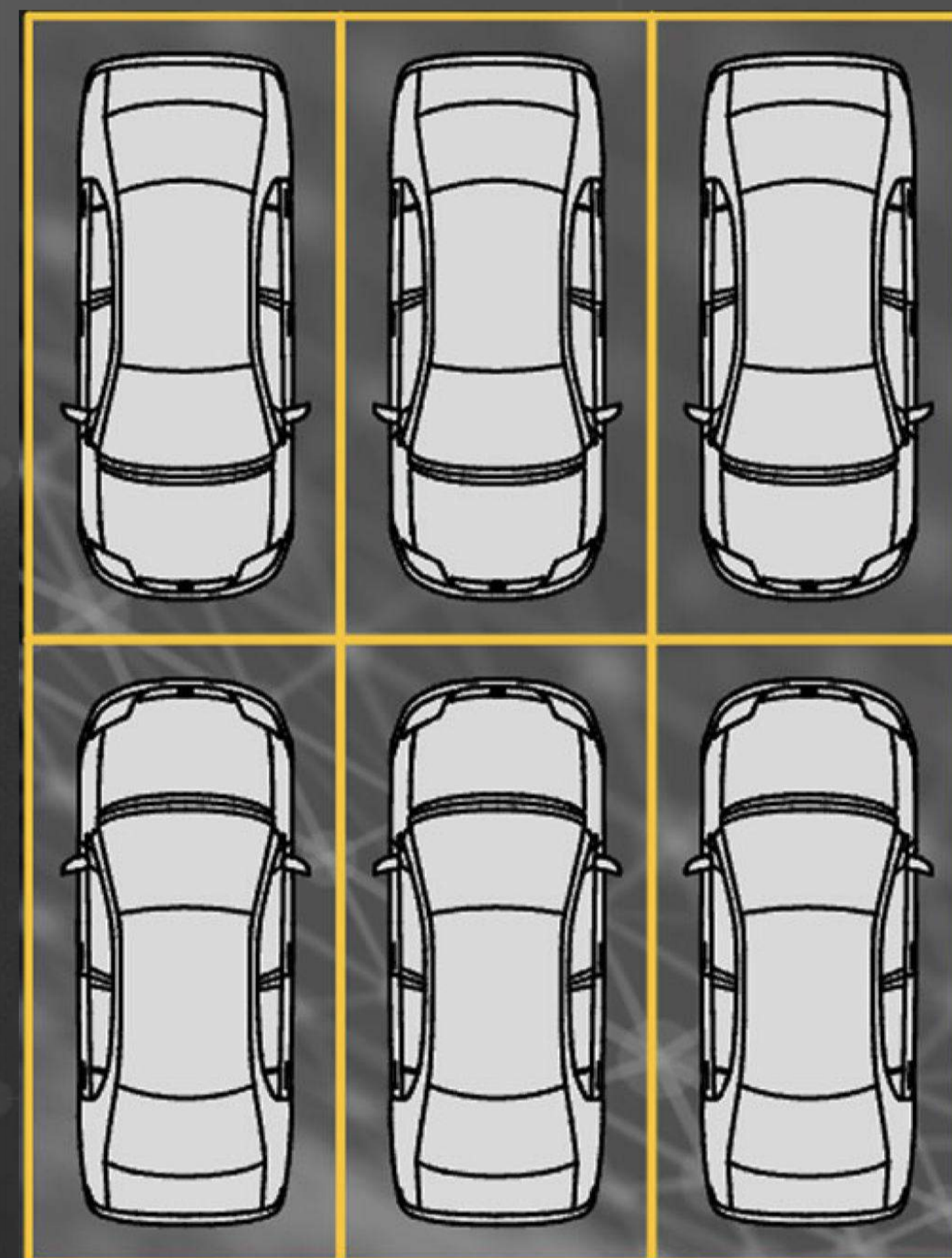
05.4

SOLAR CARPORT MODEL TAURUS PARKING ANGLE AND SPAN AREA

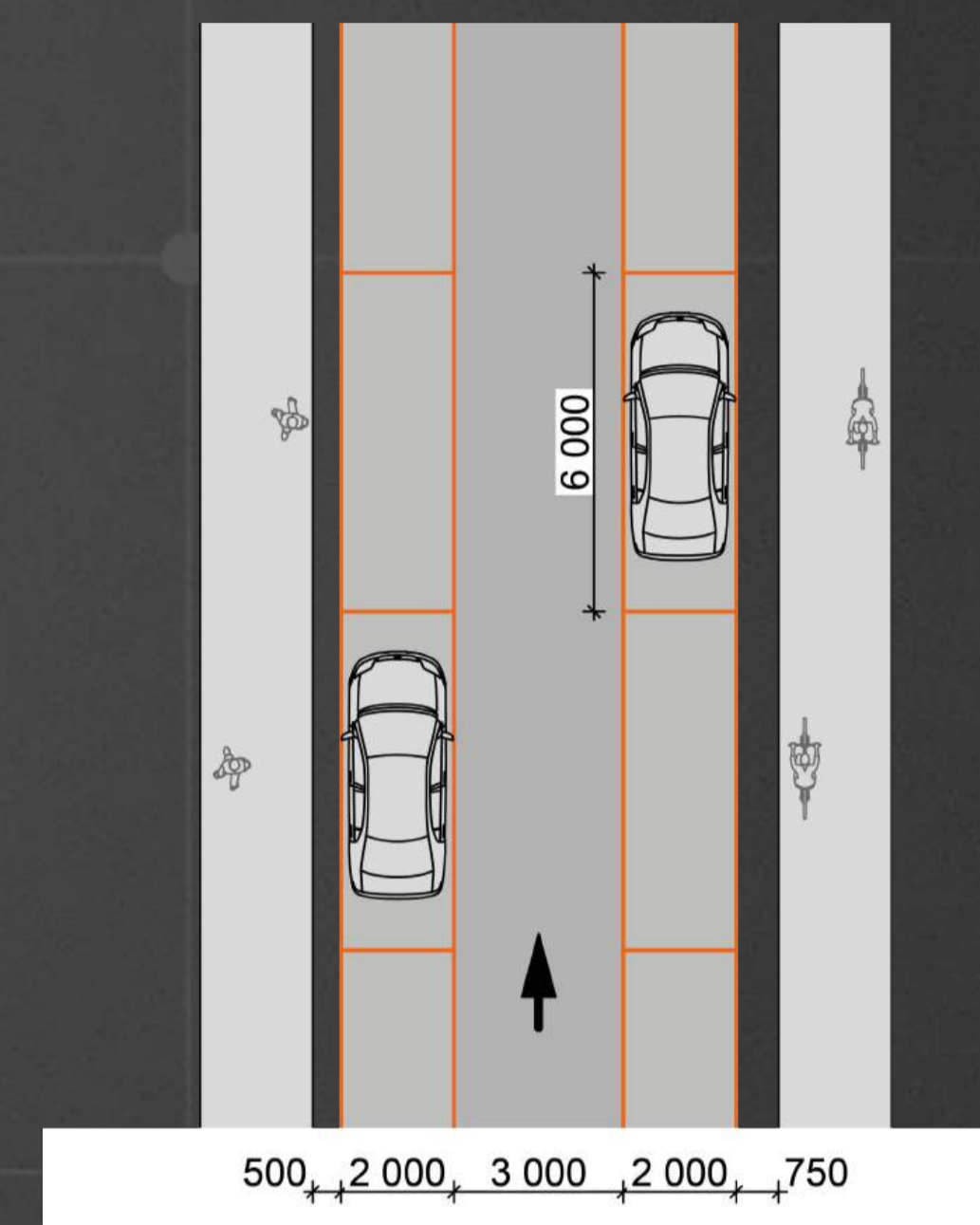
4 cars



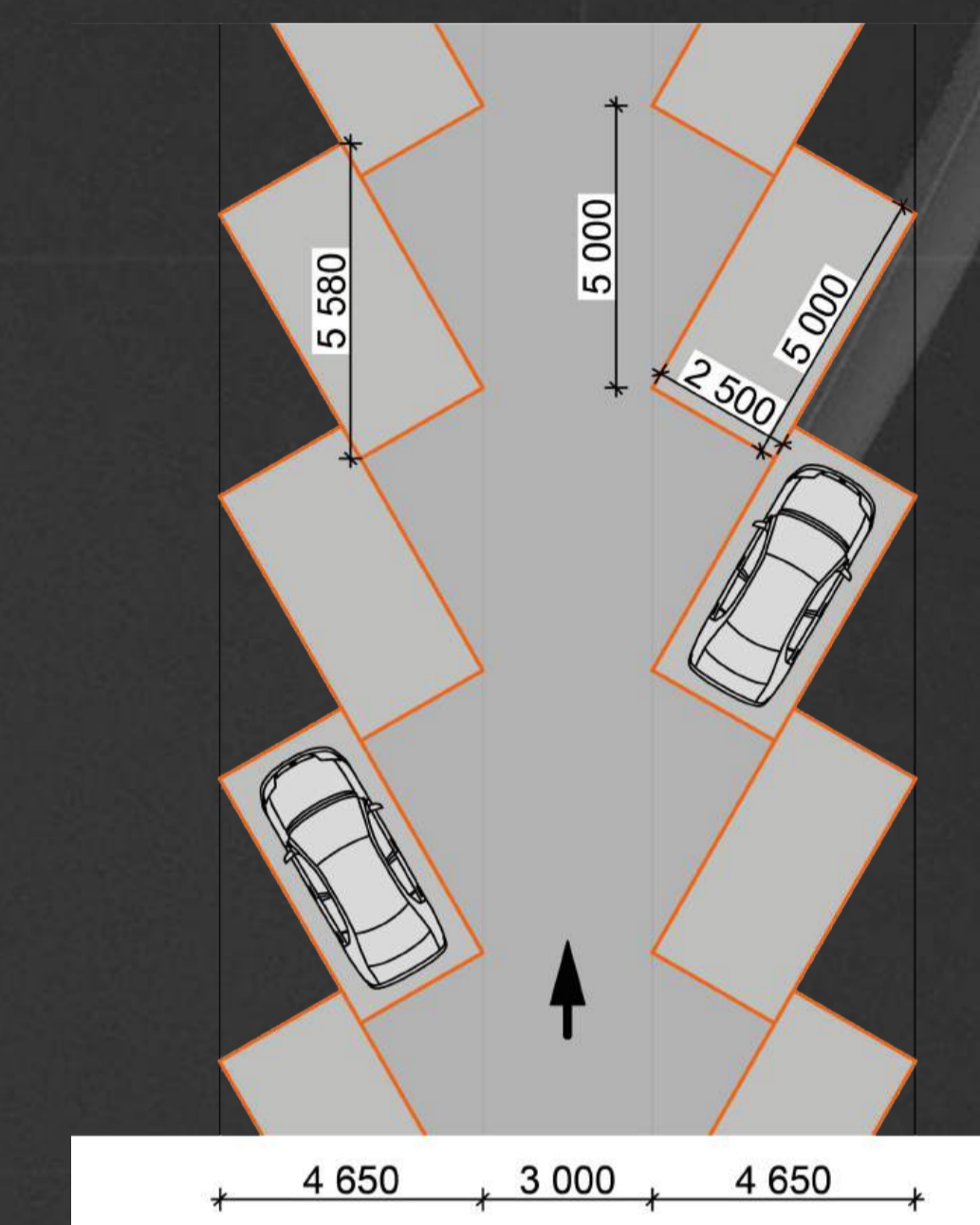
6 cars



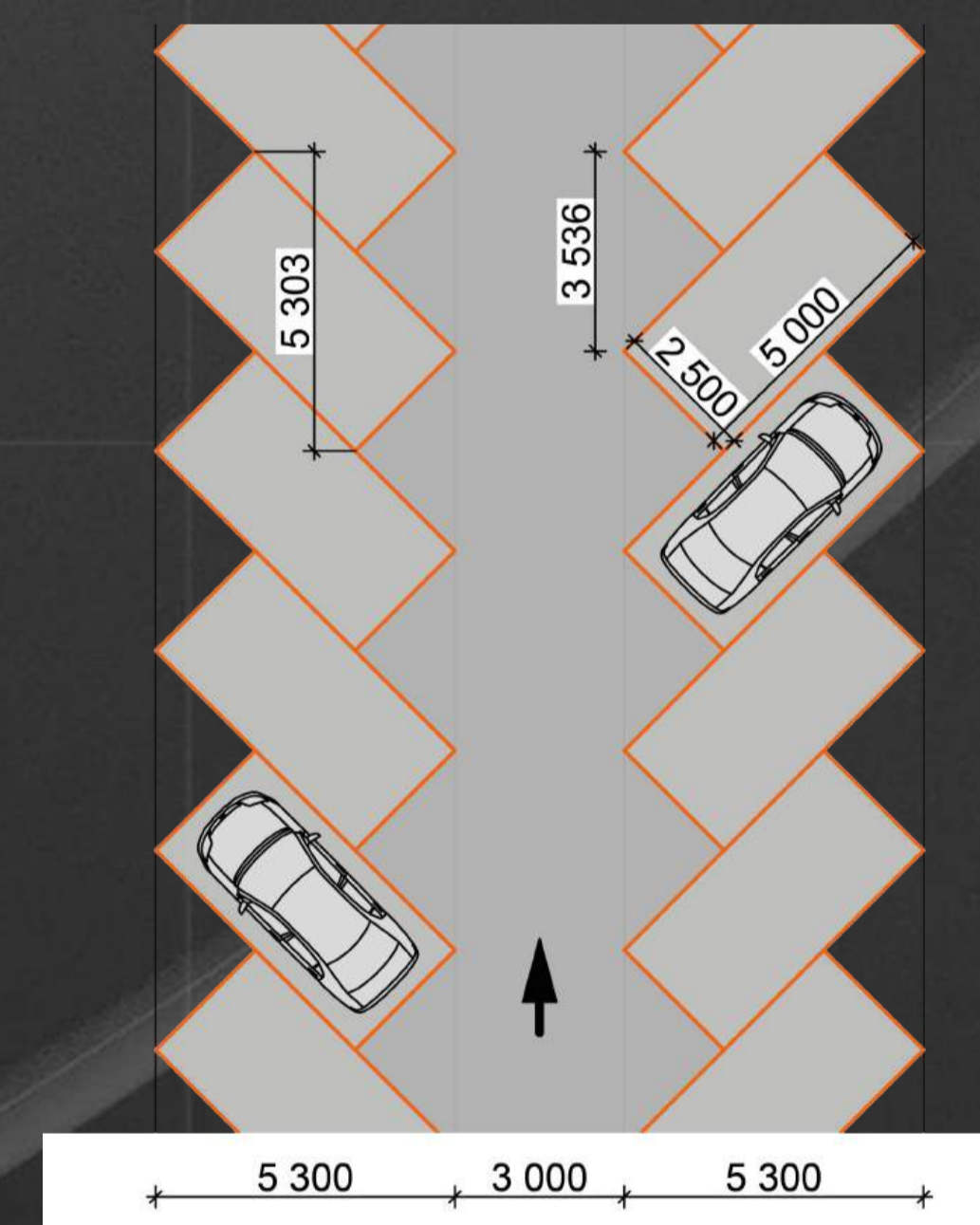
ONE SEGMENT
T - TYPE



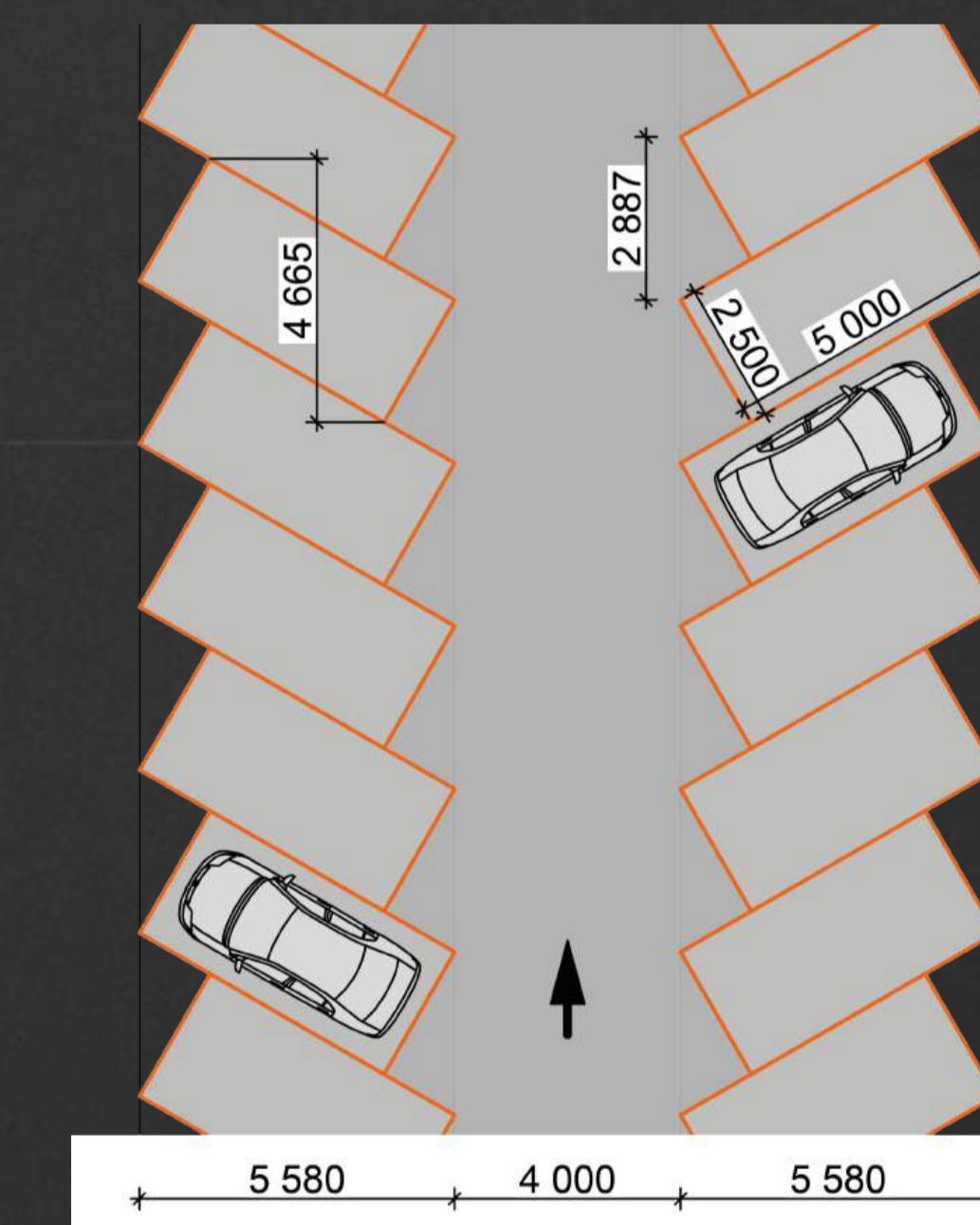
0°



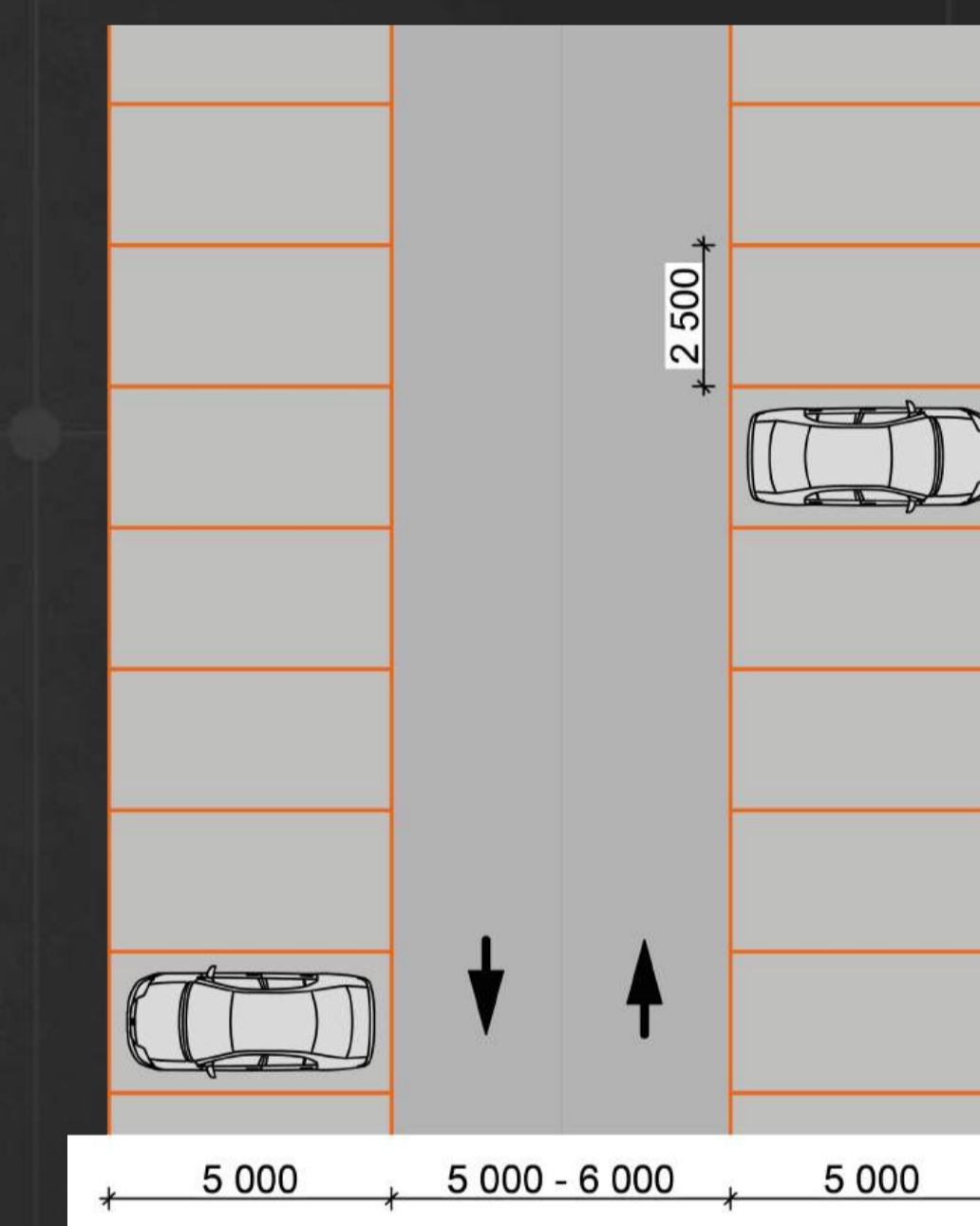
30°



45°



60°



90°

06 / MODEL W

 **PILLAR**



A SIMPLE DESIGN COMBINED WITH HIGH TECHNICAL PROPERTIES CREATES THE PERFECT COMBINATION

06.1 / MODEL W TYPES



L - type



Y - type



T - type

06.2

SOLAR CARPORT MODEL W TECHNICAL CHARACTERISTICS



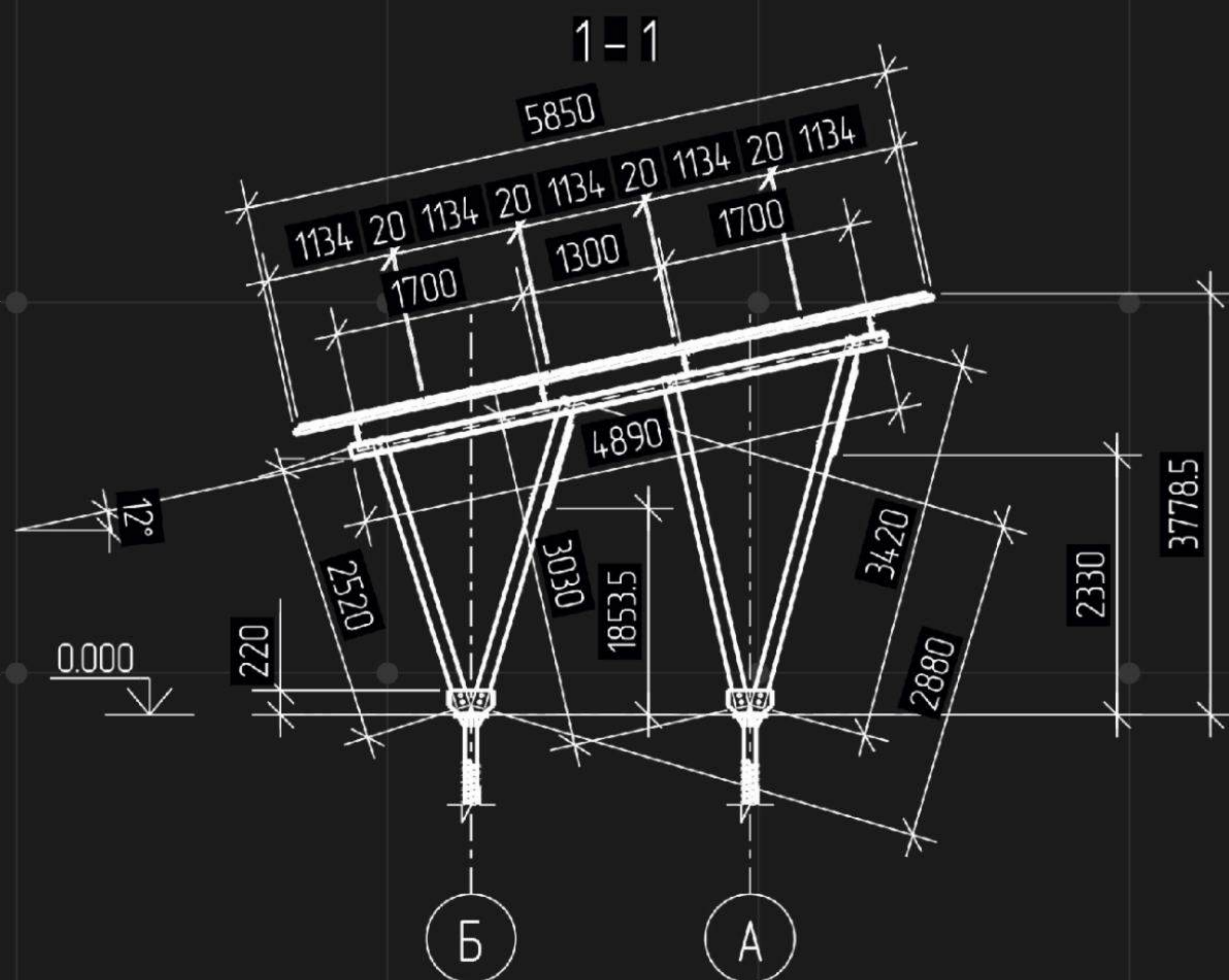
SOLAR CARPORT W TECHNICAL CHARACTERISTICS

CONFIGURATION	2-6 parking spaces per system segment
DISTANCE BETWEEN SUPPORTS	8100 mm max. In the axes between the columns
FOUNDATION TYPES	Groundscrews / concrete
TILT ANGLE	Fixed 10-12°
CLEARANCE HEIGHT	min. 2300 mm
ORIENTATION AND NUMBER OF PV MODULES	Horizontal – 4-6 rows Vertical-3 rows
PV MODULE SIZES	All available sizes
MATERIALS	Steel grades S235JR, S295JR, S350GD, S355MC
COATING	Galvanized steel (PG 275-800 gr/m ²) Hot-dip galvanized steel (HDG ISO 1461)

CORROSION RESISTANCE	Standard: Class C3. Increased corrosion resistance is available on request.
PAINTING COLOR	Optional, according to the RAL color chart
LIGHTING SET	Available as an option
PROTECTIVE BUMPERS	Available as an option
WATERPROOF	Available as an option
DRAINAGE SYSTEM	Available as an option
COATING WARRANTY	10 Years
SERVICE LIFE	25 Years
PERMISSIBLE LOADS	Snow loads – up to 3.5 kN/m (increased loads upon request). Wind load - up to 1kn/m (on request)

06.3

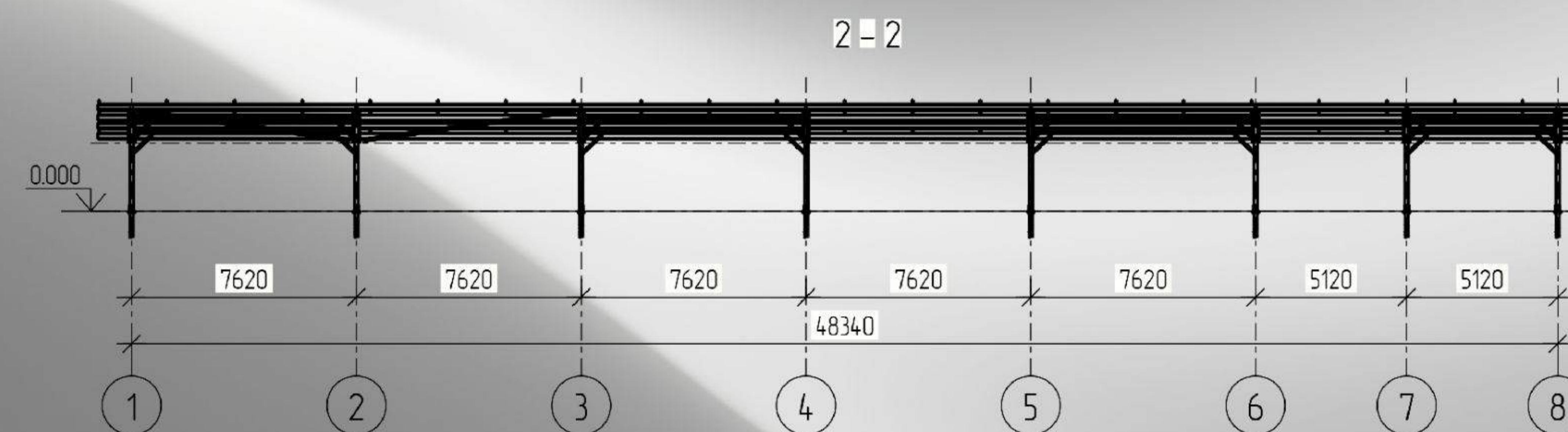
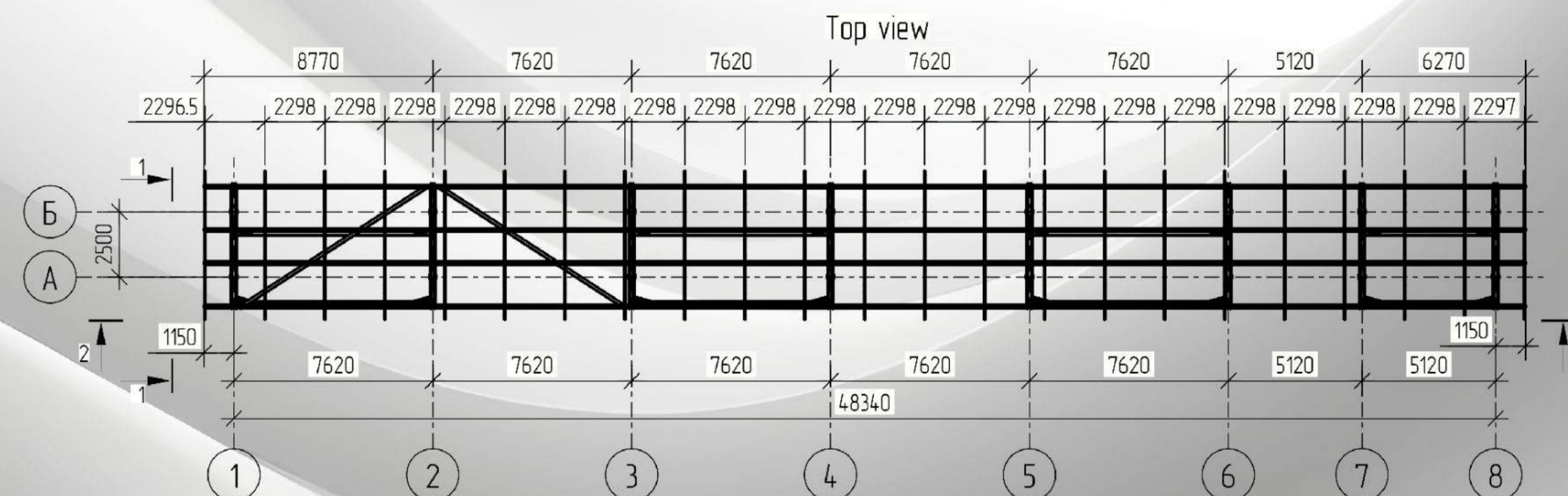
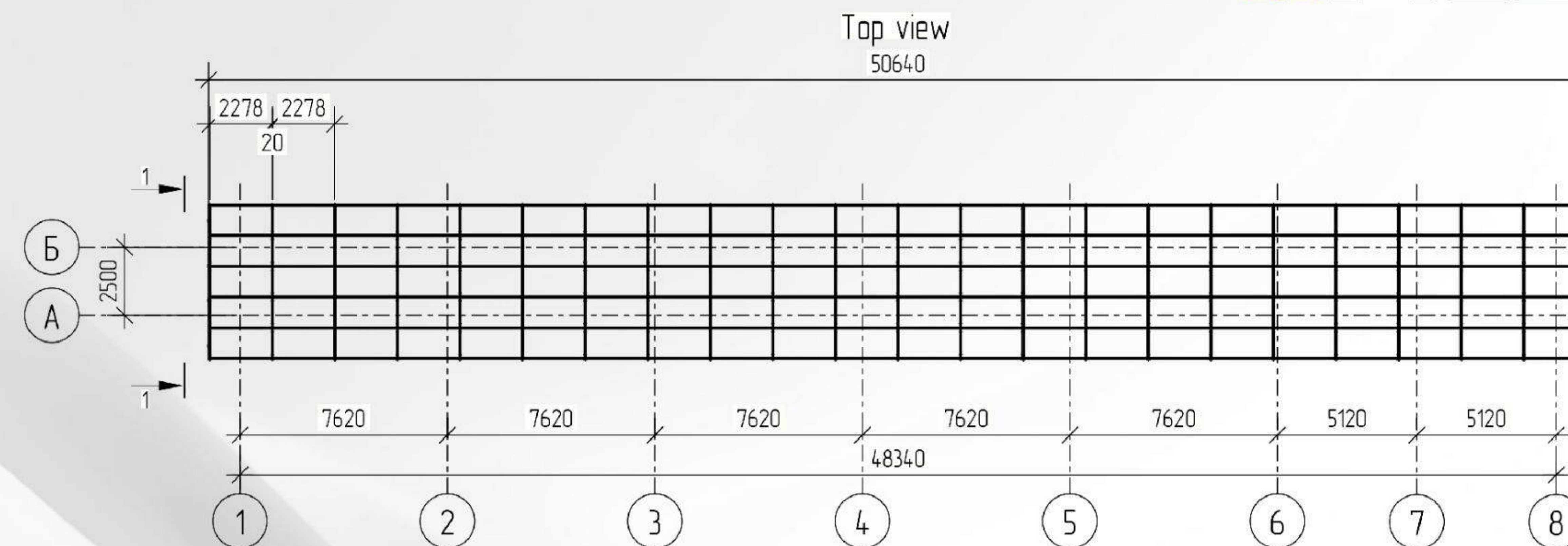
MODEL W L - 19
POWER – 67,1 KW



L-type

BASED ON
PV 2278x1134 mm, 610 W

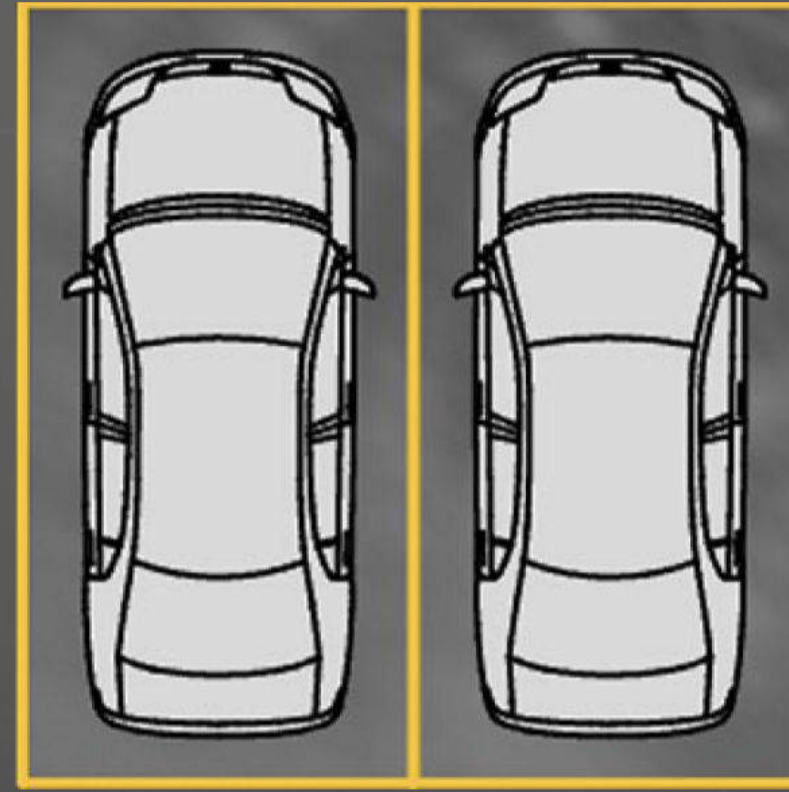
19 parking space
5 segments for 3 cars each
2 segments for 2 cars each



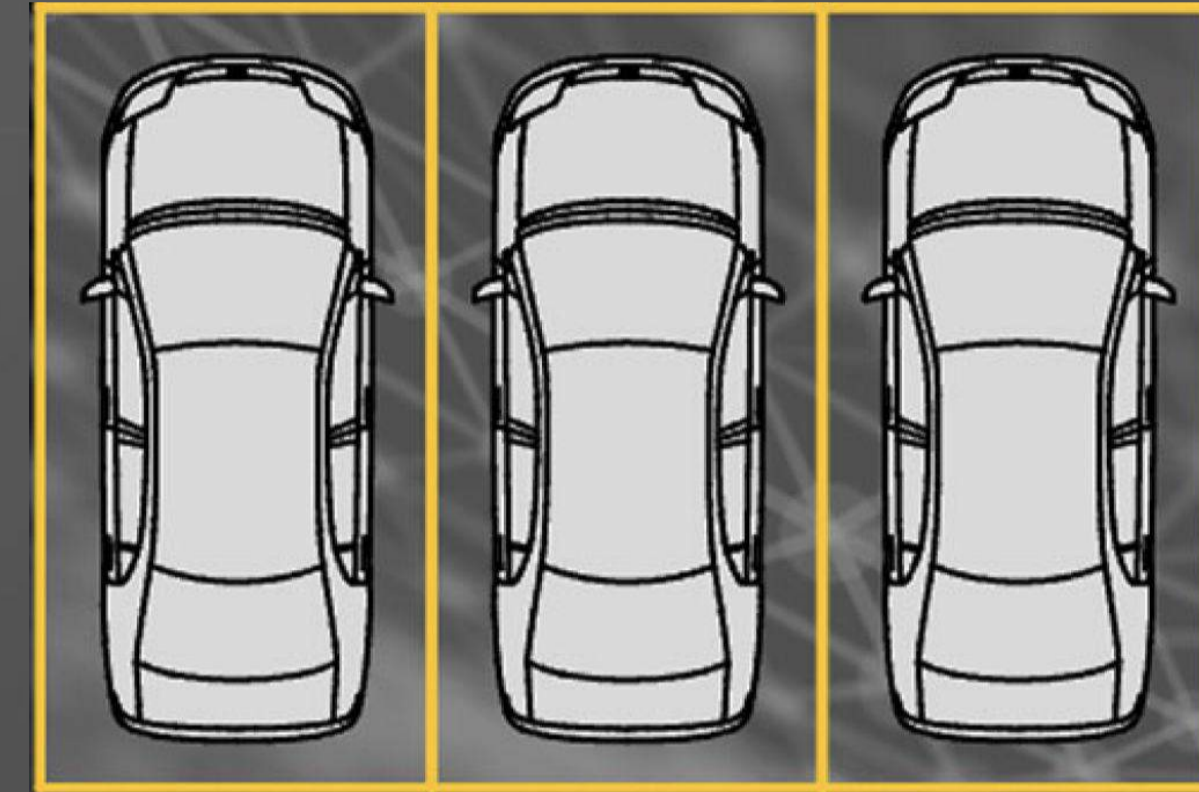
06.6

SOLAR CARPORT MODEL W PARKING ANGLE AND SPAN AREA

2 cars

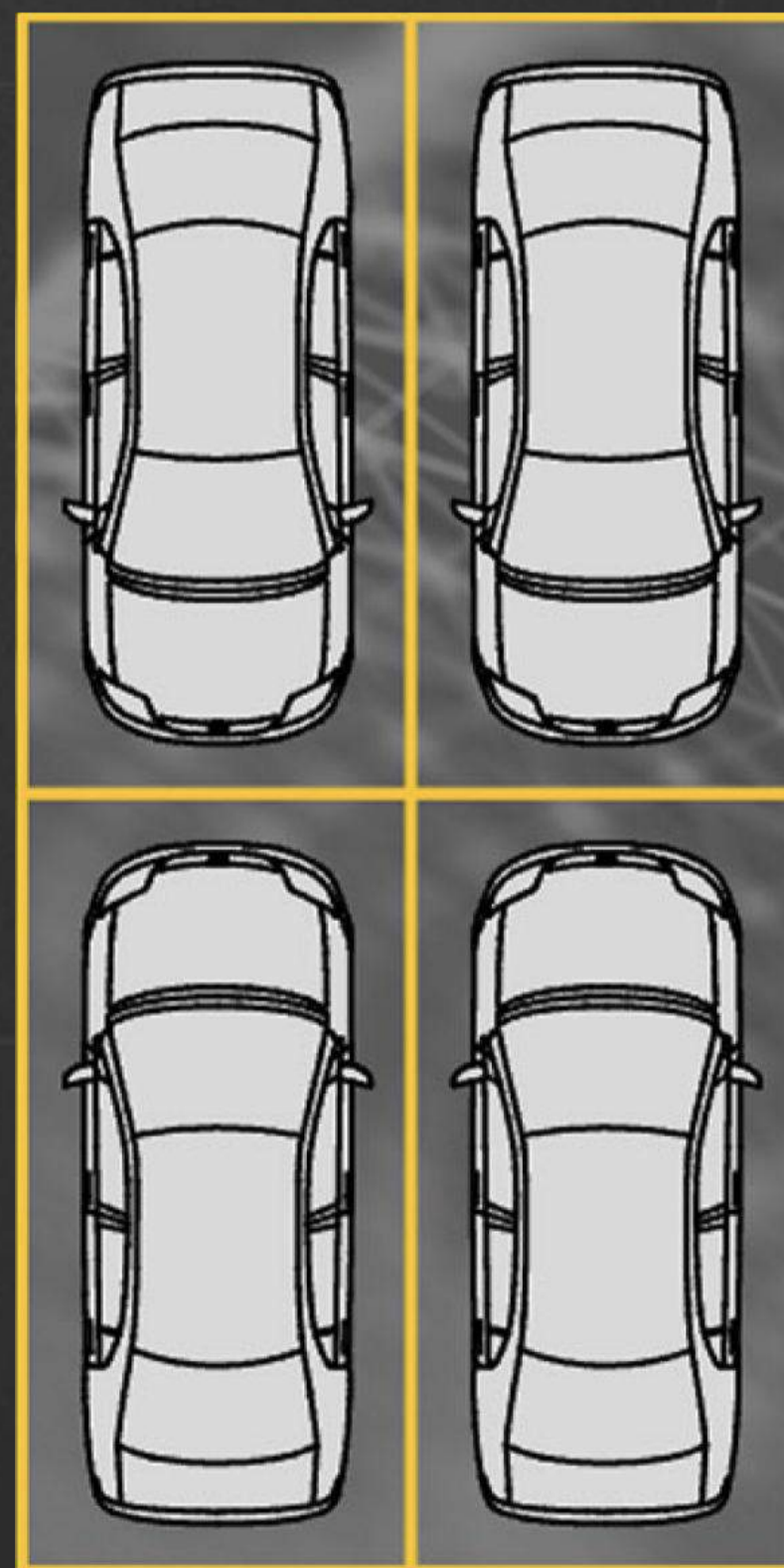


3 cars

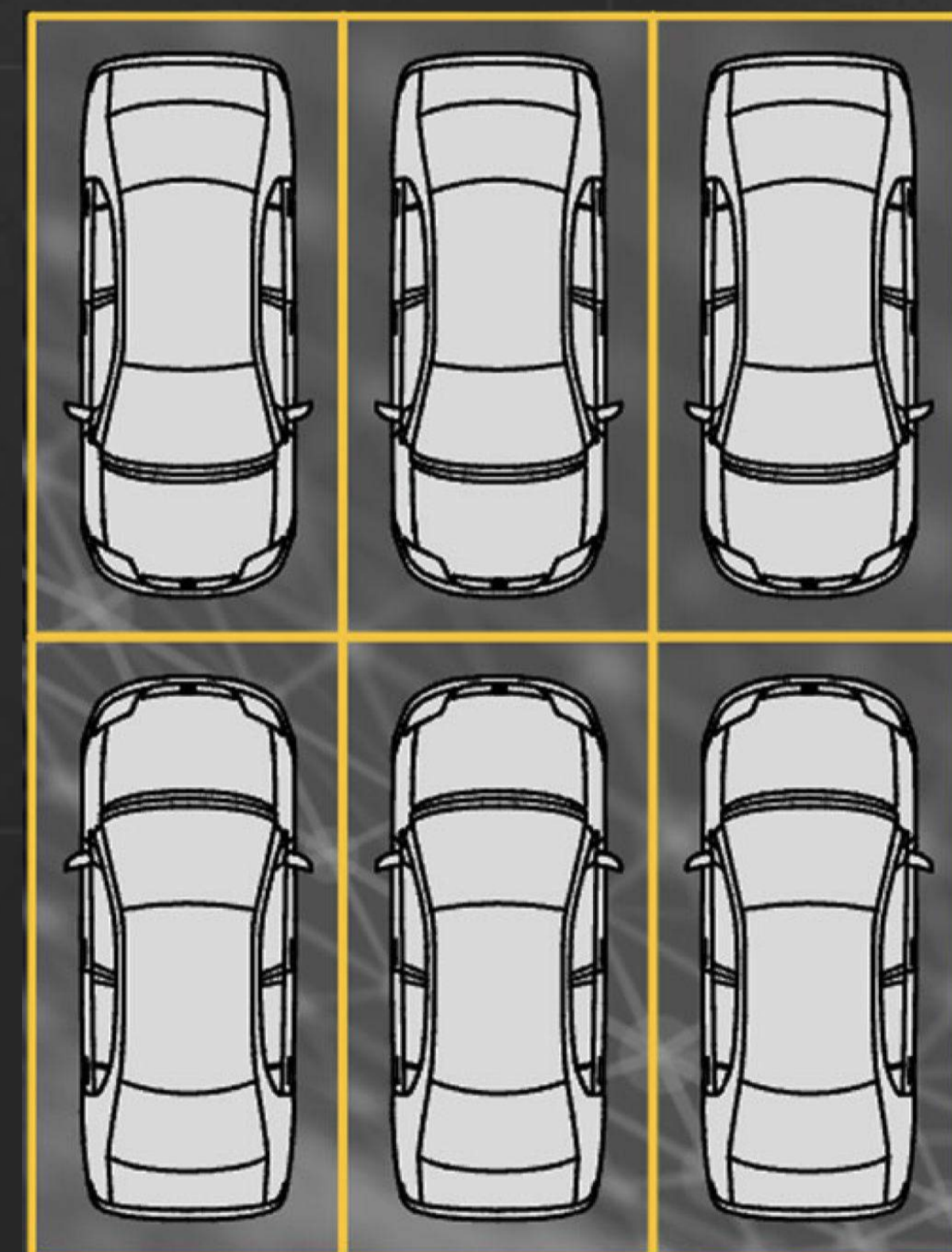


ONE SEGMENT
L - TYPE

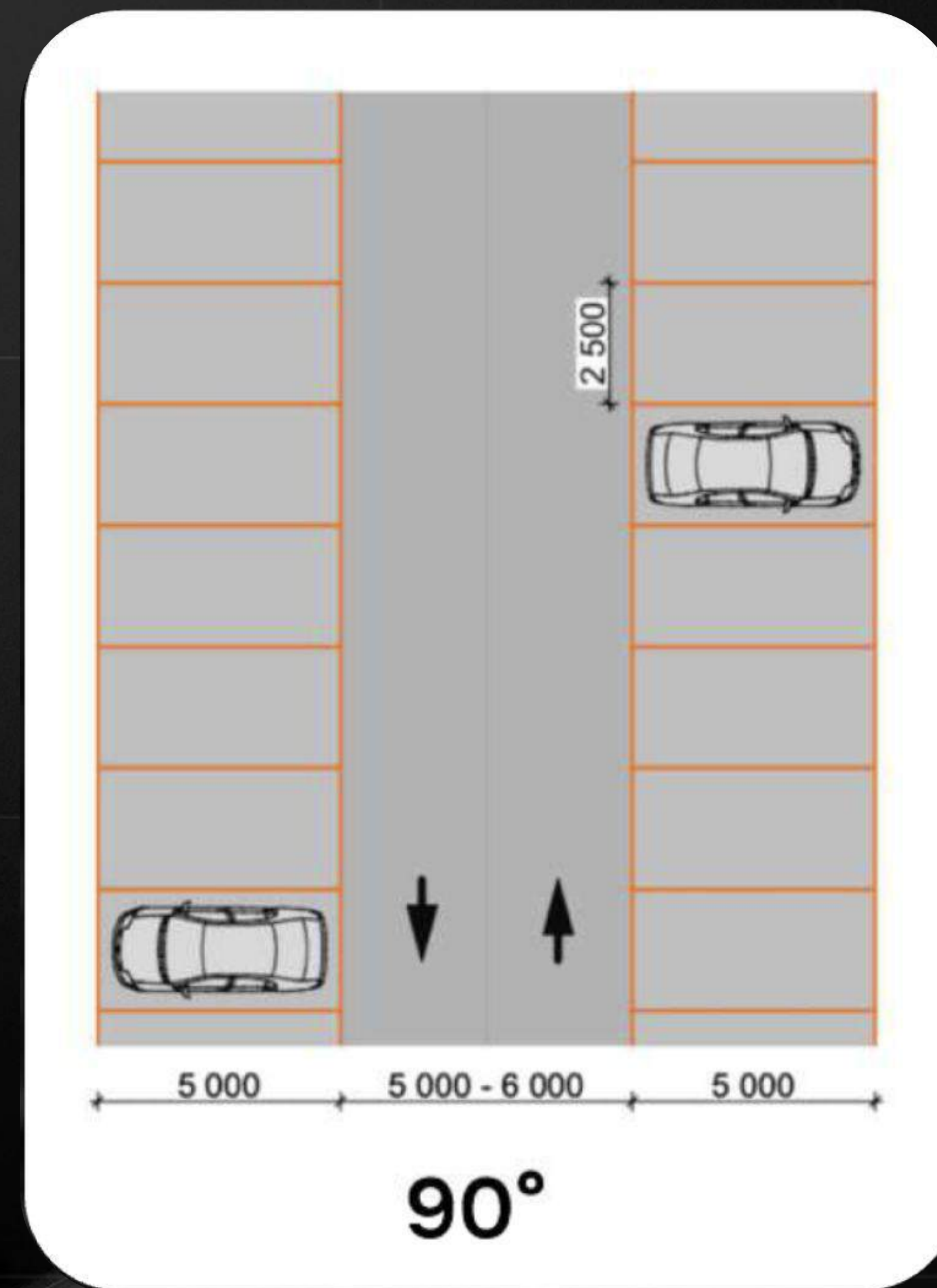
4 cars



6 cars



ONE SEGMENT
T-TYPE/Y-TYPE



07 / OPTIONAL ADDITIONS



Waterproof

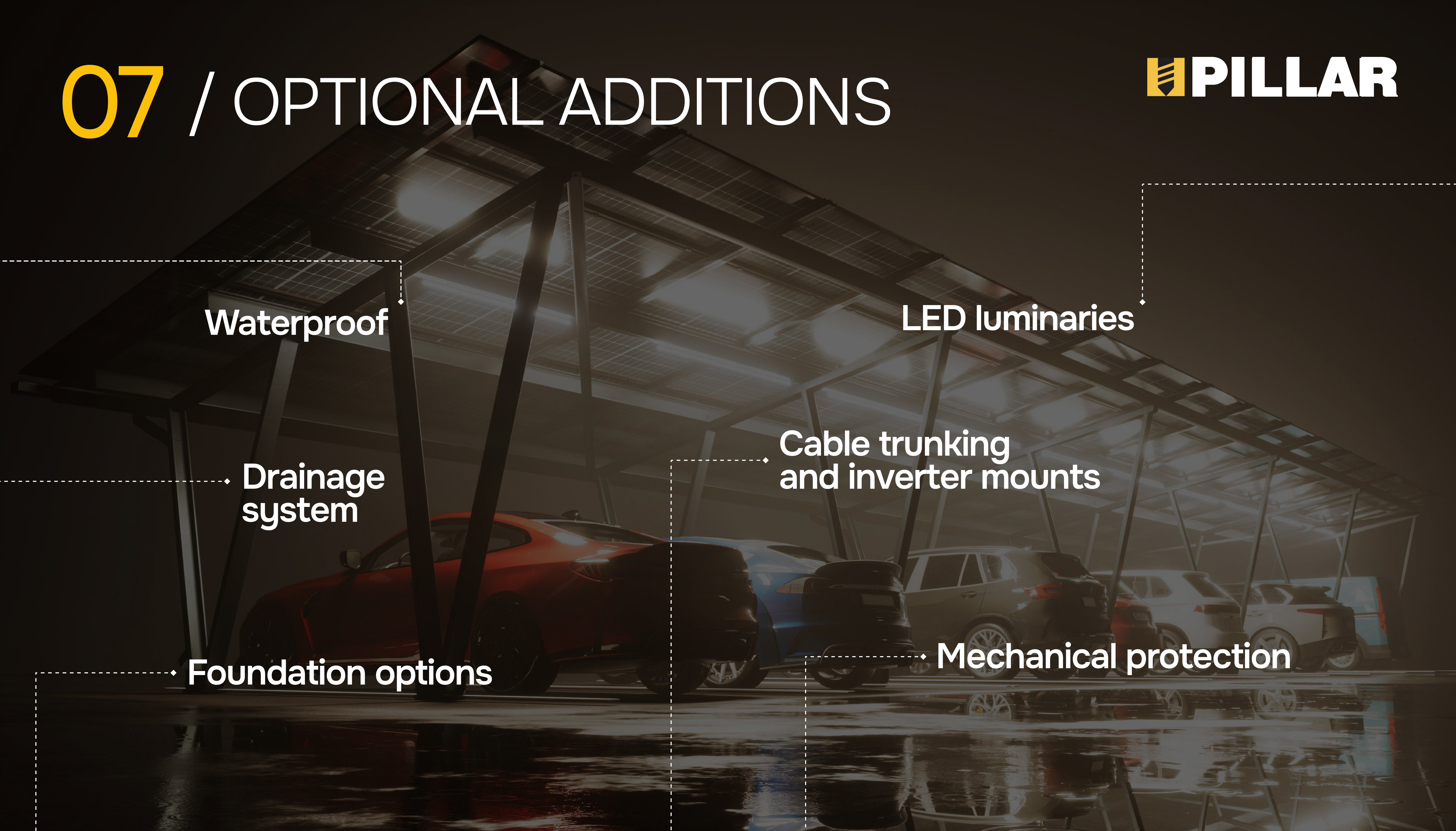
Drainage system

Foundation options

LED luminaries

Cable trunking and inverter mounts

Mechanical protection

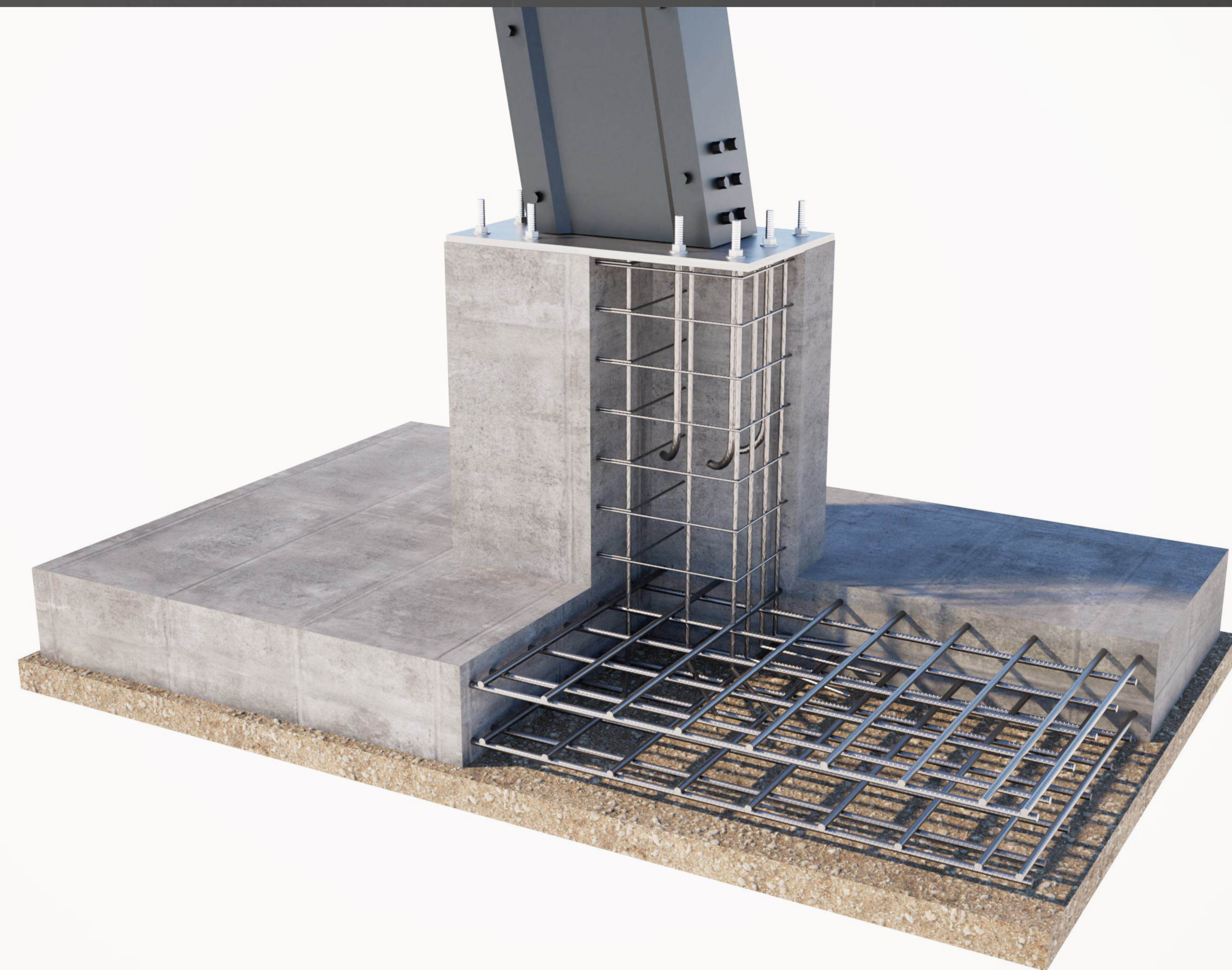


07.1

FOUNDATION OPTIONS

Model BLADE foundation options

TYPE OF FOUNDATIONS:



Reinforced concrete foundation



Ground screws combined with concrete

07.2

FOUNDATION OPTIONS

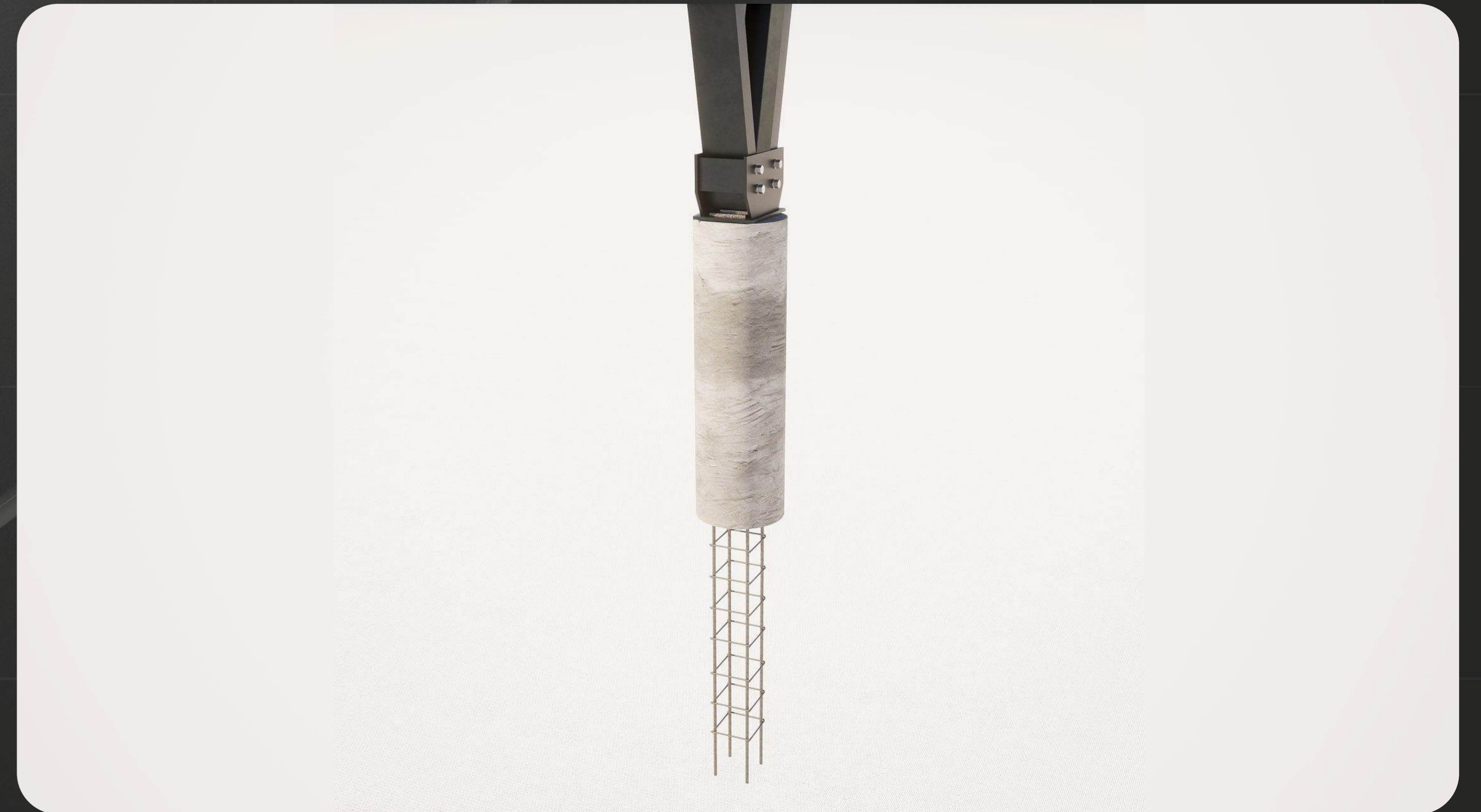


Model W & Model TAURUS Foundation Options

TYPE OF FOUNDATIONS:



Reinforced concrete foundation



Concrete or Ground screw

07.3

OPTIONAL ADDITIONS DRAINAGE SYSTEM



Drainage system

GALVANIZED OR PVC
DOWNPIPE IS USED

Waterproof



Drainage runs through the carport columns

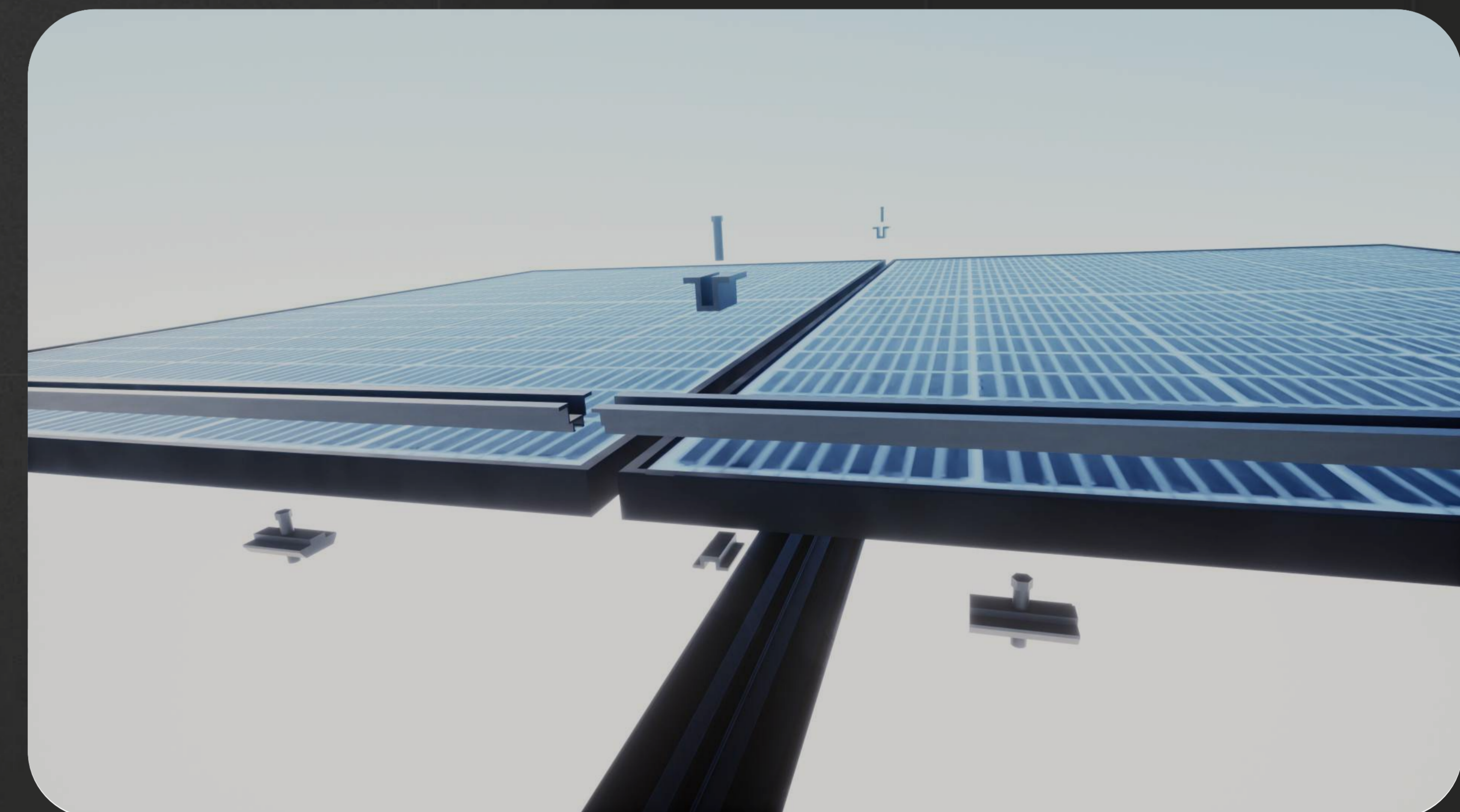
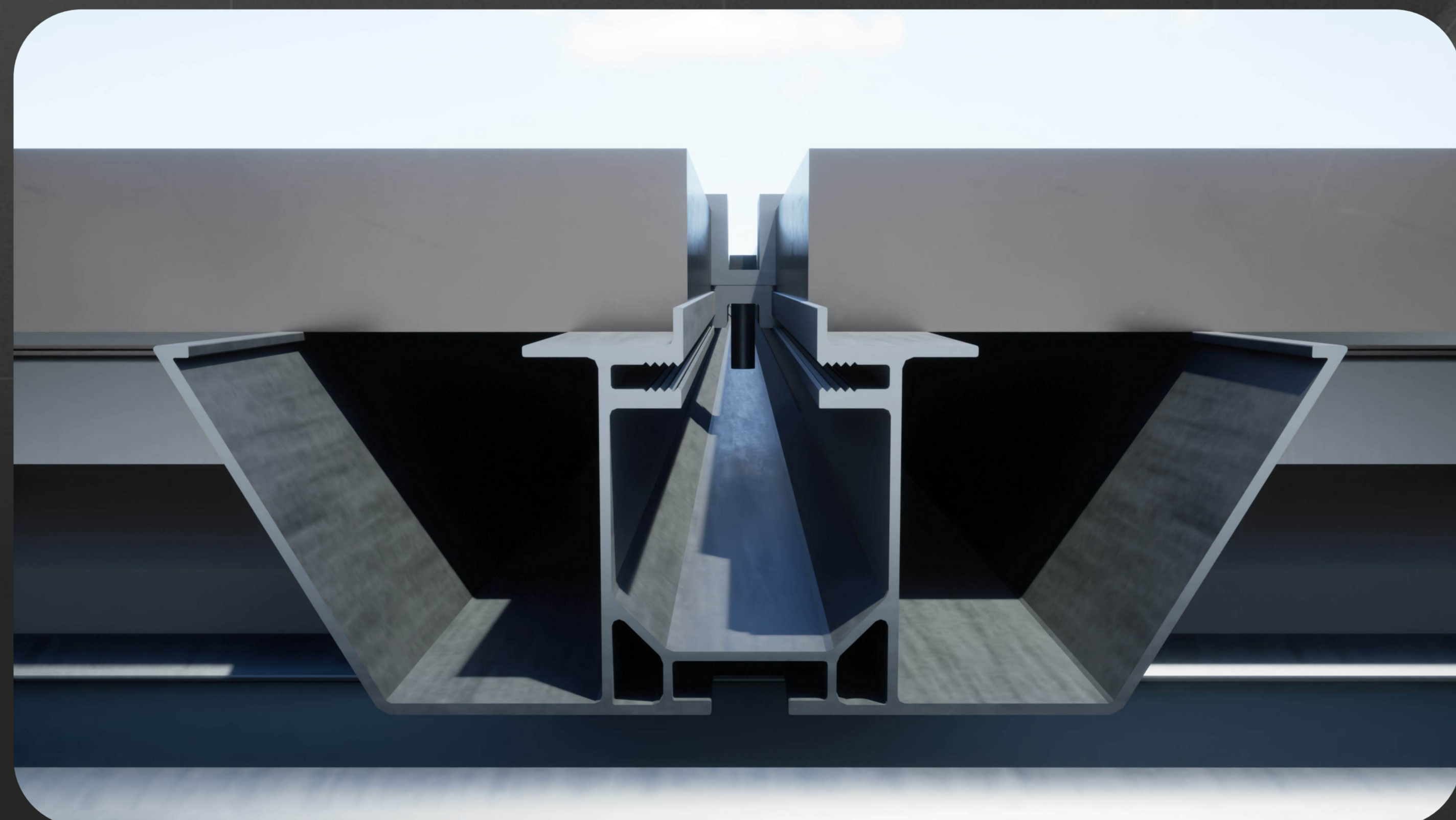
07.4

OPTIONAL ADDITIONS
WATERPROOF

PILLAR

Waterproof

A SILICONE-SEALED ANODISED ALUMINIUM PROFILE BRIDGES THE VERTICAL AND HORIZONTAL GAPS BETWEEN THE PV MODULES. THE SUPPORT SYSTEM INTEGRATES A DRAINAGE SYSTEM.



07.5

OPTIONAL ADDITIONS MECHANICAL PROTECTION

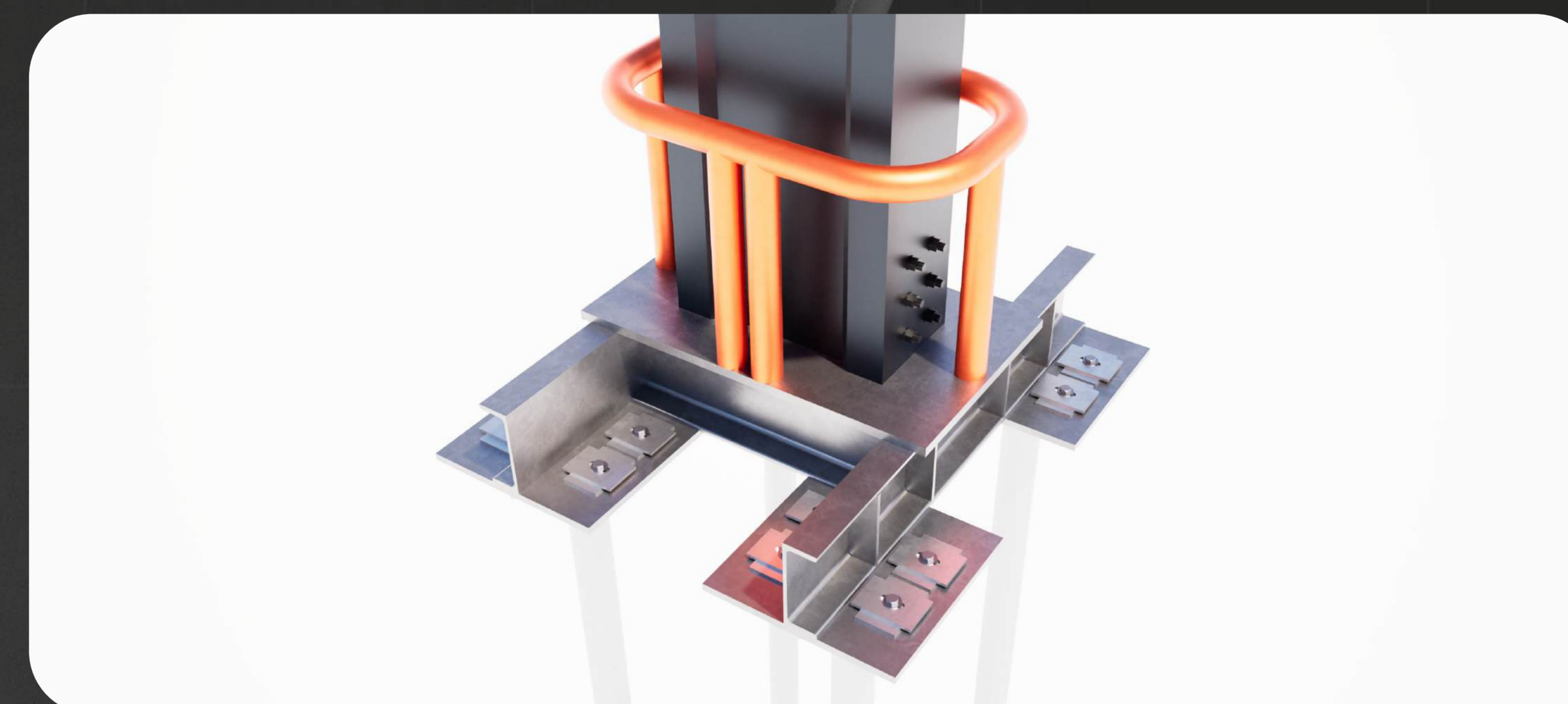


Mechanical protection



PROTECTORS AND STICKERS

STICKERS IMPROVE VISIBILITY.
CRASH BARS PROTECT COLUMNS
AND MARK PARKING AREAS



PROTECTIVE BUMPERS

MODEL BLADE IS USED
TO PROTECT CARPORT COLUMNS



PROTECTIVE BUMPERS

MODEL W IS INSTALLED
FOR PROTECTION

07.6

OPTIONAL ADDITIONS
COLUMN DECORATIVE PROTECTORS

PILLAR

Column decorative
protectors



THE DECORATIVE PROTECTOR
CONCEALS THE COLUMN
FOUNDATION AND SAFEGUARDS
AGAINST MECHANICAL DAMAGE

07.7

OPTIONAL ADDITIONS CABLE TRUNKING AND INVERTER MOUNTS



Cable trunking and inverter mounts

THE CARPORT DESIGN FACILITATES QUICK ELECTRICAL EQUIPMENT INSTALLATION



- INVERTER MOUNTS
- CABLE HOLES AND GUIDES
- CHARGING STATION INTEGRATION
- CABLES FROM THE INVERTER PASS THROUGH THE COLUMNS

07.8

OPTIONAL ADDITIONS
LIGHTING

LED luminaries

PILLAR



A reliable and energy-efficient solution for safe and comfortable parking area illumination:

- Energy efficiency and service life exceeding 50,000 hours
- IP65 protection against dust and moisture
- Stable, flicker-free light
- Power range 25–100 W, luminous flux up to 12,500 lm
- Options: emergency power supply, various beam angles, intelligent DALI control



08 / CONTACTS

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[instagram.com/pillar.global](https://www.instagram.com/pillar.global)



ISO 9001:2015

certification

EN 1090-1:2012
EN 1090-2:2018

DIN EN ISO 3834-3