

Cantaport made in Japan certified to AU standards

PJF-series inline connection manual

HZ1699-E

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

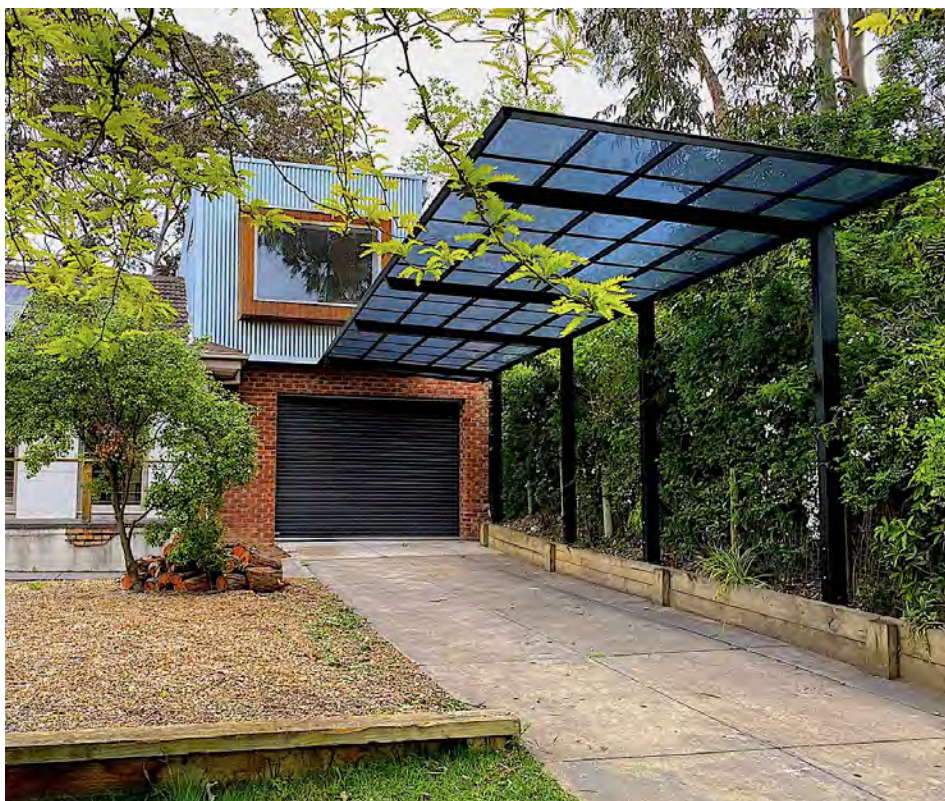
Please be sure to thoroughly read these instructions for assembling the Cantaport product in conjunction with the engineering details. DIY or Authorised Cantaport installations must follow the manufactures assembling manual to avoid warranty cover.

Please retain the manual for future reference and maintenance inspection.

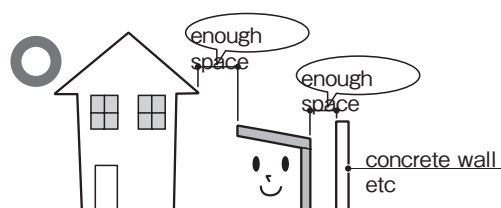
Precautions during construction

TO BE READ INCONJUNCTION WITH THE PJF SINGLE INSTALLATION MANUAL.

✓	Structural Aluminum Frame
✓	Anodized Surface Finish
✓	Certified to 147KM wind rating
✓	Integrated Built in Gutter & Down Pipe attachment
✓	Resilient, Compact, Weatherproof Corrosion & Termite free, long lasting
✓	D.I.Y Kits, Pre Cut, Pre Drilled, Flat Pack including all fixings
✓	Manufactured in Japan & Certified to AU/NZ and International Standards



- ☐ 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/m² (61.2kg/m²) 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.



HEAT REDUCTION POLYCARBONATE

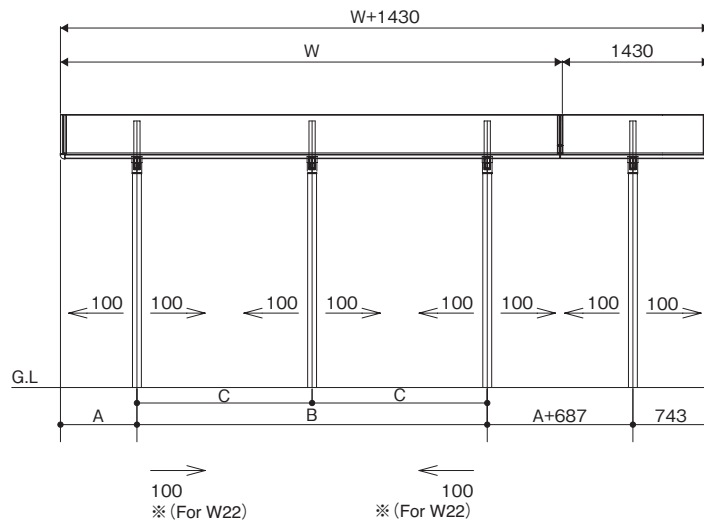
AO	Blue Smoke
✓	Blocks out 99% UV Rays
✓	Reduces Heat by 83%
✓	250 Times Stronger than glass
✓	Allows 50% Filtered light
✓	Solid Polycarbonate
✓	Guaranteed to not crack* <small>*Installed as per manufactures manual</small>

- ☐ 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 manufactures 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.

Dimension, position of posts and base dimension

In-line short extension

■ Post standard position (Post could be changed as the dimension of ← →.)

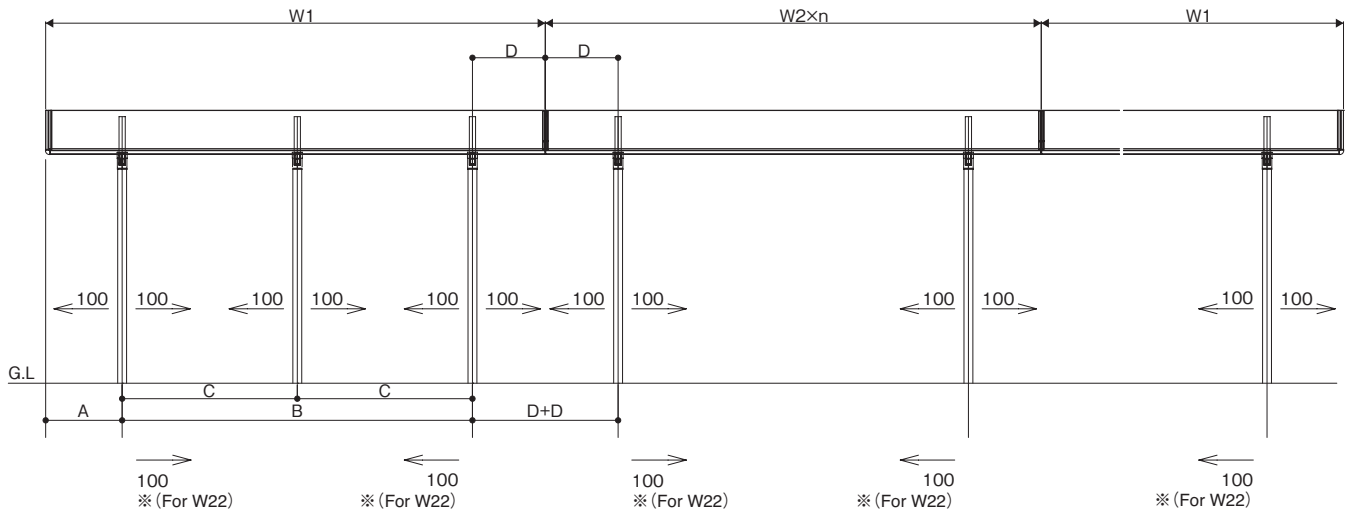


	W+1430	Post standard position			
		A	B	C	A+687
W22+W14	3631	150.5	1900	—	837.5
W29+W14	4346	258	2400	—	945
W43+W14	5776	873	2600	—	1560
W43(D33)+W14	5776	873	—	1300	1560
W51+W14	6491	1080.5	2900	—	1767.5
W51(D33)+W14	6491	755.5	—	1775	1442.5
W58+W14	7206	1238	3300	—	1925
W58(D33)+W14	7206	888	—	2000	1575



In-line connection (n connection)

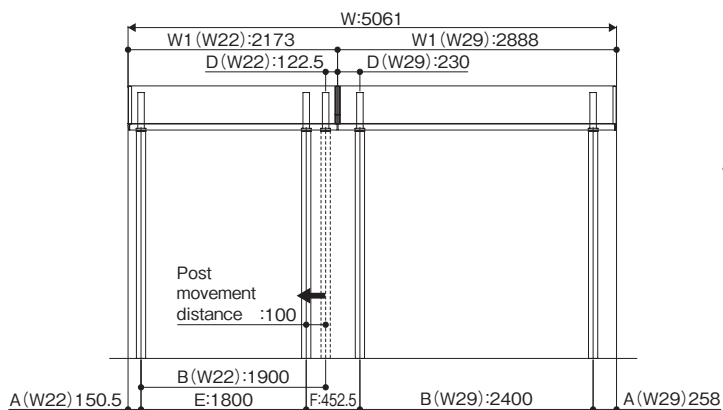
■ Post standard position (Post could be changed as the dimension of ← →.)



	W1	W2	Post standard position			
			A	B	C	D
W22	2173	2145	150.5	1900	—	122.5
W29	2888	2860	258	2400	—	230
W43	4318	4290	873	2600	—	845
W43(D33)	4318	4290	873	—	1300	845
W51	5033	5005	1080.5	2900	—	1052.5
W51(D33)	5033	5005	755.5	—	1775	727.5
W58	5748	5720	1238	3300	—	1210
W58(D33)	5748	5720	888	—	2000	860

In case of connection W22 and W29

(Move the post position of W22 100mm from standard post position.)



Length dimension of carport

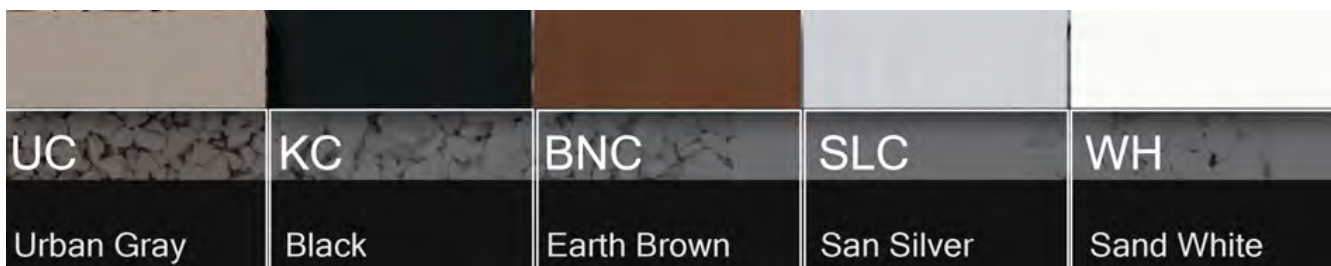
$$W \quad W1(W22) \quad W1(W29) \\ 5061 = 2173 + 2888$$

W22 post pitch in case the post moves 100mm.

$$E \quad C(W22) \quad \text{Post movement distance} \\ 1800 = 1900 - 100$$





Post pitch of connection part







$$F \quad D(W22) \quad D(W29) \quad \text{Post movement distance} \\ 452.5 = 122.5 + 230 + 100$$



Post·beam·main frame list

■In-line short extension

Post type	②	⑤	⑥	⑦
Section	 U shape gutter 1 parts	 U shape gutter 2 parts	 U shape gutter 1 parts	 U shape gutter 2 parts
Parts ID	PJFH-20B PJFH-25B PJFH-20B-1 PJFH-25B-1	PJFH-22E PJFH-25E PJFH-22E-1 PJFH-25E-1	PJFH-28F-1	PJFH-28G-1

Beam type	①	②	③	④	⑤	Main frame type	⑤
Section	<div><div>No U shape gutter</div></div>	<div><div>U shape gutter 1 parts</div></div>	<div><div>U shape gutter 2 parts</div></div>	<div><div>U shape gutter 3 parts</div></div>	<div><div>U shape gutter 4 parts</div></div>	Section	<div><div>U shape gutter 4 parts</div></div>
Parts ID	PJFT-18A-1 PJFT-21A-1 PJFT-24A-1	PJFT-21B-1 PJFT-27B-1	PJFT-24C-1 PJFT-27C-1 PJFT-33C-1	PJFT-27D-1 PJFT-30D-1 PJFT-33D-1	PJFT-30E-1 PJFT-33E-1	Parts ID	PJFY-W14E-2 PJFY-W14E-3 PJFY-W14E-4

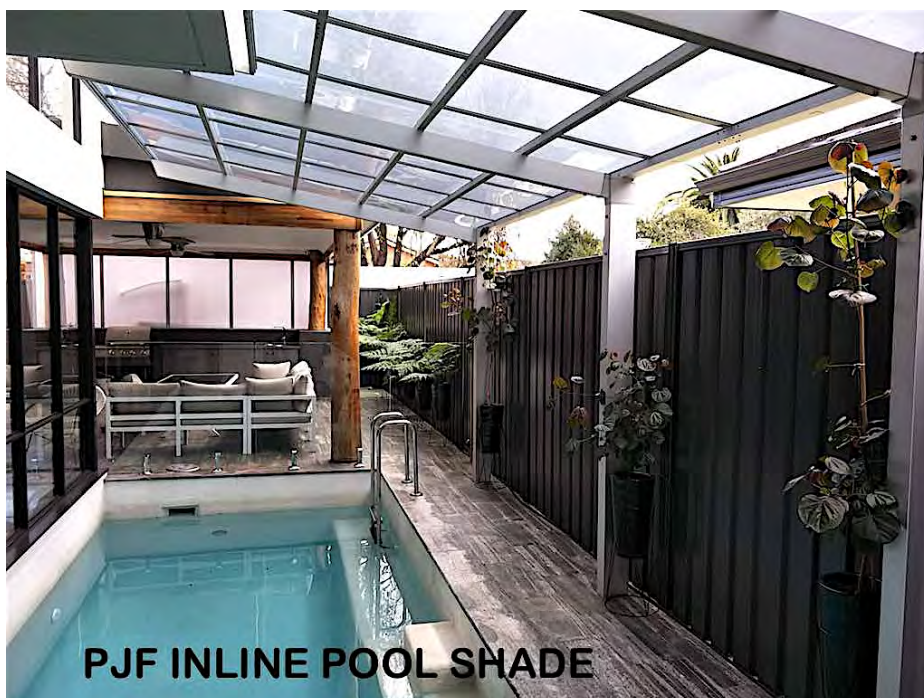
※ In case of in-line connection please refer to “Post, beam, main frame list” of manual **HZ1697-E**.

Parts instruction guide

■In-line short extension

Type Body size	Component parts				
	Post			Beam	Main frame
Depth	Standard post	Long post	Extra-long post		
18	②	②	⑥	①	⑤
21				②	
24				③	
27	⑤	⑤	⑦	④	
30				⑤	
33					

※ In case of in-line connection please refer to “Parts instruction guide” of manual **HZ1697-E**.


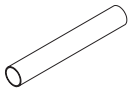

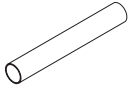

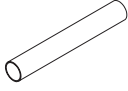

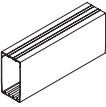



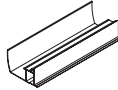
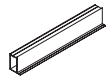


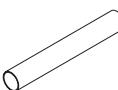
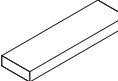
PJF INLINE POOL SHADE

Parts contents





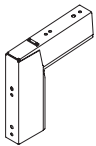
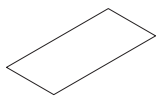
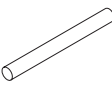




- ☐ Please open the captioned carton and check all contents in advance.
- ☐ Please check the parts defective or any damage.
- ☐ After opening the carton boxes, please store the products so that they are not damaged.
- ☐ We packed some extra screw in the parts box. (x) number is necessary Q'ty for installation.

■ For in-line short extension

Parts ID	Content		
	Description	Shape	Quantity
Post set (1pc) (standard) PJFH-20B-1 PJFH-22E-1	Post		1
	Round gutter GA4923		1
Post set (1pc) (long post) PJFH-25B-1 PJFH-25E-1	Post		1
	Round gutter GA4923		1
Post set (extra-long post) PJFH-28F-1 PJFH-28G-1	Post		1
	Round gutter GA4923		1
	Instruction manual		1
Beam set PJFT-18A-1 PJFT-21A-1 PJFT-21B-1 PJFT-24A-1 PJFT-24C-1 PJFT-27B-1 PJFT-27C-1 PJFT-27D-1 PJFT-30D-1 PJFT-30E-1 PJFT-33C-1 PJFT-33D-1 PJFT-33E-1	Beam		1

Parts ID	Content		
	Description	Shape	Quantity
Length set (In-line short extension) PJFY-W14E-2 PJFY-W14E-3 PJFY-W14E-4	Front frame		PJFY-W14E-○ 1
	Gutter		PJFY-W14E-○ 1
	Main frame		PJFY-W14E-2 2
			PJFY-W14E-3 3
			PJFY-W14E-4 4
	Panel holder (middle) L=645		PJFY-W14E-○ 1
	Panel holder (end) L=300		PJFY-W14E-○ 2
	Round gutter GA4923		1
	Roof panel cushion GB8274		PJFY-W14E-2 4
			PJFY-W14E-3 6
			PJFY-W14E-4 8











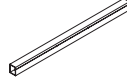
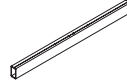


Parts ID	Content			
	Description	Shape	Quantity	
In-line connection roof rafter set PJFU-18 PJFU-21 PJFU-24 PJFU-27 PJFU-30 PJFU-33	Roof rafter		PJFU-○○	2
	Roof retainer (middle)		PJFU-○○	2
	Drilling screw 4×10×8		PJFU-18	20(18)
			PJFU-21	
			PJFU-24	23(21)
			PJFU-27	
			PJFU-30	26(24)
			PJFU-33	
	Small truss screw 5×10×10		PJFU-18	24(22)
			PJFU-21	28(26)
			PJFU-24	32(30)
			PJFU-27	34(32)
			PJFU-30	38(36)
			PJFU-33	46(44)
Corner parts set PJF-CBA-1 PJF-CBC-1 PJF-CBA PJF-CBB PJF-CBC	Corner bracket GB8065 GB8066 GB8067		PJF-CB○-1	1
			PJF-CB○	2
Roof panel set PJRY-△18-1 PJRY-△21-1 PJRY-△18-3 PJRY-△21-3 PJRY-△24-3 PJRY-△27-3 PJRY-△30-3 PJRY-△33-3 PJRY-△18-4 PJRY-△21-4 PJRY-△24-4 PJRY-△27-4 PJRY-△30-4 PJRY-△33-4	Roof panel GB4107 (Polycarbonate :AO, BR) GB8224 (Polycarbonate:Sl) GB4575 (Heat protection polycarbonate) GB5626 (Heat protection FRP:Sl)		PJRY-△○○-1	1
			PJRY-△○○3	3
			PJRY-△○○4	4
In-line short extension parts box PJFW-EBA PJFW-EBB	Anchor rod GA0073		PJFW-EBA	1
			PJFW-EBB	
	Post cap GB8097 GB8098		PJFW-EBA	1
			PJFW-EBB	
	Beam cap GB8099		PJFW-EBA	1
			PJFW-EBB	
	Hole seal φ14 GA0150		PJFW-EBA	8
			PJFW-EBB	12
	Hexagon bolt (with spring washer, washer) M8×25 ES0249		PJFW-EBA	7
			PJFW-EBB	8

Parts ID	Content			
	Description	Shape	Quantity	
	Front frame connecting cap GB8105		PJFW-EBA	1
			PJFW-EBB	
	Gutter connecting cap GB8148		PJFW-EBA	1
			PJFW-EBB	
	Main frame connecting cap GB7142		PJFW-EBA	2
			PJFW-EBB	4
	Front frame connecting sleeve GB8106		PJFW-EBA	1
			PJFW-EBB	
	Gutter connecting sleeve GB8085		PJFW-EBA	1
			PJFW-EBB	
	Main frame connecting sleeve GB8086		PJFW-EBA	2
			PJFW-EBB	4
	Gutter attachment GA4929		PJFW-EBA	1
			PJFW-EBB	
	Gasket GA4930		PJFW-EBA	1
			PJFW-EBB	
	Elbow GA4932		PJFW-EBA	2
			PJFW-EBB	
	Drain elbow GA6461		PJFW-EBA	1
			PJFW-EBB	
	Saddle GB8077		PJFW-EBA	3
			PJFW-EBB	
	Drilling screw 4×10×8		PJFW-EBA	29(27)
			PJFW-EBB	37(35)
	Small truss screw 5×10×10		PJFW-EBA	9(8)
			PJFW-EBB	13(12)
	Glue GA4934		1	
	Assembling manual		1	

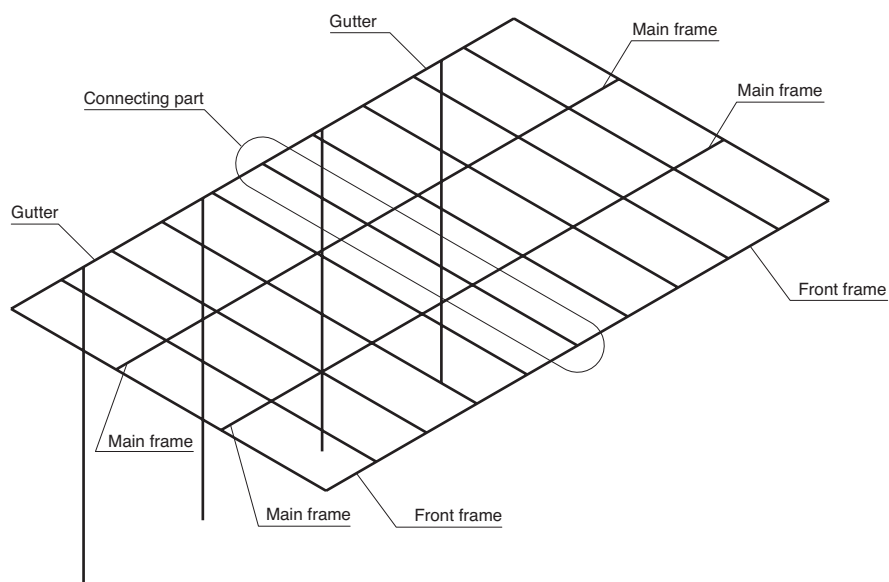


■ For in-line connection

Parts ID	Content		
	Description	Shape	Quantity
In-line connection roof rafter set PJFW-U2218 PJFW-U2221 PJFW-U2918 PJFW-U2921 PJFW-U4318 PJFW-U4321 PJFW-U4324 PJFW-U4327 PJFW-U4330 PJFW-U4333 PJFW-U5118 PJFW-U5121 PJFW-U5124 PJFW-U5127 PJFW-U5130 PJFW-U5133 PJFW-U5818 PJFW-U5821 PJFW-U5824 PJFW-U5827 PJFW-U5830 PJFW-U5833	Roof rafter		PJFW-U2200 3
			PJFW-U2900 4
			PJFW-U4300 6
			PJFW-U5100 7
			PJFW-U5800 8
	Roof retainer (middle)		PJFW-U2200 3
			PJFW-U2900 4
			PJFW-U4300 6
			PJFW-U5100 7
			PJFW-U5800 8
	Drilling screw 4×10×8		PJFW-U2218 26(24)
			PJFW-U2221 26(24)
			PJFW-U2918 32(30)
			PJFW-U2921 32(30)
			PJFW-U4318 44(42)
			PJFW-U4321 44(42)
			PJFW-U4324 51(49)
			PJFW-U4327 51(49)
			PJFW-U4330 59(56)
			PJFW-U4333 59(56)
			PJFW-U5118 50(48)
			PJFW-U5121 50(48)
			PJFW-U5124 59(56)
			PJFW-U5127 59(56)
			PJFW-U5130 67(64)
			PJFW-U5133 67(64)
			PJFW-U5818 57(54)
			PJFW-U5821 57(54)
			PJFW-U5824 66(63)
			PJFW-U5827 66(63)
			PJFW-U5830 76(72)
			PJFW-U5833 76(72)
	Small truss screw 5×10×10		PJFW-U2218 39(37)
			PJFW-U2221 45(43)
			PJFW-U2918 46(44)
			PJFW-U2921 55(52)
			PJFW-U4318 61(58)
			PJFW-U4321 74(70)
			PJFW-U4324 84(80)
			PJFW-U4327 90(86)
			PJFW-U4330 101(96)
			PJFW-U4333 139(134)
			PJFW-U5118 68(65)
			PJFW-U5121 83(79)
			PJFW-U5124 95(90)
			PJFW-U5127 102(97)
			PJFW-U5130 113(108)
			PJFW-U5133 155(150)
			PJFW-U5818 76(72)
			PJFW-U5821 92(88)
			PJFW-U5824 105(100)
			PJFW-U5827 113(108)
			PJFW-U5830 126(121)
			PJFW-U5833 172(168)

Parts ID	Content		
	Description	Shape	Quantity
In-line connection parts box PJFW-B	Front frame connecting cap GB8105		1
	Gutter connecting cap GB8148		1
	Main frame connecting cap GB7142		4
	Front frame connecting sleeve GB8106		1
	Gutter connecting sleeve GB8085		1
	Main frame connecting sleeve GB8086		4
	Drilling screw 4×10×8		26(24)
	Assembling manual		1



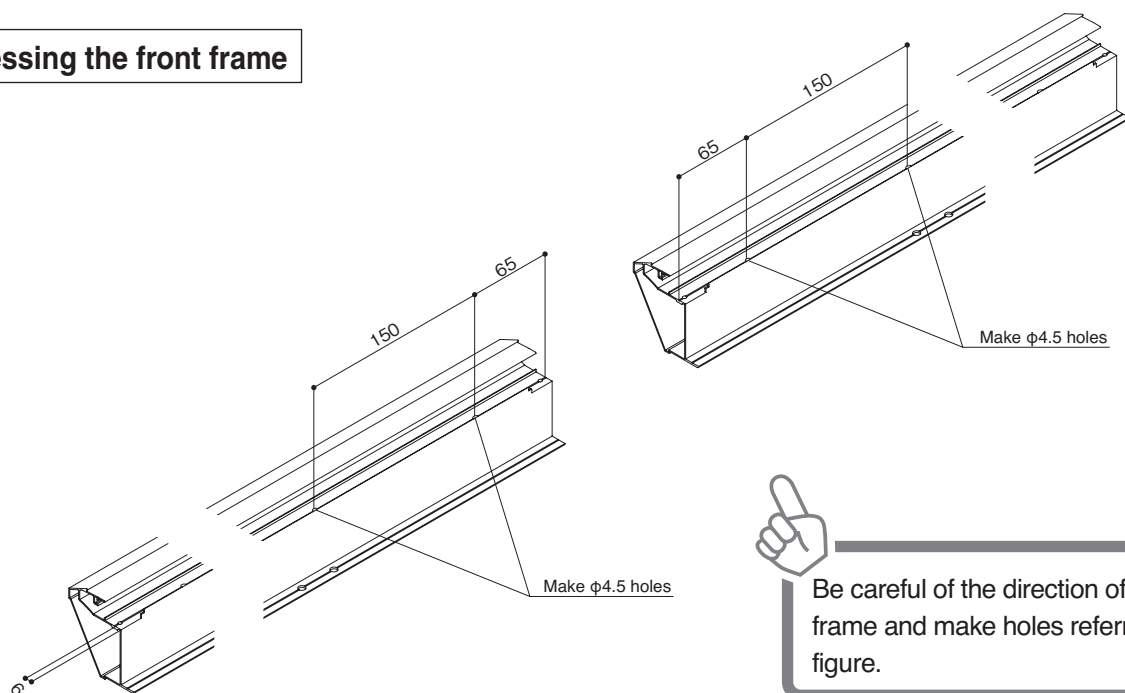


※ In advance install from “**1** . Installation of post and beam” until “**3** . Attaching the post cap” in the assembling manual **HZ1697-E** .

1 Processing front frame, gutter, main frame

Before installation, make $\phi 4.5$ holes on the front frame, gutter and main frame of “the connecting roof side” as below figure.

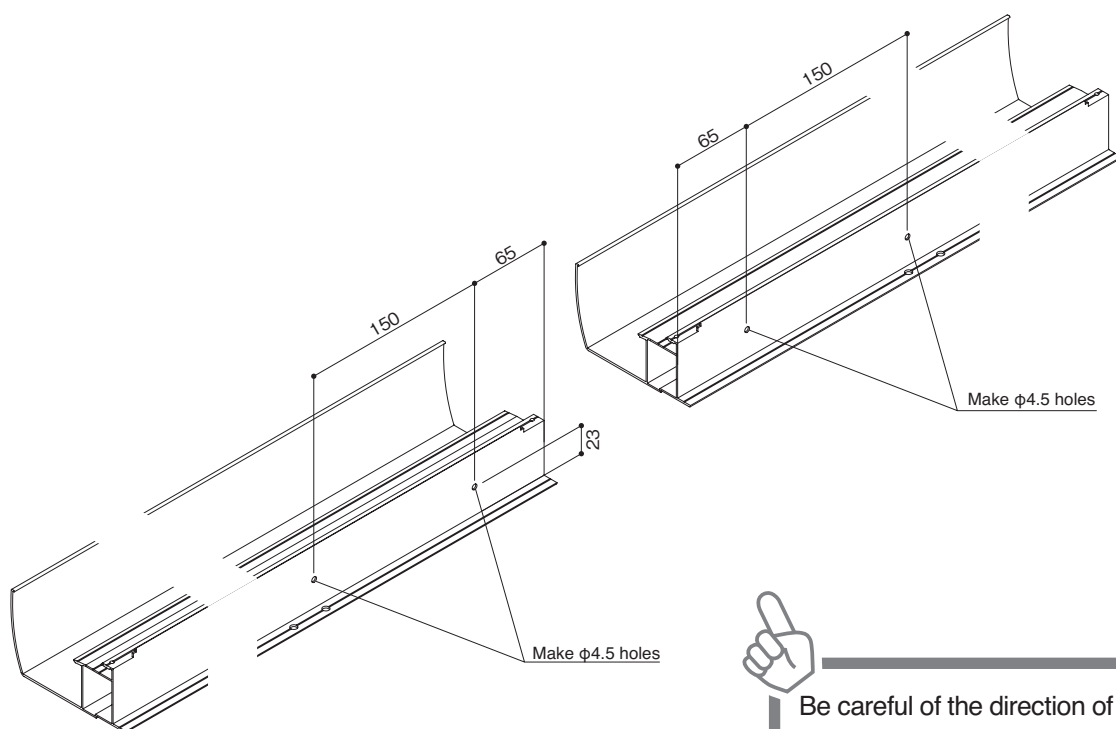
Processing the front frame



Be careful of the direction of front frame and make holes referring to the figure.

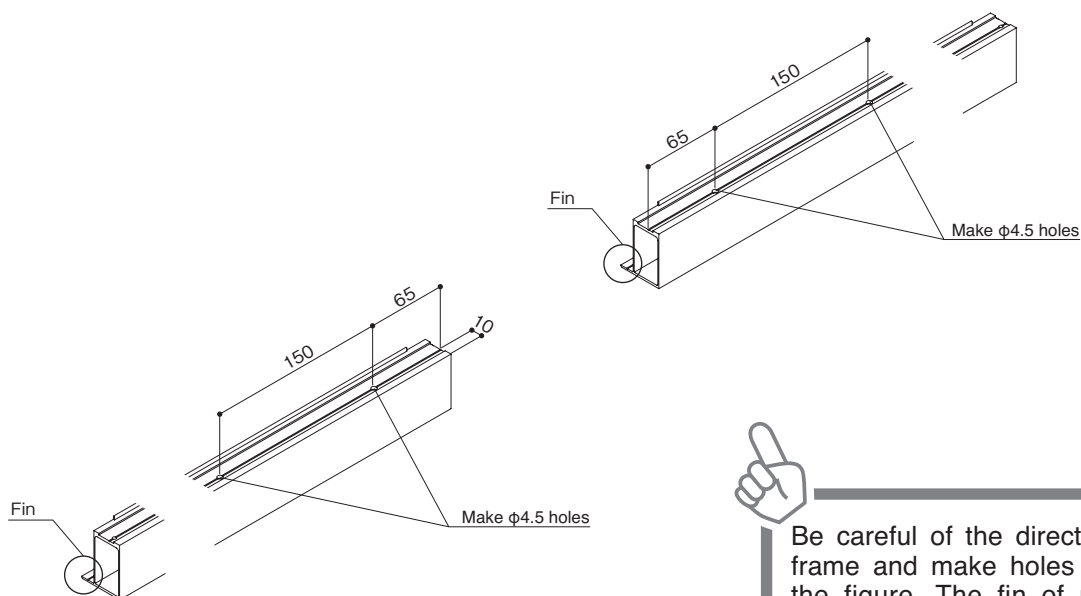


Processing the gutter



Be careful of the direction of gutter and make holes referring to the figure.

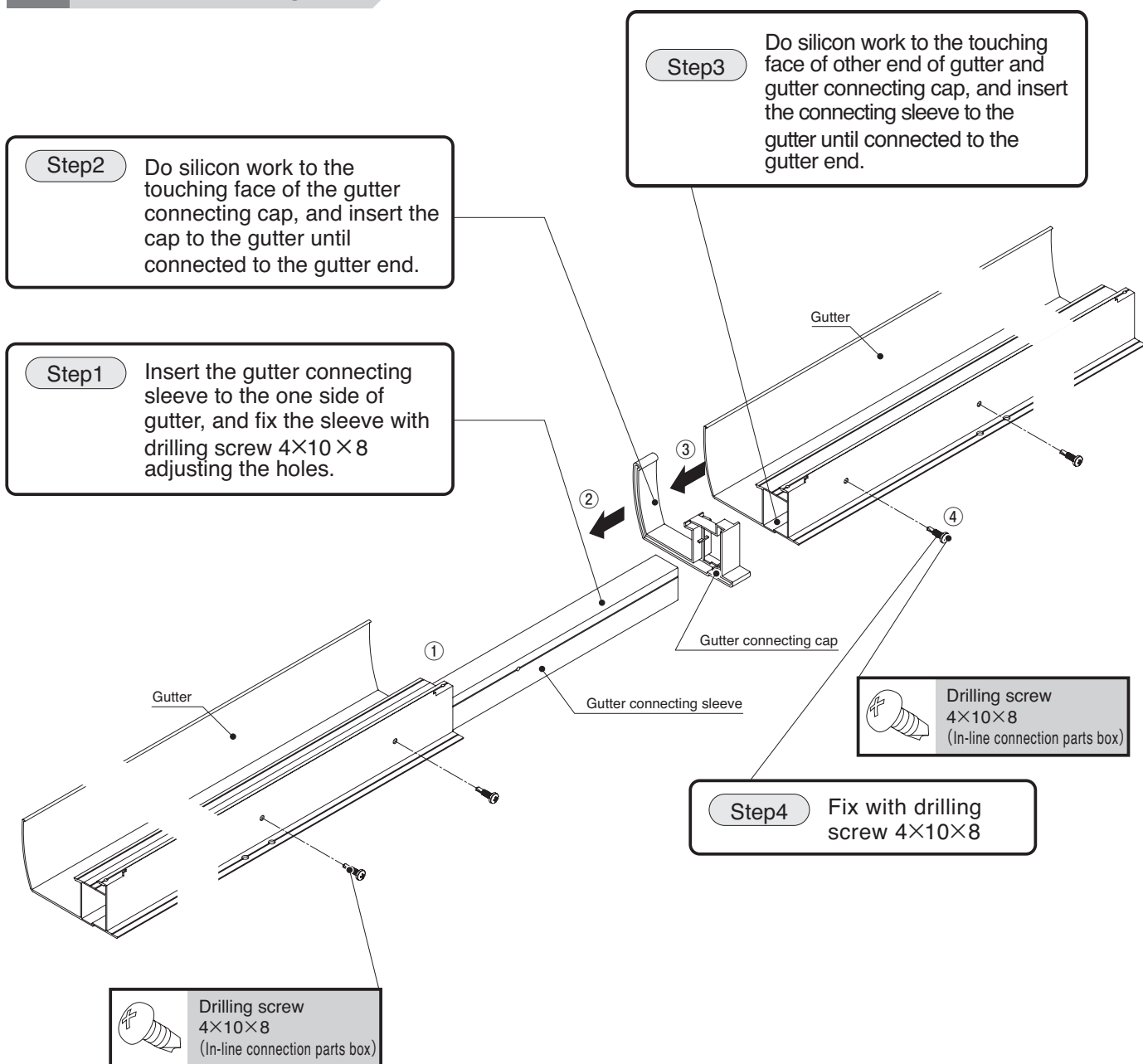
Processing the main frame



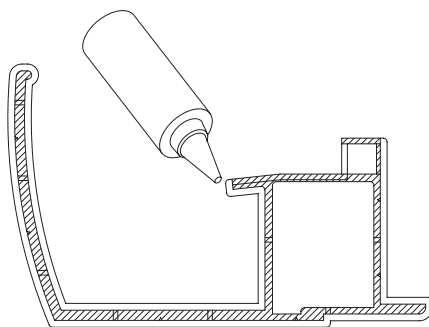
Be careful of the direction of main frame and make holes referring to the figure. The fin of main frame faces to gutter side.



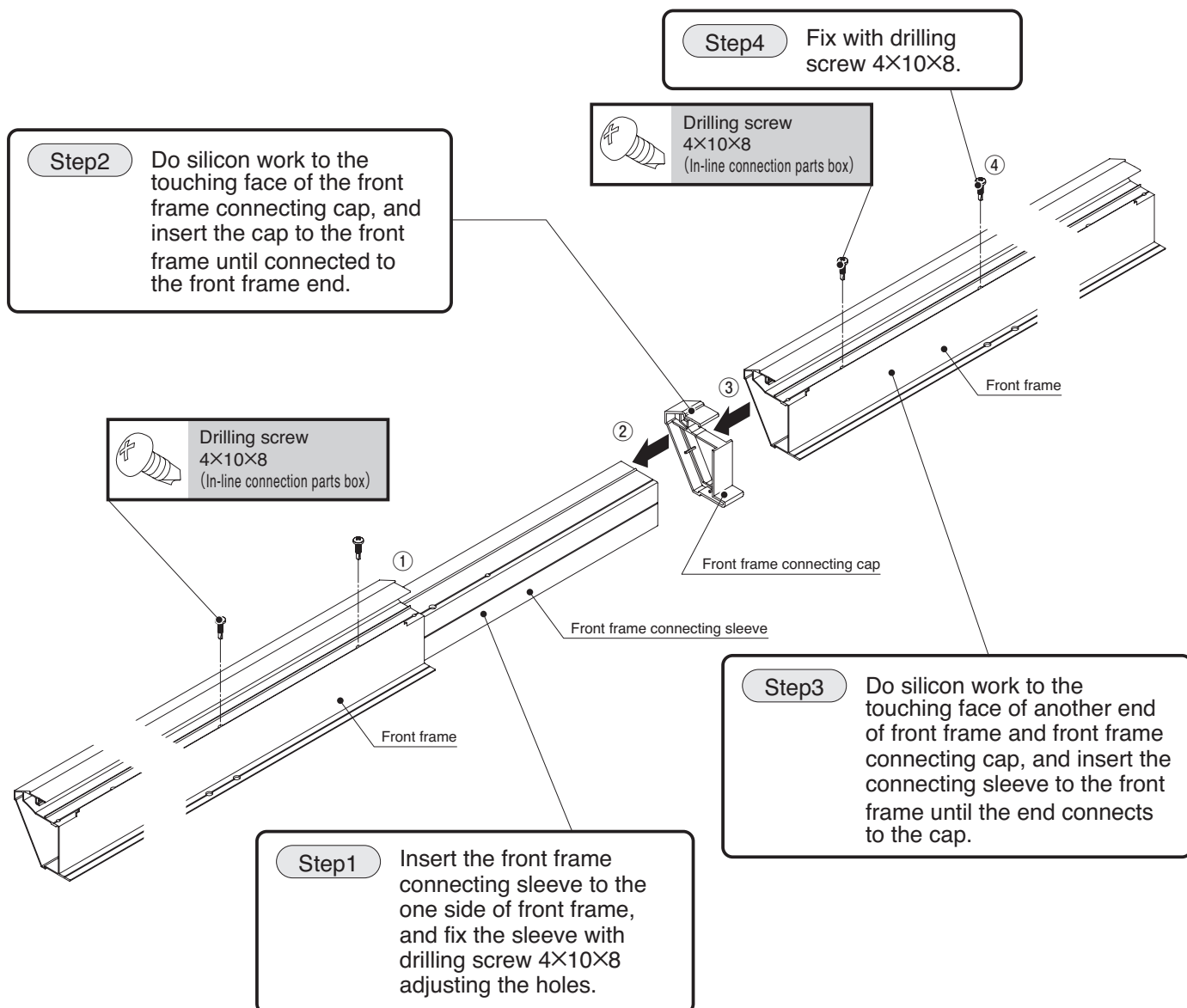
2 Connection of gutter



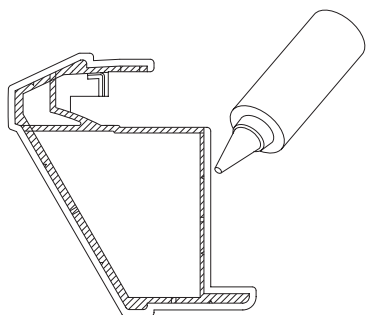
■ Silicon part of gutter connecting cap (②, ③)



※Install the gutter referring to “**4**. Installation of gutter” of the assembling manual **HZ1697-E**.



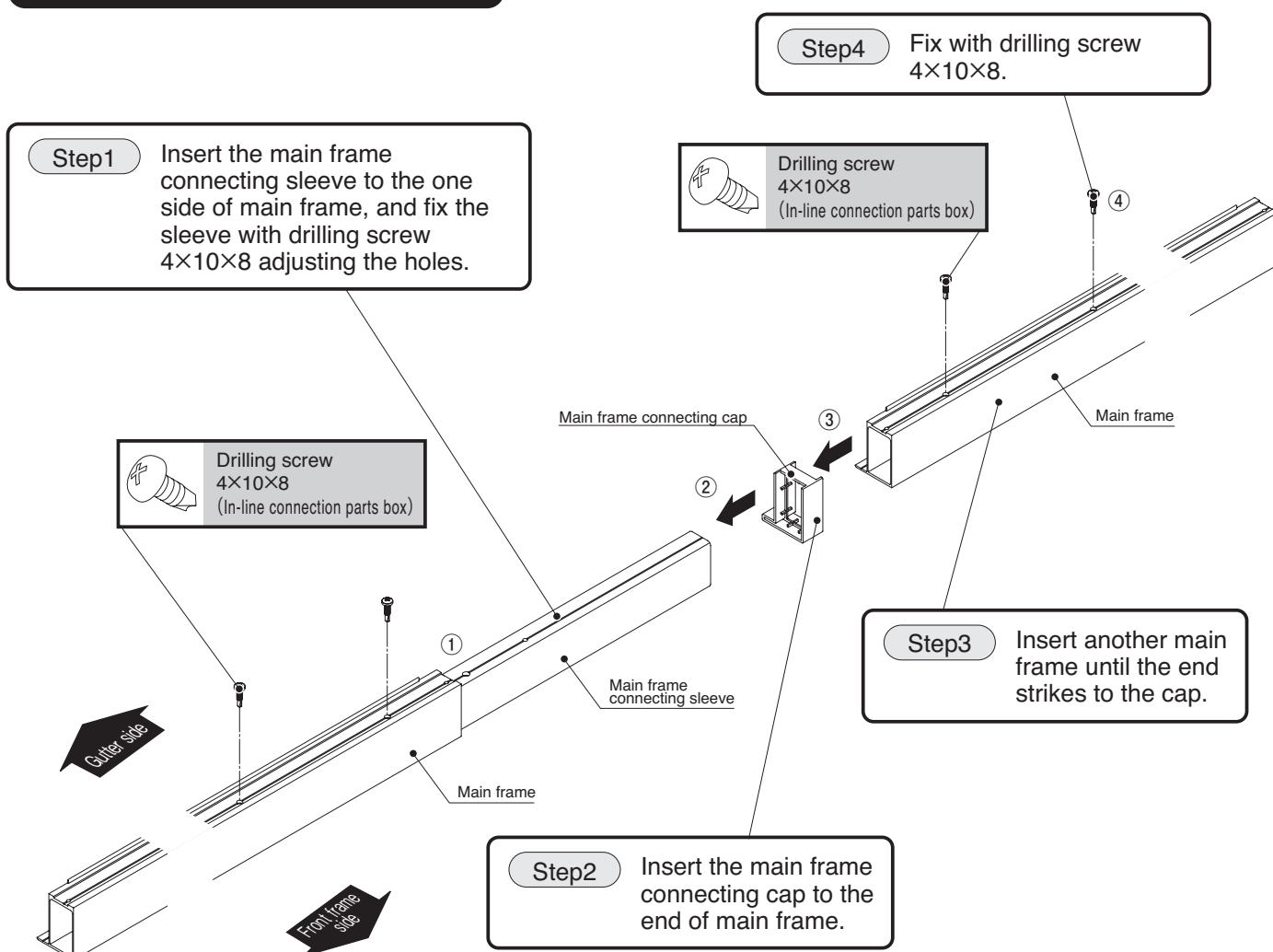
■ Silicon part of front frame connecting cap (②, ③)



※ Install the front frame referring to “**5** . Installation of front frame” of the assembling manual **HZ1697-E** .

4 Connection of main frame

- Be careful of the direction of main frame.
- Install the fin of main frame face to the gutter.



※ Install the main frame referring to “**6** . Attaching the roof panel cushions • **7** Installation of main frame” of the assembling manual **HZ1697-E** .

5 Installation of side frame

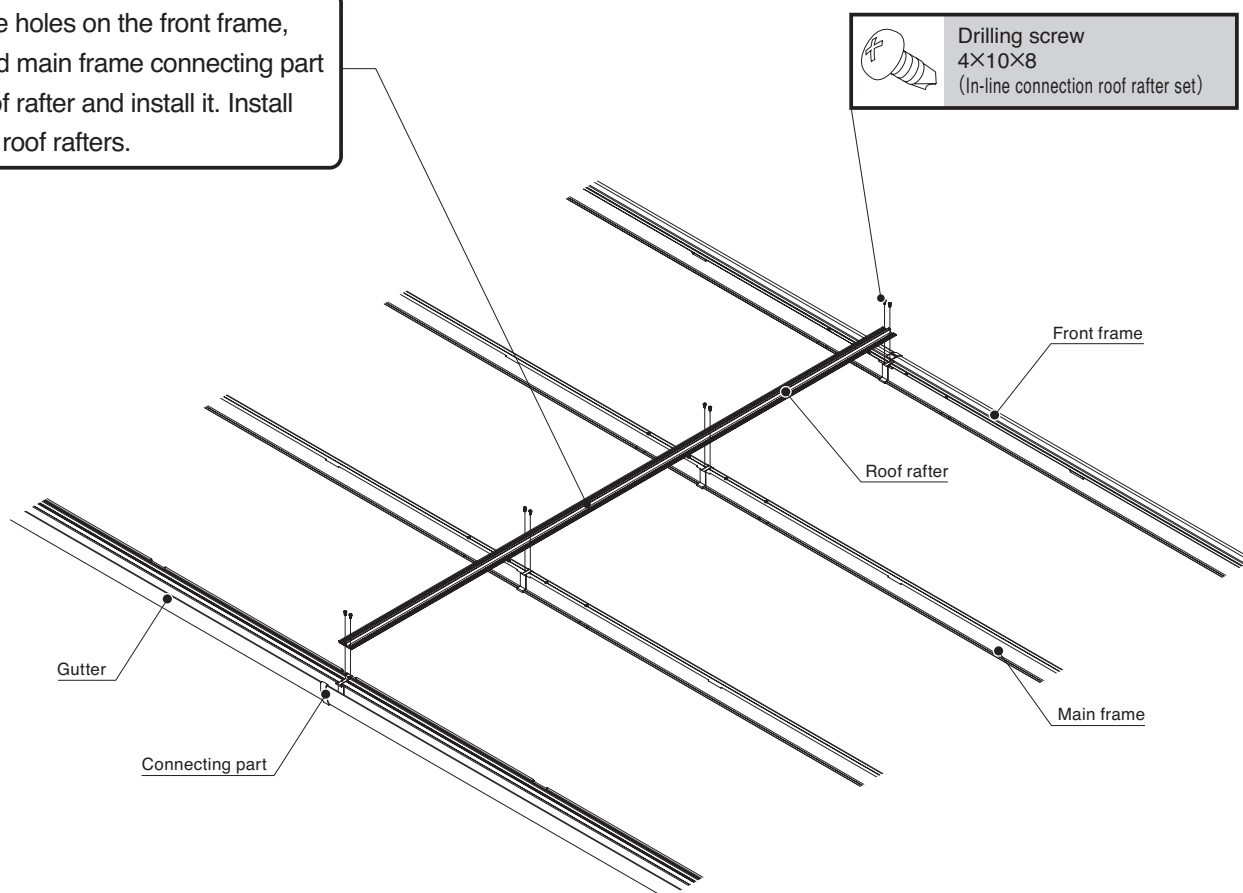
※ Install the side frame referring to “**8** . Installation of side frame” of the assembling manual **HZ1697-E** .



6 Installation of roof rafter for connecting

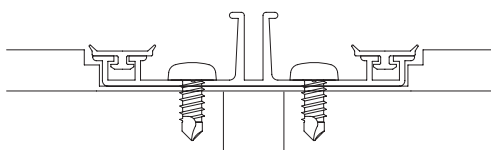
※Install the roof rafter referring to “9. Installation of roof rafter” of the assembling manual **HZ1697-E**.

Adjust the holes on the front frame, gutter and main frame connecting part to the roof rafter and install it. Install the other roof rafters.



Make holes as right figure and be sure to fix with two screws on both sides of connecting parts on gutter, main frame, front frame and middle frame.

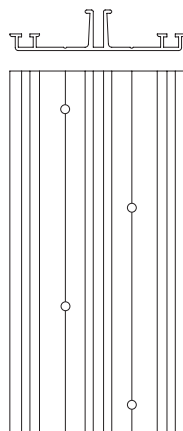
■ Section drawing for connecting



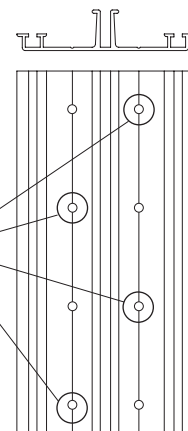
※Install at the processing part firmly.



■ Middle part roof rafter



■ Connecting part roof rafter

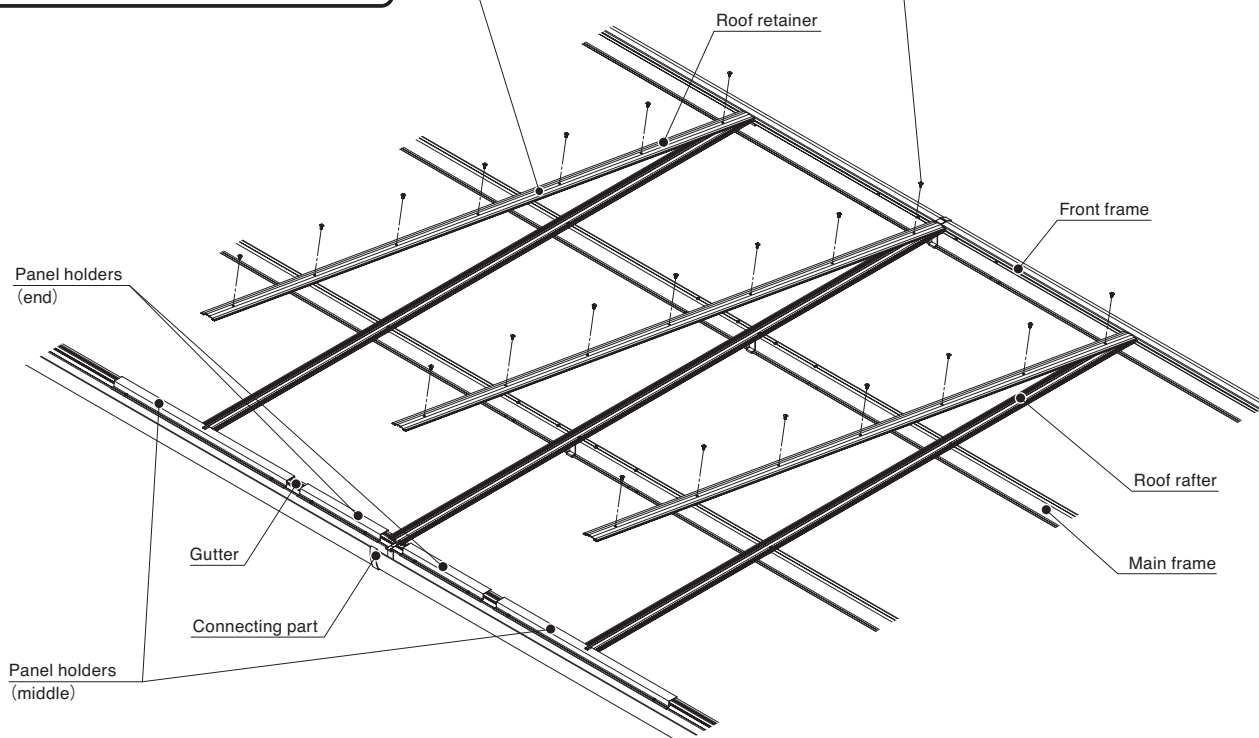


Make $\phi 4.5$ holes and screw on both sides.

7 Installation of roof panel · roof retainer

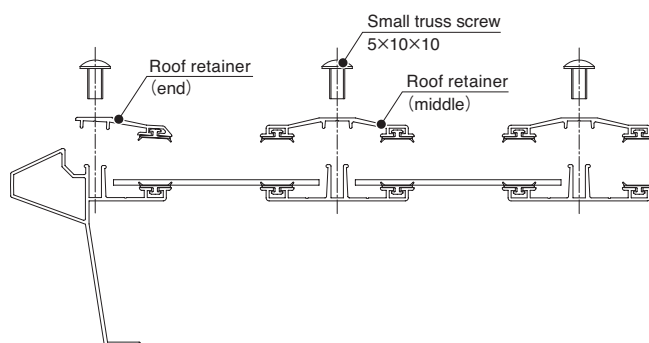
※ Install the roof panels and roof retainers referring to “**10**. Installation of roof panels · **11**. Installation of panel holders · **12**. Installation of roof retainer” of the assembling manual **HZ1697-E**.

- Step1** Install the roof rafters.
Step2 Install the panel holders.
Step3 Install the roof retainers.



Notice

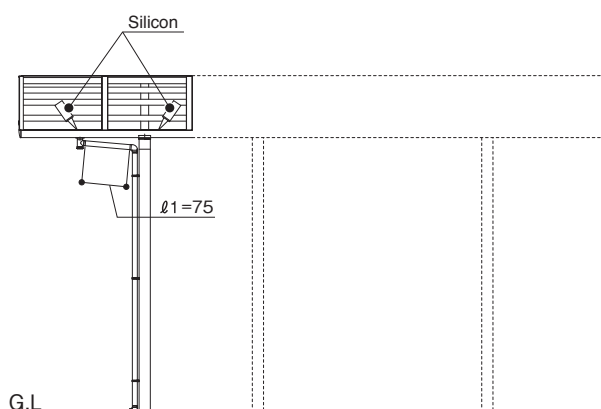
- If the screw of installing the roof retainer is tighten too much, the screw will run idle. Tightening torque is about less than 1.5Nm (15kgfcm).
- If the screw head leans when installing the roof retainer, it will cause water leakage (water will enter from the screw head clearance), so install it not to make clearance.



8 Rain gutter installation

※Install the rain gutter parts referring to the manual **HZ1697-E**.

Install the rain gutter parts



※The length of round gutter $\ell 1$ is 75mm on the extension side at the standard post position.

※Regarding to sealing work, refer to “13. Rain gutter installation” of the standard carport manual.



