New Generation Waves Arrive in Market!!

Terrace Roof

HR-series Basic concept is Simple & Wide variation. Curved roof type.

HF-series Flat roof terrace makes wide utility space.

Carport

KG-series Strong for stormy wind and heavy snow. Enjoy the season and weather all year around.

SNOW 600 N/m² | SNOW 1500 N/m² | SNOW 3000 N/m² | SNOW 4500 N/m² | SNOW 6000 N/m²

Manufacturer:

Sankyo Tateyama,Inc.
SankyoAlumi-Company
Exterior Division Home Material Department
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Homepage:http://www.exteriorworld.jp/english/

General sales agency:

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CARPORT

SERIES CATALOGUE

Stylish Wing Roof for All Season

Perfect match your parking spaces and lifestyle
For comfortable car life!

CARPORT VARIATION

Designed Carport which well-harmonized with design and function.

Arched roof shape like a bird wing.
Wide size variation for various space and lifestyle.
Strong component and high resistant for wind and snow.
Easy installation and maintenance.

KCR-series

Designed carport for various lifestyle with excellent performance.

▶ P.3

Snow load resistance SNOW 600 N/m² | Wind pressure resistance WIND 38 m/s

KCR

KDR-series

Beautiful arched roof protects your car from wind and rain.

▶ P.5

Snow load resistance SNOW 600 N/m² | Wind pressure resistance WIND 38 m/s

KDR

KS/KSS -series

Refined simple & basic design.

▶ P.9

Snow load resistance SNOW 600 N/m² | Snow load resistance SNOW 900 N/m² | Wind pressure resistance WIND 38 m/s

KS/KSS

MLC-series

Standard & Deluxe

Smart & Flat design would set off the simple modern house.

▶ P.11

Snow load resistance SNOW 600 N/m² | Wind pressure resistance WIND 38 m/s

MLC Standard & Deluxe

KRB/KRBS -series

Higher grade model for wind and snow.

▶ P.13

Snow load resistance SNOW 900 N/m² | Snow load resistance SNOW 1500 N/m² | Wind pressure resistance WIND 38 m/s | Wind pressure resistance WIND 42 m/s

KRB/KRBS

RSC-series

Single & Wide

Front open, a clear view and easy access for parking.

▶ P.15

Snow load resistance SNOW 600 N/m² | Wind pressure resistance WIND 38 m/s

RSC Single & Wide

KWC-series

Wide projection and cantilever design. 2 different post position available.

▶ P.17

Snow load resistance SNOW 600 N/m² | Wind pressure resistance WIND 38 m/s

KWC

CSS-series

Snow region model but, Stylish design & Polycarbonate roof panel type.

▶ P.19

Snow load resistance SNOW 1500 N/m² | Snow load resistance SNOW 3000 N/m² | Snow load resistance SNOW 4500 N/m² | Wind pressure resistance WIND 46 m/s

CSS

Made in Japan

KCR series

Designed carport for various lifestyle
with excellent performance.

Single Basic

KCR-5127 (SLC)

M-Connection

Joint type of Single Basic for easy installation

KCR-51・2427M (UC)

Y-Connection

Novel layout

KCR-51・2727Y (UC)

In-Line Connection

Various combination for in-line parking

KCR-5151・27W (UC)

In-Line Short Extension

1.4m short length extension

KCR-5114・27E (UC)

Size:mm

Wide Beam

Wide open carport with unified beams

KCRW-5154 (UC)

Size:mm

Wide Beam Single

Unified beams for one vehicle

KCRW-5127 (UC)

Size:mm

Wide Beam Triple

Wide open carport for three vehicles

KCRT-5880 (UC)

Size:mm

Mini

Suite for motorcycles
and bicycles

KCR-2920 (UC)

Size:mm

※1. Overall roof height shows for H:1860 post. Plus 450mm for H:2310 post, plus 950mm for H:2810 post.

ALUMINIUM COLOR

SLC Sun Silver	UC Urban Gray	BKC Brown
KC Black	BR Bronze	

STRENGTH

Snow load resistance SNOW 600N/m²

Wind pressure resistance WIND 38m/s

ROOF COLOR

polycarbonate			heat protection	
			polycarbonate	FRP
BR brown smoke	AO blue smoke	SI clear mat	AO blue smoke	SI clear mat

KDR series

Beautiful arched roof protects your car from wind and rain.

Single Basic

KDR-5127 (SLC)

Wide Beam

KDRW-5154 (UC)

Single Basic

KDR-5127 (UC)

M-Connection

KDR-51・2427M (UC)

In-Line Connection

KDR-5151・27W (UC)

In-Line Short Extension

KDR-5114・27E (UC)

Size:mm

Wide Beam

KDRW-5154 (UC)

Mini

KDR-2920 (UC)

Size:mm

Size:mm

※1. Overall roof height shows for H:1850 post. Plus 450mm for H:2300 post, plus 950mm for H:2800 post.

ALUMINIUM COLOR

SLC Sun Silver	UC Urban Gray	BKC Brown	KC Black	BR Bronze

STRENGTH

Snow load resistance SNOW 600N/m²

Wind pressure resistance WIND 38m/s

ROOF COLOR

polycarbonate			heat protection polycarbonate
BR brown smoke	AO blue smoke	SI clear mat	AO blue smoke

Feature

■KCR-series ■KDR-series

Color

5 colors variations match your multiple home styles.

Enjoy your color coordination from 5 colors variations.

SLC Sun Silver | UC Urban Gray | BKC Brown | KC Black | BR Bronze

Strength

●Single basic・Wide beam triple

Vex=38m/s

●Wide beam

Vex=42m/s

■Roof retainer・Rafter

Width of roof retainer and rafter and the panel holding capacity has been improved.
The wind resistant performance has been reinforced.

Effective utilization of the housing site

Installations to fit the ground conditions are available.

■Trapezium installation

Option

It is able to install front frame at an angle of 85°~95°to fit the ground shape.

notes
Trapezium installation is available only for single basic installation.

■Flush surface (KCR-series)

Since the frames do not protrude from the post, it is possible to locate the carport close to the border of the parking space.

Post Type

Long post type fits for Minivan or SUV with roof carrier.

Standard post type H19, and 2 different long post types H23, H28 are available.

Drain Elbow

Drain elbow for easy maintenance.

Using drain elbow which can remove dust accumulated in the rain makes its maintenance easier.

Locking Bolt

Nylon can prevent bolt loosing.

Elastic Nylon coated screws heighten an effect of locking and sealing.

Option

Side Panel

Wind pressure resistance WIND 38m/s SINGLE | Wind pressure resistance WIND 34m/s WIDE・TRIPLE

■KCR-series

Side panels

Gutter gap cover include in the side panel sets.

notes-1 Not available to set it up on H28 post (H=2.8m).
notes-2 Required the support post and roof panel support when set up H08 or higher side panel.

■KDR-series

Side panels

Gutter gap cover include in the side panel sets.

notes-1 Not available to set it up on H28 post (H=2.8m).
notes-2 Required the support post and roof panel support when set up H08 or higher side panel.

Removable Support Post

Upgrading for the carport's wind strength

Support Post Holder

Flash surface holder on the ground

Adjustable

Removal system and compact size

Smart Holding

Smart Holdings on post when remove it

When installing its support post and roof panel support together,the wind strength of the carport comes higher at Vex=42m/s than standard 38m/s.

notes
Cantilever type is recommended to install support post preparing the sudden strong wind, and please make sure to use support post when the strong winds occur.

Hurricane Protection (KCR-series)

Wind pressure resistance WIND 46m/s

Controlling the roof fall off against hurricane

Hurricane Protection is available after standard installation.

notes
Removable support post required on hurricane support program.

●Diagram of the Hurricane Protection

Single basic	Wide beam	Triple	Mini
●	×	×	●

Roof Panel Support (KCR-series)

Wind pressure resistance WIND 42m/s

Upgrading for the panel holding strength

Roof panel support that reinforce the roof panels against strong wind ensure the safety of the carport.

notes
Required the support post.

●Diagram of the roof panel support

Single basic	Wide beam	Triple	Mini
●	—	●	●

Protect Cushion

The picture shows 2pcs setting.

The rubber cushion protects hitting door and post while getting on/off the car. Installation screws are invisible because of double layer profile.

Aluminium Rain Gutter

Aluminium rain gutter and saddle.

Clothes Hanger

Upper 45°, Horizontal, Lower 45°

KS series

Refined simple & basic design

Single Basic

KS-4324 (SLC)

KSS series

Up-Grade Snow Load model (30cm) with 3posts stand.

Single Basic

KSS-5027 (SLC)

M-Connection

KS-51・2727M (UC)

Y-Connection

KS-51・2727Y (UC)

In-Line Connection

KS-5151・27W (UC)

Size:mm

43L:4339 (6 roof panels)
51L:5057 (7 roof panels)
58L:5775 (8 roof panels)

※1. Overall roof height shows for H:1900 post.

ALUMINIUM COLOR

SLC Sun Silver	UC Urban Gray	BKC Brown

ROOF COLOR

polycarbonate	heat protection polycarbonate	heat absorb polycarbonate
AO blue smoke	AO blue smoke	SI clear mat

●Cost-effective 2 Posts type

Snow load resistance SNOW 600 N/m² | Wind pressure resistance WIND 38 m/s

Stylish form - 2 Posts type

M-Connection

KSS-51・2727M (UC)

Y-Connection

KSS-51・2727Y (UC)

In-Line Connection

KSS-5151・27W (UC)

Size:mm

51L:5057 (7 roof panels)
58L:5775 (8 roof panels)

※1. Overall roof height shows for H:1900 post.

●High-intensity 3 Posts type

Snow load resistance SNOW 900 N/m² | Wind pressure resistance WIND 38 m/s

Strong & Tough, Flagship - 3 Posts type

MLC series Standard

Smart & Flat design would set off the simple modern house.

Single Basic

MLC-5127 (UC)

MLC series Deluxe

Wooden lamination frame directs a high-sense and stylish.

Single Basic

MLC-L5127 (CML)

M-Connection

MLC-51・2727M (KC)

In-Line Connection

MLC-5151・27W (SLC)

Wide Beam

MLC-5154 (SLC)

Reverse Incline Roof

MLC-RL5127 (SLC)

In-Line Short Extension

MLC-L5114・27E (TPL)

Mini

MLC-L5121 (CML)

Size:mm

Single Basic

24D:2500 25D:2623
27D:2799 30D:3111

Wide Beam

36D:3670 42D:4282
48D:4952 51D:5198
54D:5550 60D:6176

51L:5091 (7 roof panels)
58L:5809 (8 roof panels)

Size:mm

Reverse Incline Roof

24D:2504 25D:2628
27D:2804 30D:3117

Mini

18D:1859
21D:2164

22L:2219 (3 roof panels)
29L:2937 (4 roof panels)
51L:5091 (7 roof panels)

※1. Overall roof height shows for H:2200 post. Plus 300mm for H:2500 post, plus 600mm for H:2800 post.

COLOR

MLC Standard

aluminium type

SLC Sun Silver	UC Urban Gray	BKC Brown	KC Black

MLC Deluxe

laminate type

TP Trad Pine	SLC Sun Silver	CM Choco Maple	SLC Sun Silver
TPL		CML	

aluminium type

SLC Sun Silver	UC Urban Gray	KC Black

You can choose the frame style, wooden lamination frame or aluminium frame (the same color as the carport body).
Left color is frame color, and right color is base color (body color).

ROOF COLOR

polycarbonate

BR brown smoke AO blue smoke SI clear mat

heat protection

polycarbonate	FRP	FRP DR-type

AO blue smoke SI clear mat SI clear mat

STRENGTH

Snow load resistance SNOW 600N/m²

Wind pressure resistance WIND 38m/s

KRB series

Higher grade model for wind and snow.

Single Basic

KRB-5027 (UC)

KRBS series

Highest performance model with 3 posts.

Single Basic

KRBS-5027 (UC)

In-Line Connection

KRB-5050・27W (BKC)

M-Connection

KRB-50・2727M (BKC)

Wide Beam

KRB-5054 (UC)

Size:mm

■Single Basic

■Wide Beam

※1. Overall roof height shows for H:2000 post. Plus 400mm for H:2400 post.

ALUMINIUM COLOR

UC Urban Gray	BKC Brown	KC Black

ROOF COLOR

polycarbonate		heat protection polycarbonate	aluminium/resin composite panel
BR brown smoke	AO blue smoke	AO blue smoke	AI ivory white

●Cost-effective 2 Posts type

Snow load resistance SNOW 900N/m² Wind pressure resistance WIND 38m/s

Stylish form - 2 Posts type

In-Line Connection

KRBS-5050・27W (BKC)

M-Connection

KRBS-50・2727M (BKC)

Wide Beam

KRBS-5054 (UC)

Size:mm

■Single Basic

■Wide Beam

※1. Overall roof height shows for H:2000 post. Plus 400mm for H:2400 post.

●High-intensity 3 Posts type

Snow load resistance SNOW 1500N/m² Wind pressure resistance WIND 42m/s

Strong & Tough, Flagship - 3 Posts type

Post Design

High-intensity & High-efficiency post design.

RSC series

Single Basic

RSC-5027 (TPL)

Wide

RSC-5054 (SLC)

Size:mm

24D:2439(3 roof panels)
27D:2773(4 roof panels)
30D:3029(4 roof panels)

50L:4954
58L:5756

Size:mm

48D:4799(7 roof panels)
54D:5389(8 roof panels)
60D:5979(9 roof panels)

50L:5003
58L:5805

※1. Overall roof height shows for H:2050 post. Plus 300mm for H:2350 post.

Depth Connection

RSC-50・2427M (UC)

Size:mm

24D:2439(3 roof panels) 24D:2314(3 roof panels)
27D:2773(4 roof panels) 27D:2648(4 roof panels)
30D:3029(4 roof panels) 30D:2904(4 roof panels)

50L:4954
58L:5756

COLOR

aluminium type		laminate type							
SLC Sun Silver	UC Urban Gray	TP Trad Pine	SLC Sun Silver	CM Choco Maple	SLC Sun Silver	TP Trad Pine	UC Urban Gray	CM Choco Maple	UC Urban Gray
		TPL		CML		TPU		CMU	

ROOF COLOR

	heat protection		
polycarbonate	polycarbonate	FRP	FRP DR-type
SI clear mat	AO blue smoke	SI clear mat	SI clear mat

STRENGTH

Snow load resistance SNOW 600 N/m²

Wind pressure resistance WIND 38 m/s

KWC series

Wide projection and cantilever design.
2 different post position available.

Wide

KWC-5154 (TPL)

Wide

KWC-5954 (SLC)

Size:mm

■Side post position (side frame > front wide)

51L:5104(8 roof panels)
59L:5872(8 roof panels)

※1. Overall roof height shows for H:2110 post. Plus 300mm for H:2410 post.

COLOR

aluminium type		laminate type			
SLC Sun Silver	UC Urban Gray	TP Trad Pine	SLC Sun Silver	TP Trad Pine	UC Urban Gray
		TPL		TPU	

ROOF COLOR

	heat protection	
polycarbonate	polycarbonate	FRP DR-type

SI clear mat　AO blue smoke　SI clear mat

STRENGTH

Snow load resistance SNOW 600 N/m²

Wind pressure resistance WIND 38 m/s

■Rear post position (front frame > front wide)

51L:5104(8 roof panels)
59L:5872(8 roof panels)

54D:5385

※1. Overall roof height shows for H:2110 post. Plus 300mm for H:2410 post.

SIDE POST POSITION (SIDE FRAME > FRONT WIDE)

Unified arm and side frames in a round shape.Emphasize the design impact from the side frame view.

REAR POST POSITION (FRONT FRAME > FRONT WIDE)

Front & Rear frame emphasize the FLAT LINE design and suit & fit for the house design.

CSS series

Snow region model but, Stylish design
& Polycarbonate roof panel type.

Wide Beam

CSS-5154 (SLC)

50cm snow

CSS-5154 (SLC)

100cm snow

CSS-5154 (UC)

150cm snow

CSS-5154 (BD)

ALUMINIUM COLOR

SLC Sun Silver	UC Urban Gray	BKC Brown

STRENGTH

Snow load resistance SNOW 1500 N/m² | Snow load resistance SNOW 3000 N/m² | Snow load resistance SNOW 4500 N/m² | Wind pressure resistance WIND 46 m/s

ROOF COLOR

polycarbonate		heat protection		
		polycarbonate	FRP	FRP DR-type
AO blue smoke	SI clear mat	AO blue smoke	SI clear mat	SI clear mat

Lineup Table & Diagram

Type			50cm snow 1500N/m²	100cm snow 3000N/m²	150cm snow 4500N/m²
Single Basic	One vehicle	depth:31	4 posts	6 posts	8 posts
Wide Beam	Two vehicles	depth:54	4 posts	6 posts	8 posts
		depth:61	4 posts	6 posts	8 posts
Wide Beam Triple	Three vehicles	depth:80	6 posts	8 posts	not available
In-line connection	Two vehicles	depth:31	8 posts	12 posts	16 posts

Size:mm

31D:3050(5 roof panels)
54D:5332(8 roof panels)
61D:6050(9 roof panels)
80D:7998(11 roof panels)

■ 50cm snow

51L:5052 58L:5802

■ 100cm snow

51L:5052 58L:5802

■ 150cm snow

51L:5052 58L:5802

Heat Protection Polycarbonate

AO blue smoke

Sun side view	Ground side view

When looking from the sun side, the surface reflects in sunlight, therefore the color of the panel looks different from the ground side view.

Cuts out 75% of heat rays

Almost all harmful ultraviolet rays (UV) can be cut out. The roof protects car paintwork from fading and car seats from discoloring.

The temperature in sun-heated cars can rise to 61.6℃. Heat protection polycarbonate carports protect your cars from the summer heat.

CAR INSIDE -17℃

Polycarbonate roof protects your car from heat waves and restricts temperature rise in the car.

■Effect of polycarbonate roof against heat wave (our test result)

Exposed to the sun	Under general polycarbonate roof	Under heat protection polycarbonate roof
61.6℃	50.3℃	43.9℃

The above values are actual values measured by us and not guaranteed values for the products.

Approx. 250 times stronger than glass

Polycarbonate sheet has impact resistance approx. 250 times higher than glass.
It can even withstand being hit with a hammer. The polycarbonate roof can protect your car from bad weather conditions such as hail. In addition, since it does not harden, it is suitable for use in cold climates.

Fig. 1: Wavelength of sun's rays

Graph1: Dispersed ray transmittance curve

The sun's rays are classified into ultraviolet rays, visible ultraviolet rays, infrared rays etc. asshown in the wavelength in Fig. 1.
Near-infrared rays called heat rays, equivalent to about half of the entire solar radiation energy from sun beams, can cause damage to objects.
Heat protection polycarbonate sheet finished with a special mixture can restrict the sun's rays in this range more effectively compared with general polycarbonate sheet (See graph).
With this function, the solar radiation energy can be drastically reduced.

The left values are actual values measured by us and not guaranteed values products.

Model	KCR	KDR	KS/KSS	MLC Standard & Deluxe	KRB/KRBS	RSC	KWC	CSS
Polycarbonate	Cut out UV rays 100% and has a strong impact resistance 250 times higher than glass. Since it does not harden at low temperatures, it is suitable for use in cold climates.							
BR brown smoke	●	●		●	●			
AO blue smoke	●	●	●	●	●			●
SI clear mat	●	●		●		●	●	●
Heat protection polycarbonate	When looking panel from the sun side, the surface reflects sunlight. Therefore the panel color looks different from the ground side.							
AO blue smoke	●	●	●	●	●	●	●	●
Heat absorb polycarbonate	The embossed surface is diffusing sunlight and gentle light under the roof. (40% heat rays cut)							
SI clear mat			●					
Heat protection FRP	Having same features and specification of FRP panel and reducing heat ray.							
SI clear mat	●			●		●		●
Heat protection FRP DR-type	Having same features and specification of FRP panel and much more stronger & incombustibility material.							
SI clear mat				●		●	●	●
Aluminium/resin composite panel	The maltiple layered composite panel which is higher advantage for fire & impact resistance.							
AI ivory white					●			