EN

ISOTRA®

TECHNICAL MANUAL

ARTOSI CARPORT

Contents

Products in this assortment group are always measured from the exterior.

Due to continuous development of our products, we reserve the right to slight differences in design from the illustrations.

ISOTRA *Quality*

A mark symbolising long tradition, inestimable investment into development, the use of quality materials, state-of the-art technologies, reliable work from hundreds of employees and numerous other parameters, contrituting one entity - the final product of ISOTRA.

DECLARATION OF PERFORMANCE No. 01/2023

Product – type identification code	Artosi Carport
Type designation	2-01819-XXXX-A
Intended use	Shelter
Manufacturer	ISOTRA a. s.
Bílovecká 2411/1	ISOTRA a. s. Bílovecká 2411/1, CZ-74601 Opava, Czech Republic ID No.: 47679191
Authorised representative	Not appointed
System of assessment and verification of constancy of performance	2+
Notified body	Technický a zkušební ústav stavební Praha, s. p., (Technical and Test Institute for Construction Prague, SOE) Prosecká 811/76a, CZ-19000 Prague, Czech Republic, No. OS 1020 FPSC Certificate No. 1020-CPR-305/2011

Properties listed in the Declaration: (in accordance with Table ZA.1 EN 1090-1:2009+A1:2011)

Basic properties	Property value	Harmonised technical specification
Tolerances and geometric data	in accordance with EN 1090-2, -3 and production documentation	4.2 and 5.3 EN 1090-1:2009+A1:2011
Weldability	steel EN 10025-2 - S235JRC+N steel EN 10219-1 - S235JRH steel EN 10111 - DD11	4.3 and 5.4 EN 1090-1:2009+A1:2011
Fracture toughness Impact resistance	JR = 27J at +20 °C	4.4 and 5.5 4.8 and 5.10 EN 1090-1:2009+A1:2011
Reaction-to-fire performance	Class A1	4.6 and 5.8 EN 1090-1:2009+A1:2011
Release of cadmium	NPD	4.7 and 5.9 EN 1090-1:2009+A1:2011
Radioactivity	NPD	4.7 and 5.9 EN 1090-1:2009+A1:2011
Durability	NPD	4.9 and 5.11 EN 1090-1:2009+A1:2011
Ultimate load	Static calculation 2211-09 000 001 of 1/2023	4.5.1, 4.5.2 and 5.6.2 EN 1090-1:2009+A1:2011
Deformation in serviceability limit state		4.5.5 EN 1090-1:2009+A1:2011
Fatigue strength		4.5.1, 4.5.3 and 5.6.2 EN 1090-1:2009+A1:2011

Product properties conform to the properties introduced in the table.

This Declaration of Performance (conformity with the supplied part specification) is issued under the sole responsibility of the manufacturer.

On behalf of the manufacturer: ISOTRA a. s. Ostrava, 15.11.2023 Signature:

CE

OS 1020

ISOTRA a.s.

Head office: CZ, Opava, Bílovecká 2411/1 | Manufacturing plant: CZ, Opava, Bílovecká 2411/1

ID No.: 47679191 | 1020-CPR-070063765

23

EN 1090-1:2009+A1:2011

Artosi Carport – 2-01819-XXXX-A

DECLARATION OF PERFORMANCE No. 01/2023

Tolerances and geometric data	in accordance with EN 1090-2, -3 and production documentation
Svařitelnost	steel EN 10025-2 - S235JRC+N steelEN 10219-1 - S235JRH steelEN 10111 - DD11
Fracture toughness	JR = 27J at +20 °C
Reaction-to-fire performance	Class A1
Release of cadmium	NPD
Radioactivity	NPD
Durability	NPD

Design characteristics:

Design: drawing No. 2-01819-XXXX-0

Manufacture: according to drawing No. 2-01819-XXXX-0 – ARTOSI CARPORT,

execution class EXC 2

CARPORT

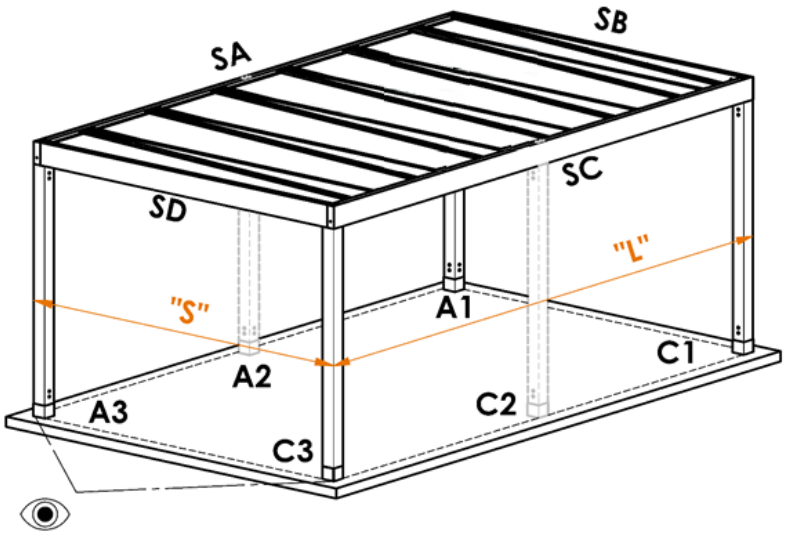
CARPORT ARTOSI

- Own development and manufacture
- Clean, elegant design
- The carport is manufactured with high precision
- Possibility to place the poles outside the carport corners
- Three types of roofs – polycarbonate sheet, trapezoidal sheets, roofless frame
- Possibility of LED lighting along the entire carport perimeter
- Possibility of installing screen roller shutters or sliding glass panels
- Weather resistance – Class 6

ISOTRA *Quality*

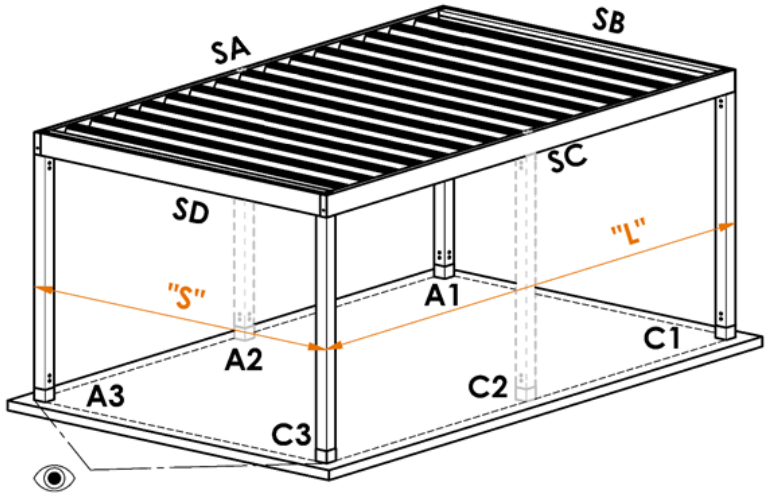
CARPORT ARTOSI
Basic specification

Frame with a polycarbonate roof



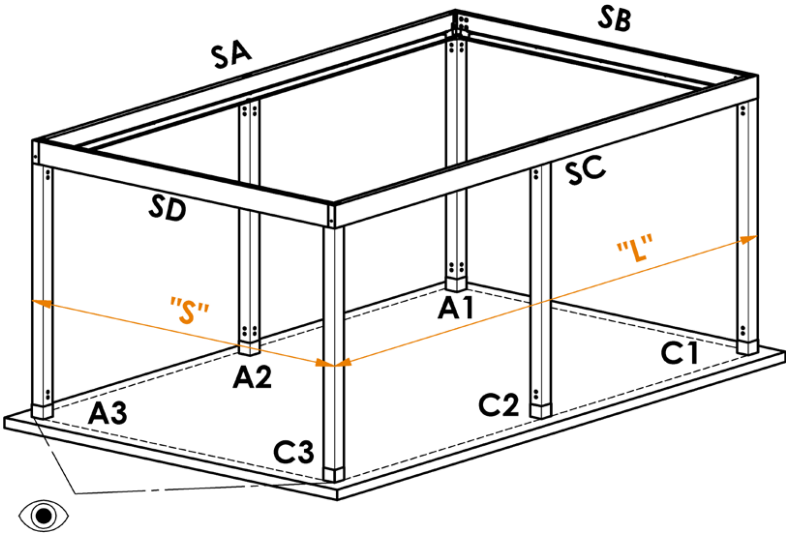
SA, SC – Perimeter frame – Length
SB, SD – Perimeter frame – Width
A1, A3, C1, C3 – Corner poles
A2, C2 – Additional poles
„S“ – Maximum Carport width
„L“ – Maximum Carport length
👁 - Viewing direction of the Carport

Frame with a trapezoidal roof



SA, SC – Perimeter frame – Length
SB, SD – Perimeter frame – Width
A1, A3, C1, C3 – Corner poles
A2, C2 – Additional poles
„S“ – Maximum Carport width
„L“ – Maximum Carport length
👁 - Viewing direction of the Carport

Roofless frame



SA, SC – Perimeter frame – Length
SB, SD – Perimeter frame – Width
A1, A3, C1, C3 – Corner poles
A2, C2 – Additional poles
„S“ – Maximum Carport width
„L“ – Maximum Carport length
👁 - Viewing direction of the Carport

Colour variants

Carport frame

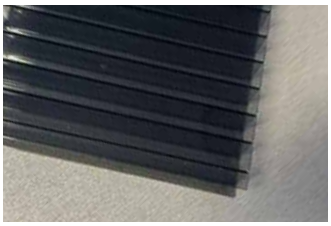
RAL 9006 | RAL 9006 S | RAL 9007 | RAL 9007 S | RAL 9010 M | RAL 9010 S

RAL 7016 M | RAL 7016 S | RAL 8014 M | RAL 8014 S | DB 702 | DB 703

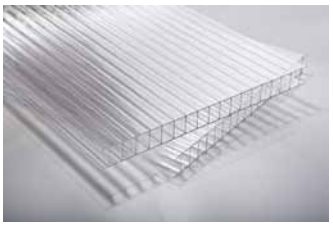
RAL 9006	White aluminium
RAL 9006S	White aluminium structure
RAL 9007	Grey aluminium
RAL 9007S	Grey aluminium structure
RAL 9010M	Pure white matt
RAL 9010S	Pure white structure
RAL 7016M	Anthracite grey matt
RAL 7016S	Anthracite grey structure
RAL 8014M	Sepia brown matt
RAL 8014S	Sepia brown structure
DB 702	Pearl light grey
DB 703	Pearl dark grey

Note: Other RAL colours upon request for an extra charge.

Polycarbonate roof

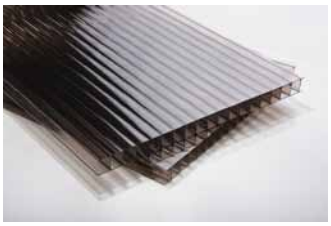


16 mm thickness, 2 walls, anthracite



16 mm thickness, 2 walls, clear

16 mm thickness, 7 walls, opal



16 mm thickness, 2 walls, bronze

Trapezoidal roof

Steel sheet of 1 mm thickness. Galvanised on both sides. Double-sided surface finish in RAL 9006, RAL 7016, RAL 9010.

NOTE: The shade and surface structure of the trapezoidal sheet varnish may differ from the shade and surface structure of the Carport structure varnish, and is therefore not grounds for complaint.

Definition
The Carport Artosi is a shelter with fixed roof. The Carport is an open outdoor structure, and cannot be therefore compared to an enclosed, completely heat-, water-, and wind-tight structure. This fact must be especially considered when screen shutters or sliding panels are to be added to the Carport sides. Any and all equipment sheltered under the Carport must be suitable for outdoor use.
Local conditions may specify that a carport be considered a building, and in such cases, local laws and requirements for such buildings must be respected.
The manufacturer shall bear no responsibility for unsuitable placement or configuration of the Carport for the given location.
The manufacturer shall bear no responsibility for consequences associated with incorporation to other building elements.

Water resistance

The Carport is slightly sloped. The Carport is equipped with a gutter along the perimeter of the roof. The water drains are inside the Carport poles.
The Carport is capable of draining rain water in the quantities specified in the table below, given that all the drains are located at the catchment side of the roof.

Carport area [m²]	Number of drains [pcs]	Quantity of water drained [l per m² per 1 hr]
12	1	50
24	2	50
36	3	50
49	3	30

The Carport is an open outdoor structure and is not completely water-tight.

In the rain, water drops dripping in the Carport gutter are likely to splash into the areas under the Carport (this always depends on the rain intensity and weather conditions).

It should be noted that higher rain intensity is likely to cause overflow of the drain, which is located inside the Carport.

Due to the fact that temperatures above and beyond the Carport will differ, it is likely that water will condensate on the lower side and inside the Carport structure.

In case the Carport is installed in close vicinity of other structures, ingress of water may be observed between the Carport and the neighbouring structure. Sealing of this joint is not part of the product. therefore, the manufacturer shall not be held responsible for the method and implementation of this seal.

If used in salty environments and in case of intense effects of salt mists or chemical vapours (e.g., pools, whirlpools), incrustation and bubbles may appear on the surface or in the aluminium profile joints, as well as surface oxidation of stainless-steel parts of the Carport.

Wind resistance

The carport is capable of withstanding wind exceeding Class 6 acc. to ČSN 13561 (more than 88 km/h).
The Carport is an open outdoor structure and is not completely wind-tight.

Snow resistance

The Carport is manufactured in several roof load capacities:

- Polycarbonate: 150 kg/m², 110 kg/m²
- Trapezoidal: 200 kg/m², 150 kg/m², 110 kg/m²

The required load capacity affects the max. achievable dimensions and pole positions, see technical specifications.

The roof load capacity is calculated with even snow distribution over the whole roof. Pay attention to snowdrifts and fall of snow from nearby structures.

Local roof overload may lead to the refusal to recognise a warranty.

The Carport is an open outdoor structure and is not completely snow-tight.

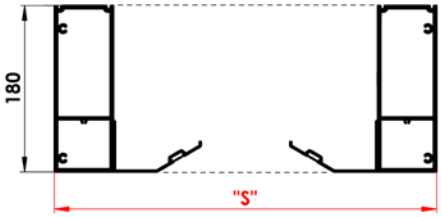
Standard dimensions

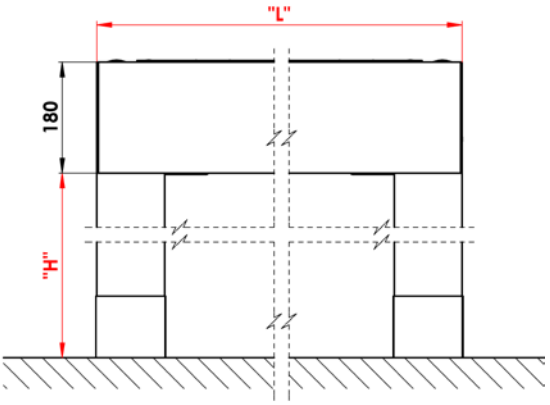
Roof version	Length L [mm]		Width S [mm]		Passing height H [mm]		Guaranteed surface [m²]
	min.	max.	min.	max.	min.	max.	max.
Polycarbonate	1440	7000	1000	5500	500	3000	38,5
Trapezoidal	1440	7000	1000	6500	500	3000	45,5
Roofless (ROOFLESS)	1440	7000	1000	6500	500	3000	45,5

Further information about the achievable dimensions is shown in technical specifications.

Installation dimensions

“S” – Carport width
“L” – Carport length
“H” – Passing height of a specific pole





Linear expansion

When the temperature of aluminium increases, the metal will expand; this phenomenon is called thermal expansion. The coefficient of thermal expansion of aluminium alloy is 23.5 µm/(m*K).

Example:
At 20 °C, an aluminium profile measures 7,000 mm. When heated to 50 °C – during a sunny day – it will measure 7005 mm due to thermal expansion. The length will increase by +5 mm as a result of the change in aluminium temperature.
When incorporating the Carport to surrounding structures, it is important to consider change in the Carport dimensions due to ambient temperature.

When taking measurements of screen roller shutters and installing them in the Carport, it is necessary to consider thermal expansion of the aluminium profile in relation to ambient temperature. We recommend that measurements be taken at ambient temperatures of 23 ±5 °C.

Dimensional tolerances

Length	Tolerance	Width	Tolerance	Passing height	Tolerance
up to 2000 mm	± 2,4	up to 2000 mm	± 2,4	from 500 mm to 3000 mm	+20/-10 - adjustable
up to 3000 mm	± 2,6	up to 3000 mm	± 2,6		
up to 4000 mm	± 2,8	up to 4000 mm	± 2,8		
up to 5000 mm	± 3	up to 4500 mm	± 3		
up to 6000 mm	± 3,2				
up to 7000 mm	± 3,4				

Approximate Carport weight

Values in the table are in [kg].
"S" – Carport width
"L" – Carport length

Trapezoidal

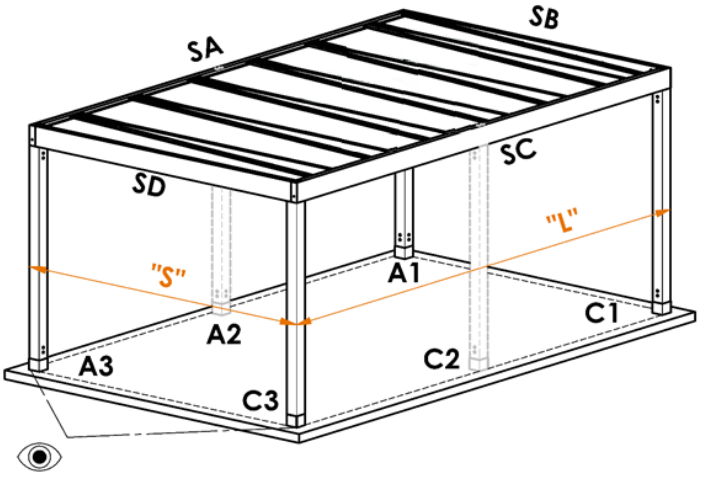
L/S	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500
1004	71	85	99	113	127	141	155	169	182	196
1341	85	101	117	132	148	164	180	196	212	228
1678	98	116	134	152	170	188	205	223	241	259
2015	112	131	151	171	191	211	231	251	271	290
2352	125	147	169	191	212	234	256	278	300	322
2689	138	162	186	210	234	258	282	305	329	353
3026	152	178	203	229	255	281	307	333	359	385
3363	165	193	221	249	277	304	332	360	388	416
3700	178	208	238	268	298	328	358	388	417	447
4037	192	224	256	287	319	351	383	415	447	479
4374	205	239	273	307	341	375	408	442	476	510
4711	219	254	290	326	362	398	434	470	506	541
5048	232	270	308	346	383	421	459	497	535	573
5385	245	285	325	365	405	445	485	524	564	604
5722	259	301	342	384	426	468	510	552	594	635
6059	272	316	360	404	448	491	535	579	623	667
6396	285	331	377	423	469	515	561	606	652	698
6733	299	347	394	442	490	538	586	634	682	730
7000	303	351	399	447	494	542	590	638	686	734

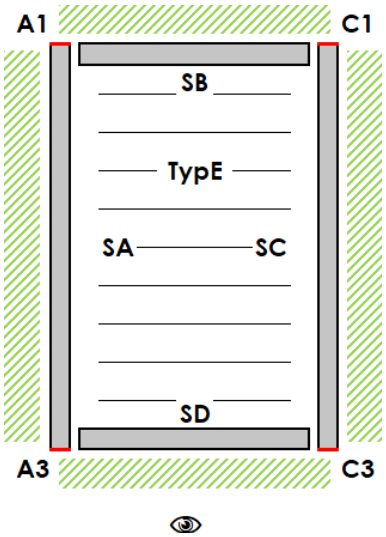
Polycarbonate

L/S	2000	2500	3000	3500	4000	4500	5000	5500
864	58	69	81	93	105	116	128	140
1659	81	96	111	126	142	157	172	187
2454	105	123	142	160	178	197	215	234
3249	128	150	172	194	215	237	259	281
4044	152	177	202	227	252	277	303	328
4839	175	204	232	261	289	318	346	375
5634	198	230	262	294	326	358	390	422
6429	222	257	292	328	363	398	434	469
7000	232	268	304	340	376	412	448	484

CARPORT ARTOSI
Technical specification

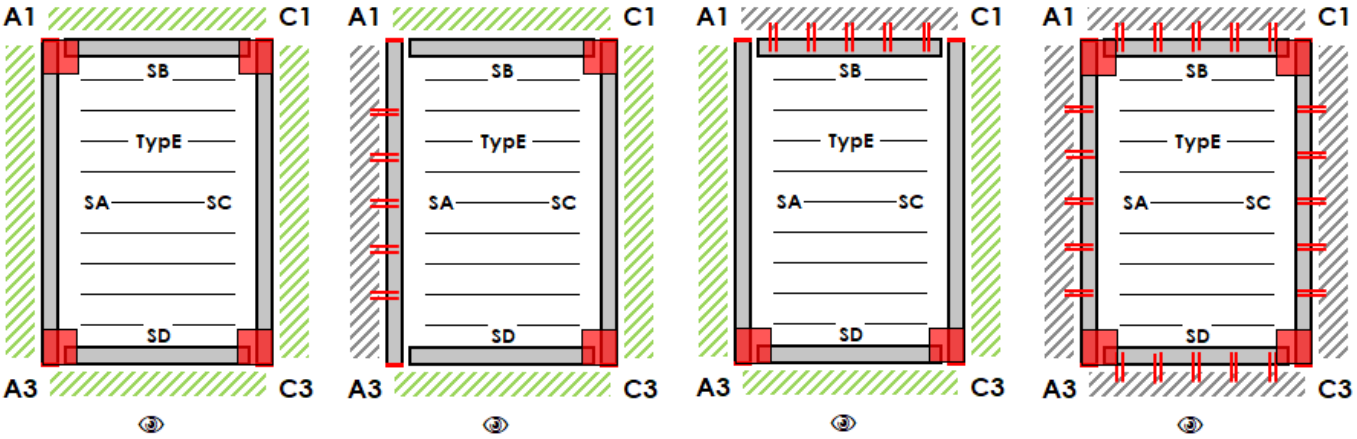
Polycarbonate
Types of installation
- Free-standing (supported by 4 to 6 poles)
- Possibility of anchoring to the adjacent building using the SA / SB / SC / SD SA/SC perimeter frame, without having to use poles at the anchored side
- The SA / SB / SC / SD sides may be built up





SA, SC	– Perimeter frame – Length	„S“	– Maximum Carport width
SB, SD	– Perimeter frame – Width	„L“	– Maximum Carport length
A1, A3, C1, C3	– Corner poles	👁	- Viewing direction of the Carport
A2, C2	– Additional poles		

Příklady možných zástaveb carportu s trapézem s ohledem na okolí



- Anchored side: -
- Compulsory pole: A1 / A3 / C1 / C3
- Optional pole: A2 / C2

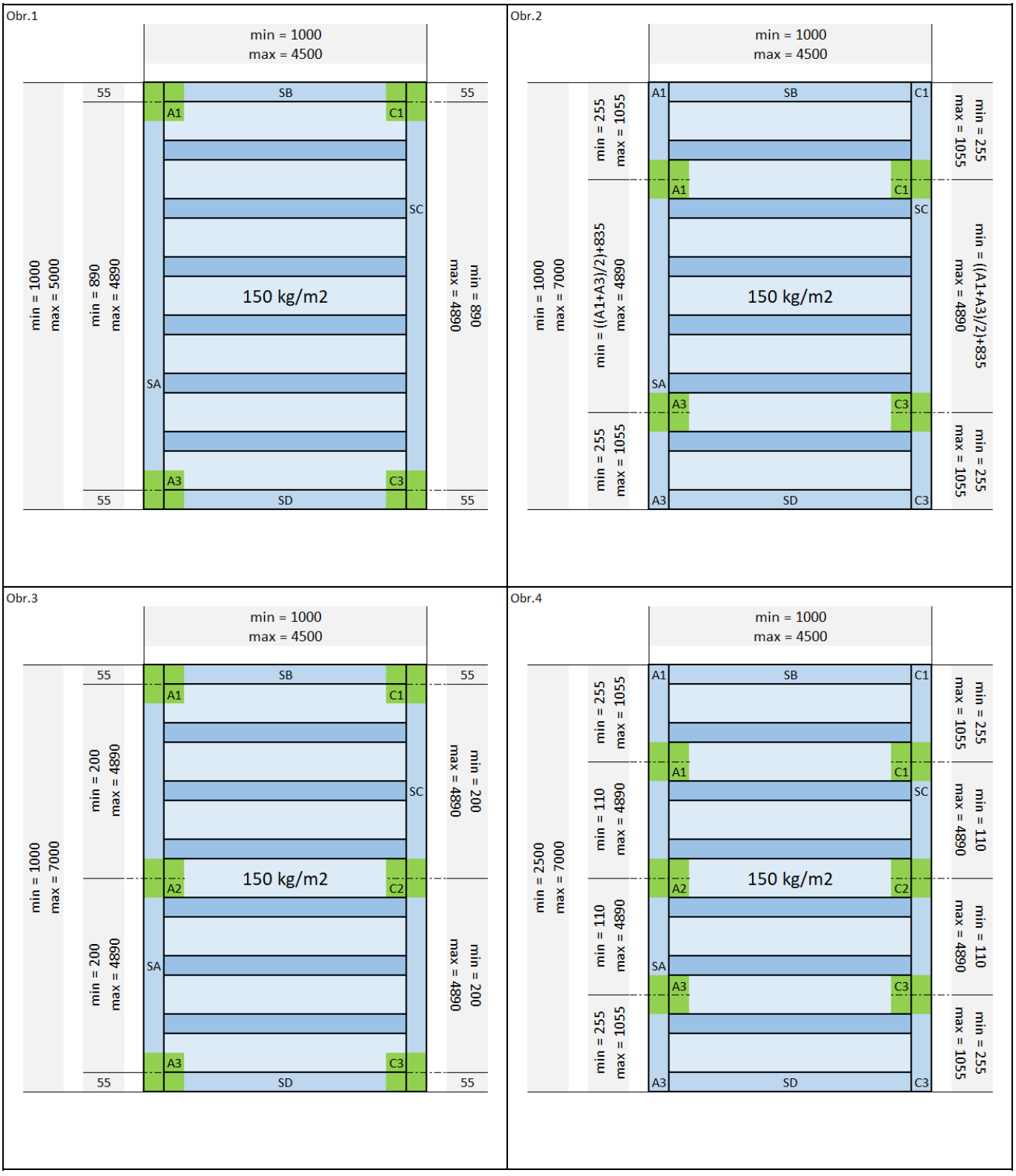
- Anchored side: SA
- Compulsory pole: C1 / C3
- Optional pole: A1 / A2 / A3 / C2

- Anchored side: SB
- Compulsory pole: A3 / C3
- Optional pole: A1 / A2 / C1 / C2

- Anchored side: SA / SB / SC / SD
- Compulsory pole: -
- Optional pole: A1 / A2 / A3 / C1 / C2 / C3

Polycarbonate – Conditions for 150 kg/m² load capacity

The Carport load capacity depends on the Carport external dimensions and pole positions. These dependencies are shown below. It is possible to combine the conditions, i.e., poles may be placed to side SA acc. to Fig. 1 and to side SC acc. to Fig. 4.



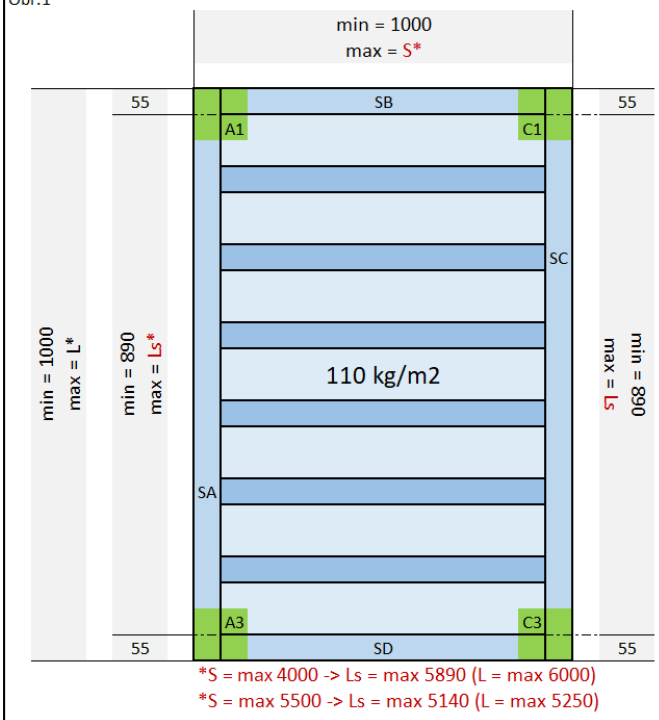
- Pole A1 – May be replaced by anchoring of side SA or side SB
- Pole A2 – May be replaced by anchoring of side SA
- Pole A3 – May be replaced by anchoring of side SA or side SD

- Pole C1 – May be replaced by anchoring of side SC or side SB
- Pole C2 – May be replaced by anchoring of side SC
- Pole C3 – May be replaced by anchoring of side SC or side SD

Polycarbonate – Conditions for 110 kg/m² load capacity

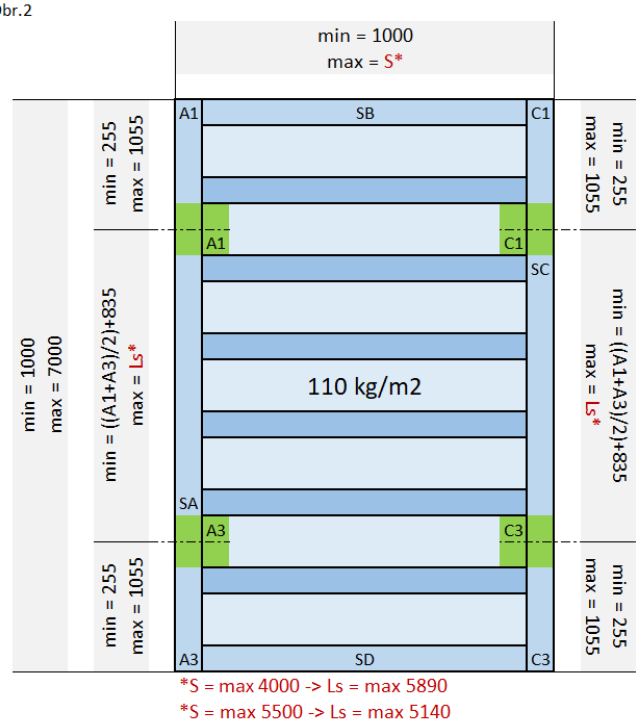
The Carport load capacity depends on the Carport external dimensions and pole positions. These dependencies are shown below. It is possible to combine the conditions, i.e., poles may be placed to side SA acc. to Fig. 1 and to side SC acc. to Fig. 4.

Obr.1



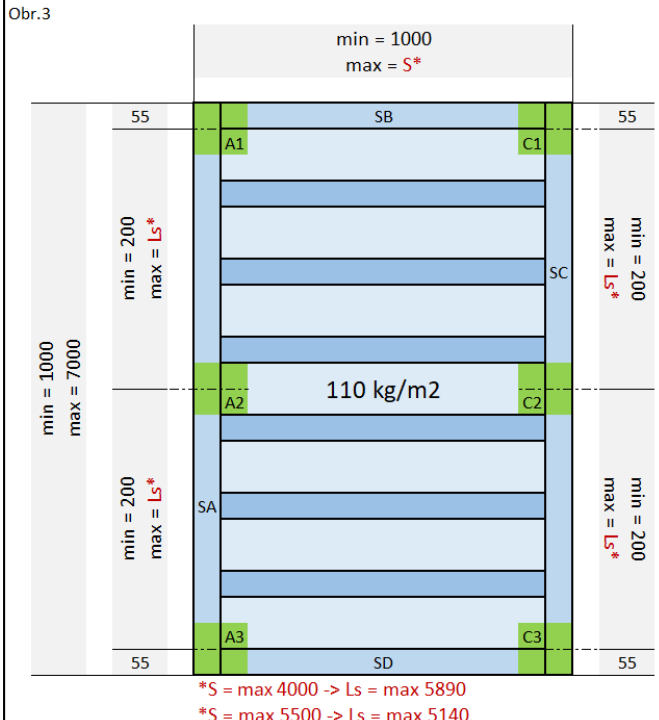
*S = max 4000 -> Ls = max 5890 (L = max 6000)
*S = max 5500 -> Ls = max 5140 (L = max 5250)

Obr.2



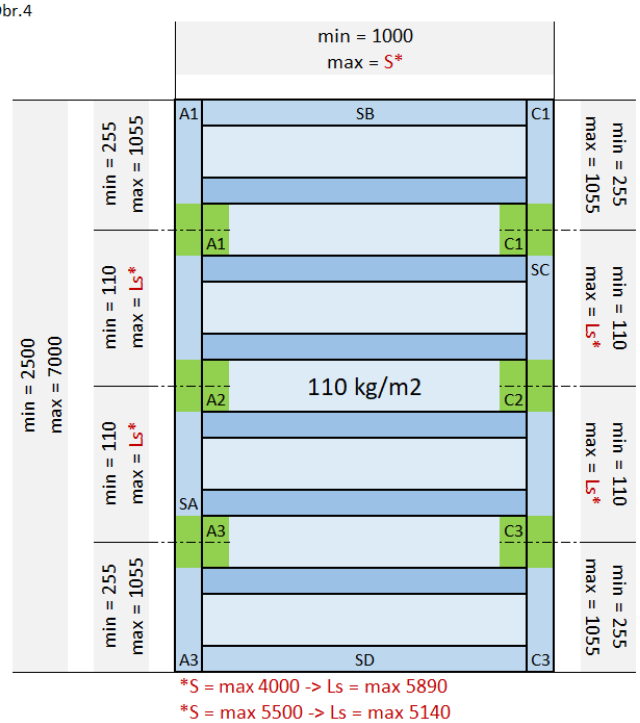
*S = max 4000 -> Ls = max 5890
*S = max 5500 -> Ls = max 5140

Obr.3



*S = max 4000 -> Ls = max 5890
*S = max 5500 -> Ls = max 5140

Obr.4



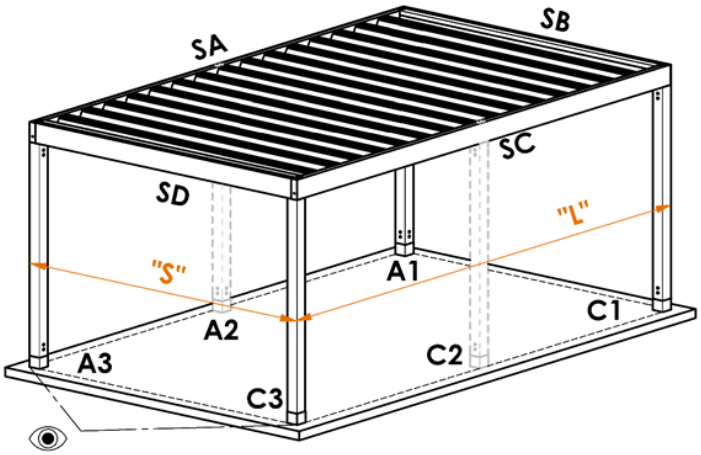
*S = max 4000 -> Ls = max 5890
*S = max 5500 -> Ls = max 5140

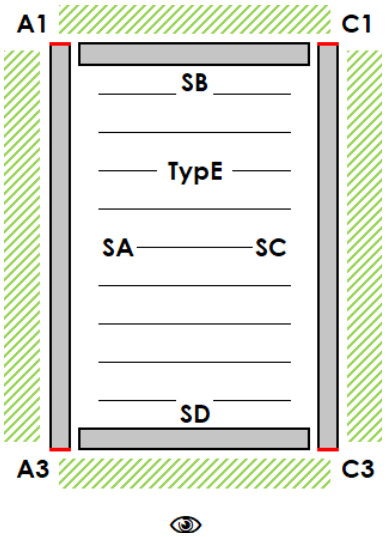
- Pole A1 – May be replaced by anchoring of side SA or side SB
- Pole A2 – May be replaced by anchoring of side SA
- Pole A3 – May be replaced by anchoring of side SA or side SD

- Pole C1 – May be replaced by anchoring of side SC or side SB
- Pole C2 – May be replaced by anchoring of side SC
- Pole C3 – May be replaced by anchoring of side SC or side SD

CARPORT ARTOSI
Technical specification

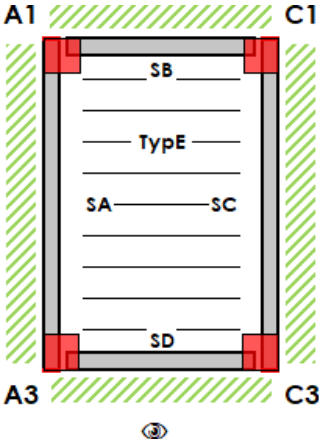
Trapezoidal roof
Types of installation
- Free-standing (supported by 4 to 6 poles)
- Possibility of anchoring to the adjacent building using the SA / SB / SC / SD SA/SC perimeter frame, without having to use poles at the anchored side
- The SA / SB / SC / SD sides may be built up



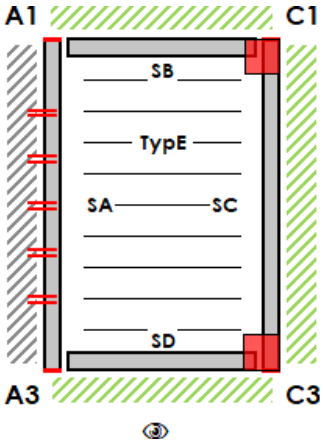


SA, SC	– Perimeter frame – Length	„S“	– Maximum Carport width
SB, SD	– Perimeter frame – Width	„L“	– Maximum Carport length
A1, A3, C1, C3	– Corner poles	👁	- Viewing direction of the Carport
A2, C2	– Additional poles		

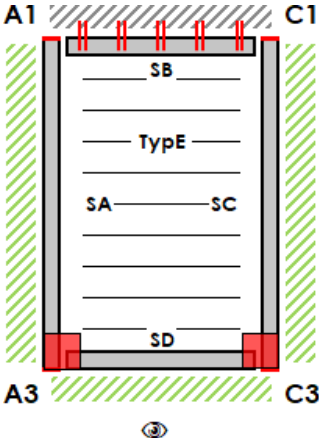
Examples of possible Carport installation options with trapezoidal roof, with respect to the surroundings



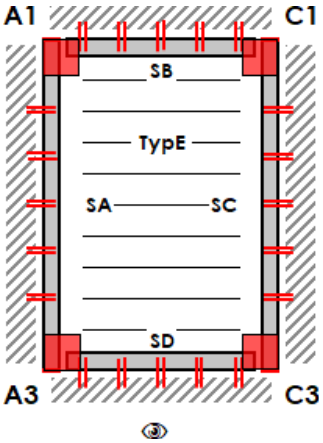
- Anchored side:
  -
- Compulsory pole:
  A1 / A3 / C1 / C3
- Optional pole:
  A2 / C2



- Anchored side:
  SA
- Compulsory pole:
  C1 / C3
- Optional pole:
  A1 / A2 / A3 / C2



- Anchored side:
  SB
- Compulsory pole:
  A3 / C3
- Optional pole:
  A1 / A2 / C1 / C2

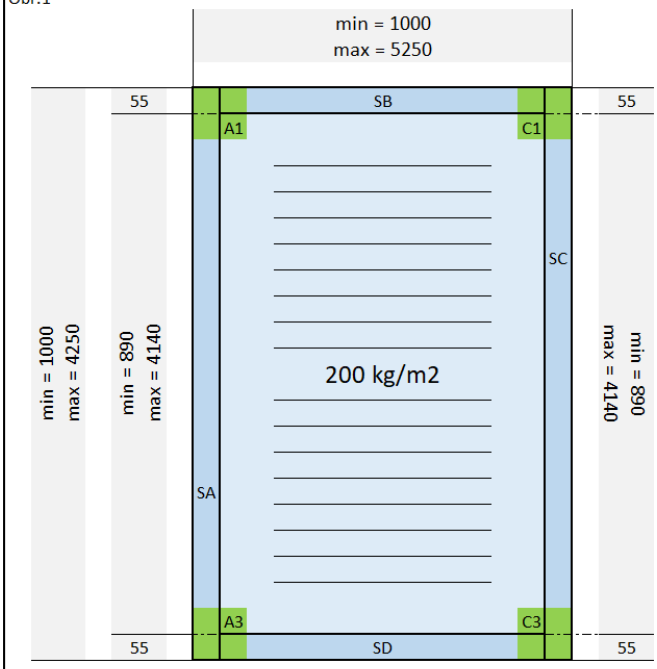


- Anchored side:
  SA / SB / SC / SD
- Compulsory pole:
  -
- Optional pole:
  A1 / A2 / A3 / C1 / C2 / C3

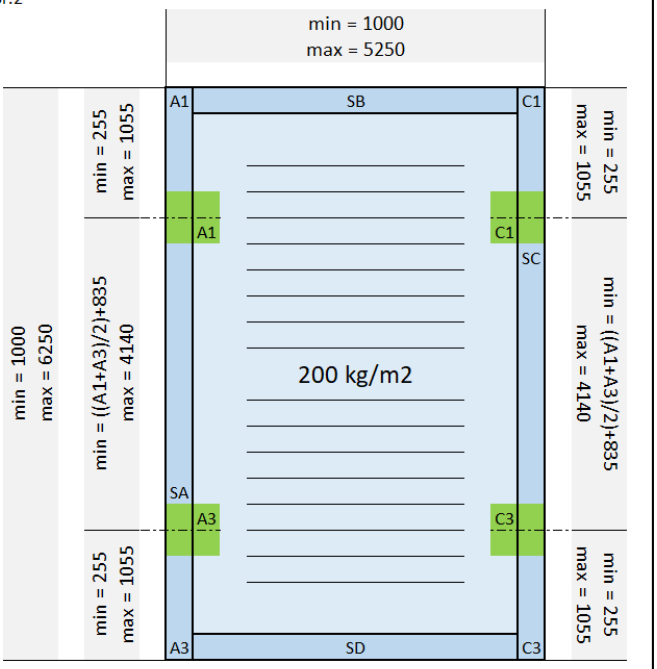
Trapezoidal – Conditions for 200 kg/m² load capacity

The Carport load capacity depends on the Carport external dimensions and pole positions. These dependencies are shown below. It is possible to combine the conditions, i.e., poles may be placed to side SA acc. to Fig. 1 and to side SC acc. to Fig. 4.

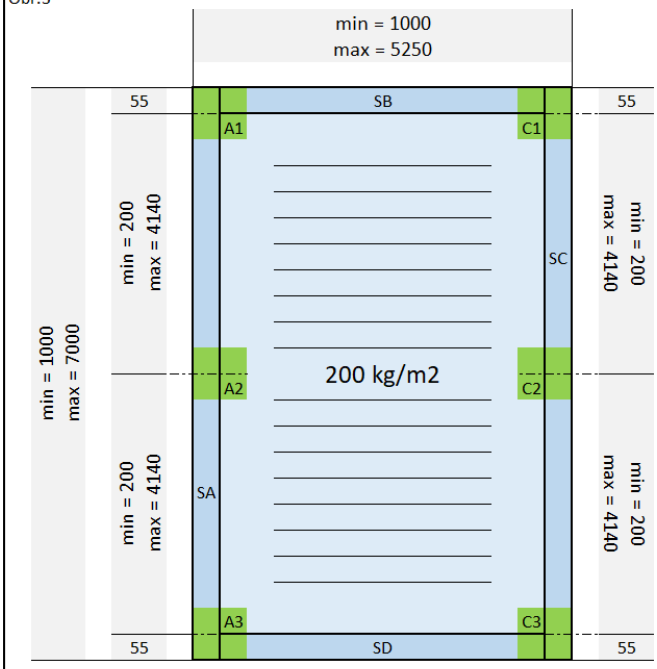
Obr.1



Obr.2



Obr.3



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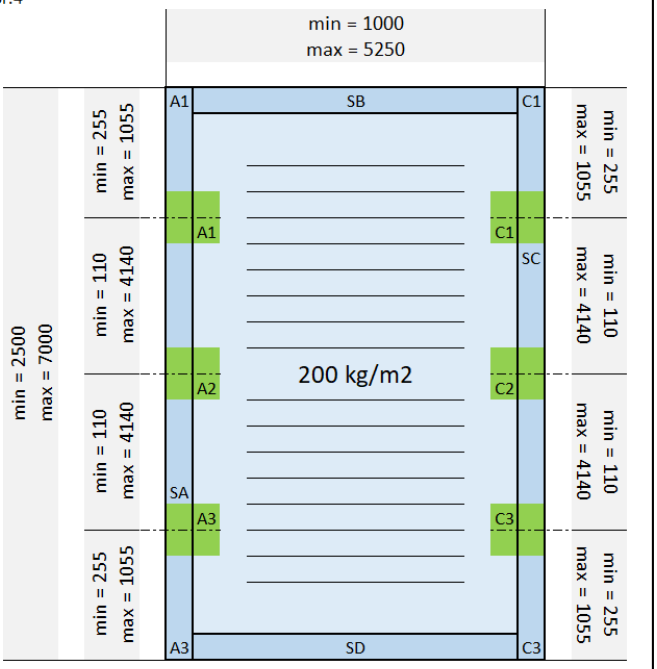


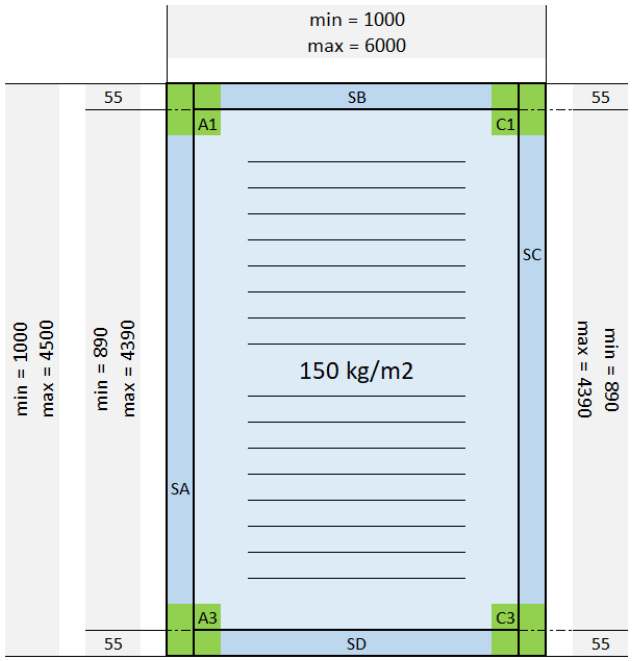
- Pole A1 – May be replaced by anchoring of side SA or side SB
- Pole A2 – May be replaced by anchoring of side SA
- Pole A3 – May be replaced by anchoring of side SA or side SD

- Pole C1 – May be replaced by anchoring of side SC or side SB
- Pole C2 – May be replaced by anchoring of side SC
- Pole C3 – May be replaced by anchoring of side SC or side SD

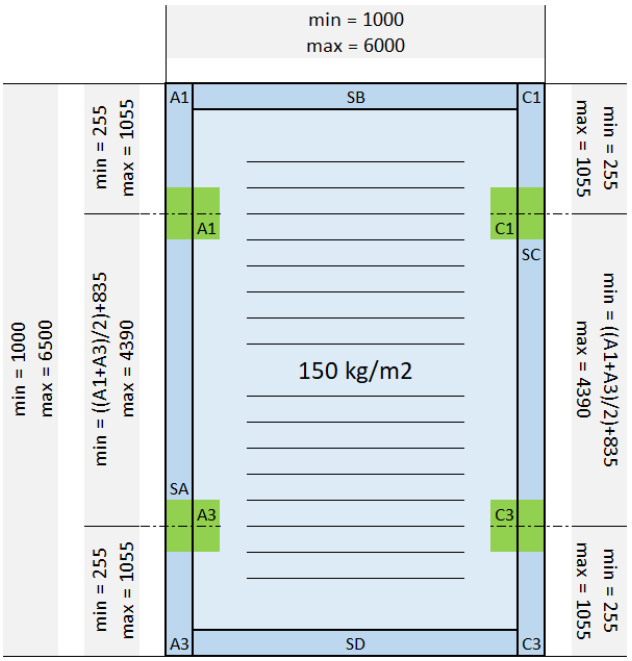
Trapezoidal – Conditions for 150 kg/m² load capacity

The Carport load capacity depends on the Carport external dimensions and pole positions. These dependencies are shown below. It is possible to combine the conditions, i.e., poles may be placed to side SA acc. to Fig. 1 and to side SC acc. to Fig. 4.

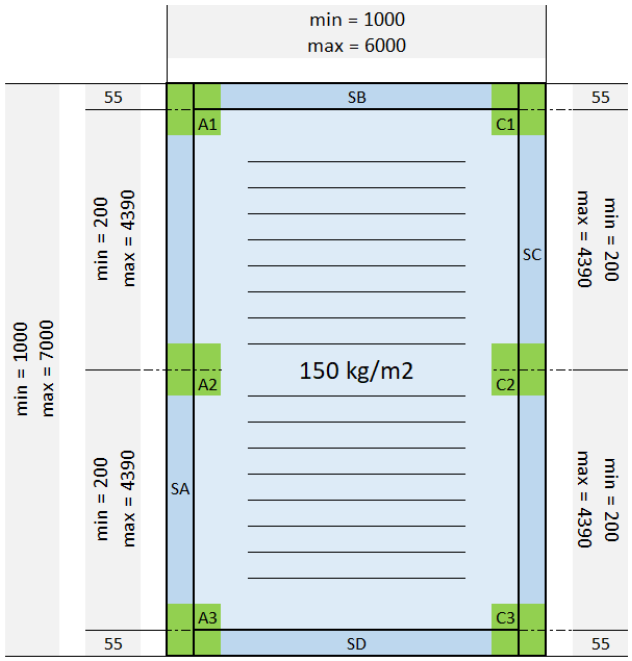
Obr.1



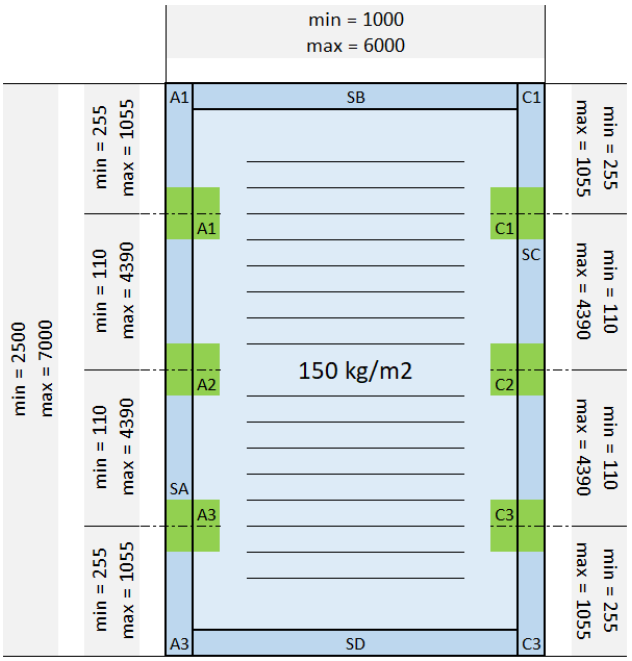
Obr.2



Obr.3



Obr.4



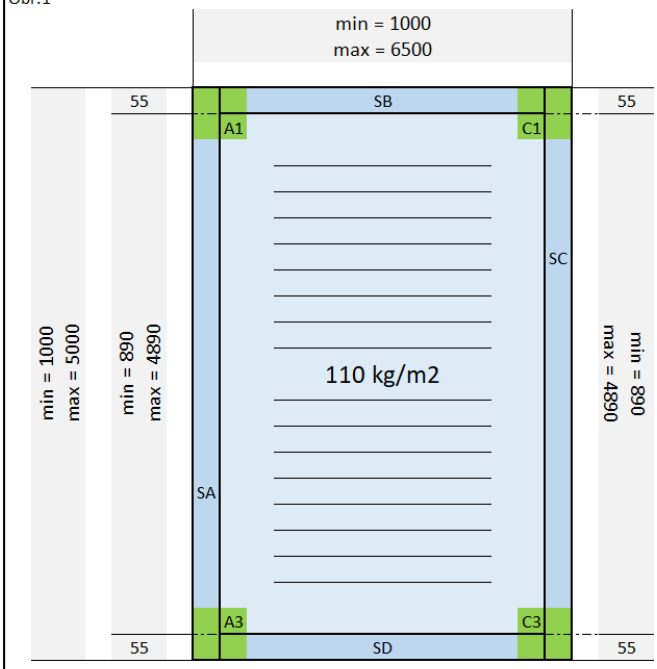
- Pole A1 – May be replaced by anchoring of side SA or side SB
- Pole A2 – May be replaced by anchoring of side SA
- Pole A3 – May be replaced by anchoring of side SA or side SD

- Pole C1 – May be replaced by anchoring of side SC or side SB
- Pole C2 – May be replaced by anchoring of side SC
- Pole C3 – May be replaced by anchoring of side SC or side SD

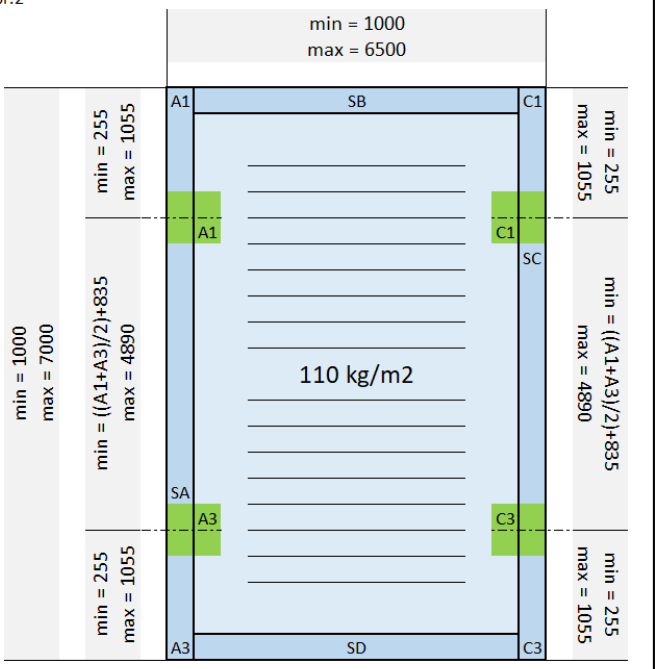
Trapezoidal – Conditions for 110 kg/m² load capacity

The Carport load capacity depends on the Carport external dimensions and pole positions. These dependencies are shown below. It is possible to combine the conditions, i.e., poles may be placed to side SA acc. to Fig. 1 and to side SC acc. to Fig. 4.

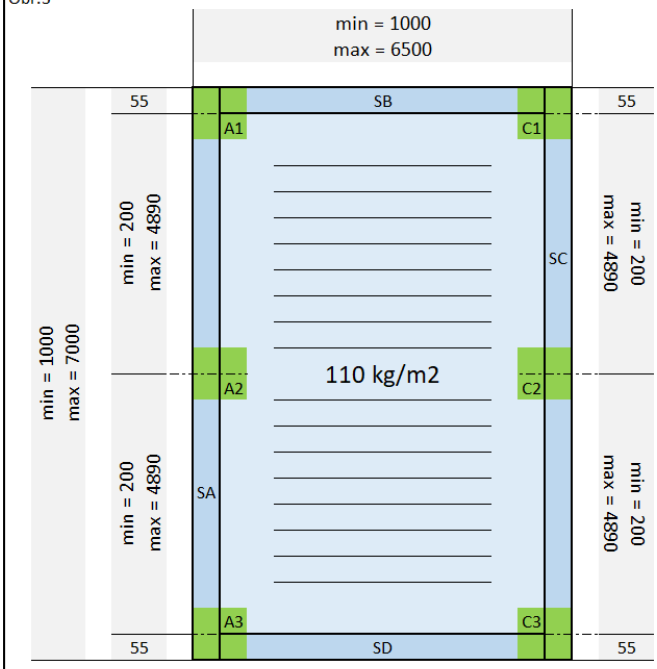
Obr.1



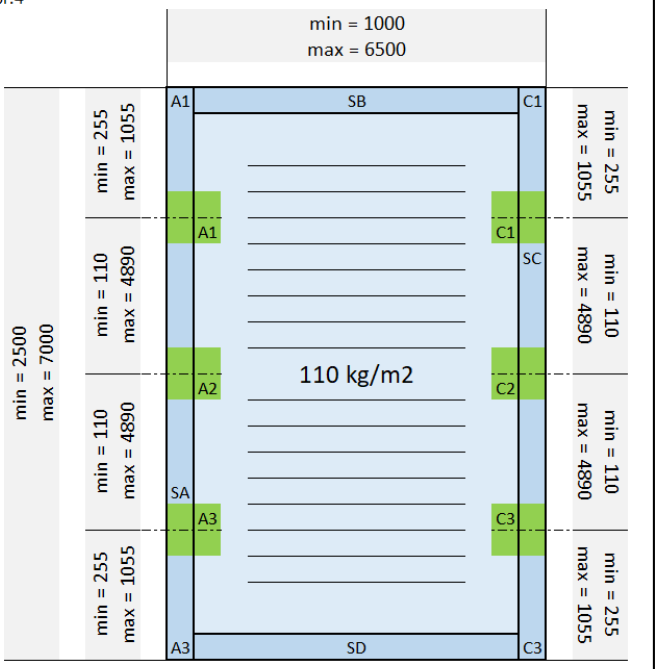
Obr.2



Obr.3



Obr.4



- Pole A1 – May be replaced by anchoring of side SA or side SB
- Pole A2 – May be replaced by anchoring of side SA
- Pole A3 – May be replaced by anchoring of side SA or side SD

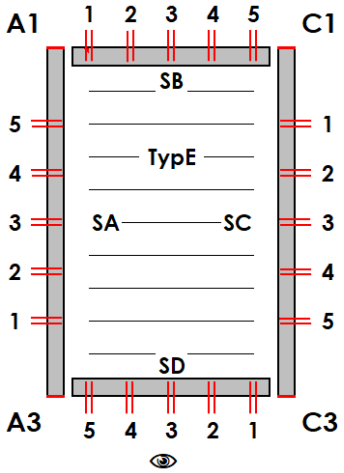
- Pole C1 – May be replaced by anchoring of side SC or side SB
- Pole C2 – May be replaced by anchoring of side SC
- Pole C3 – May be replaced by anchoring of side SC or side SD

Frame anchoring

Frame anchoring is the load-bearing attachment of the Carport frame to the surrounding supporting structures through anchoring holes. If required, the Carport may be supplied with pre-drilled anchoring holes.
Load-bearing Carport frame anchoring must be done using fasteners suitable for supporting structures, having suitable dimensions and rating for transferring the loads.
The fasteners must be protected against corrosion. The method of protection must be adequate to the climatic conditions of the installation location.
The minimum number of the anchoring holes is 5. If necessary, it is possible to provide more holes.
The manufacturer shall not be held responsible for consequences due to unsuitable or insufficient anchoring to the surrounding supporting structures.
Due to the wide variety of surrounding structures, the fasteners are not part of the delivery and the manufacturer shall not be held responsible for incorrectly selected fasteners.
If needed or if in doubt, contact a project engineer or structural engineer.

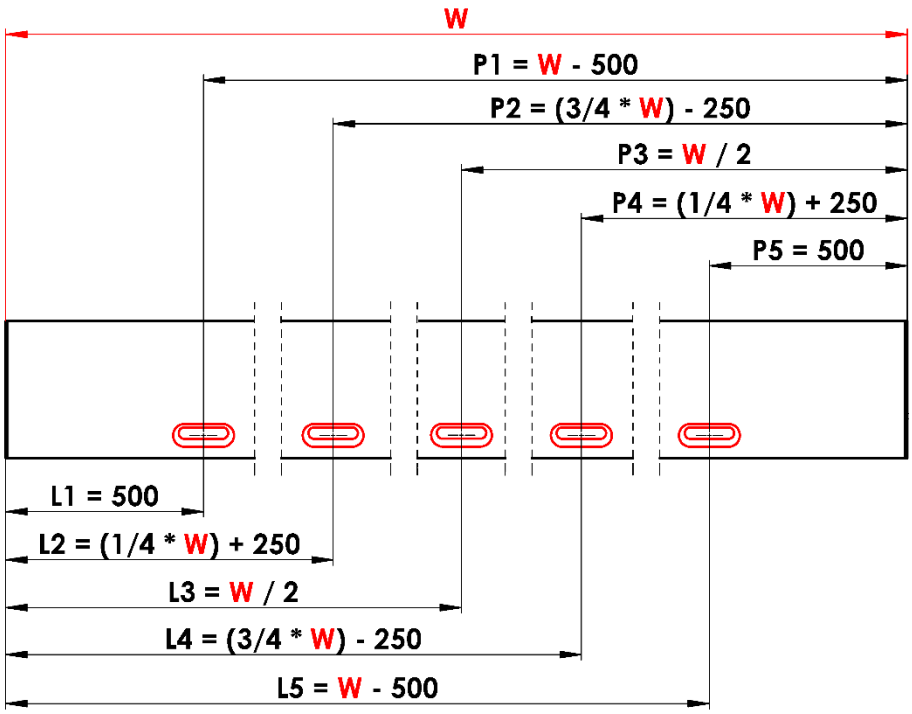
Anchored sides

Possibility of anchoring at the sides SA / SB / SC / SD



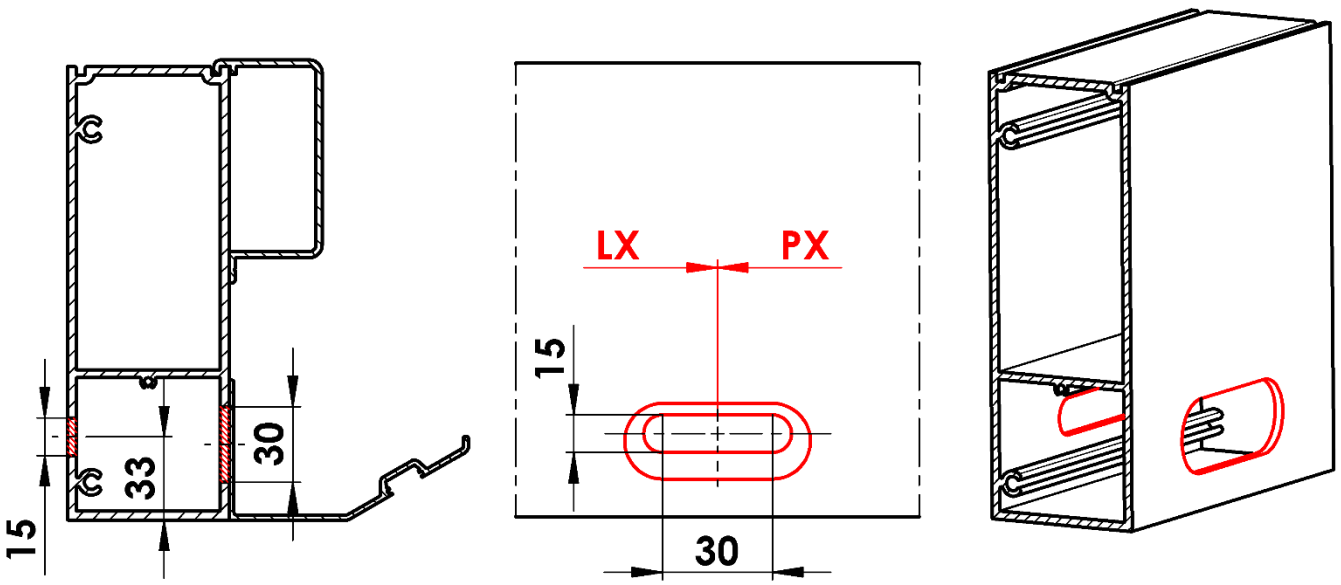
Layout of the basic arrangement of anchoring holes in the perimeter frame

This layout applies to all sides of the Carport



W – Carport width or length

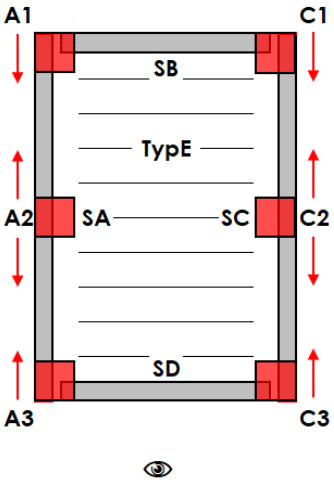
Anchoring hole detail



Poles – basic information

The pole is the basic supporting element of the Carport. It transfers the roof load to the anchoring point through a foot. The anchoring point must be sufficiently load-bearing in order to withstand all loads transferred by the pole foot. Fasteners connecting the pole foot and the anchoring point must have strength sufficient to withstand and transfer all load forces
The fasteners must be protected against corrosion. The method of protection must be adequate to the climatic conditions of the installation location.
Due to the wide variety of anchoring places, the fasteners are not part of the delivery and the manufacturer shall not be held responsible for incorrectly selected fasteners.
Only guide rails of screen roller shutters or sliding panels supplied by the Carport manufacturer can be anchored in the poles.

Position and displacement of poles



Lengthwise displacement of the "Z" corner poles

• type of installation A, B, D:	poles A1 / A3 / C1 / C3:	min. 255 mm / max. 1055 mm

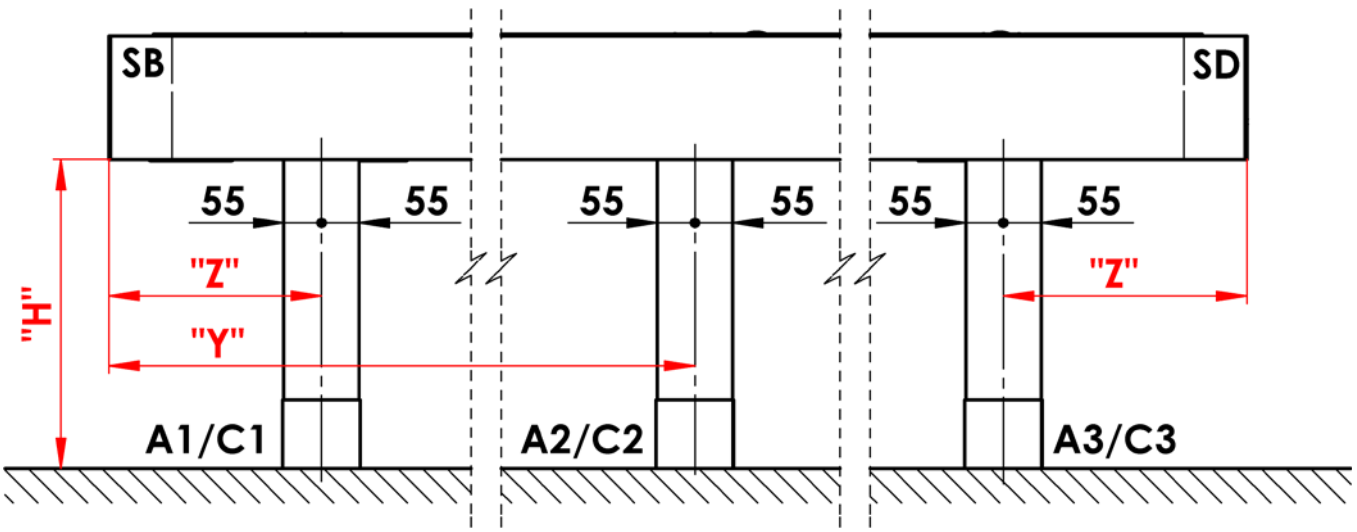
Lengthwise displacement of the "Y" middle poles:

• from the end of SB side:	poles A2 / C2	acc. to load-bearing diagrams
• from the end of SD side:	poles A2 / C2	acc. to load-bearing diagrams

Passing height "H"

• type of installation A, B, D:	poles A1 / A2 / A3 / C1 / C2 / C3	min. 500 mm / max. 3000 mm

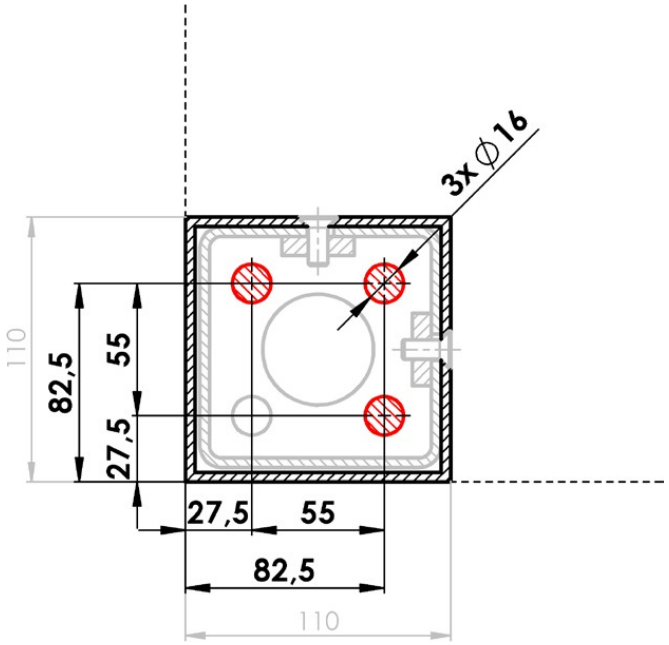
The displacement of the "Z" corner poles is always specified from the pergola's outer edge to the pole's axis.
The displacement of the "Y" middle pole A2 is always specified from the SB side's outer edge to the axis of this pole.
The displacement of the "Y" middle pole C2 is always specified from the SB side's outer edge to the axis of this pole.
The passing height "H" of the poles is always specified from the lower edge of the perimeter frame to the anchor point plane.

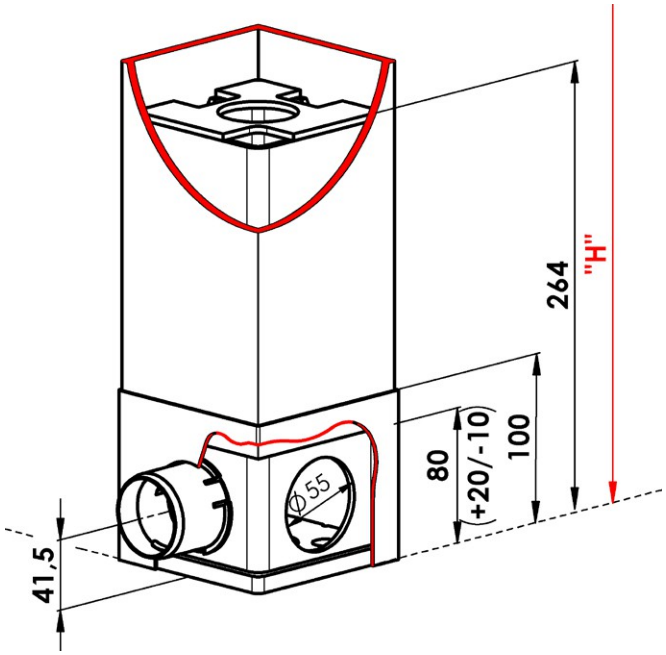


Poles – feet

CONCEALED FOOT

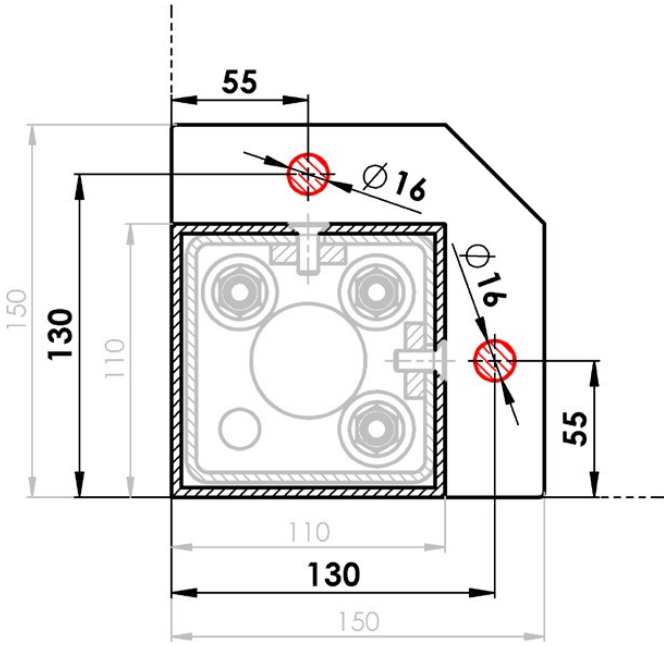
The anchoring holes for the fasteners are hidden in the foot.
The lower end of the foot with access to the anchoring holes is covered by a sheet-metal trim. The foot allows additional adjustment of the passing height "H" by +20/-10 mm.
The foundation for the foot anchoring is not part of the quotation. The foundation must be constructed by each owner individually with respect to the site conditions and in cooperation with an authorised body (architect, contractor, etc.).

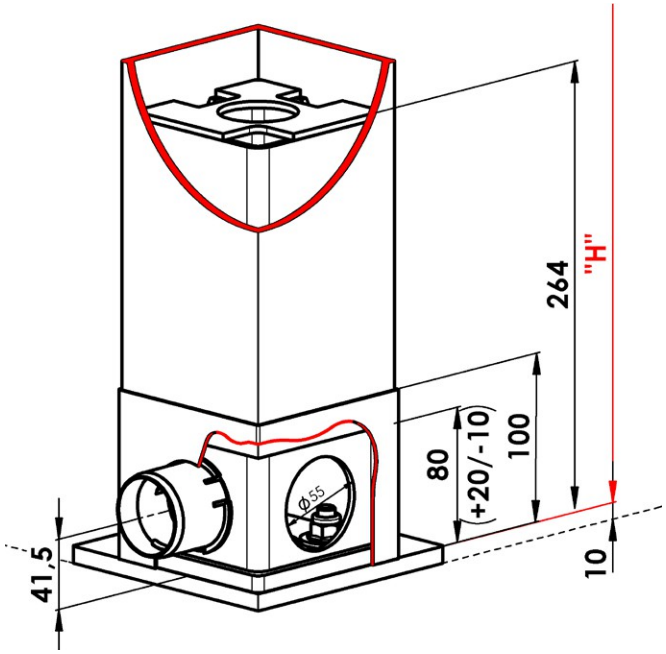




EXTENDED FOOT

The anchoring holes for the fasteners are visible on the foot. The lower end of the foot is covered by a sheet-metal trim.
The foot allows additional adjustment of the passing height "H" by +20/-10 mm.
The foundation for the foot anchoring is not part of the quotation. The foundation must be constructed by each owner individually with respect to the site conditions and in cooperation with an authorised body (architect, contractor, etc.).





Draining system

Basic information

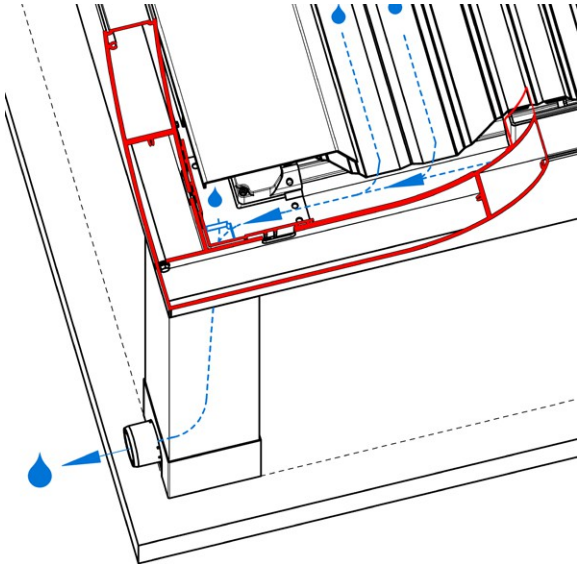
The Carport is equipped with a system for the draining of rain water. From the roof, water flows to gutters installed inside the Carport around the perimeter frame, and then to poles intended for this purpose. Water leaves the pole foot via a drain hole (see below).

The Carport is an open outdoor structure with limited rain protection. For detailed information, see Basic specification – Water resistance.
The Carport roof is sloped.
The minimum number of drains located at the catchment side:

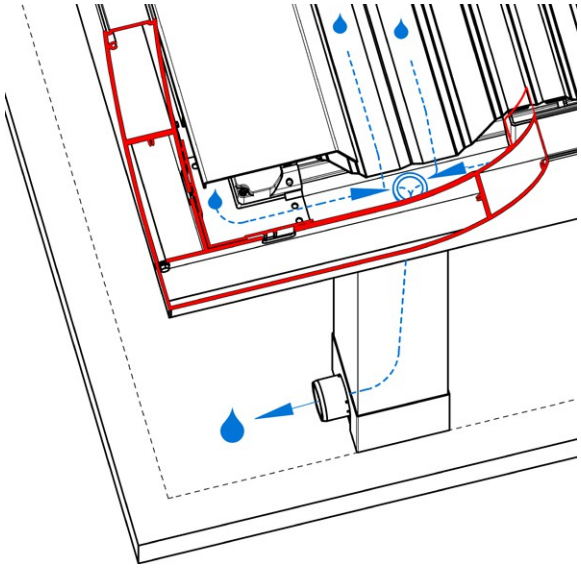
Carport area	Number of drains
up to 12 m²	1
up to 24 m²	2
up to 36 m²	3
up to 49 m²	3

Each carport pole can include a drain. The maximum number of drains is only limited by the number of poles.

Direction of water flow in the Carport structure



Water flow direction to the pole with a drain located outside the carport corner

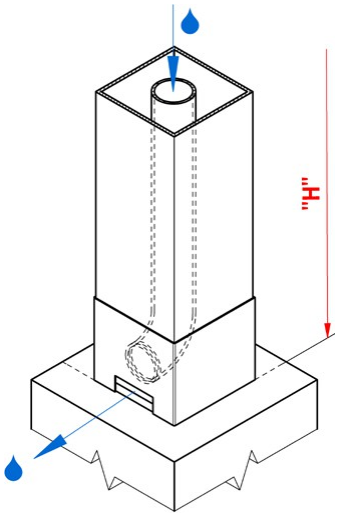


Water flow direction to the pole with a drain located in the carport corner

Pole drains

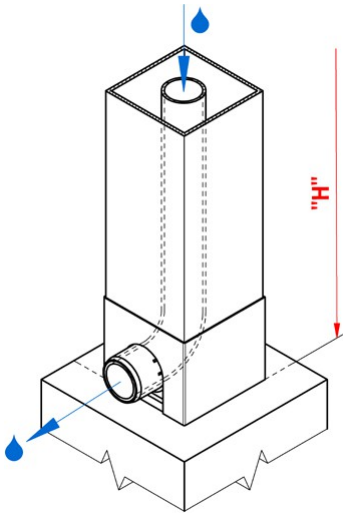
Uncontrolled draining (rectangular opening)

- The spout hose outfall is directed outside the Carport.
- The hose has a loose end.
- The hose ends just after the sheet-metal trim inside the pole.
- Water flows freely through the rectangular opening in the trim.
- Hose length = “H” + min. 300 mm.



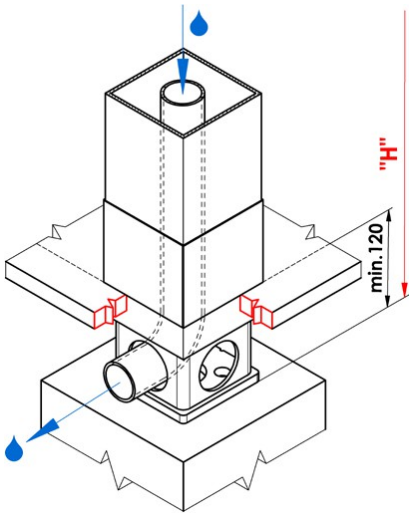
Controlled draining (half-round opening)

- The spout hose outfall is directed outside the Carport.
- The hose has a plastic socket.
- The hose with the socket ends outside the sheet-metal trim.
- Water flows freely through the plastic socket.
- DN50 drain pipe may be connected to the plastic socket (not part of delivery).
- Hose length = “H” + min. 300 mm.



Draining outside the trim (full trim)

- This type of draining is primarily intended for cases where the foot is anchored under the final terrain level and further connection of the spout hose is under the final terrain level.
- The spout hose outfall is directed outside the Carport.
- The hose has a loose end.
- Hose length = “H” + min. 300 mm.



Lighting

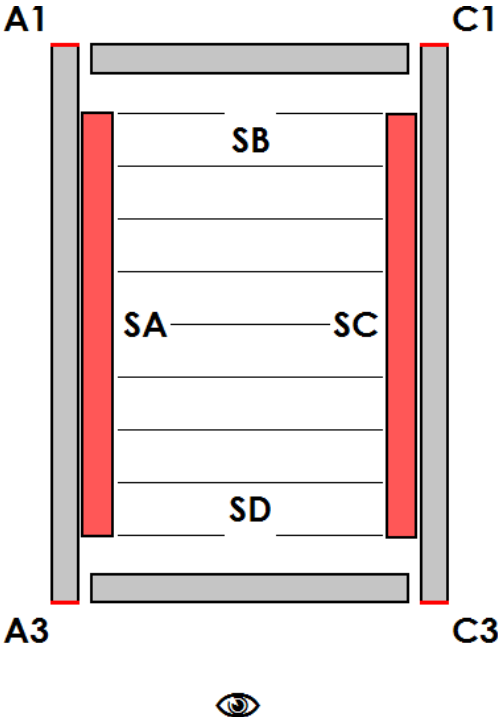
The Carport may be illuminated from the inside by a LED lighting system, which is to be installed in the groove of the gutter profile and covered by a light diffuser.

Light colour:

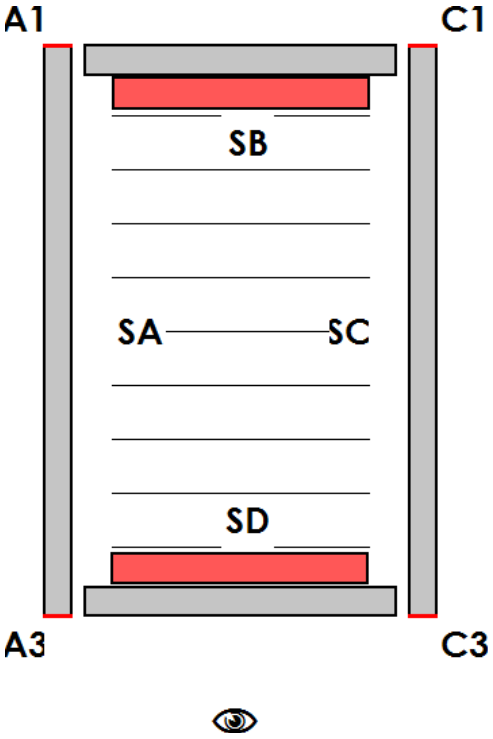
- Day white

Lighting placement:

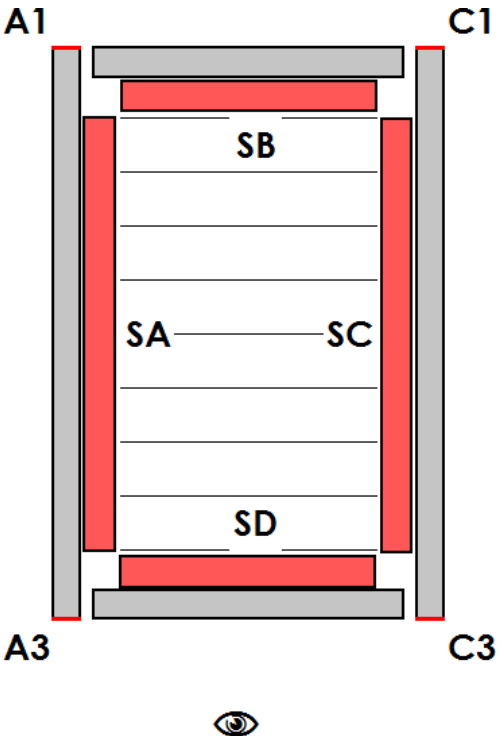
1) Lengthwise



2) Widthwise



3) Lengthwise and widthwise

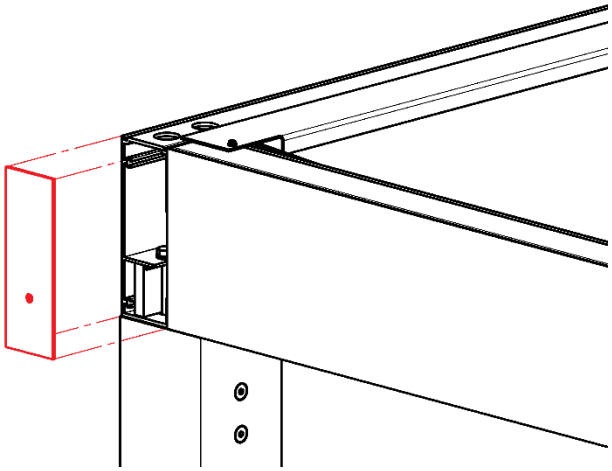


Access point

The access point serves for accessing the Carport electrical installations. This point also serves for service works on the pergola drive and electrical installation.

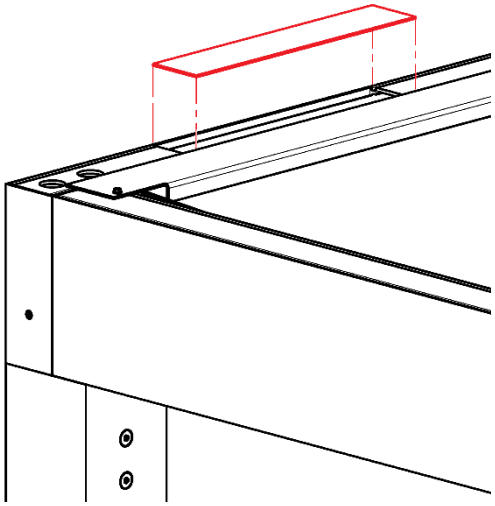
Front access point

- Access via a cover on the front side of the profile on the selected side.
- Handling area of at least 700 mm must be allowed in front of the cover.
- This area must remain accessible after the installation.



Auxiliary access point

- Access via a cover and opening on the upper side of the profile on the selected side.
- Handling area of at least 700 mm must be allowed in front of the cover.
- This area must remain accessible after the installation.



Optional accessories

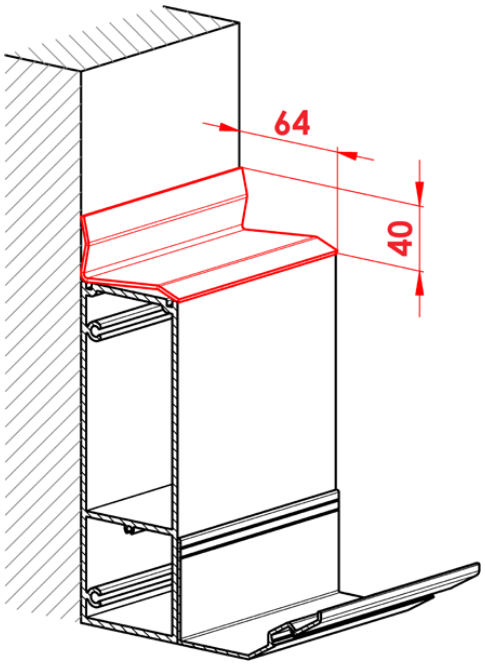
Cover sheets

This fitting element is intended to cover the gaps between the Carport and the adjacent structure. The sheets are manufactured to length, with max. length of one sheet being 4,000 mm; material: AL.

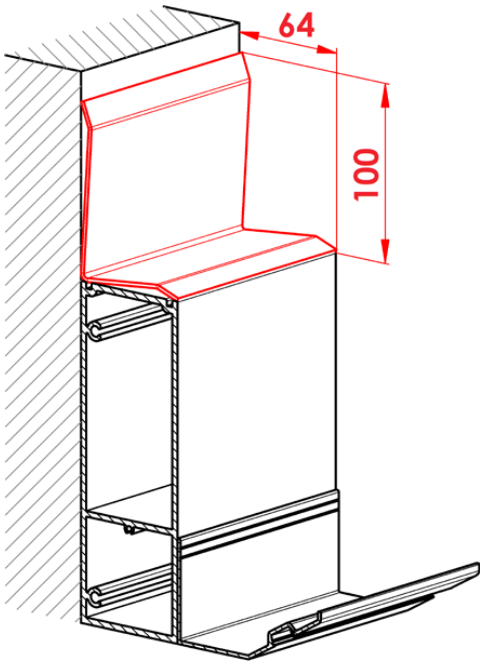
Surface treatment of the sheet may be selected from the standard ARTOSI colour card; other RAL colours are upon request for an extra charge. The sheets are not part of the Carport; they are optional accessories and must be ordered separately.

The manufacturer shall not be held responsible for failures and defects caused by incorrect incorporation of the Carport to adjacent structures.

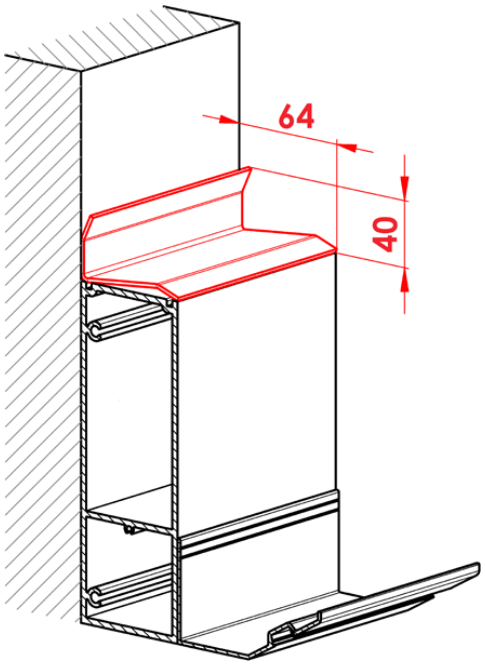
Sheet PG PK_01



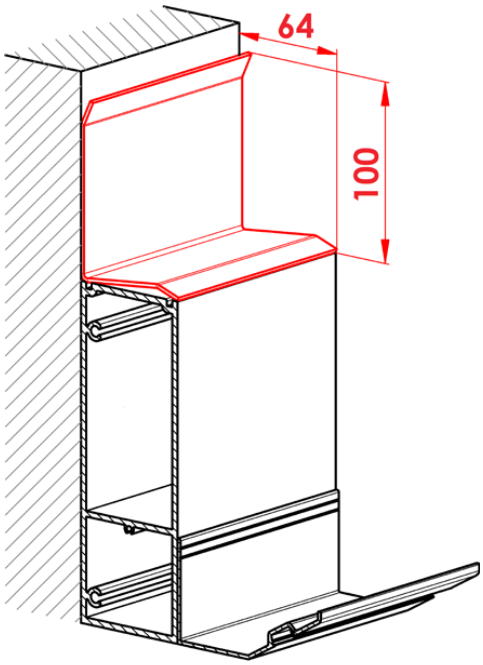
Sheet PG PK_01/1



Sheet PG PK_02



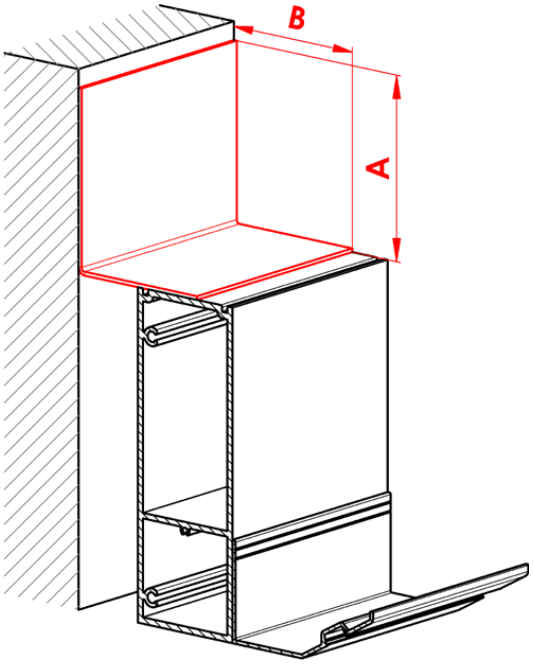
Sheet PG PK_02/1



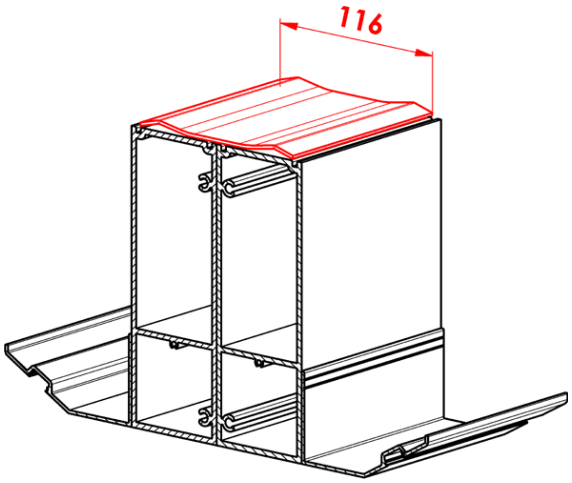
Sheet PG PK_03

Dimension A is optional
Min. 25 mm, max. 300 mm

Dimension B is optional
Min. 25 mm, max. 300 mm



Sheet PG PK_04



Maintenance and safety instructions

Maintenance

In order to maintain perfect operating and safety conditions of the product, proceed as follows:

- Check the supporting structure visually at least twice a year (in the spring and before the winter). If necessary, clean the surface of aluminium profiles, removing dirt, dust, and smog. Clean using a soft, damp cloth. Heavily soiled areas may be cleaned using common cleaning agents for painted surfaces of automobiles. Do not clean structural elements by aggressive cleaning agents like organic solvents, dilutants, cleaning pastes and scouring powders, and strong alkaline cleaning agents.
- Check tightening of all bolts and fasteners at least twice a year (in the spring and before the winter).
- Regularly remove gross impurities like branches from the Carport roof.
- Regularly check and clean the draining channels (especially remove leaves) to prevent clogging.

Safety instructions

- If the Carport is equipped with shading elements, pull them up in adverse weather conditions.
- If the Carport is equipped with shading elements, do not let children play with the control device.
- Regularly check the Carport for damage.
- If a defect or failure is detected, contact your system supplier!
- Due to continuous improvement of the product, technical information introduced in this manual may not correspond to the actual condition of the Carport supplied.

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Released: 05/2026

ISOTRA Partner

...a touch of intimacy.