

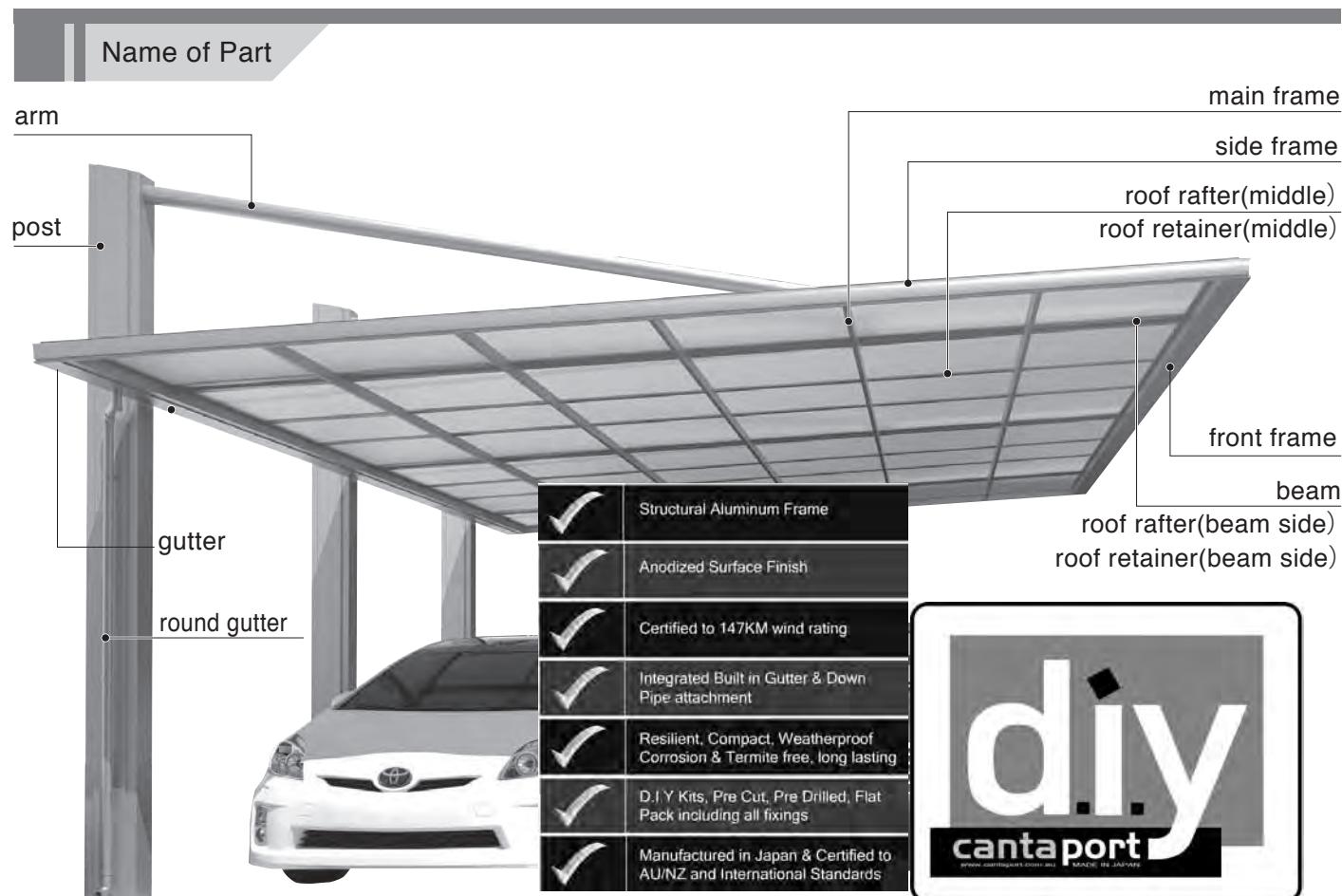
# Cantaport made in Japan certified to AU standards

## KWC Series Installation Manual

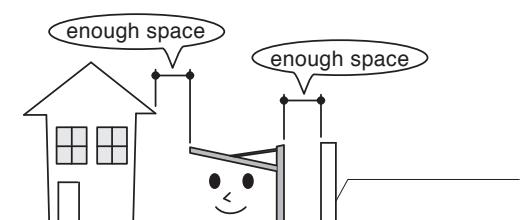
HZ1459-E

Thank you very much for choosing our company's Cantaport products.

Please be sure to thoroughly read these instructions for assembling the Cantaport product in conjunction with the engineering details. DIY or Authorised Cantaport installations must follow the manufacturer's assembly manual to avoid warranty cover. Please retain the manual for future reference and maintenance inspection.



- The Cantaport is a simple structure. Do not change or remodel it without gaining certification from Cantaport to avoid warranty or danger to public.
- The snow accumulation strength is 600N/m<sup>2</sup> (61.2kg/m<sup>2</sup>) which corresponds to 20cm of fresh snowfall (specific weight 0.3). Do not install in heavy snow area.
- Do not install it in the place where snow slides down from the building roof directly. There is a possibility that products are damaged by snow falling.
- When installing it besides wall, etc., keep enough clearance between the product and the wall due to avoid damage during strong winds. 100mm-200mm clearance.
- Do not install in locations subject to strong wind directly/constantly underneath the roof.



<b>HEAT REDUCTION POLYCARBONATE</b>	
<b>AO</b>	Blue Smoke
<input checked="" type="checkbox"/>	Blocks out 99% UV Rays
<input checked="" type="checkbox"/>	Reduces Heat by 83%
<input checked="" type="checkbox"/>	250 Times Stronger than glass
<input checked="" type="checkbox"/>	Allows 50% Filtered light
<input checked="" type="checkbox"/>	Solid Polycarbonate
<input checked="" type="checkbox"/>	Guaranteed to not crack*

\*Installed as per manufacturer's manual

- When installing, it is recommended to install the front frame facing towards the building to reduce the wind effect.
- When installing with side panel please be sure to install the support post.
- Positioning the posts so that they do not affect underground services (water supply, drain pipes, etc.).
- When moving the posts, please follow the manufacturer's specifications detailed in this manual.
- Install so that the exhaust of hot-water steam, heating fumes and/or car exhaust do not directly hit the surface of the supports and around the entire frame. This may cause discolouration of the surface structure.



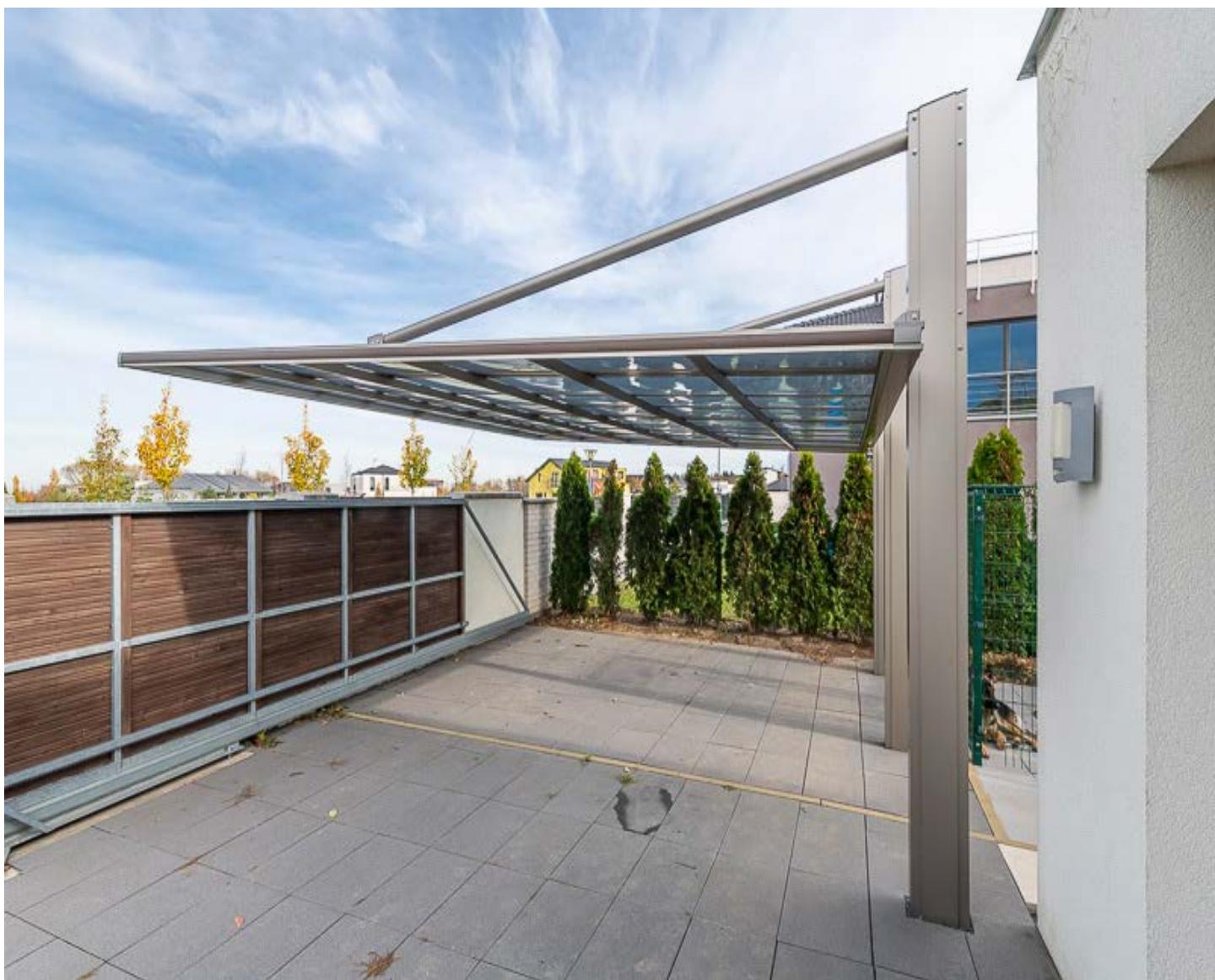
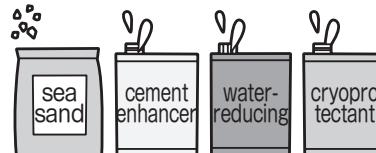
## Precautions during construction

- Follow the instructions and be sure that all the specified screws and bolts for assembly are tightened securely.
- Tighten the M8 bolts about 13Nm (130kgfcm) tightening torque.
- Do not use anything other than the specified parts or accessory parts.
- The foundation should comply with the certified engineering specifications page 4 .
- Allow sufficient curing time for the concrete and do not place heavy objects on it or subject it to vibrations during curing.
- Caution note below to prevent aluminum materials corrode.

(1) Do not use sea sand for the foundation since it contains

salt and may cause corrosion. Do not use a cement enhancer, water-reducing agent or cryoprotectant. They may cause the posts to corrode.

(2) Immediately wipe off any mortar or stains from the surface of the aluminum parts as they may cause corrosion.



## Necessary Tools and Materials for Installation

- Electric drill
- Ratchet wrench, Adjustable wrench
- Measure, Level, Plumb bob
- Concrete (Cement, Aggregate,etc)
- Silicon, Caulk gun, pallet
- Grinder
- Please prepare tools and materials as required

## COLOUR SELECTION

aluminium type

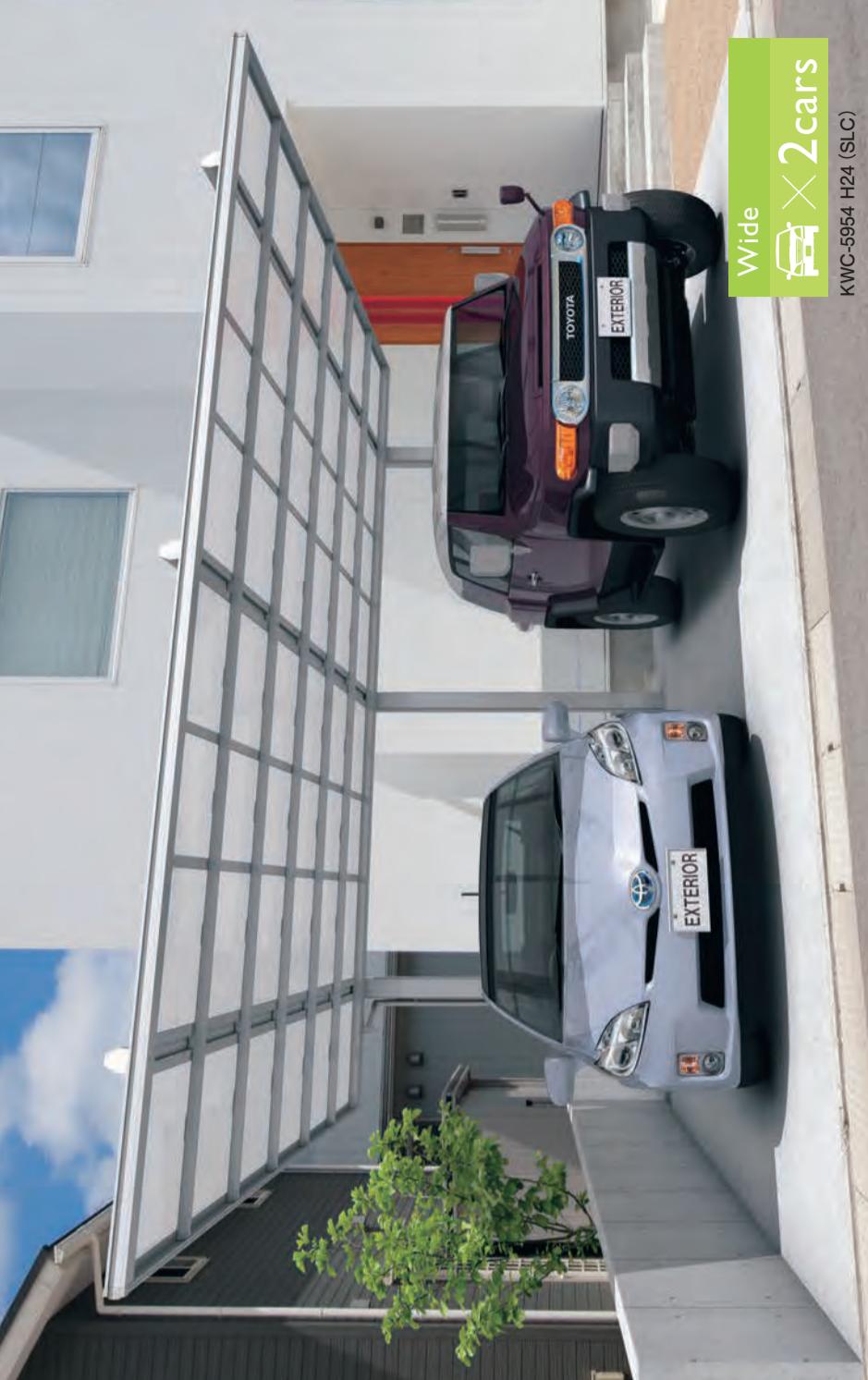
SLC  
Sun Silver

UC  
Urban Gray

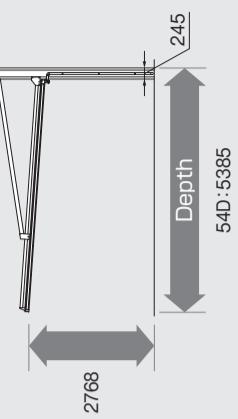
# KWC series

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

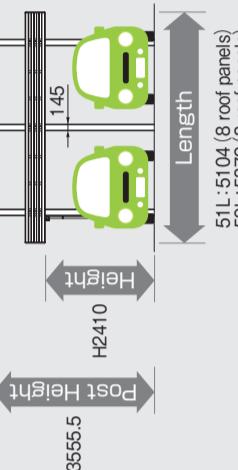
cantaport



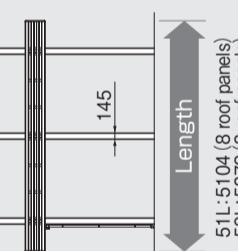
Size:mm



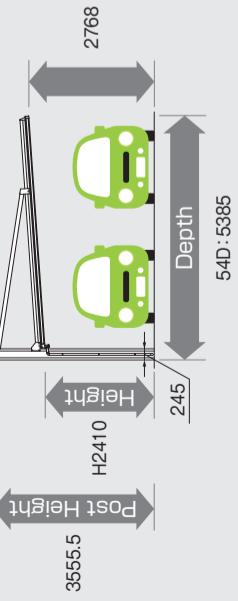
Rear post position (front frame > front wide)



Size:mm



Side Post position (side frame > front wide)



Front Frame

Side Frame

Wide  
× 2 cars

KWC-5154 H24 (TPU)

PIR

PfF

MLR

LF

VR/VRS

VD/VDS

RSC/RSZ

KWC

ATLD

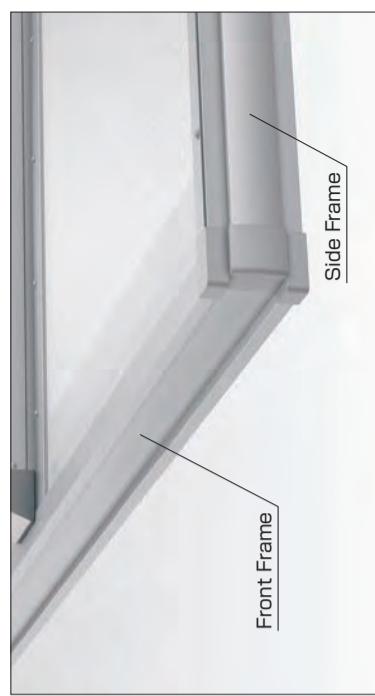
CSS

TVHL

19

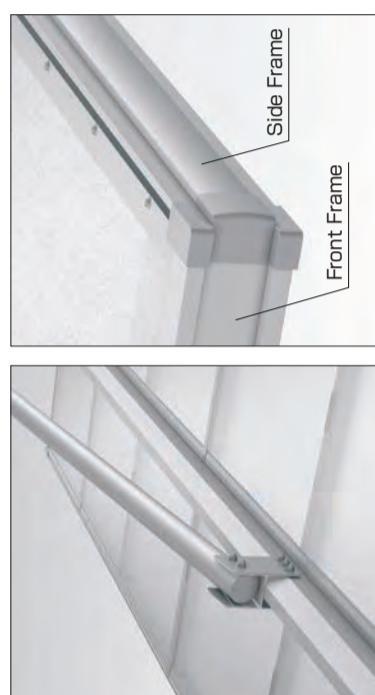
REAR POST POSITION (FRONT FRAME > FRONT WIDE)

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



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.**



aluminium type

SLC	UC	laminate type
Sun Silver	Urban Gray	

TP	SLC
Trad Pine	Sun Silver

TP	JC
Trad Pine	Orange Cherry

JCL	UC
	Urban Gray

JCU

TPU



STRENGTH

Wind pressure resistance  
**WIND 38**  
Snow load resistance  
**SNOW 600** N/m<sup>2</sup>

Snow load resistance

Wind pressure resistance

WIND 38

Snow load resistance

SNOW 600

N/m<sup>2</sup>

Wind pressure resistance

WIND 38

Snow load resistance

SNOW 600

N/m<sup>2</sup>

Wind pressure resistance

WIND 38

Snow load resistance

SNOW 600

N/m<sup>2</sup>

Wind pressure resistance

WIND 38

Snow load resistance

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Wind pressure resistance

WIND 38

Snow load resistance

SNOW 600

N/m<sup>2</sup>

Wind pressure resistance

WIND 38

Snow load resistance

SNOW 600

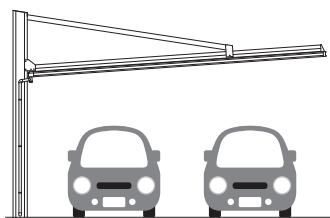
N/m<sup>2</sup>

Wind pressure resistance

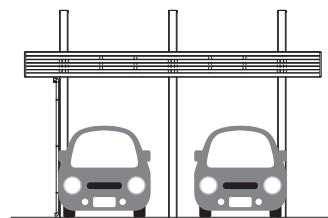
WIND 38

## Position of post

### Side post type



### Rear side post type



## STRENGTH

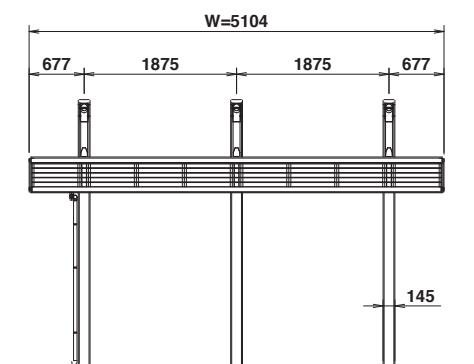
Snow load resistance  
**SNOW 600**  
N/m<sup>2</sup>

Wind pressure resistance  
**WIND 38**  
m/s

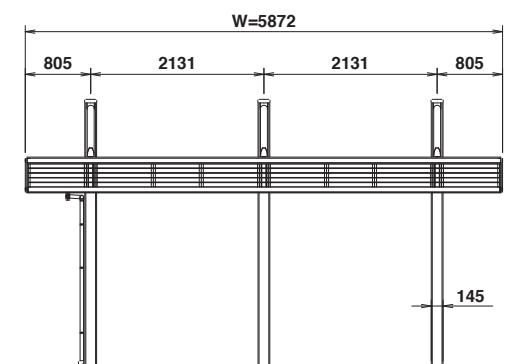
## Dimension, Position of Posts and Base Dimension

### Length direction

#### W51 size

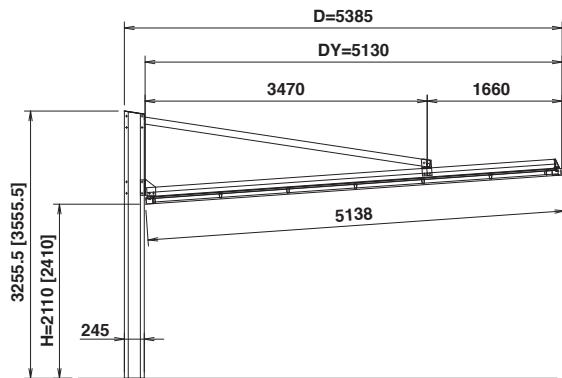


#### W59 size



### Depth direction

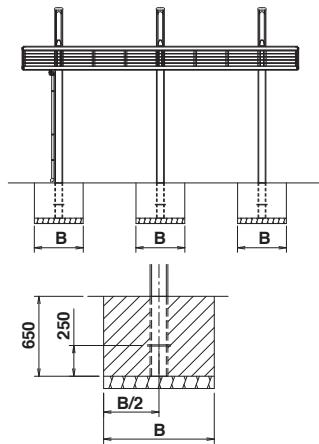
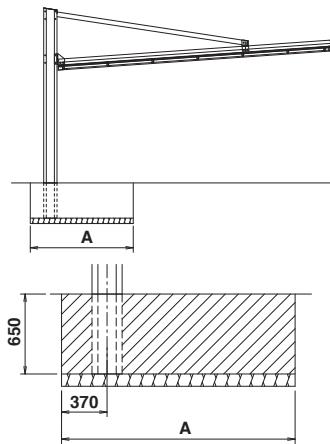
#### D54 size



\* [ ] dimension is H24 size.

### Base dimension

(Base dimensions are same for both concrete floor and solid floor.)



● In case of 100KN/m<sup>2</sup> Endurance strength of ground

Adimension	1900
Bdimension	900

● In case of 50KN/m<sup>2</sup> Endurance strength of ground

Adimension	2000
Bdimension	1000

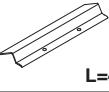
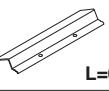
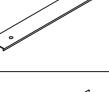
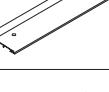
SEE ATTACHED ENGINEERING

## Parts Contents

- Please open the captioned carton and check all contents in advance.
- Please check the parts for or any damage.
- We packed some extra screw in the parts box. (x) number is necessary Q'ty for installation.

Parts ID	content		
	name	shape	quantity
post set <b>KWCH-20</b> <b>KWCH-23</b>	post		1
	arm fixing parts		1
	anchor GA4980		1
	post cap GB7090		1
	drilling screw 4x19x8		2
beam set <b>KWCT-54</b>	beam		1
arm set <b>KWCA-54-3</b>	arm		3
main frame set <b>KWCN-51-5</b> <b>KWCN-59-5</b>	main frame		5
front frame gutter set <b>KWCY-51</b> <b>KWCY-59</b>	front frame		1
	gutter		1
	pannel support		KWCY-51 24
			KWCY-59 6
			KWCY-51 0
			KWCY-59 18



Parts ID	content		
	name	shape	quantity
front frame gutter set <b>KWCY-51</b> <b>KWCY-59</b>	gutter attachment		KWCY-51 8
			KWCY-59 2
	round gutter GA4923		KWCY-51 0
			KWCY-59 6
depth set <b>KWCM-54</b>	side frame		Right Left each 1 pc
	roof retainer (end)		2
	roof rafter (beam side)		Right Left each 3 pc
	roof rafter (beam side)		Right Left each 3 pc
	roof rafter (middle)		4
	roof retainer (middle)		4
	roof panel set KWCY-△0651-2 KWCY-△0751-2	roof panel GB7192 (polycarbonate SI) GB3943 (heat protection polycarbonate) GB7107 (heat protection FRP DR SI)	2



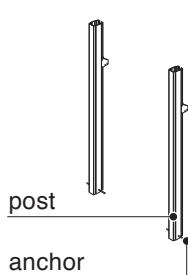
Parts ID	content		
	name	shape	quantity
parts box KWCB	beam cap GB7091		3
	front frame cap GB7092		Right Left each 1 pc
	gutter cap GB7093		Right Left each 1 pc
	beam fixing parts GB7094		3
	arm fixing parts GB7095		3
	front frame • gutter fixing parts GB7096		6
	main frame fixing parts GB7097		15
	arm cap GB7098		3
	gutter fixing parts GB7099		3
	hexagon bolt M10x25		36
	hexagon bolt M10x120		27
	hexagon bolt M10x150		6
	washer 10		102
	spring washer 10		96
	cap nut M10		27
	hexagon nut M10		6
	small truss screw 5x12x10		60 (57)

Parts ID	content		
	name	shape	quantity
parts box KWCB	drilling screw 4x10x8		143 (138)
	small truss screw 4x10x7		344 (336) ES0243
	small truss screw 4x15x7		38 (36) ES0243
	tapping screw 4x20x7		57 (54)
	drilling screw 4x19x8		17 (15)
	roof panel cushion GA8844		42 (40)
	gutter attachment GA4929		1
	gasket GA4930		1
	elbow GA4932		2
	drain elbow GA6461		1
	saddle GA4933		3
	glue GA4934		1
	snow label HY0048		1
	caution label GLZ20C		1
	instruction manual GD-Z99A <small>notice be sure to return to the owner</small>		1
	assembly manual HZ1459		1



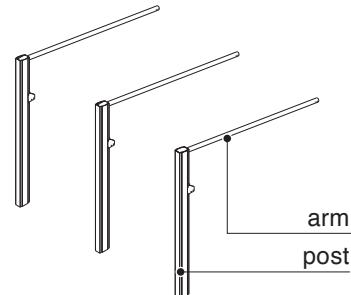
## Installation Procedure

**1** Installation of the post



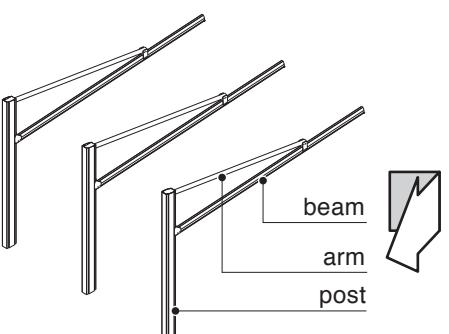
P.7

**2** Installation of the arm



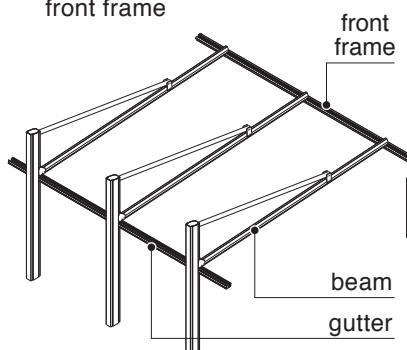
P.7

**3** Installation of beam



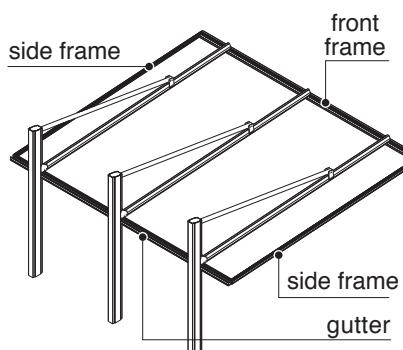
P.8

**4** Installation of the gutter · front frame



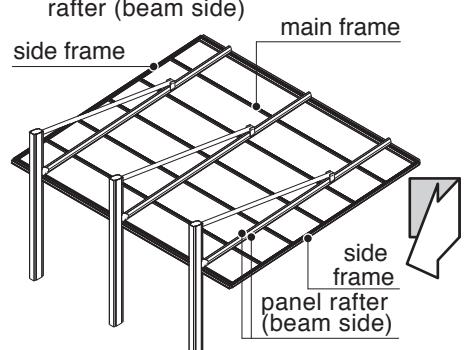
P.9

**5** Installation of the side frame



P.9

**6** Installation of main frame / roof rafter (beam side)

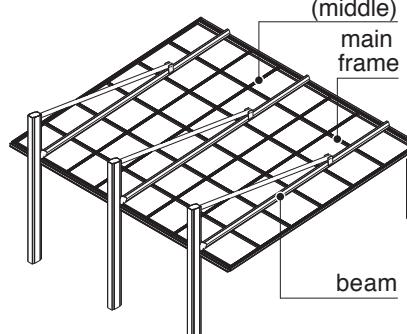


P.10

**7** Installation of the roof rafter

roof rafter (middle)

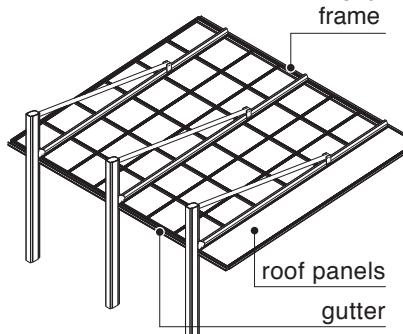
main frame



P.11

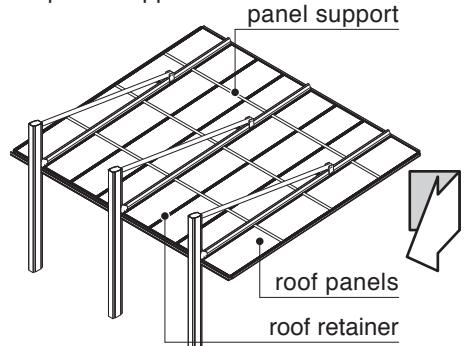
**8** Installation of the roof panels

front frame



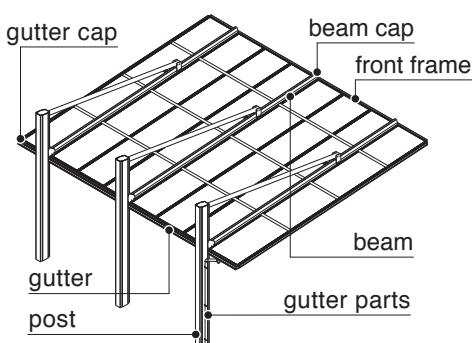
P.12

**9** Installation of roof retainer / panel support



P.13

**10** Attaching the caps / round gutter parts

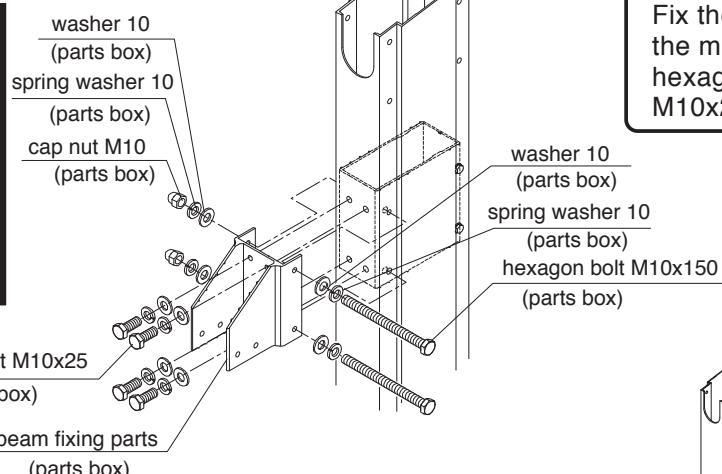
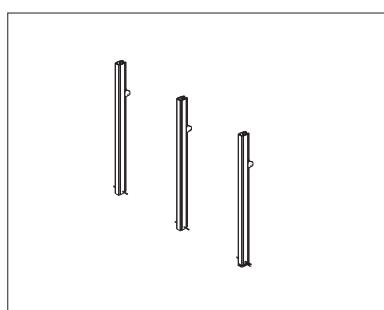


P.14



## Installation procedure

### 1 Installation of the post

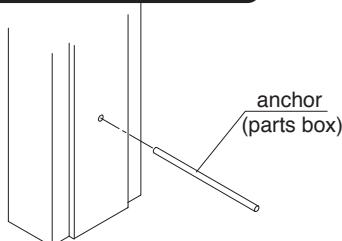


#### step1

Fix the beam fixing parts in the middle of post with hexagon bolts M10x150 and M10x25.

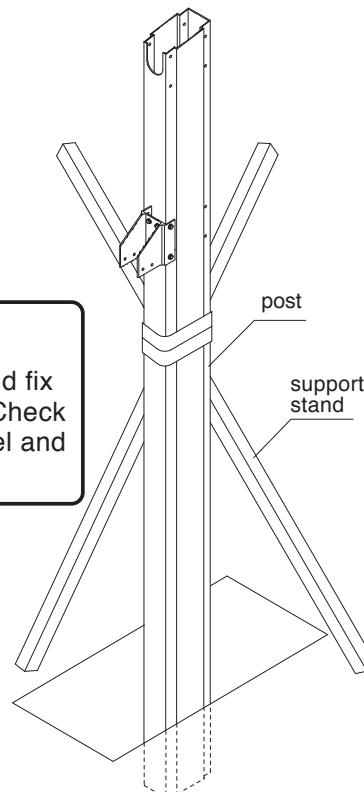
#### step2

Insert the anchor rod into the post hole.

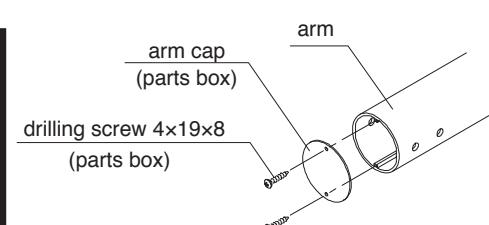
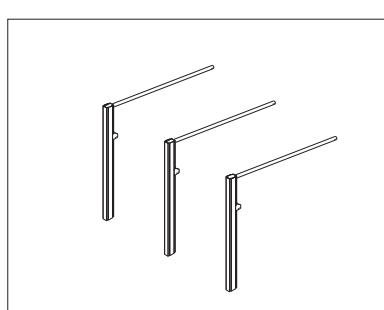


#### step3

Insert post into the base hole and fix with support stand for support. Check if it is flat and vertical with a level and cast concrete.

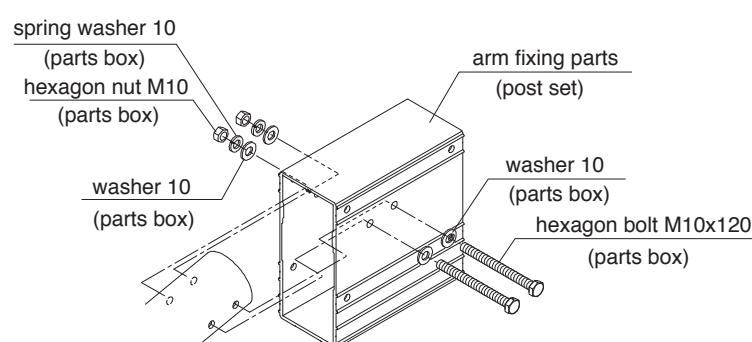


### 2 Installation of arm



#### step1

Attach the arm cap to the beam side of arm with drilling screw 4x19x8.

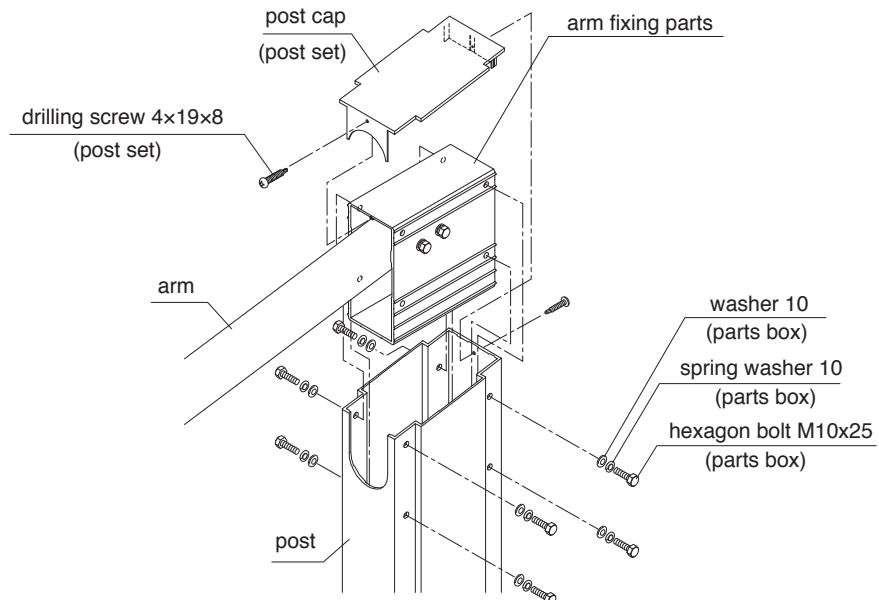


#### step2

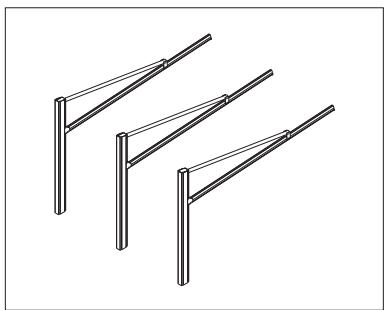
Fix the arm fixing parts to the arm with hexagon bolts M10x120.

**step3**

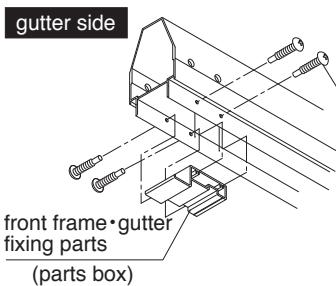
Insert the arm fixing part into the post and fix it with hexagon bolts M10x25.

**step4**

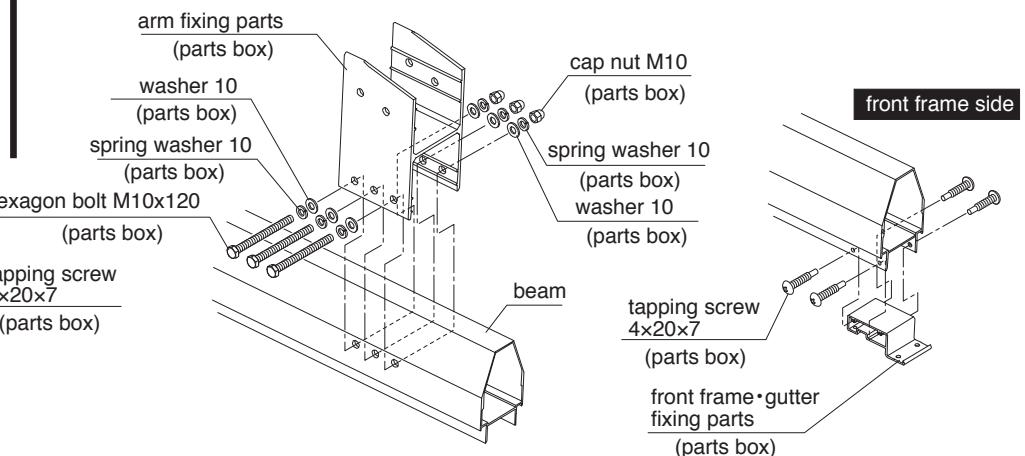
Attach the post cap to the post with drilling screw 4x19x8.

**3 Installation of beam**

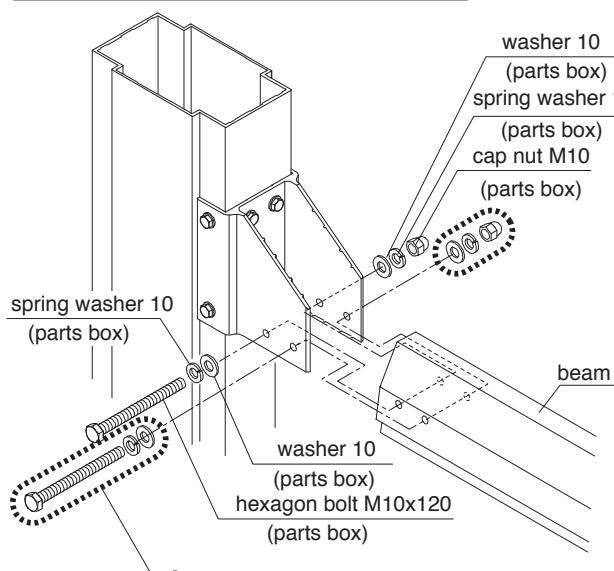
**step1** Attach the arm fixing parts to the beam with hexagon bolts M10x120.



**step2** Attach the front frame-gutter fixing parts to the beam with tapping screws 4x20x7.

**step3**

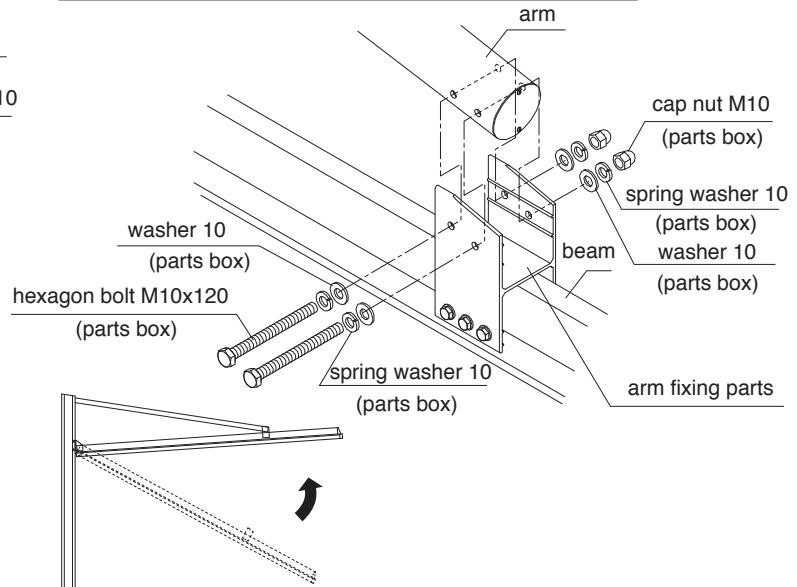
Fix the beam to the beam fixing parts with hexagon bolt M10x120.



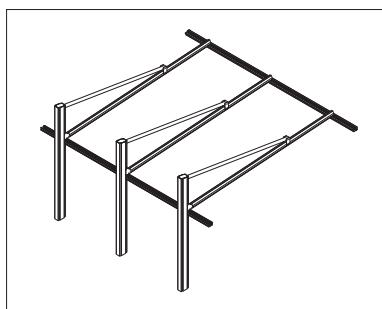
\* After step4, fix this hexagon bolt.

**step4**

Lift up the end of beam and fix the arm to the arm fixing parts with hexagon bolt M10x120.



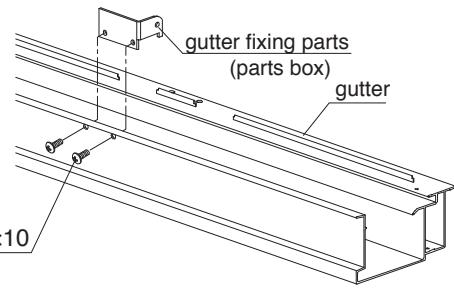
## 4 Installation of gutter·front frame



### step1

Attach the gutter fixing part to the gutter with small truss screw 5x12x10.

small truss screw 5x12x10  
(parts box)



### step2

Hook the front frame to the front frame·gutter fixing parts, fix with truss screw 5x12x10. Fix the gutter as the same way.

beam

front frame·gutter  
fixing parts  
(parts box)

Hook

front frame

small truss screw 5x12x10  
(parts box)

post

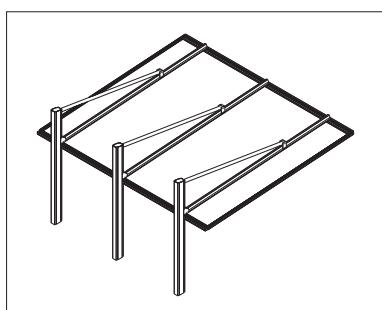
front frame·gutter  
fixing parts  
(parts box)

Hook

gutter

small truss screw 5x12x10  
(parts box)

## 5 Installation of side frame



drilling screw 4x10x8  
(parts box)

side frame

gutter

### step3

Attach the front frame caps to the front frame with drilling screw 4x10x8.

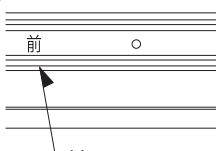
\*When fixing, make a  $\phi 3$  hole adjusting the cap.

### step1

Fix the side frame to the front frame and gutter with grilling screws 4x10x8.



\*Side frame has the direction.



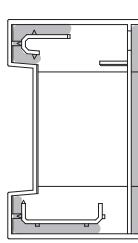
front frame side

前 mark is the front frame side.

front frame

### step2

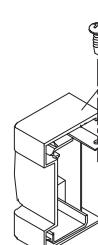
Do sealing work to the front frame caps.



indicates sealing part

drilling screw 4x10x8  
(parts box)

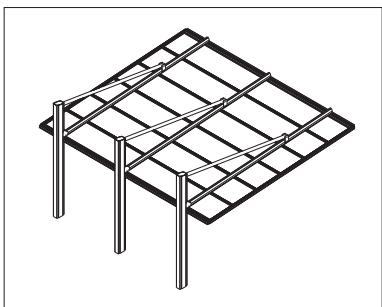
front frame cap  
(parts box)



$\phi 3$  hole  
(on site)

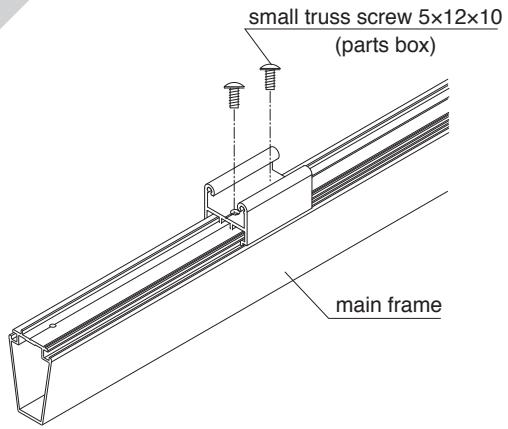
front frame

## 6 Installation of main frame / panel rafter (beam side)



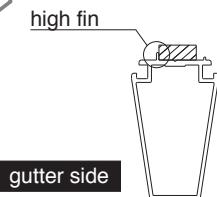
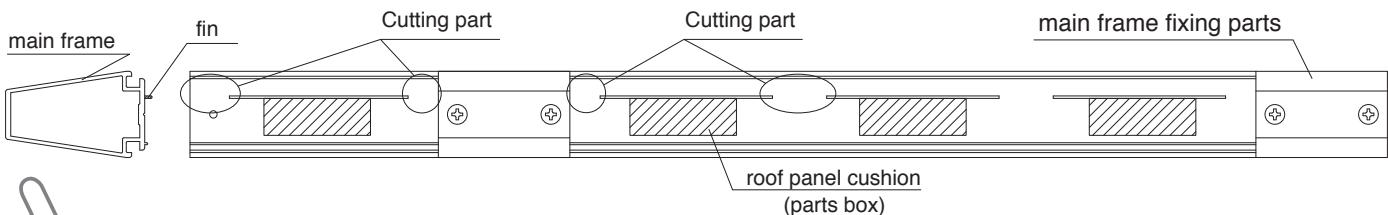
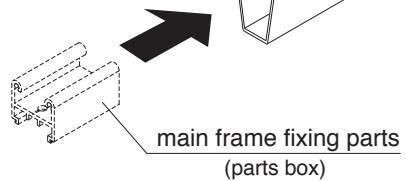
### step1

Insert 3 main frame fixing parts into the main frame, and fix it with small truss screws  $5 \times 12 \times 10$ .



### step2

Attach the roof panel cushions on the main frame in the center of cuttings.

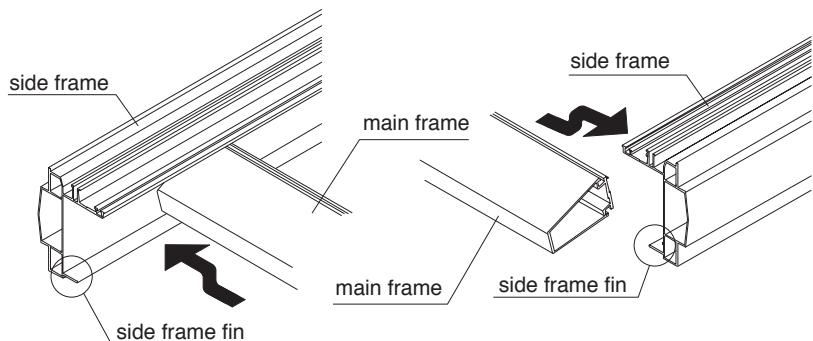


- \*Install as the high fin is gutter side.
- \*When attaching the roof panel cushion, press firmly by hand and confirm not to be comes off.
- \*Attach the roof panel cushion on the high fin side.

gutter side      front frame side

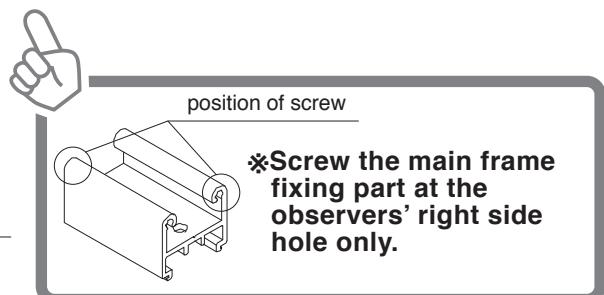
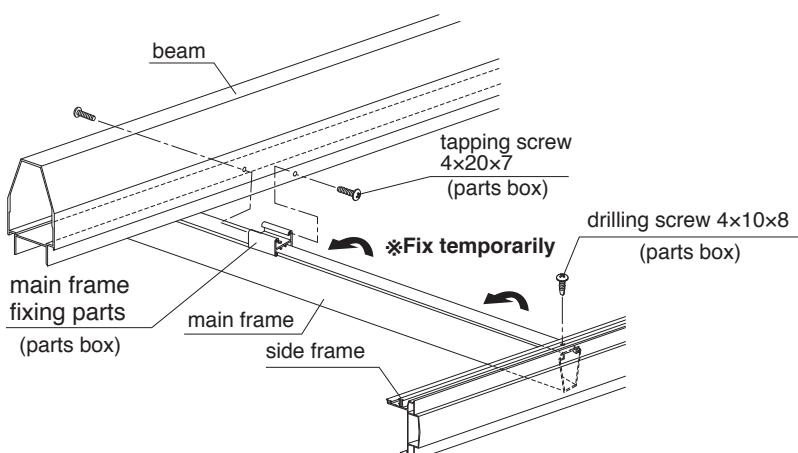
### step3

Set the sideways main frame temporarily on the right and left side frame fin.



### step4

Turn and raise the main frame as the main frame fixing parts set into the gutter of beam, and fix the main frame fixing parts to the beam temporarily with tapping screws  $4 \times 20 \times 7$ .



### step5

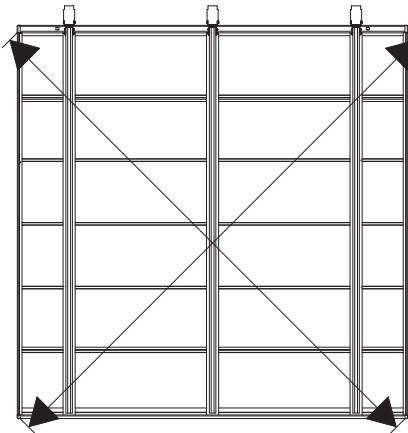
Fix the main frame to the side frame with drilling screw  $4 \times 10 \times 8$ .

### step6

Before installing roof rafters (beam side), check the diagonal dimension of roof.



\* In case diagonal dimension are not equal, loose up screws at front, gutter, main and side frame and then adjust them one more time.

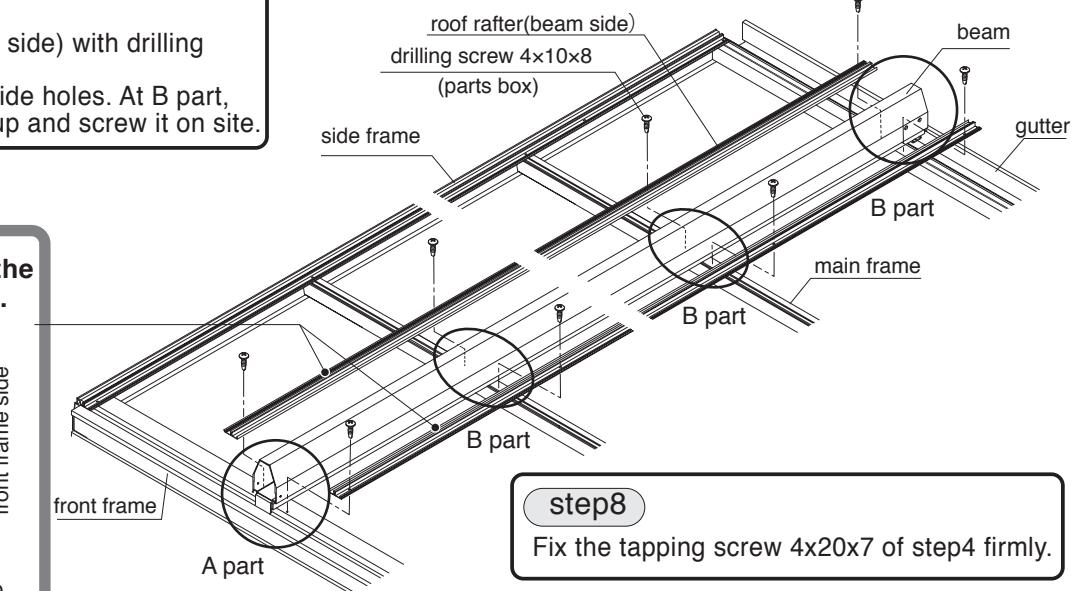
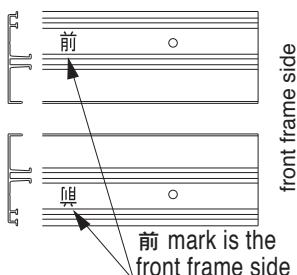


### step7

Fix the panel rafters (beam side) with drilling screws  $4 \times 10 \times 8$ . At A part, screw it to the guide holes. At B part, following U-shaped gutter up and screw it on site.

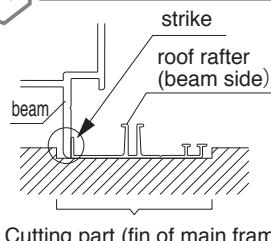


\*The roof rafter has the front-back direction.

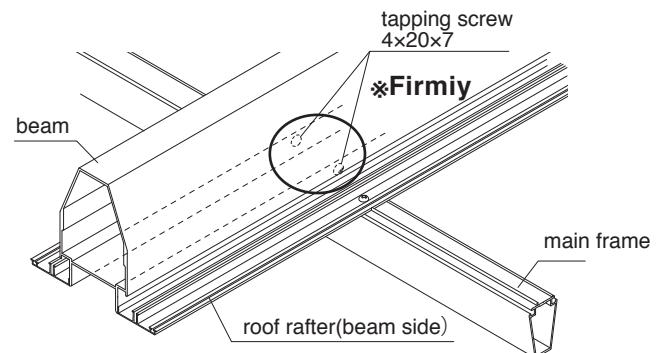


### step8

Fix the tapping screw  $4 \times 20 \times 7$  of step4 firmly.

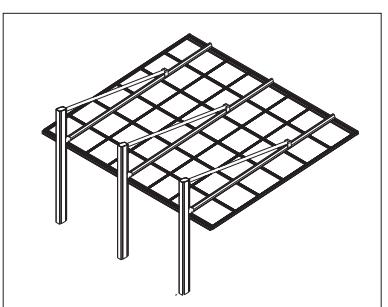


\*Install it not to have a clearance between beam and roof rafter (beam side).  
\*Install as the roof rafter (beam side) fit into the cutting fin part of front frame, gutter and main frame.



## 7

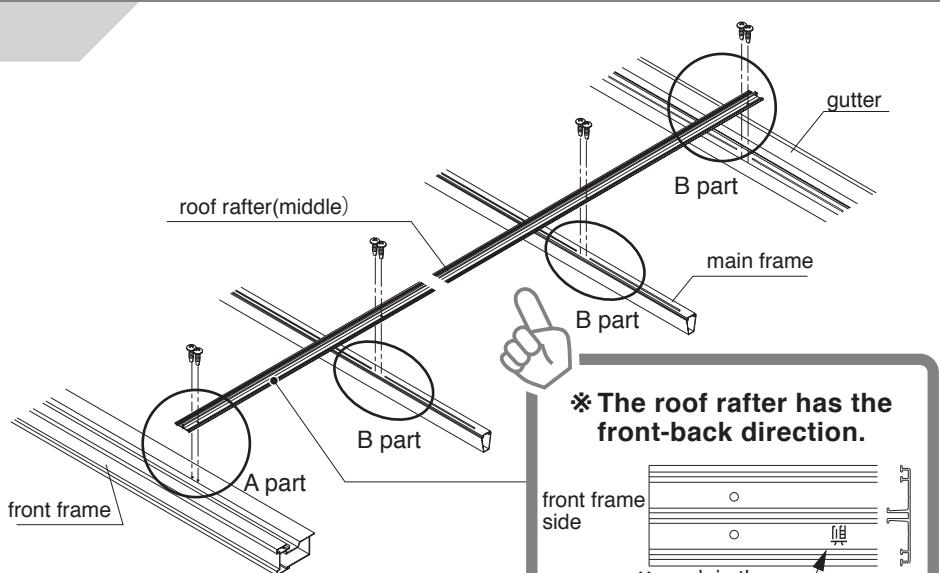
### Installation of roof rafter



### step1

Fix roof rafter (middle) to the guide hole of the gutter with drilling screws  $4 \times 10 \times 8$ .

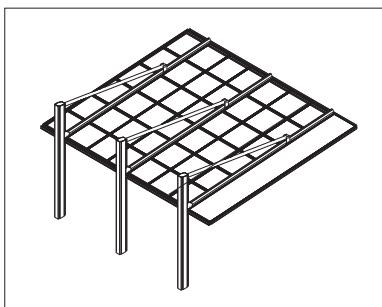
At A part, screw it to guide hole . At B part, following U-shaped gutter up and screw it on site .



\* The roof rafter has the front-back direction.

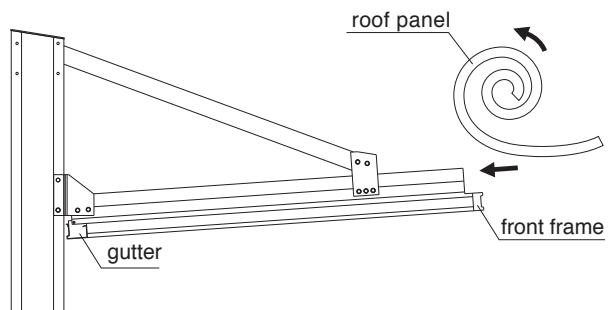


## 8 Installation of roof panels



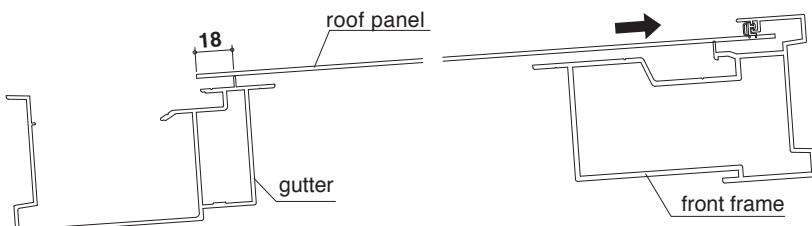
### step1

Peel off the protective sheet, and put the rolled roof panel on the roof rafter. Spread it from front frame side to the gutter side.



### step2

Insert the panel into the front frame.

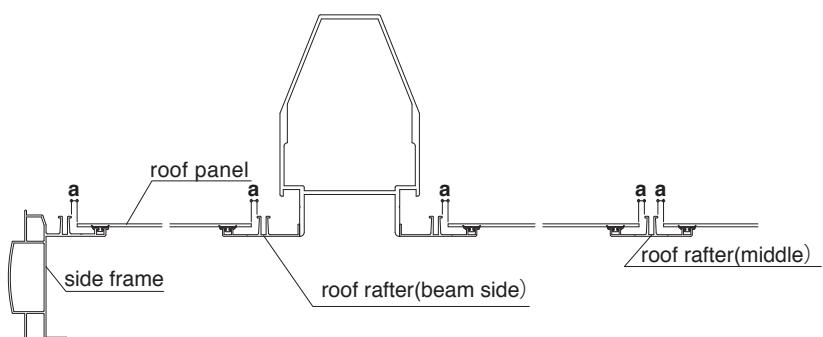


### step3

Adjust the position of roof panel end at 18mm from the fin of the gutter.  
Also sort the roof panel right and left equally.



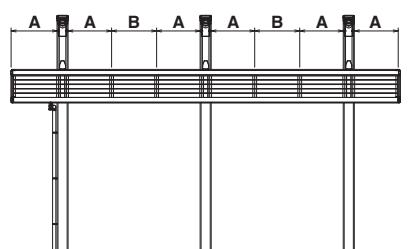
\*Install the roof panel starting from the side frame. After fixing the first roof panel (fixing the roof retainer and panel support), install the second roof panel.



\* For W51 size the roof panel width is one size 575mm.  
For W59 size the roof panel width is two size 575 and 703mm.

The position of the roof panel indicate right figure.

	A	B
W51 size	575	575
W59 size	703	575



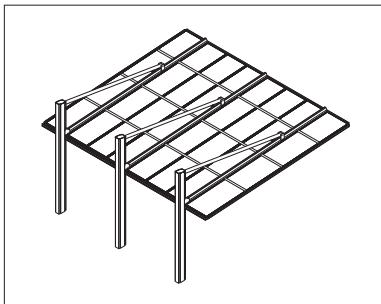
### note

When using the polycarbonate mat (SI) and heat protection FRP, attach the unevenness side down.  
Otherwise the panel color may discolour by sunlight.



## 9

## Installation of roof retainer / panel support



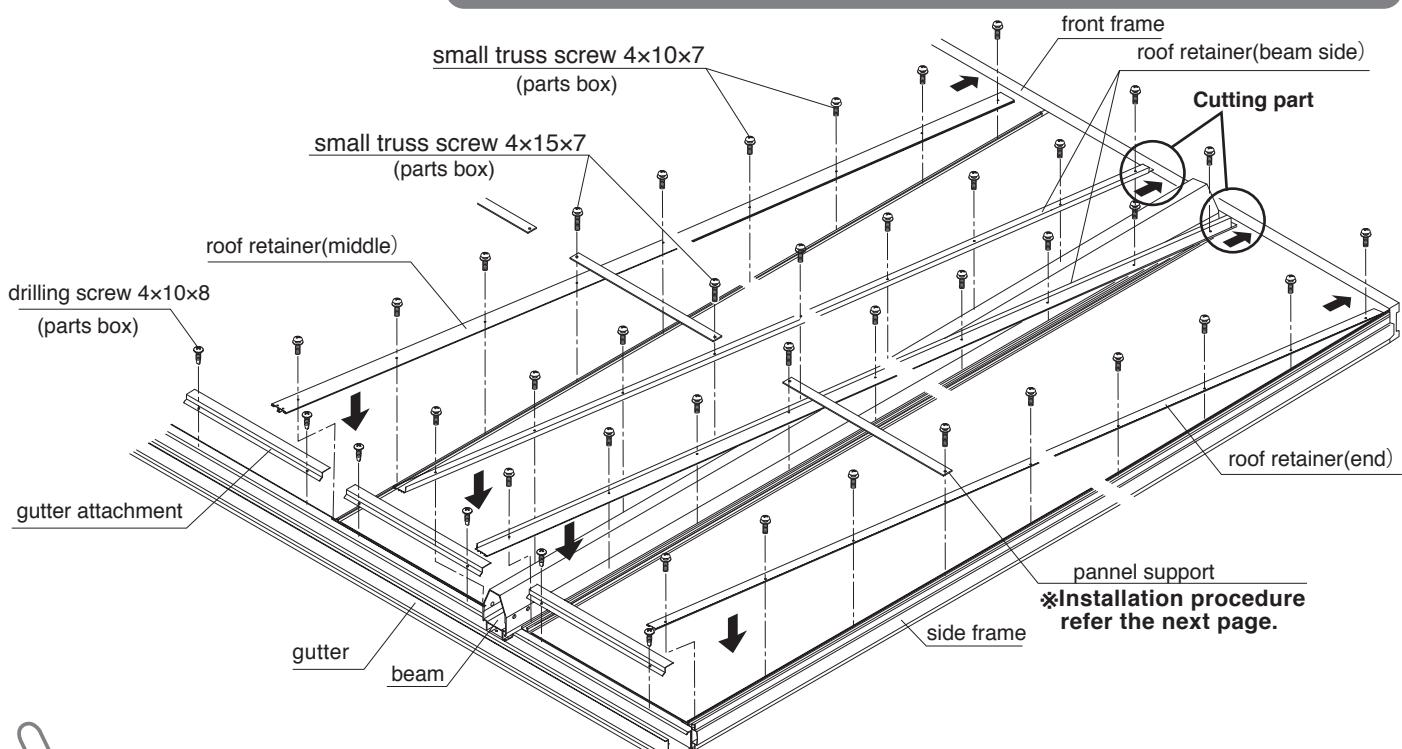
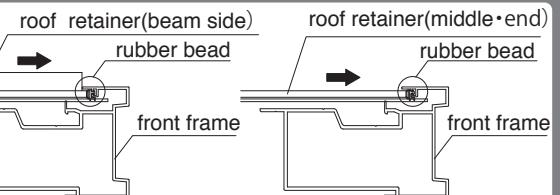
## step1

Fix the each roof retainer (end, beam side, middle) with small truss screw (washer) 4x10x7. At the same time install the panel support with small truss screw (washer) 4x15x7.

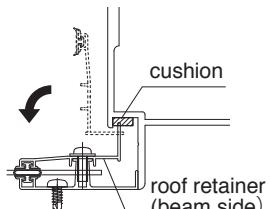
\*Cutting part of the roof retainer (beam side) is front frame side.



**Strike the roof retainer end to the rubber bead of front frame.**



**Turn and set the roof retainer (beam side), and strike the fin to the cushion.**



## note

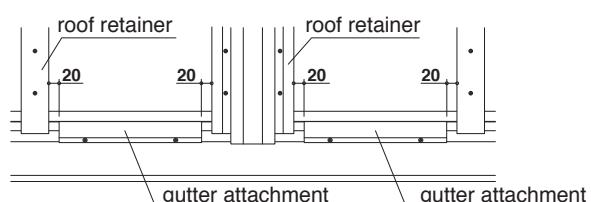
- If the screws of retainer tighten too much, the screw will run idle. (tightening torque less than 15kgf.cm)
- If the screw head leans when installing the retainer, it will cause water leakage (water will enter from the screw head clearance), So install it not to making clearance.

## step2

Fix the gutter attachment with drilling screw 4x10x8 guiding the U-shaped gutter.



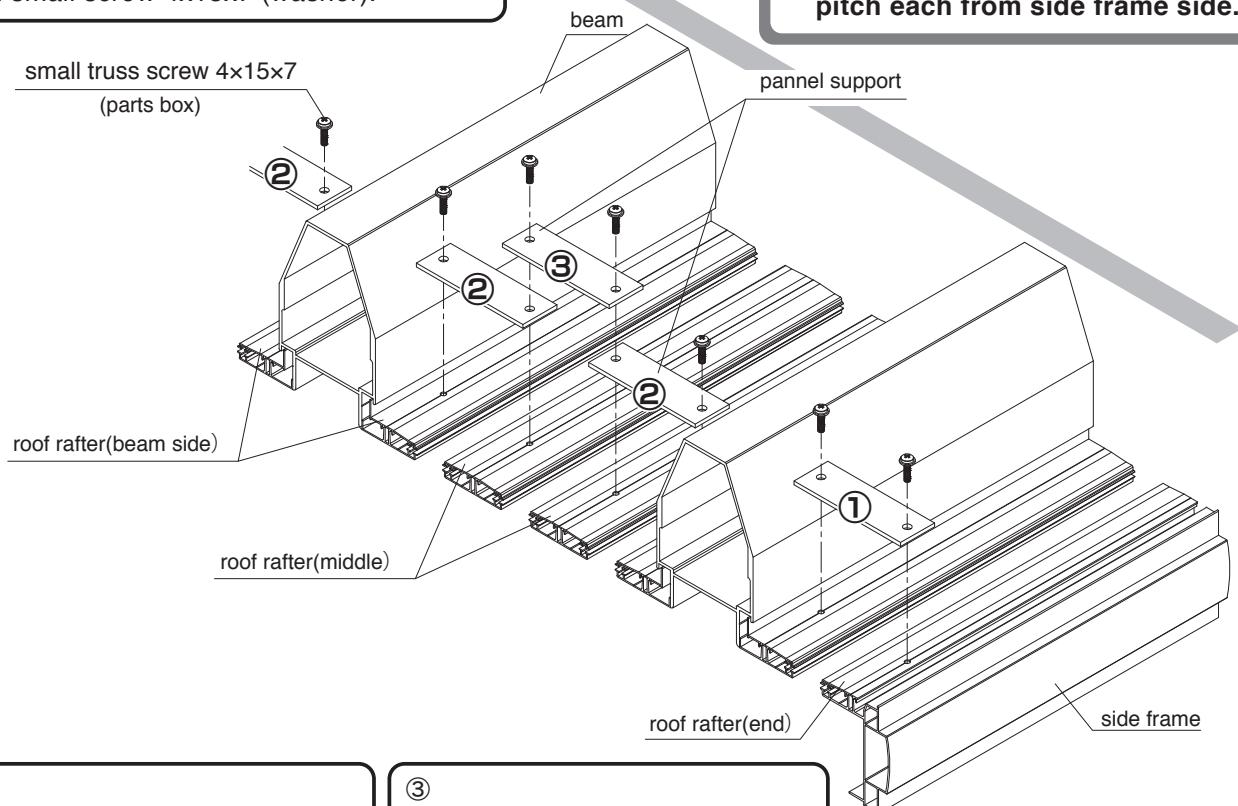
\*Install the gutter attachment at 20mm from the roof retainer.  
\*For W51 size the gutter attachment length is one size 497mm. For W59 size the length are two size 497, 625mm.



## Installation procedure of panel support

- ① Fix the panel support to the roof retainer (end) and roof retainer (beam side) with small screw 4x15x7 (washer).

\*Install the panel support at the same time installing the roof panel and roof retainer by one pitch each from side frame side.



②

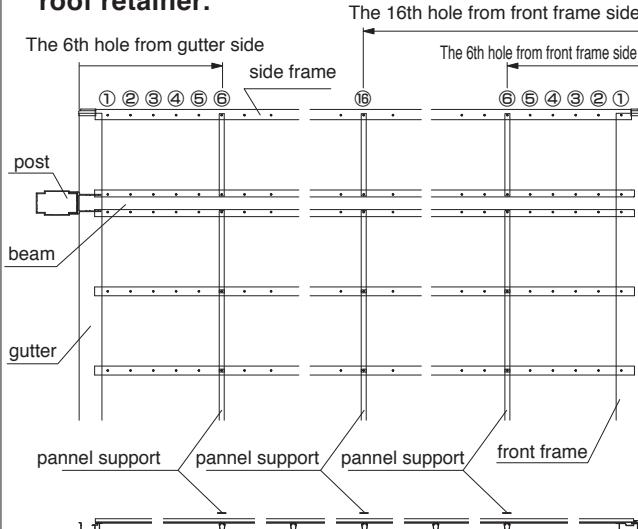
Screw the one side end of panel support (beam side) on beam side with small screw 4x15x7(washer).

③

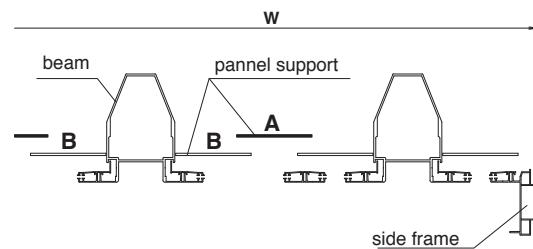
Overlap the ends of panel supports on the panel retainer (middle), and fix them through the small screw 4x15x7(washer).



\* The position of panel support is the 6th and 16th hole on the roof retainer from front frame side and the 6th hole from gutter side on the roof retainer.

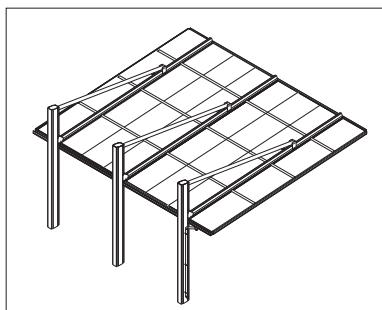


\* The length of panel support is one size for W51 size and two size for W59 size.



	W51	W59
A	608mm	608mm
B	608mm	736mm

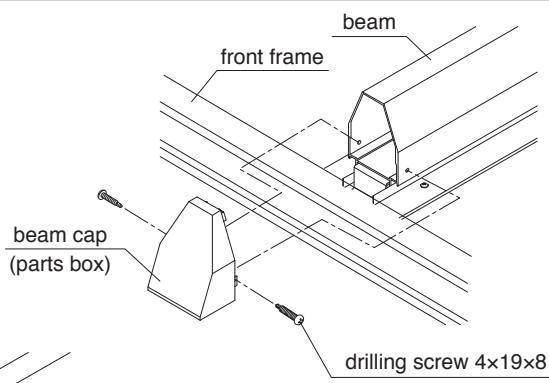
## 10 Attaching the caps and round gutter parts



### ■Attaching the beam caps

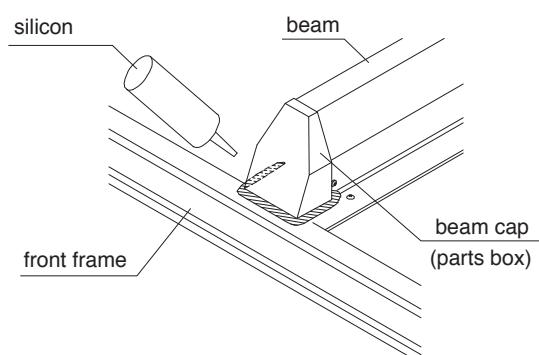
#### step1

Attach the beam cap with drilling screw 4x19x8.



#### step2

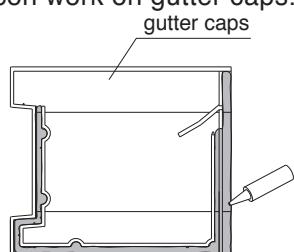
Do silicon work to the connecting part between beam cap and front frame as right figure.



### ■Attaching the gutter caps

#### step1

Do silicon work on gutter caps.



indicates the silicon part

#### step2

Fix the gutter cap with drilling screw 4x10x8.

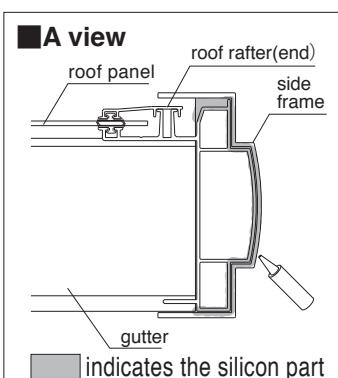
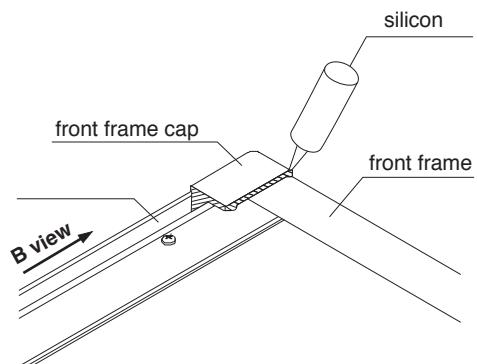
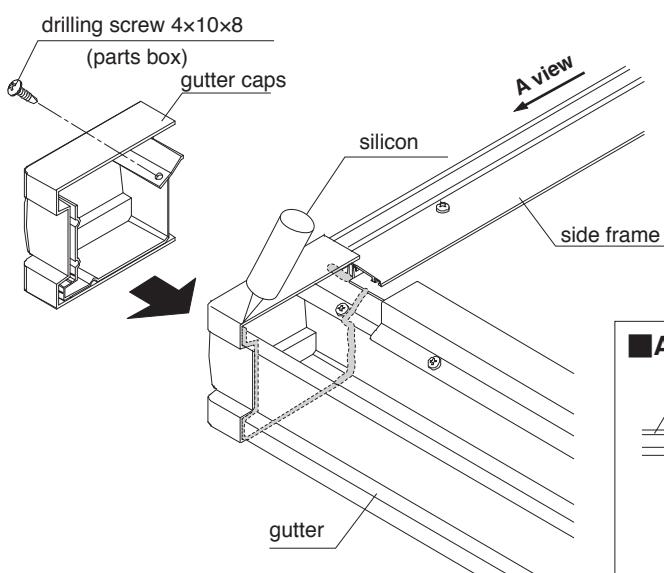
\*Before screwing, make a  $\phi 3$  hole adjusting the hole of cap.

#### step3

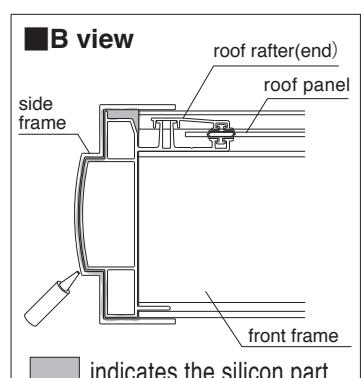
Do silicon work on the connecting part between gutter caps, gutter and side frame.

#### step4

Do silicon work on the connecting part between front frame caps, front frame and side frame.



indicates the silicon part

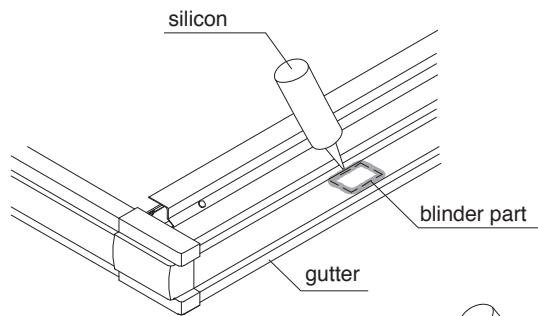


indicates the silicon part

## ■Attaching round gutter parts

### step1

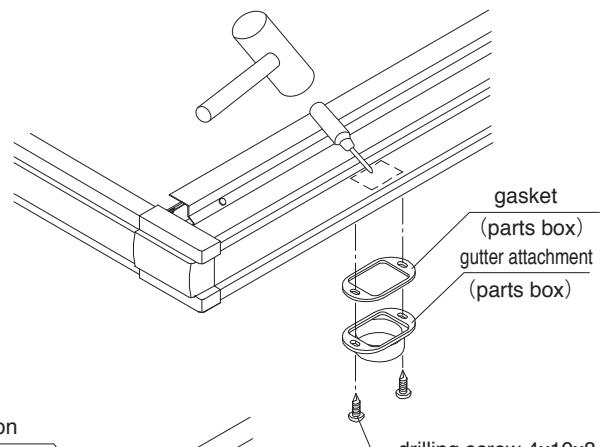
Do silicon work all around blinder side not to install rain gutter.



### step2

Use with wood hammer and driver only at the place for installing gasket.

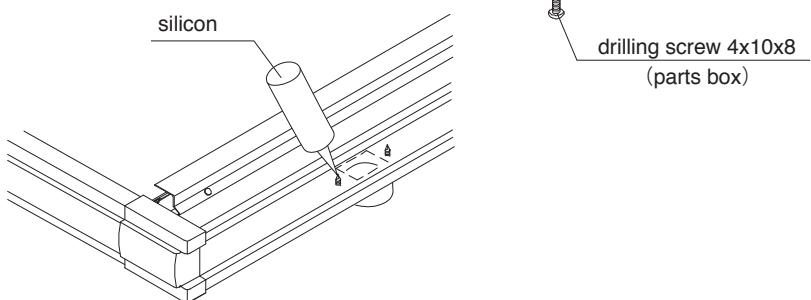
**\*In case it could not pop out, use electric drill.**



### step3

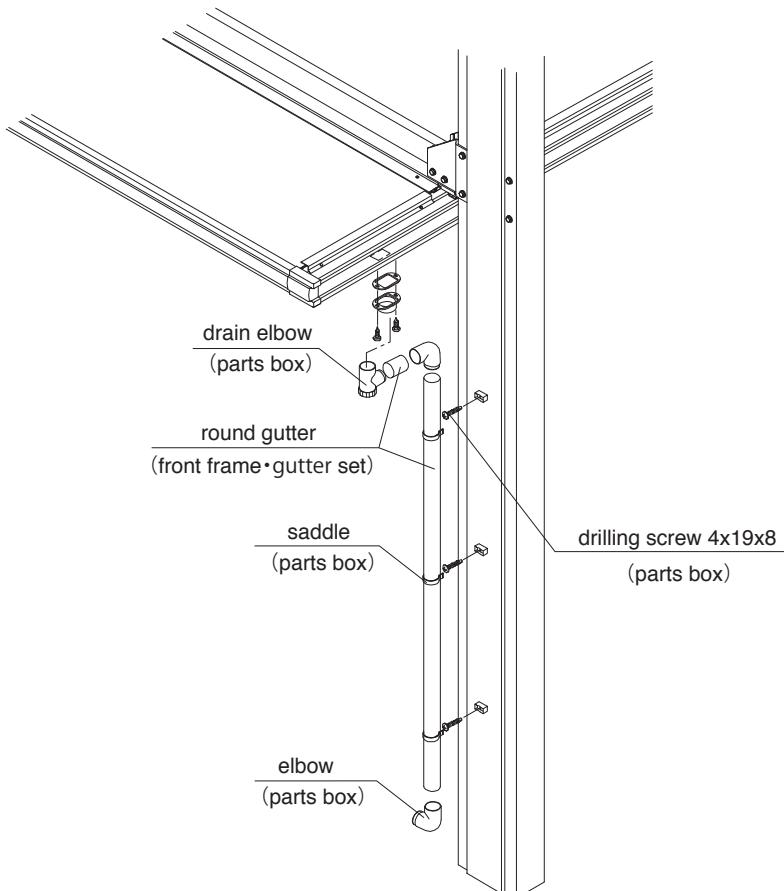
Screw the gasket on the gutter and do silicon work at the screw part.

**\*Be sure to do silicon work around screws in order to prevent danger when cleaning as well as for water proof.**



### step4

Screw the saddle and attach the rain gutter parts with the glue.





**CANTAPORT - KWC SERIES (KWC 5954  
- KWC 5154)**

**CANTAPORT SHADING SYSTEMS KOW SERIES**  
**(Wind Region A, Terrain Category 2,3 & 4)**

**NOTE:**  
 - IT IS THE RESPONSIBILITY OF BUILDER TO NOTIFY THE OWNER THAT  
 NO LIVE POINT LOADING IS ALLOWED ON P1 PURFLIN.  
 - COLUMNS ARE NOT DESIGNED FOR VEHICLE IMPACT LOAD.  
 - THESE DETAILS ARE DESIGNED FOR THE SITE ADDRESS SHOWN  
 IN THE TITLE BLOCK BELOW ONLY

**1. DESIGN CRITERIA**

- WIND REGION A. TERRAIN CATEGORY 2,3 OR 4. IMPORTANCE LEVEL 1.  $V_r = 41 \text{ m/s}$
- CLASS A,S, M OR H SITES TO AS2870. MINIMUM ALLOWABLE SOIL BEARING CAPACITY 100 kPa.
- DEAD LOAD DEFLECTIONS LIMITED TO SPAN/180 FOR RAFTERS AND SPAN/180 FOR PURFLINS.
- ROOF CLADDING TO BE FIXED TO MANUFACTURER'S SPECIFICATIONS.
- FLASHINGS AND GUTTERS TO BE FIXED TO BUILDER'S DETAILS.
- TOTAL DEAD LOAD 0.1 kPa. LIVE LOAD 25 kPa. POINT LOADS NOT RECOMMENDED.
- CANOPY MUST NOT BE BLOCKED UNDER BY MORE THAN 2/3 OF THE CANOPY HEIGHT.
- SNOW LOAD IS NOT CONSIDERED IN THIS DESIGN. PLEASE REFER BACK TO THIS OFFICE IF SNOW LOAD MUST BE CONSIDERED.
- MAX ROOF PITCH - 5°

**2. CONCRETE**

- CONCRETE MINIMUM N20/20/80 IN ACCORDANCE WITH AS3600. POUR IN SITU.

**3. FABRICATION AND ERECTION**

- ALL STEEL WORK TO AS4100.
- ALL ALUMINIUM WORK TO AS1664.
- REPAIR ALL WELDS WITH COLD GALVANIZING PAINT.
- SEAL ALL OPEN ENDS OF HOLLOW SECTIONS.
- ALL STEEL AND ALUMINIUM WORK COATINGS TO SUIT EXPOSURE CLASSIFICATION.
- ALL WORK GENERALLY TO BUILDING CODE OF AUSTRALIA AND ALL RELEVANT BUILDING STANDARDS AND CODES.
- ALL SCREWS SIZES AS PER DETAILS. (COATING TO SUIT EXPOSURE CLASSIFICATION)
- ALL STEELWORK (INCLUDING FASTENERS) TO BE TREATED IN ACCORDANCE WITH CLAUSE 3.4.4.4."
- CORROSION PROTECTION" OF THE NATIONAL CONSTRUCTION CODE.
- ALL DISSIMILAR METALS TO BE ISOLATED WITH LOAD-BEARING PLASTIC WASHERS, SPACERS AND SLEEVES TO BUILDER'S DETAIL.

**4. THIS DETAIL IS ONLY RELEVANT FOR PROJECTS WHICH MATCH THE ARRANGEMENTS SHOWN.**  
IT IS THE BUILDER'S RESPONSIBILITY TO ENSURE THAT ANY MANUFACTURER SPECIFIC REQUIREMENTS ARE MET.

**5. STRUCTERRE CONSULTING GROUP TAKES NO RESPONSIBILITY FOR THE STRUCTURAL INTEGRITY OR THE IN-SERVICE PERFORMANCE OF THIS STRUCTURE UNLESS WE ARE INVITED TO CARRY OUT AN AS-CONSTRUCTED INSPECTION OF THE BUILT STRUCTURE AND PROVIDE CERTIFICATION THAT IT HAS BEEN BUILT IN ACCORDANCE WITH THIS SPECIFICATION.**

**PLAN VIEW**

P1 CONTINUOUS SPAN AT 855mm CRS MAX TYPICAL - CONNECT TO EACH B1 WITH 4/N#8 TEKS MIN (TYP)  
ALL CLADDINGS AND CLADDING CONNECTIONS TO MANUFACTURER SPECIFICATIONS

**SIDE ELEVATION**

REV	BY	ISSUE / REVISION DESCRIPTION	DATE	DRAWN	PROJECT No.
0	RUW	ISSUE	23/11/15	DESIGNED SHARNA WHITE	STRUCTERRE CONSULTING ENGINEERS (VIC) Pty Ltd (ABN 32 155 111 957)
				REVIEWED RUSSELL WHITE	GROUND FLOOR, BUILDING 2, 630 MITCHAM ROAD, MITCHAM VIC 3132
				DATE BRIAN NASR	TEL (03) 9888 4598 FAX (03) 9888 4511 EMAIL: melbourne@structerre.com.au
				APPROVED BY:	



