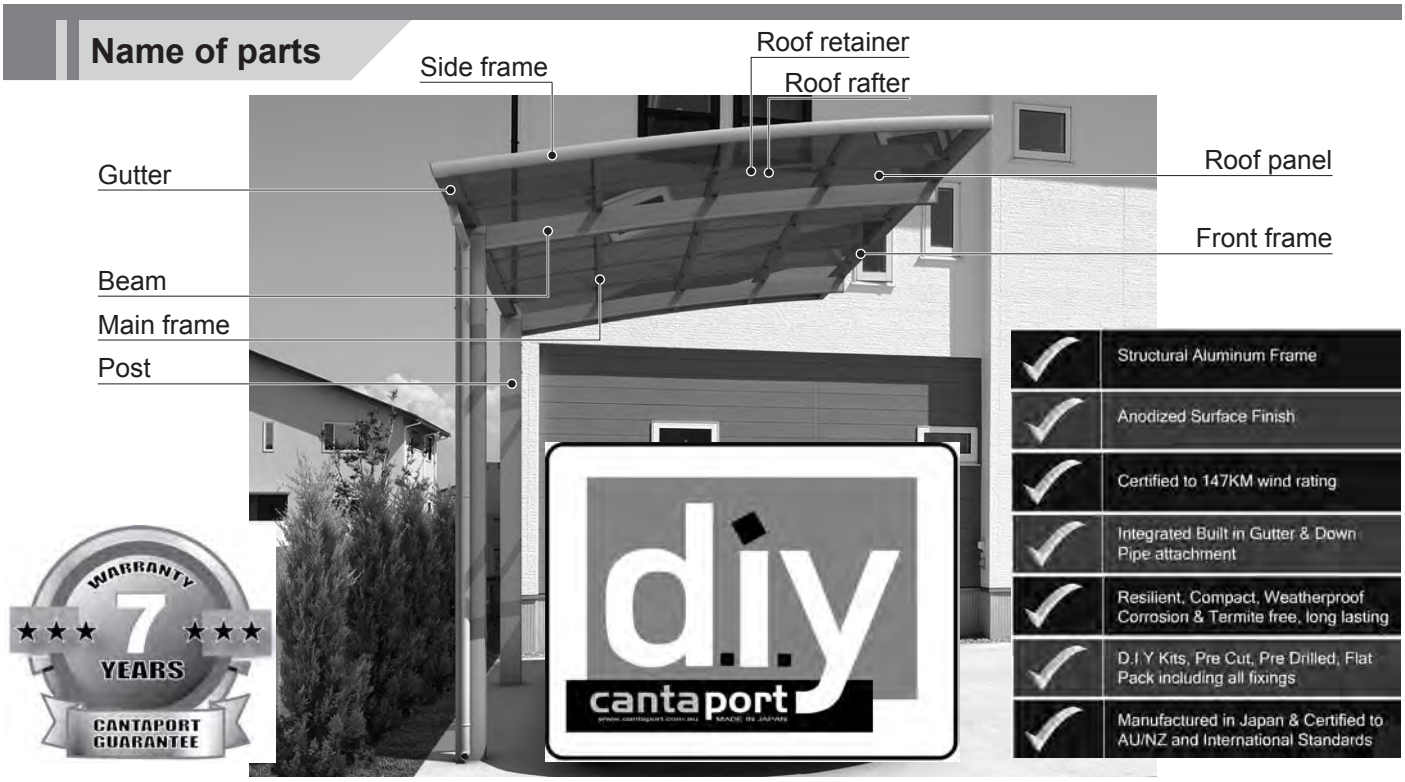
Cantaport made in Japan certified to AU standards

KCR(PJR)-series HZ1695-E Assembling manual

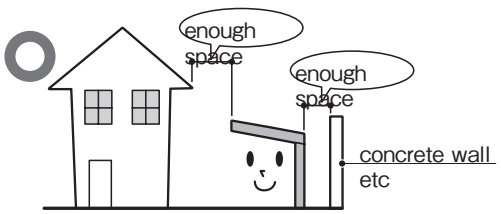
Thank you very much for choosing our company's Cantaport products.
Please be sure to thoroughly read these instructions for assembling the Cantaport product in conjunction with the engineering details. DIY or Authorisied Cantaport installations must follow the manufactures assembling manual to avoid warranty cover.
Please retain the manual for future reference and maintenance inspection.

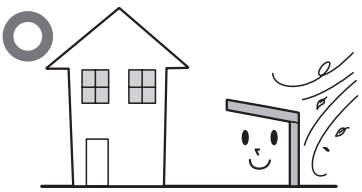
Name of parts



Precautions during installation

- ☐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.



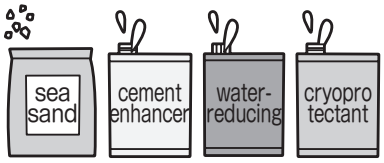


- ☐When installing, it is recommended to install the front frame facing towards the building to reduce the wind effect.
- ☐When installing with side panel please be sure to install the support post.
- ☐Positioning the posts so that they do not affect underground services (water supply, drain pipes, etc.).
- ☐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.

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.

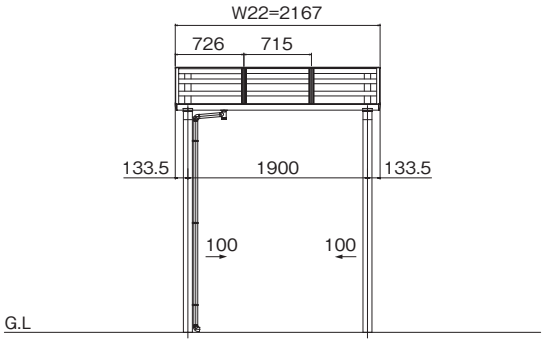


Dimension, position of posts and base dimension

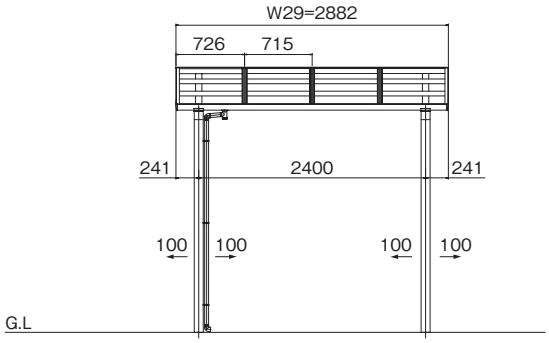
Dimension, position of post

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

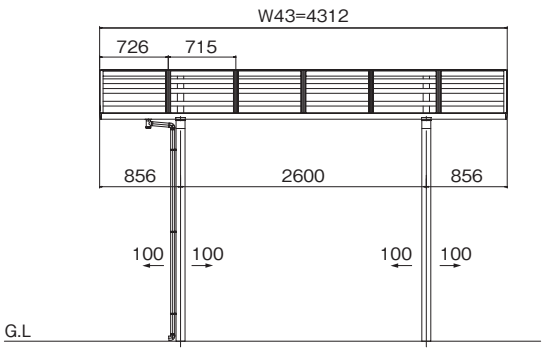
● 20 size



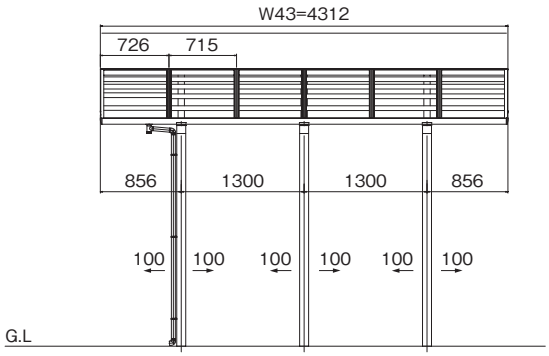
● 29 size



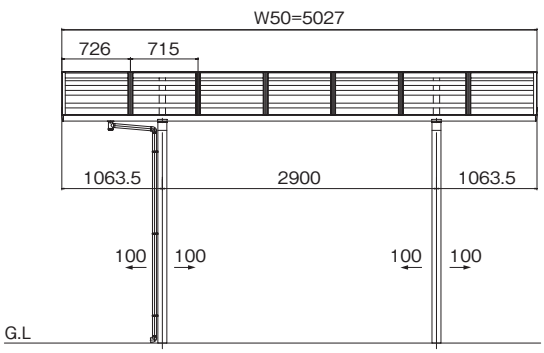
● 43 size



For D33 size



● 50 size



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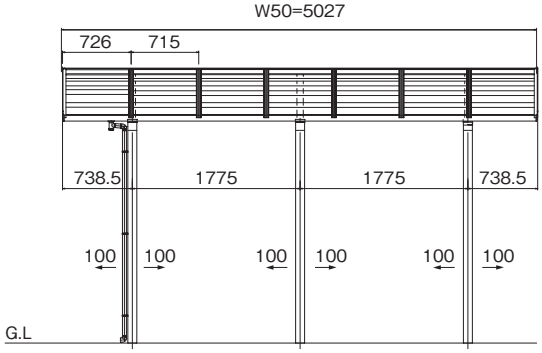
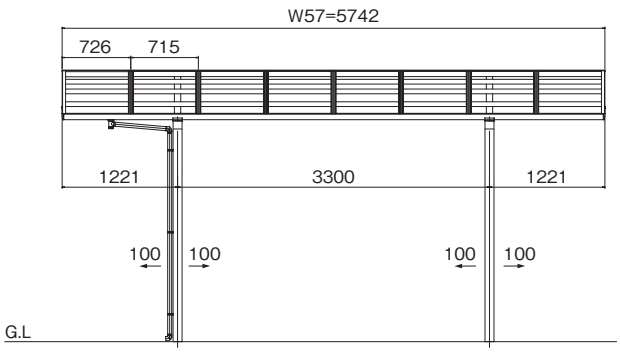


● **57 size**



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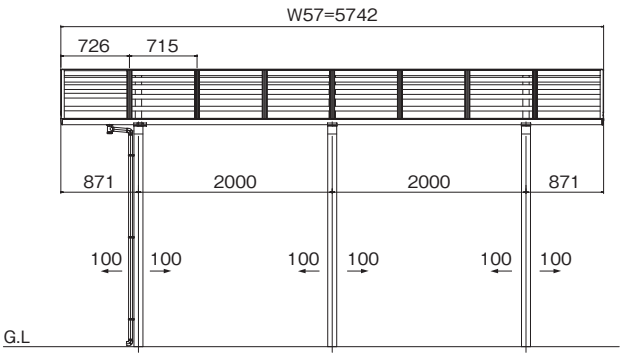
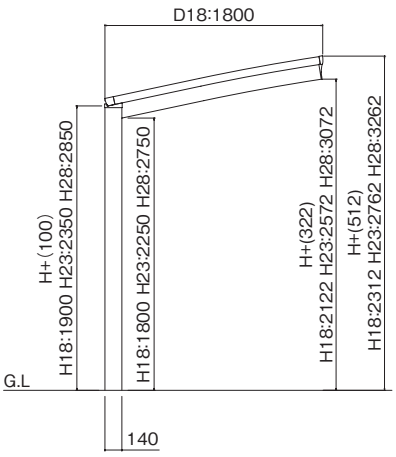
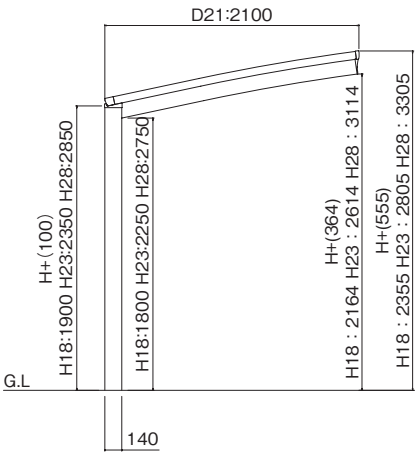
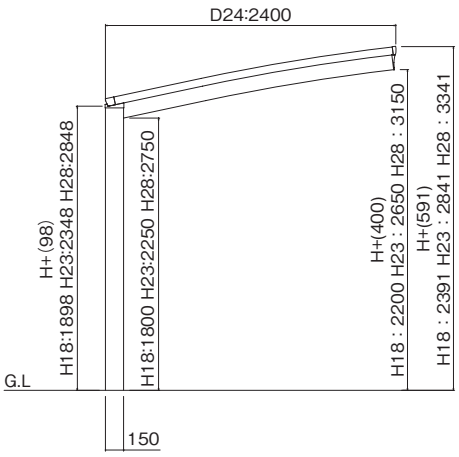
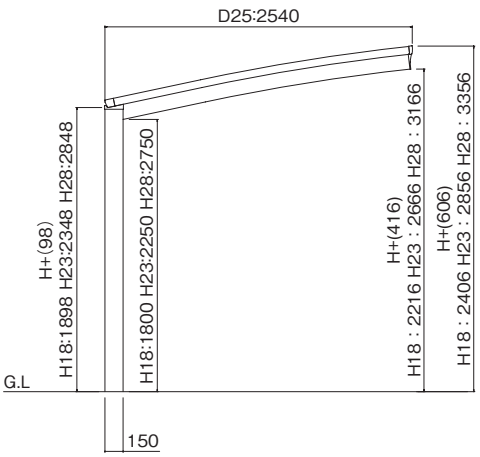


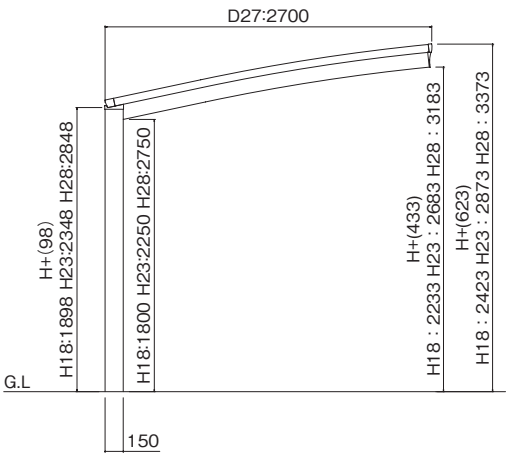
■Depth dimension(D), height dimension(H)
〔depth 18·21·24·25·27·30·33size〕



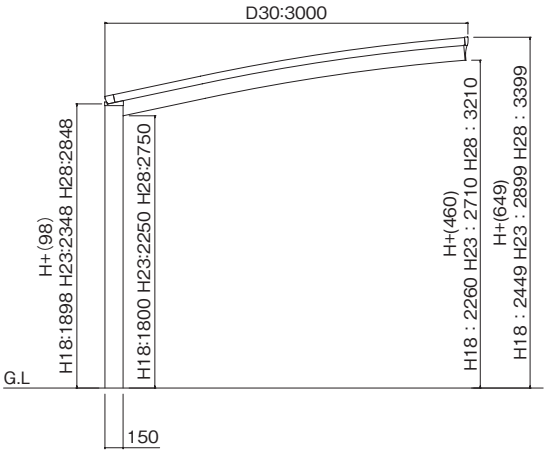


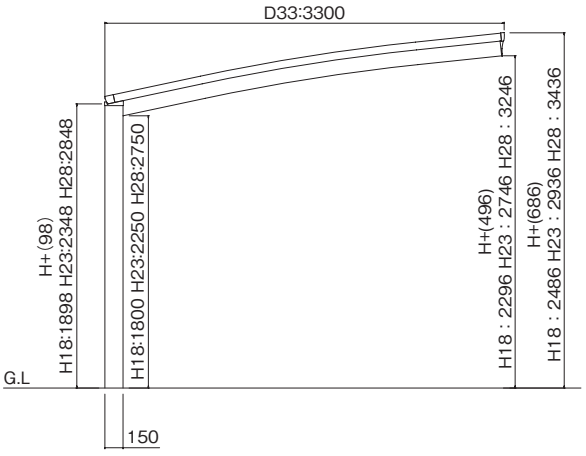


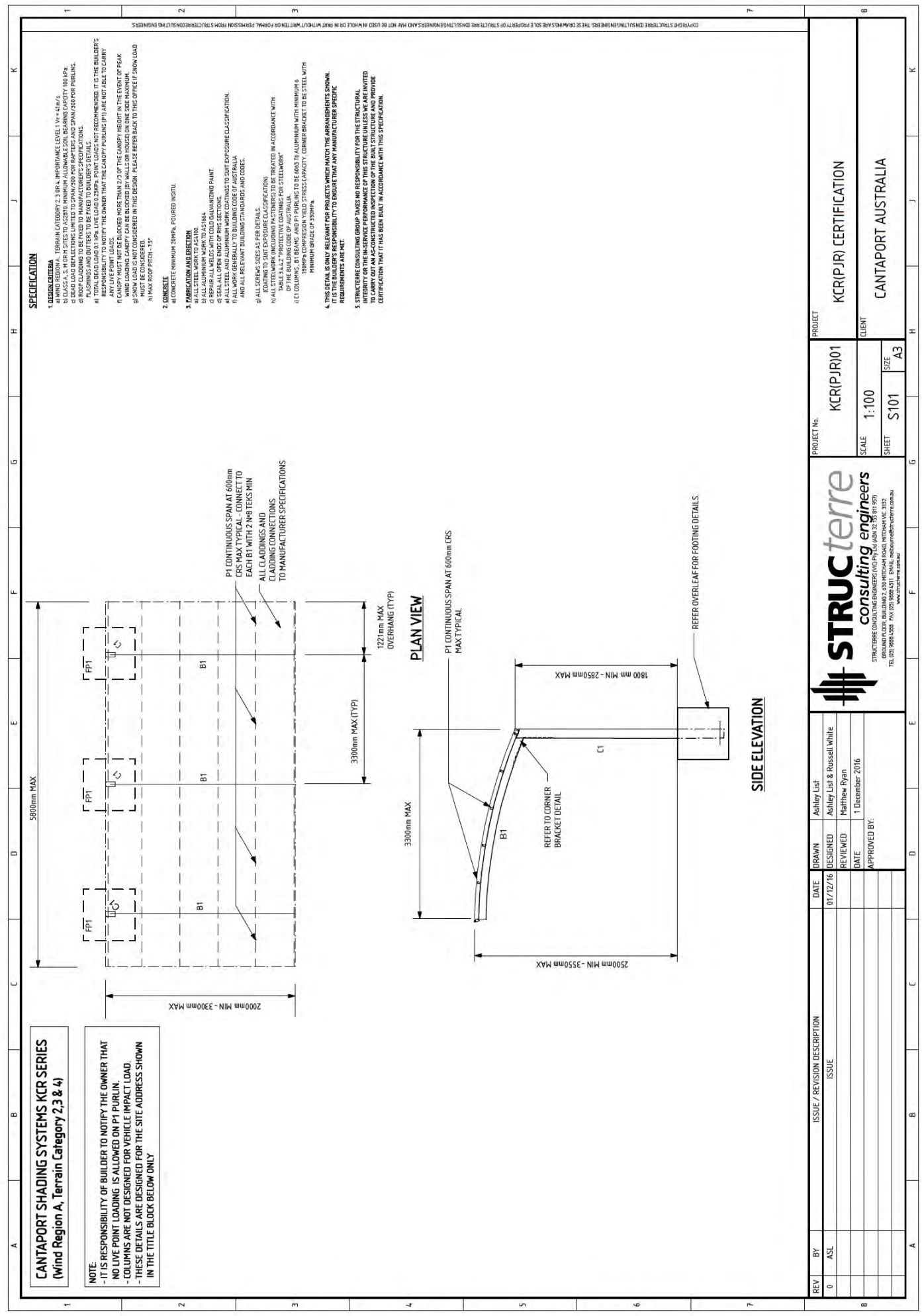




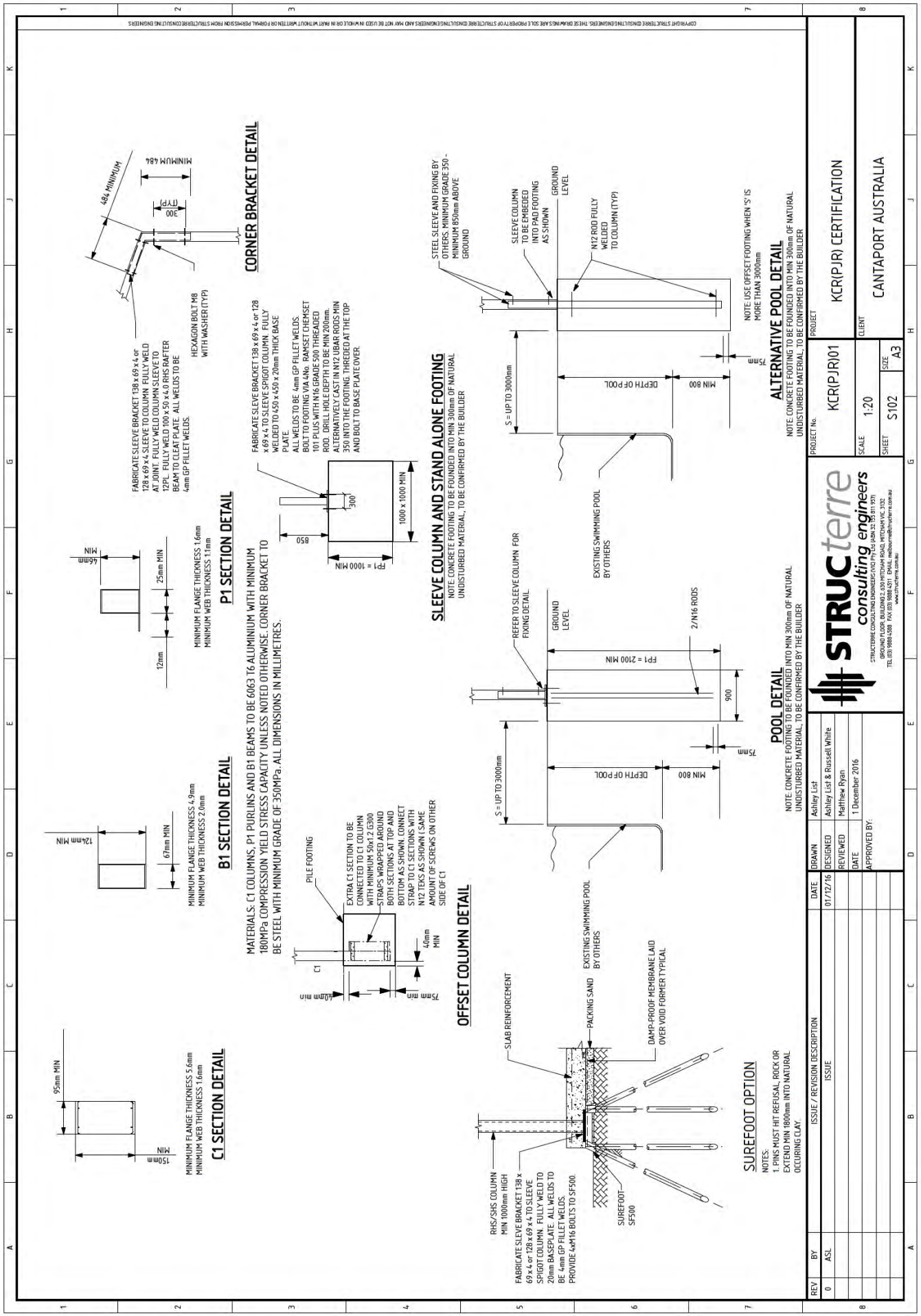
NOTE: HEIGHTS CAN BE ADJUSTED USING METAL SLEEVES



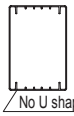
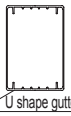
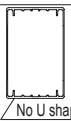
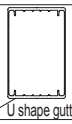
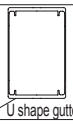
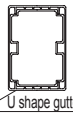
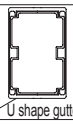


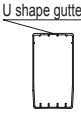
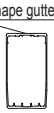
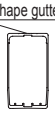

CANTAPORT SHADING SYSTEMS KCR SERIES
(Wind Region A, Terrain Category 2,3 & 4)
NOTE:
- IT IS RESPONSIBILITY OF BUILDER TO NOTIFY THE OWNER THAT NO LIVE POINT LOADING IS ALLOWED ON P1 PURLIN.
- COLUMNS ARE NOT DESIGNED FOR VEHICLE IMPACT LOAD.
- THESE DETAILS ARE DESIGNED FOR THE SITE ADDRESS SHOWN IN THE TITLE BLOCK BELOW ONLY
SPECIFICATION
1. DESIGN CRITERIA
a) WIND SPEED - TERRAIN CATEGORY 2, 3 OR 4, IMPORTANCE LEVEL 1 Vr = 41m/s.
b) CLASS A, S, M OR I1 SITES TO AS2870, MINIMUM ALLOWABLE SOIL BEARING CAPACITY 100 kPa.
c) DEAD LOAD DEFLECTIONS LIMITED TO SPAN/300 FOR RAFTERS AND SPAN/300 FOR PURLINS.
d) ROOF CLADDING TO BE FIXED TO MANUFACTURER'S SPECIFICATIONS.
FLASHINGS AND GUTTERS TO BE FIXED TO BUILDER'S DETAILS.
e) TOTAL DEAD LOAD 0.1 kPa. LIVE LOAD 0.25kPa. POINT LOADS NOT RECOMMENDED. IT IS THE BUILDER'S RESPONSIBILITY TO NOTIFY THE OWNER THAT THE CANOPY PURLINS (P1) ARE NOT ABLE TO CARRY ANY LIVE POINT LOADS.
f) CANOPY MUST NOT BE BLOCKED. MORE THAN 2/3 OF THE CANOPY HEIGHT IN THE EVENT OF PEAK WIND LOADING. CANOPY CAN BE BLOCKED (BY WALLS OR HOUSE) ON ONE SIDE MAXIMUM.
g) SNOW LOAD IS NOT CONSIDERED IN THIS DESIGN. PLEASE REFER BACK TO THIS OFFICE IF SNOW LOAD MUST BE CONSIDERED.
h) MAX ROOF PITCH = 15°.
2. CONCRETE
a) CONCRETE MINIMUM 20MPa, POURED INSITU.
3. FABRICATION AND ERECTION
a) ALL STEEL WORK TO AS4100.
b) ALL ALUMINIUM WORK TO AS1664.
c) REPAIR ALL WELDS WITH COLD GALVANIZING PAINT.
d) SEAL ALL OPEN ENDS OF RHS SECTIONS.
e) ALL STEEL AND ALUMINIUM WORK COATINGS TO SUIT EXPOSURE CLASSIFICATION.
f) ALL WORK GENERALLY TO BUILDING CODE OF AUSTRALIA AND ALL RELEVANT BUILDING STANDARDS AND CODES.
g) ALL SCREWS SIZES AS PER DETAILS.
(COATING TO SUIT EXPOSURE CLASSIFICATION)
h) ALL STEELWORK (INCLUDING FASTENERS) TO BE TREATED IN ACCORDANCE WITH TABLE 3.4.4.2 "PROTECTIVE COATINGS FOR STEELWORK" FOR THE BUILDING CLASSIFICATION.
i) C1 COLUMNS, B1 BEAMS AND P1 PURLINS TO BE A1043 T6 ALUMINIUM WITH MINIMUM 6 180MPa COMPRESSION YIELD STRESS CAPACITY. CORNER BRACKET TO BE STEEL WITH MINIMUM GRADE OF 350MPa.
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 UNDERTAKE THE CONSTRUCTION SUPERVISION OF THE PARTICULAR STRUCTURE AND PROVIDE CERTIFICATION THAT IT HAS BEEN BUILT IN ACCORDANCE WITH THIS SPECIFICATION.
COPYRIGHT STRUCTERRE CONSULTING ENGINEERS. THESE DRAWINGS ARE SOLE PROPERTY OF STRUCTERRE CONSULTING ENGINEERS AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN OR FORMAL PERMISSION FROM STRUCTERRE CONSULTING ENGINEERS
FP1
B1
C1
5800mm MAX
2000mm MIN - 3300mm MAX
P1 CONTINUOUS SPAN AT 600mm CRS MAX TYPICAL - CONNECT TO EACH B1 WITH 2 N°8 TEKS MIN
ALL CLADDINGS AND CLADDING CONNECTIONS TO MANUFACTURER SPECIFICATIONS
3300mm MAX (TYP)
1221mm MAX OVERHANG (TYP)
PLAN VIEW
P1 CONTINUOUS SPAN AT 600mm CRS MAX TYPICAL
3300mm MAX
REFER TO CORNER BRACKET DETAIL
1800 mm MIN - 2850mm MAX
2500mm MIN - 3550mm MAX
REFER OVERLEAF FOR FOOTING DETAILS.
SIDE ELEVATION
REV BY ISSUE / REVISION DESCRIPTION DATE
0 ASL ISSUE 01/12/16
DRAWN Ashley List
DESIGNED Ashley List & Russell White
REVIEWED Matthew Ryan
DATE 1 December 2016
APPROVED BY:
STRUCterre consulting engineers
STRUCTERRE CONSULTING ENGINEERS (VIC) Pty Ltd (ABN 32 155 911 957)
GROUND FLOOR, BUILDING 2, 320 MITCHAM ROAD, MITCHAM VIC. 3132
TEL (03) 9888 6388 FAX (03) 9888 6311 EMAIL melbourne@structerre.com.au
www.structerre.com.au
PROJECT No. KCR(PJR)01
PROJECT KCR(PJR) CERTIFICATION
SCALE 1:100
CLIENT CANTAPORT AUSTRALIA
SHEET S101
SIZE A3

CAUTION DO NOT CLIMB, HANG OR WALK ON THE ROOF. THE OWNER TO PROVIDE CAUTION LABLES IF SITUATED IN PUBLIC OPEN SPACES OR EASY EXCESS TO THE INSTALLED STRUCTURE.



Post·beam·main frame list

Post type	①	②	③	④	⑤	⑥	⑦
Section	 No U shape gutter	 U shape gutter 1 parts	 No U shape gutter	 U shape gutter 1 parts	 U shape gutter 2 parts	 U shape gutter 1 parts	 U shape gutter 2 parts
Parts ID	PJRH-18A PJRH-23A PJRH-18A-1 PJRH-23A-1	PJRH-18B PJRH-23B PJRH-18B-1 PJRH-23B-1	PJRH-18C PJRH-23C PJRH-18C-1 PJRH-23C-1	PJRH-18D PJRH-23D PJRH-18D-1 PJRH-23D-1	PJRH-18E PJRH-23E PJRH-18E-1 PJRH-23E-1	PJRH-28F-1	PJRH-28G-1

Beam type	①	②	③	④	⑤
Section	 No U shape gutter	 U shape gutter 1 parts	 U shape gutter 2 parts	 U shape gutter 3 parts	 U shape gutter 4 parts
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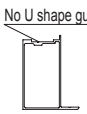
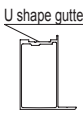
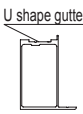
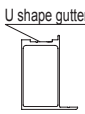
Main frame type	①	②	③	④
Section	 No U shape gutter	 U shape gutter 1 parts	 U shape gutter 2 parts	 U shape gutter 3 parts
Parts ID	PJRY-W22A-2 PJRY-W43A-4 PJRY-W50A-4 PJRY-W57A-4	PJRY-W43B-2 PJRY-W43B-3 PJRY-W43B-4 PJRY-W50B-3 PJRY-W50B-4	PJRY-W50C-2 PJRY-W57C-4	PJRY-W29D-2 PJRY-W57D-2 PJRY-W57D-3

cantaport

Parts instruction guide

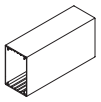
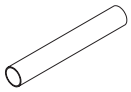
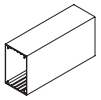
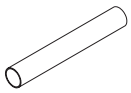
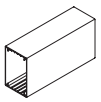
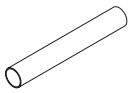
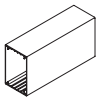
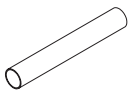
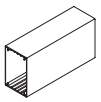
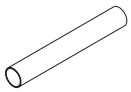
Body size: Depth D	Body size: Length W	Component parts: Post: Standard post	Component parts: Post: Long post	Component parts: Post: Extra-long post	Component parts: Beam	Component parts: Main frame
18	22	①	①	⑥	①	①
	29					④
	43					②
	50					③
	57					④
21	22					①
	29					④
	43					②
	50	②	②			③
	57				②	④
24	43	③	③	⑦	①	②
	50					
	57				③	④
25	43				①	②
	50				③	
	57	④	④			④
27	43	③	③		②	②
	50				③	
	57	④	④		④	④
30	43					②
	50	⑤	⑤			
	57				⑤	③
33	43	③	③		③	①
	50	④	④		④	
	57	⑤	⑤		⑤	

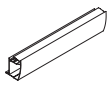
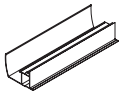
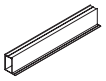
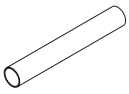
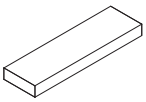
diy cantaport

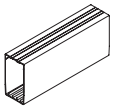
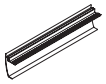
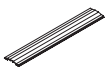
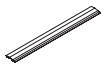
Parts contents

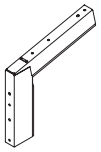
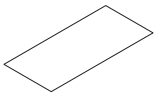
☐Please open the captioned carton and check all contents in advance.
☐Please check the parts defective or any damage.
☐After opening the carton boxes, please store the products so that they are not damaged.
☐We packed some extra screw in the parts box. (x) number is necessary Q'ty for installation.

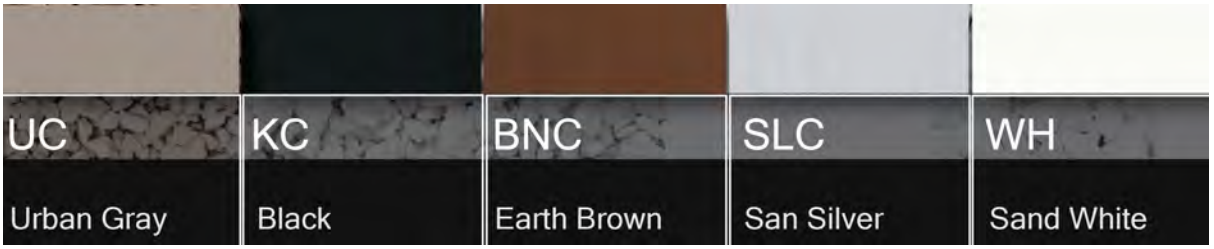
When △mark is P, it's the polycarbonate panel.
When △mark is PS, it's polycarbonate panel (SI)
When △mark is CP, it's the heat protection polycarbonate panel.
When △mark is CH, it's heat protection FRP (SI)

Parts ID	Content		
	Description	Shape	Quantity
Post set (standard) **PJRH-18A** **PJRH-18B** **PJRH-18C** **PJRH-18D** **PJRH-18E**	Post		2
	Round gutter GA4923		1
	Instruction manual		1
Post set (1pc) (standard) **PJRH-18A-1** **PJRH-18B-1** **PJRH-18C-1** **PJRH-18D-1** **PJRH-18E-1**	Post		1
	Round gutter GA4923		1
Post set (long post) **PJRH-23A** **PJRH-23B** **PJRH-23C** **PJRH-23D** **PJRH-23E**	Post		2
	Round gutter GA4923		1
	Instruction manual		1
Post set (1pc) (long post) **PJRH-23A-1** **PJRH-23B-1** **PJRH-23C-1** **PJRH-23D-1** **PJRH-23E-1**	Post		1
	Round gutter GA4923		1
Post set (extra-long post) **PJRH-28F-1** **PJRH-28G-1**	Post		1
	Round gutter GA4923		1
	Instruction manual		1

Parts ID	Content			
	Description	Shape	Quantity	
Length set **PJRY-W22A-2** **PJRY-W29D-2** **PJRY-W43A-4** **PJRY-W43B-2** **PJRY-W43B-3** **PJRY-W43B-4** **PJRY-W50A-4** **PJRY-W50C-2** **PJRY-W50B-3** **PJRY-W50B-4** **PJRY-W57A-4** **PJRY-W57D-2** **PJRY-W57D-3** **PJRY-W57C-4**	Front frame		1	
	Gutter		1	
	Main frame		**PJRY-W22A-2**	2
			PJRY-W29D-2	
			PJRY-W43A-4	4
			PJRY-W43B-2	2
			PJRY-W43B-3	3
			PJRY-W43B-4	4
			PJRY-W50A-4	
			PJRY-W50C-2	2
			PJRY-W50B-3	3
			PJRY-W50B-4	4
			PJRY-W57A-4	
			PJRY-W57D-2	2
			PJRY-W57D-3	3
			PJRY-W57C-4	4
	Panel holder (middle) L=645		**PJRY-W22A-2**	2
			PJRY-W29D-2	3
			PJRY-W43○-○	5
			PJRY-W50○-○	6
			PJRY-W57○-○	7
	Panel holder (end) L=300		2	
	Round gutter GA4923		1	
	Roof panel cushion GB8274		**PJRY-W22A-2**	6
			PJRY-W29D-2	8
			PJRY-W43A-4	24
			PJRY-W43B-2	12
			PJRY-W43B-3	18
			PJRY-W43B-4	24
			PJRY-W50A-4	28
			PJRY-W50C-2	14
			PJRY-W50B-3	21
			PJRY-W50B-4	28
			PJRY-W57A-4	32
			PJRY-W57D-2	16
			PJRY-W57D-3	24
			PJRY-W57C-4	32

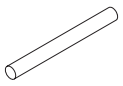
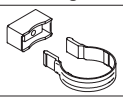
Parts ID	Content			
	Description	Shape	Quantity	
Beam･depth set **PJRT-2218A** **PJRT-2221A** **PJRT-2918A** **PJRT-2921A** **PJRT-4318A** **PJRT-4321A** **PJRT-4324A** **PJRT-4325A** **PJRT-4327B** **PJRT-4330D** **PJRT-4333C** **PJRT-5018A** **PJRT-5021A** **PJRT-5024A** **PJRT-5025C** **PJRT-5027C** **PJRT-5030D** **PJRT-5033D** **PJRT-5718A** **PJRT-5721B** **PJRT-5724C** **PJRT-5725C** **PJRT-5727D** **PJRT-5730E** **PJRT-5733E**	Beam		**PJRT-22○○○** **PJRT-29○○○** **PJRT-43○○○** **PJRT-50○○○** **PJRT-57○○○**	2
			PJRT-4333C **PJRT-5033D** **PJRT-5733E**	3
	Side frame		2	
	Roof rafter		**PJRT-22○○○**	2
			PJRT-29○○○	3
			PJRT-43○○○	5
			PJRT-50○○○	6
			PJRT-57○○○	7
	Roof retainer (middle)		**PJRT-22○○○**	2
			PJRT-29○○○	3
			PJRT-43○○○	5
			PJRT-50○○○	6
			PJRT-57○○○	7
	Roof retainer (end)		2	
	Small truss screw 5×10×10		**PJRT-2218A**	48(46)
			PJRT-2221A	53(50)
			PJRT-2918A	55(52)
			PJRT-2921A	60(57)
			PJRT-4318A	67(64)
			PJRT-4321A	75(71)
			PJRT-4324A	86(82)
			PJRT-4325A	93(89)
			PJRT-4327B	96(91)
			PJRT-4330D	107(102)
			PJRT-4333C	155(150)
			PJRT-5018A	74(70)
			PJRT-5021A	82(78)
			PJRT-5024A	95(90)
			PJRT-5025C	103(98)
			PJRT-5027C	105(100)
			PJRT-5030D	118(113)
			PJRT-5033D	172(167)
			PJRT-5718A	80(76)
			PJRT-5721B	89(85)
			PJRT-5724C	103(98)
			PJRT-5725C	112(107)
			PJRT-5727D	114(109)
			PJRT-5730E	128(123)
			PJRT-5733E	189(184)

Parts ID	Content			
	Description	Shape	Quantity	
	Drilling screw 4×10×8		**PJRT-2218A** **PJRT-2221A**	26(24)
			PJRT-2918A **PJRT-2921A**	32(30)
			PJRT-4318A **PJRT-4321A**	44(42)
			PJRT-4324A **PJRT-4325A** **PJRT-4327B**	51(49)
			PJRT-4330D **PJRT-4333C**	59(56)
			PJRT-5018A **PJRT-5021A**	50(48)
			PJRT-5024A **PJRT-5025C** **PJRT-5027C**	59(56)
			PJRT-5030D **PJRT-5033D**	67(64)
			PJRT-5718A **PJRT-5721B**	57(54)
			PJRT-5724C **PJRT-5725C** **PJRT-5727D**	66(63)
			PJRT-5730E **PJRT-5733E**	76(72)
Corner parts set **PJR-CBC-1** **PJR-CBA** **PJR-CBB** **PJR-CBC**	Corner bracket GB8062 GB8063 GB8064		**PJR-CB○-1**	1
			PJR-CB○	2
Roof panel set **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:SI) GB4575 (Heat protection polycarbonate) GB5626 (Heat protection FRP:SI)		**PJRY-△○○-3**	3
			PJRY-△○○-4	4

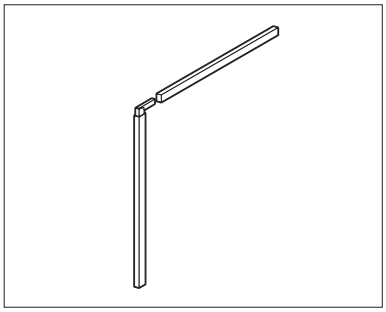


Necessary tools and materials for installation

- ☐Electric drill, Drill bits
- ☐Ratchet wrench, Adjustable wrench
- ☐Screwdriver
- ☐Measure, Level, Plumb bob
- ☐Foundation materials, concrete as per engineers specifications
- ☐Sealant, silicon gun
- ☐Drop saw for reducing or customising the structure
- ☐Please prepare tools and materials as required

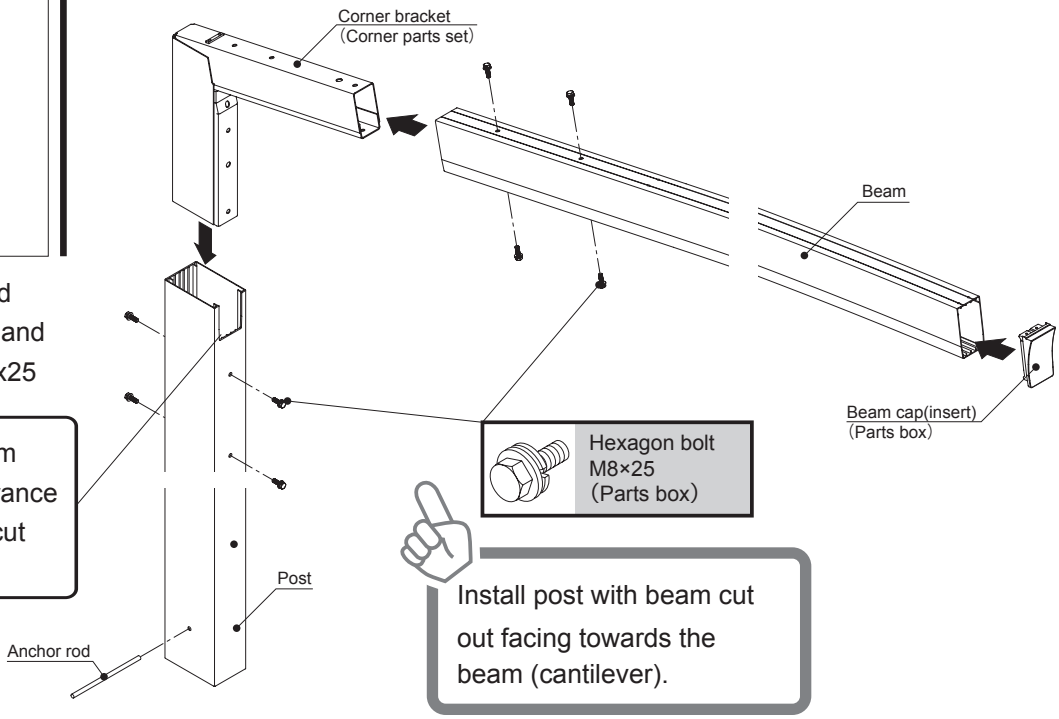
Parts ID	Content			
	Description	Shape	Quantity	
Parts box **PJRB-A** **PJRB-B** **PJRB-B-1**	Anchor rod GA0073		**PJRB-B-1**	1
			PJRB-○	2
	Post cap GB8071 GB8072		**PJRB-B-1**	1
			PJRB-○	2
	Beam cap GB8073		**PJRB-B-1**	1
			PJRB-○	2
	Hole seal ϕ14 GA0150		**PJRB-B-1**	12
			PJRB-A	16
			PJRB-B	24
	Hexagon bolt (with spring washer, washer) M8×25 ES0249		**PJRB-B-1**	8
			PJRB-○	16
	Small truss screw 5×10×10		**PJRB-B-1**	13(12)
	Front frame cap GB8074		**PJRB-○**	Right Left each 1pc
	Gutter cap GB8075		**PJRB-○**	Right Left each 1pc
	Gutter attachment GA4929		**PJRB-○**	1
	Gasket GA4930		**PJRB-○**	1
	Elbow GA4932		**PJRB-○**	2
	Drain elbow GA6461		**PJRB-○**	1
	Saddle GB8077		**PJRB-○**	3
	Drilling screw 4×10×8		**PJRB-○**	6(5)
	Glue GA4934		**PJRB-○**	1
	Caution label GLZ20C		**PJRB-○**	1
	Product name label HY0173		**PJRB-○**	1
	Snow label HY0177		**PJRB-○**	1
	Assembling manual		**PJRB-○**	1

1 Installation of posts and beams



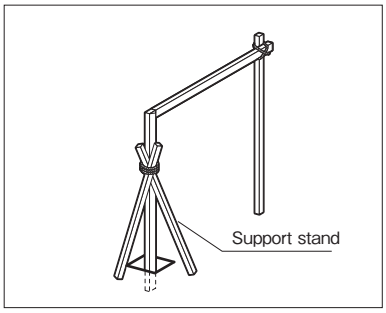
- Connect between post and beam with corner bracket and fix with hexagon bolts M8x25

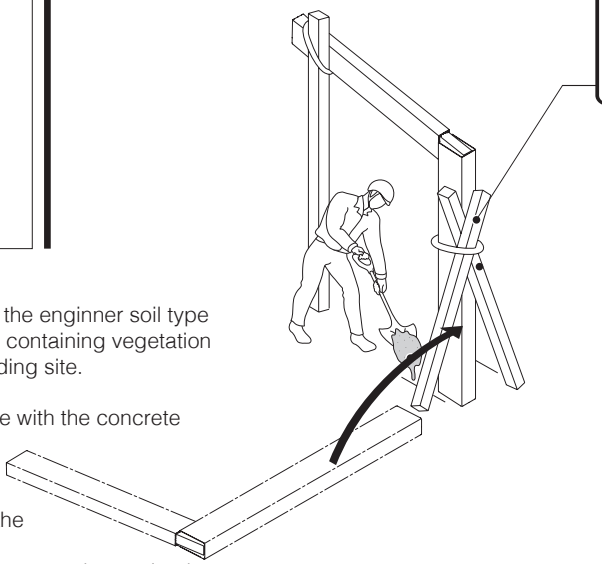
Take the overall height from ground level to beam clearance from the underside of the cut out. Heights on Page 2



Install post with beam cut out facing towards the beam (cantilever).

2 Installation to base hole



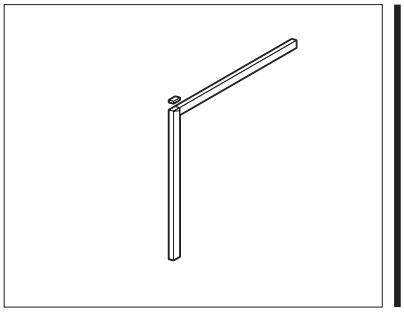


Step1 Insert the post into the base hole, and fix with support stand.

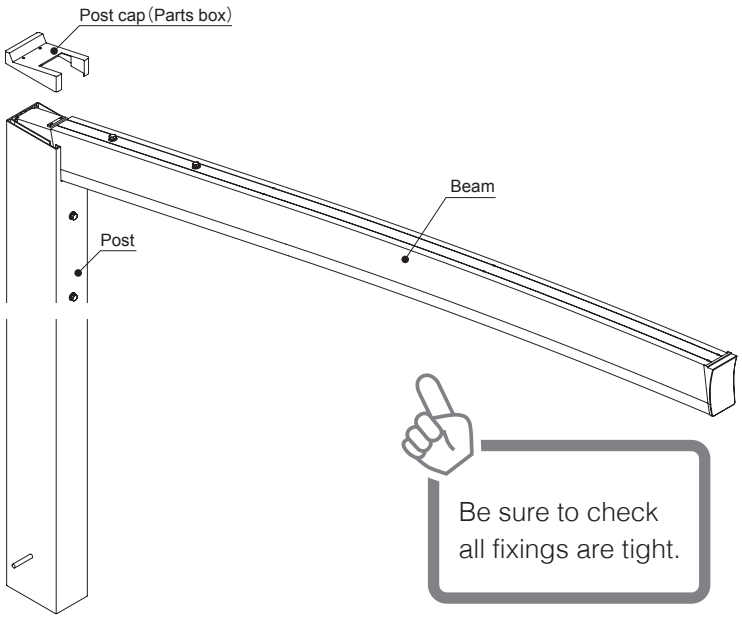
FOUNDATIONS
1. All soil testing to be carried out by the enginner soil type and conditions. 2. Remove all topsoil containing vegetation & deletrious fill materail from the building site.
Concrete Notes :
1. All concrete shall be in accordance with the concrete structure code AS 3600.
2. Blended cement (type GB) shall conform with AS 3972 3. Water must not be added to the mix to increase the slump at any time.
3. Concrete shall be supplied by an approved pre-mixed company and conform to the following unless noted otherwise :
GRADE SLUMP MAX. AGG. FOOTINGS N20 80mm 30mm

METAL SLEEVES
Metal sleeves assist with the installation and also act as a further stiffener and support to the structure. The metal sleeves are inserted into the conrete footing of 650mm. The balance of the metal sleeve is above ground level. The cantaport post then slides over the metal sleeve. The height of the cantaport posts can be adjusted by cutting from the base of the post. The metal sleeve eliminates error in height. Baseplate metal sleeves can also be ordered for plate and bolt fixing. See engineering details on page 4 to determine if the application is suitable for your application. Alternative option is the SUREFOOT system. More details on page 4. Metal sleeves are available as a seperate accessory.

3 Attaching the post cap

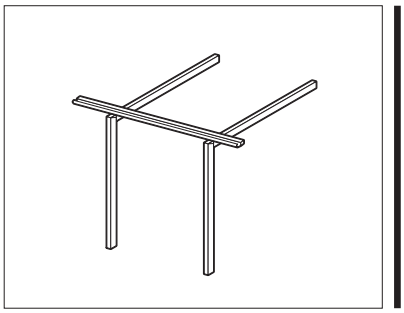


● Attach the post cap onto the post

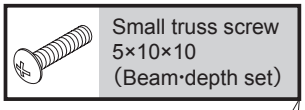


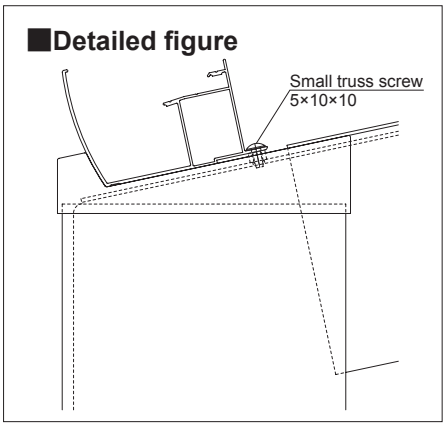
Be sure to check all fixings are tight.

4 Installation of gutter

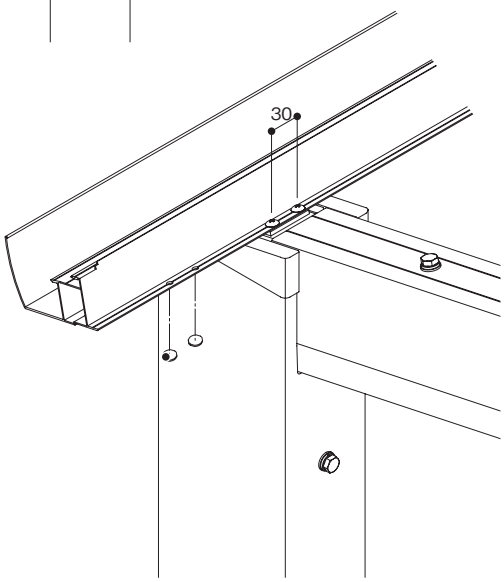


● Install the gutter to the corner bracket with small truss screw 5x10x10.

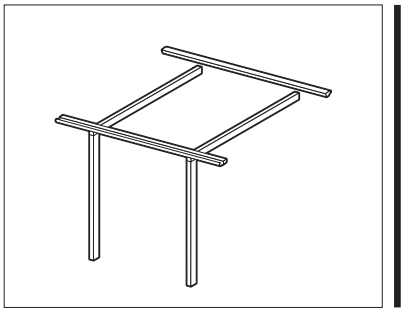




Take care when fixing small truss screws to not shear the screw head. Impact drill recommended

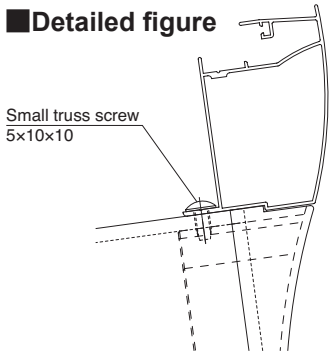


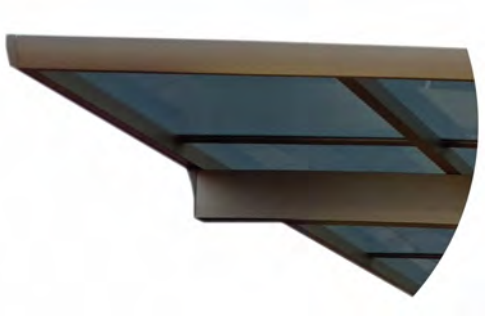
5 Installation of front frame

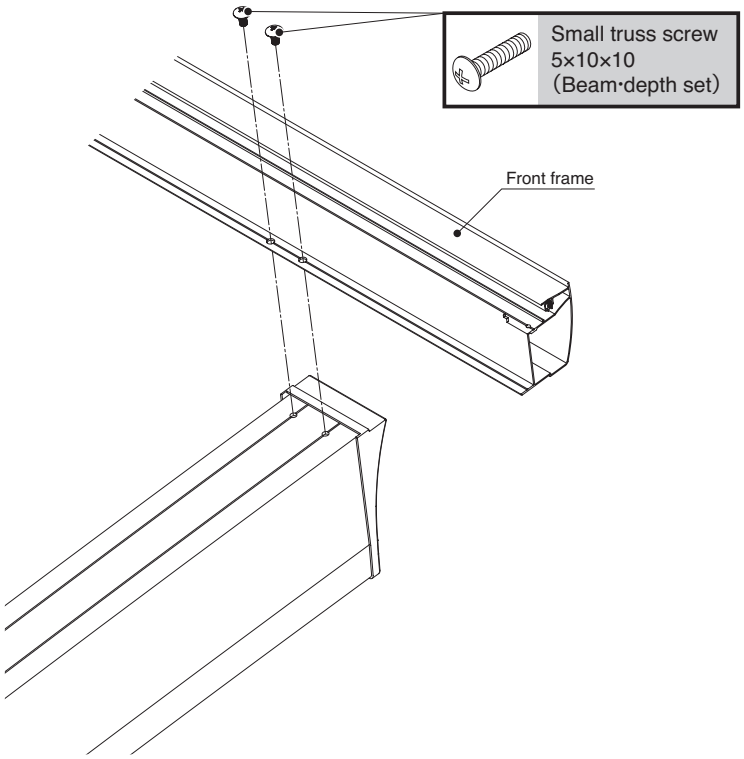


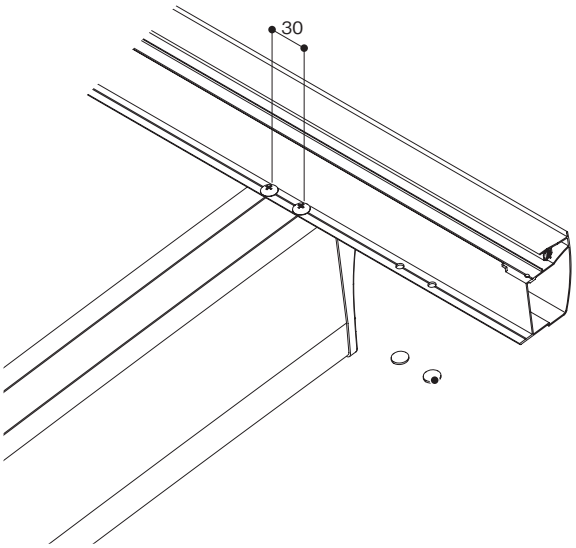
● Install the front frame to the beam with small truss screw 5x10x10.

■Detailed figure







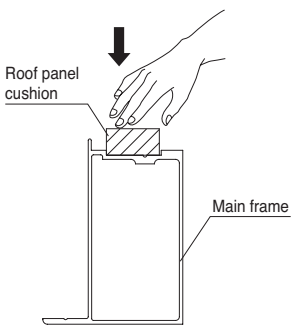


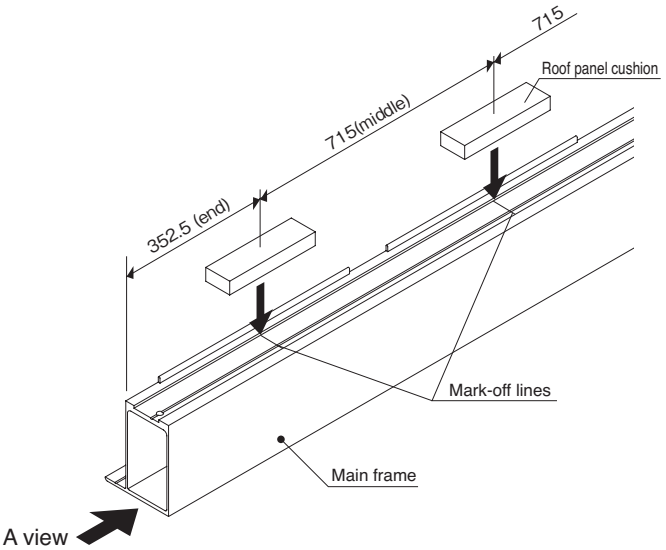
6 Attaching the roof panel cushions

● Attach the roof panel cushions on the marked etched lines on top of main frame.

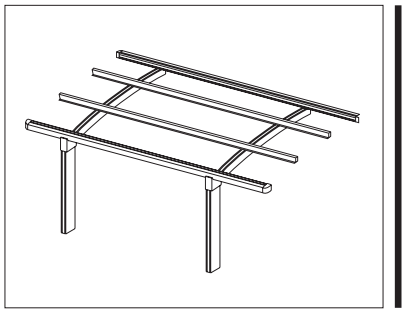
■A view drawing

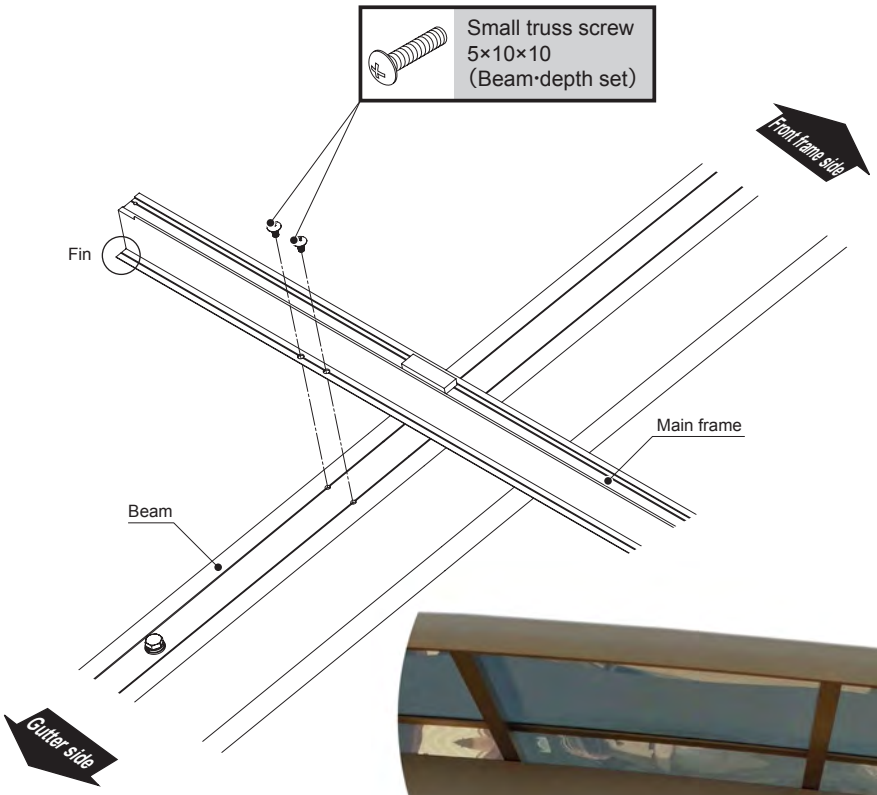
※Push the roof panel cushion firmly onto the top of the main frame section .





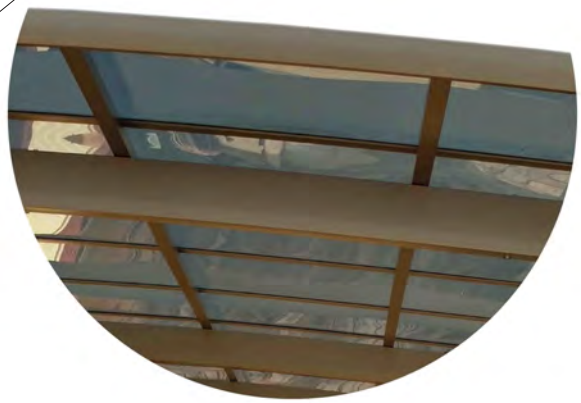
7 Installation of main frame





● Install the main frame to the beam adjusting the guide hole with small truss screw 5x10x10.

※NOTE: fin of main frame purlin to face towards the gutter end.

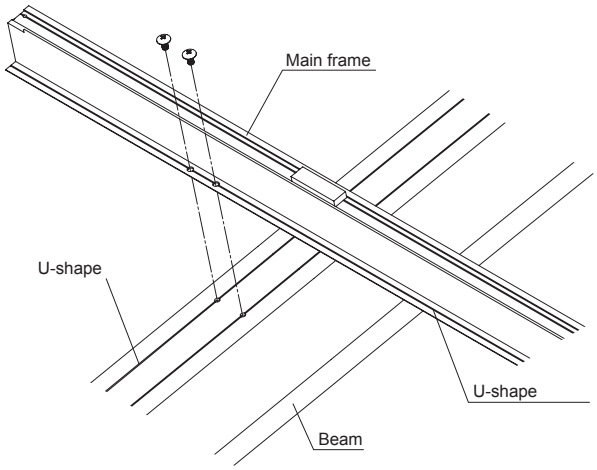


In case of installing the post other than the post standard position.

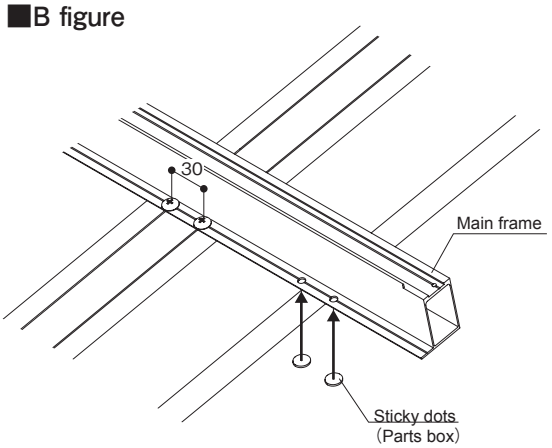
● Drill two ϕ5.5 holes on the main frame positioned in the U-shape on the beam and main frame, and screw through. (A. figure)

● Place sticker dots over pre drilled holes to cover the hole . (B. figure)

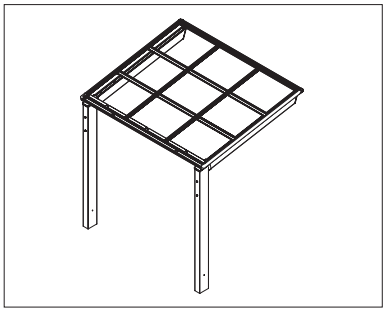
■A figure



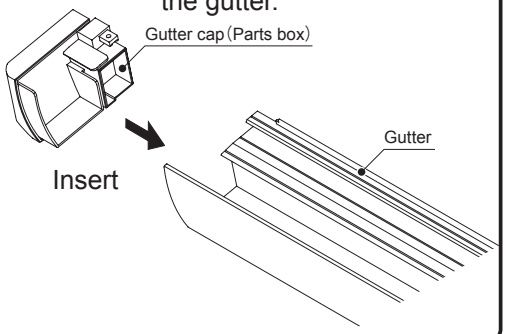
■B figure



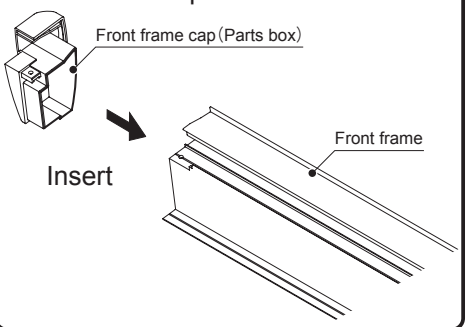
8 Installation of side frame

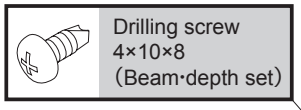


Step1 Attach the gutter cap into the gutter.



Step1 Attach the front frame cap into the front frame.





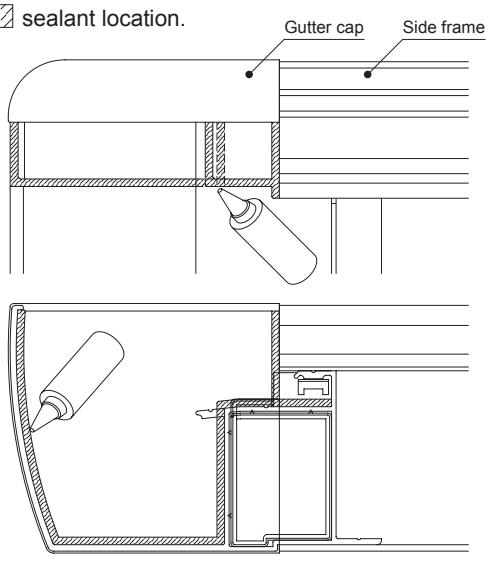
Drilling screw
4×10×8
(Beam･depth set)

Step3 After installing step 2 apply sealant to the gutter ends.

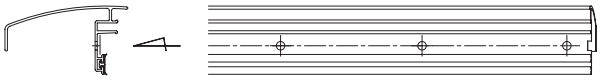
Step2 Install the side frame to the gutter, main frame and front frame using guide holes with screws 4x10x8.

■Detailed figure for sealant application

sealant location.

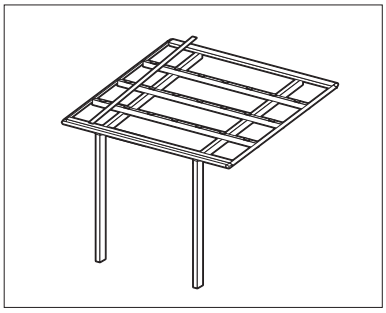


NOTE: Common mistake of installing the wrong side frame. The two side frames provided, one is made for the right side and one for the left side. Match the curve to the beam.



Front
frame side

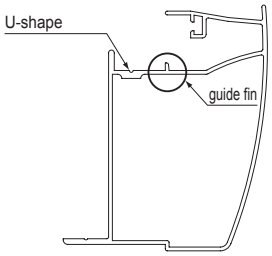
9 Installation of roof rafter



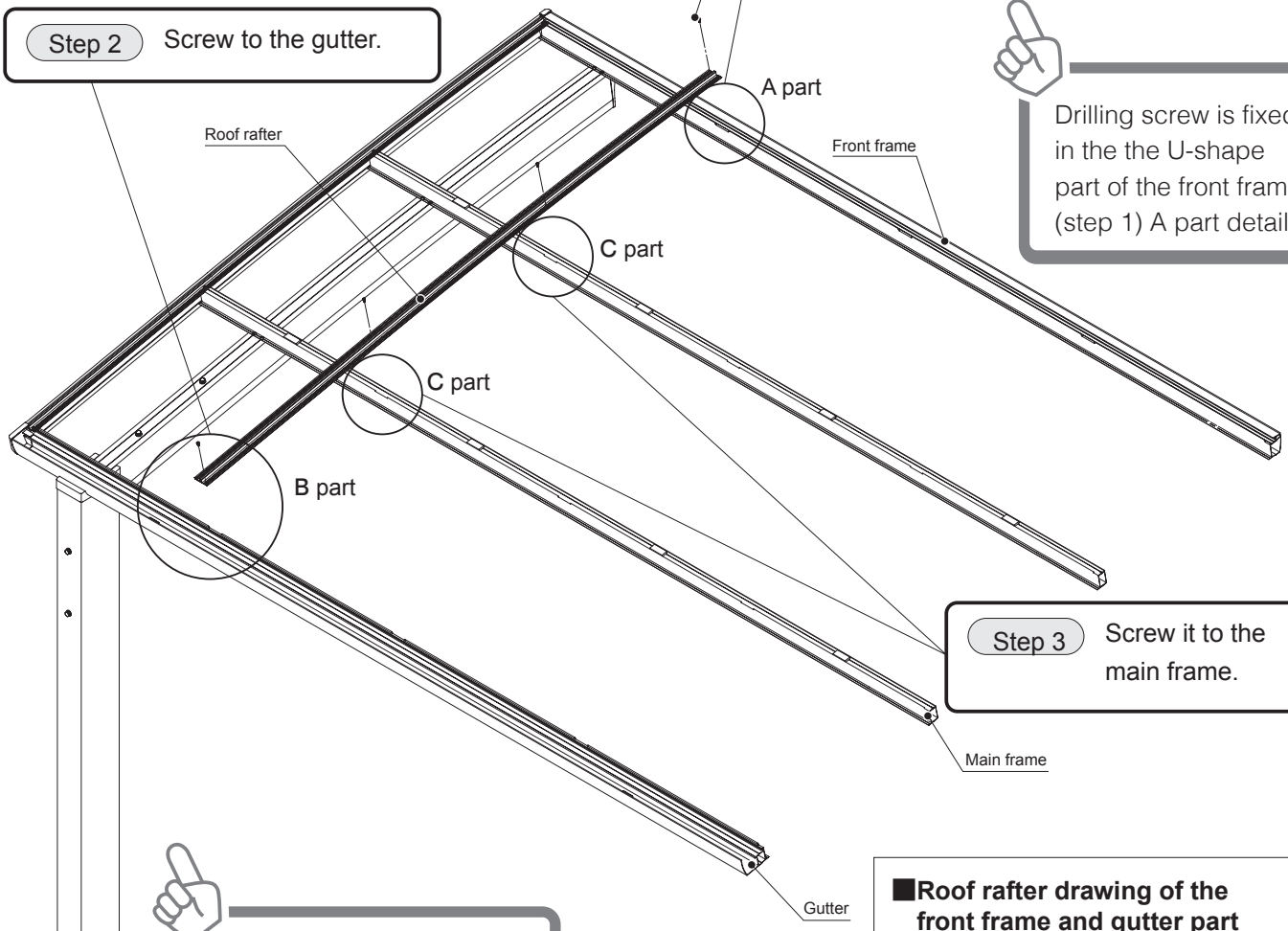
Step1 Screw the roof rafter first to the front frame. The rafter is placed in front of the guide fin. See A part

Drilling screw
4×10×8
(Beam·depth set)

■ A part detail



Step 2 Screw to the gutter.

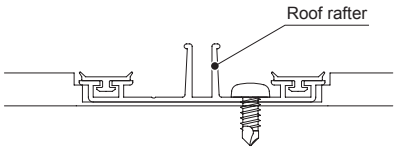


Drilling screw is fixed in the the U-shape part of the front frame (step 1) A part detail.

Step 3 Screw it to the main frame.

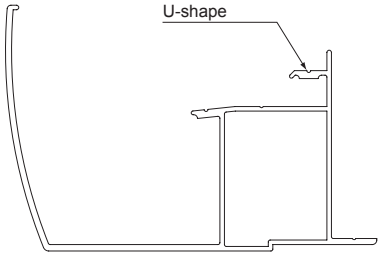
- Drilling screw is fixed in the the U-shape part of the front gutter (step2) B part.
- Drilling screw is fixed in the the U-shape part of the main frame (step3) C part .

■Roof rafter drawing of the front frame and gutter part

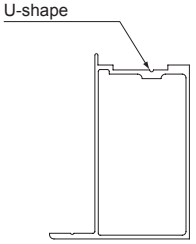


※Fix the roof rafter firmly.

■B part detailed drawing



■C part detailed drawing

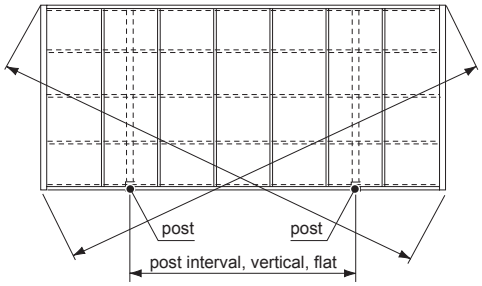


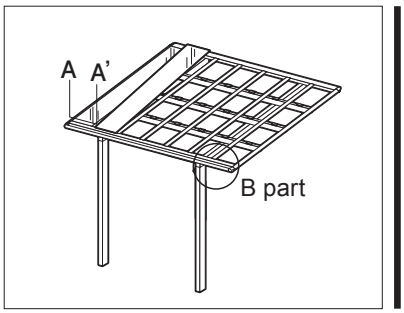
10 Installation of roof panels

Before installing the roof panels

※Check post interval, flat and the diagonal dimension of the roof is equal.

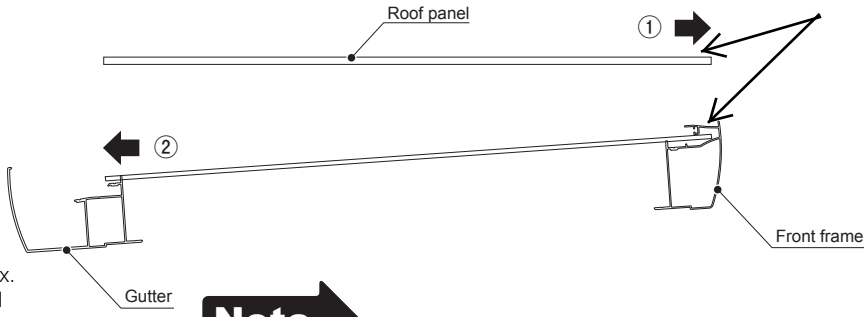
※In case diagonal dimension of the roof is not equal, loosen the screws of the front frame, gutter, main frame and beam and adjust them.





Insert the roof panel into the front frame and then set on the gutter side.

Always push sheet as far as it can go into the front fascia. Always start at fascia end.



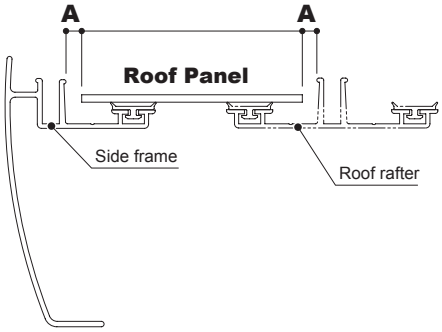
Polycarbonate sheet has impact resistance approx. 250 times higher than glass. It can even withstand being hit with a hammer. The polycarbonate roof can protect you from harsh weather conditions such as hail. In addition, since it does not harden, it is suitable for use in cold climates.
The Heat Protection Bluesmoke Polycarbonate sheeting reduces the heat by 83%.

Note

In case of heat absorb polycarbonate (SI), attach the uneven side down. In case of polycarbonate (AO) and heat protection polycarbonate (AO), there are no two sides because both sides are weatherproof.

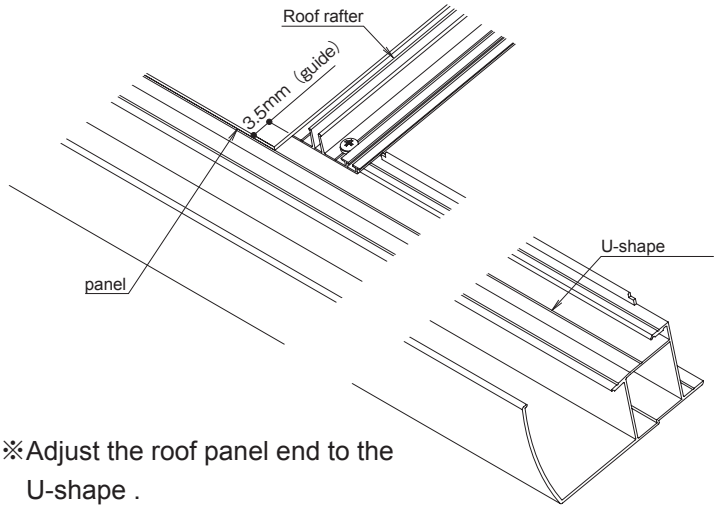
※When installing roof panels, please note below.

■A-A' section drawing



※Sort the panel equally right and left. Otherwise the expansion of panels resulting from temperature changes may causes cracking sounds.

■B part detailed drawing



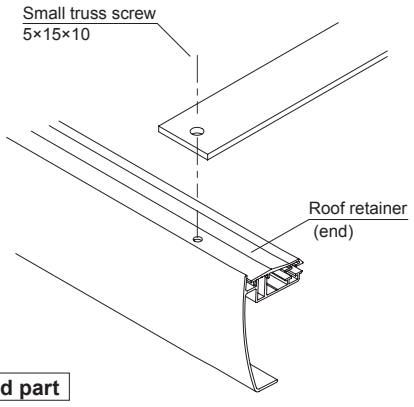
※Adjust the roof panel end to the U-shape .

■Installation of roof panels for D33 Not required for 3.0m wide models

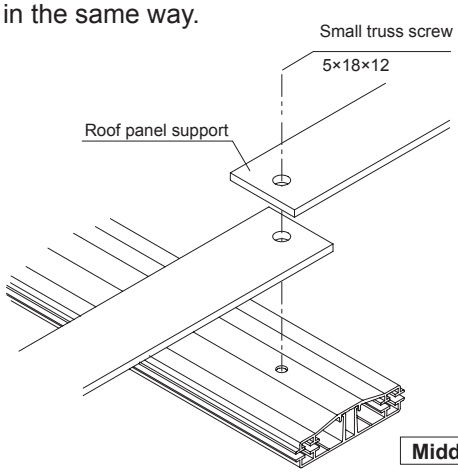
①Install 2 sheets of roof panel from the end of the cantaport.

②After installing the roof retainer (end) and the next roof retainer (middle), install the roof panel support at the position of 4th screw from the roof retainer from the gutter side.

③I nstall the roof panels and roof panel supports in one by one in the same way.



End part

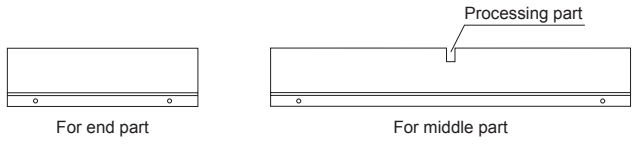


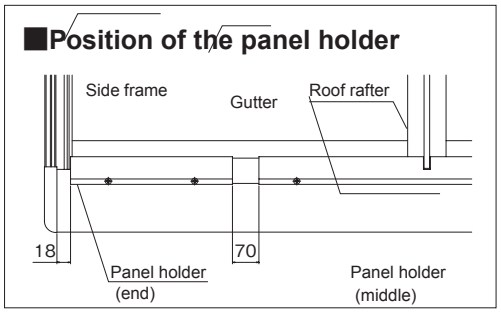
Middle part

※When installing the roof panel support on roof retainer (end), use the small truss screw 5x15x10 in the roof panel support set instead of small truss screw 5x10x10 in the depth set. Use small truss screw 5x18x12 on the roof retainer (middle) overlapping the roof panel supports.

11 Installation of panel holder

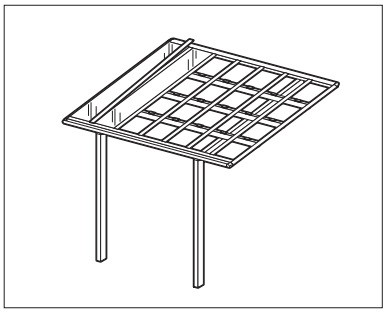
● Install the panel holders adjusting on the U-shape of the gutter frame as a guide, and fix with drilling screw 4x10x8.
※Insert the cutout part of panel holder over the roof rafter (middle section) and install it.





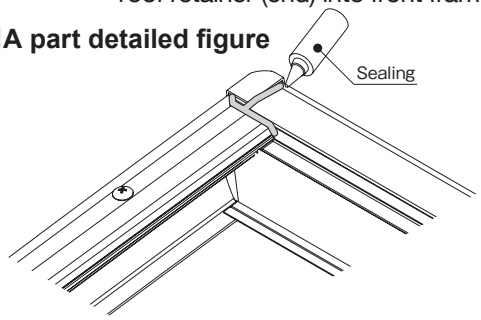
REMINDER DO NOT FORGET THE INSTALLATION OF THE PANEL HOLDERS. THEY SUPPORT THE END OF THE ROOF PANEL.

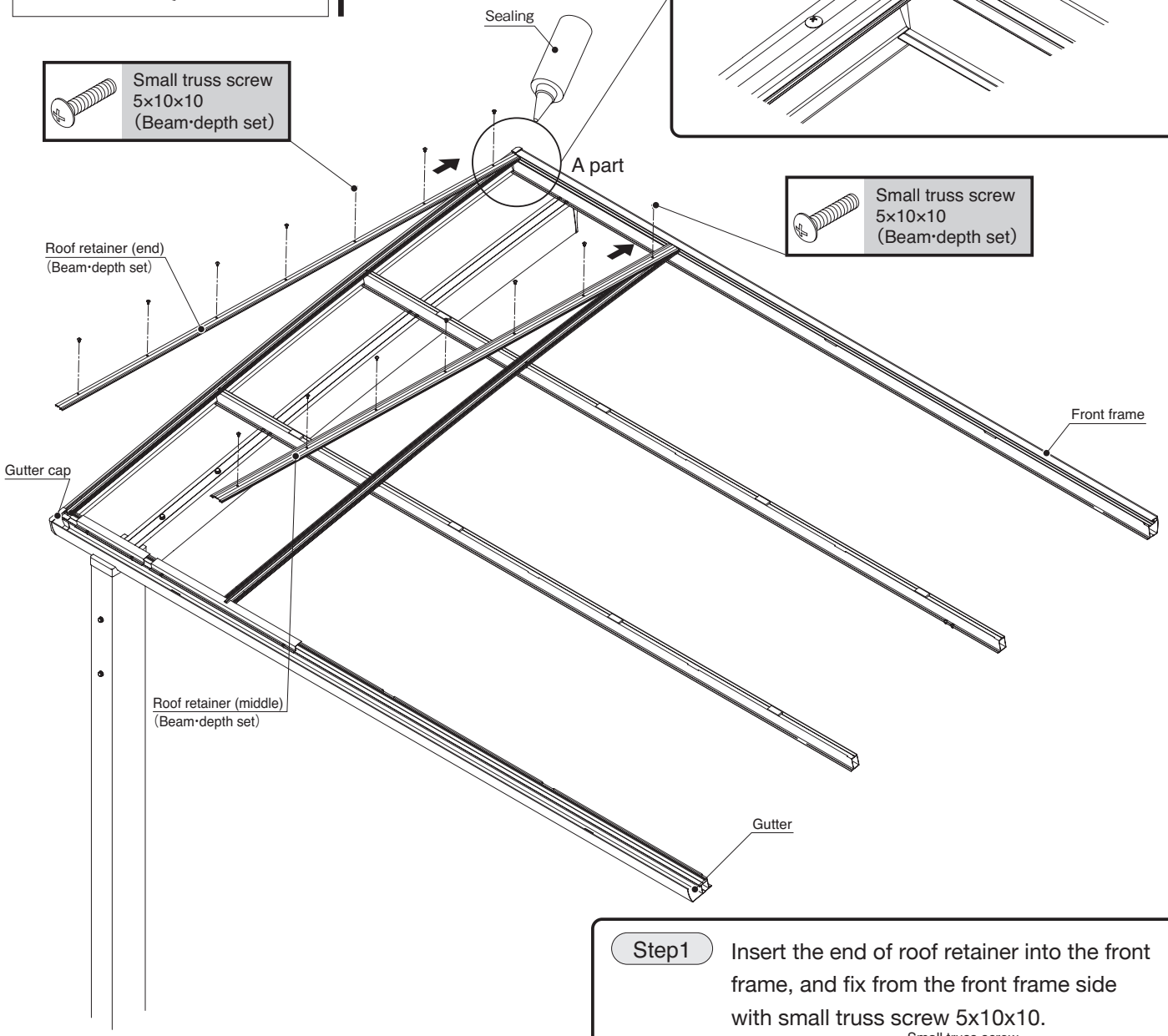
12 Installation of roof retainer



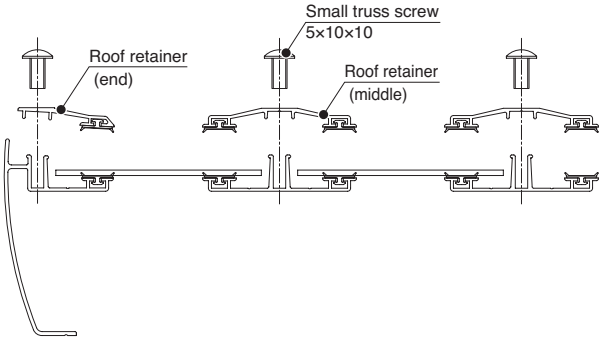
Step2 Apply sealant to the insert part of roof retainer (end) into front frame.

■**A part detailed figure**





Step1 Insert the end of roof retainer into the front frame, and fix from the front frame side with small truss screw 5x10x10.

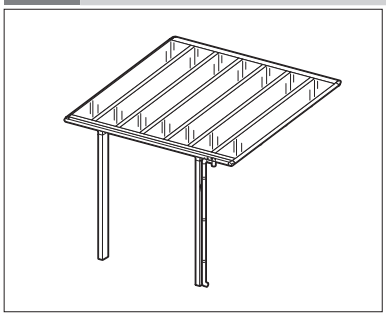


※When fixing the roof retainer (end), insert the end part of roof retainer into the gutter cap before fixing the second screw from the post side.

Notice

- If the screw installing into 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 the screw straight.

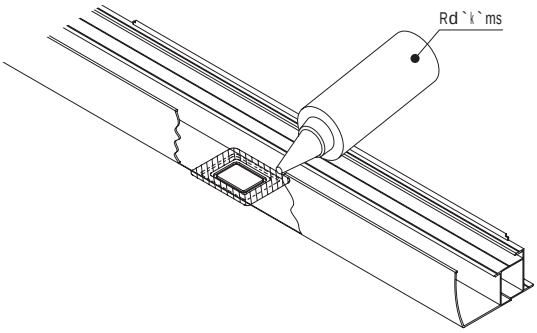
13 Attaching the round gutter parts

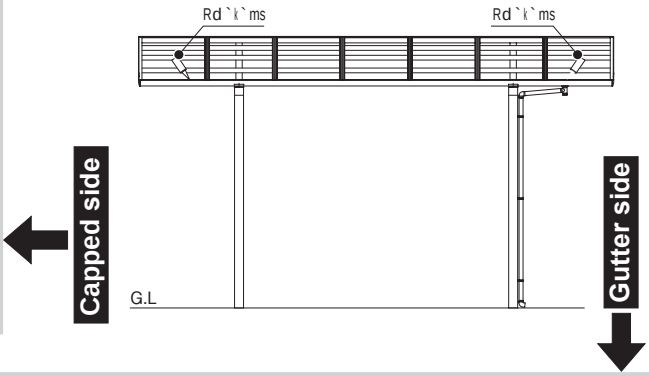


●Xli pirkxl sj vsyrh kyxxiv hmjjiww hitirhmrk sr xli tswx tswmxmsr erh limklx2
Gyx xli kyxxiv pirkxl sr1wmxi xs wymx2

Capped side

●Wiep evsyrh gettih irh sj kyxxiv2

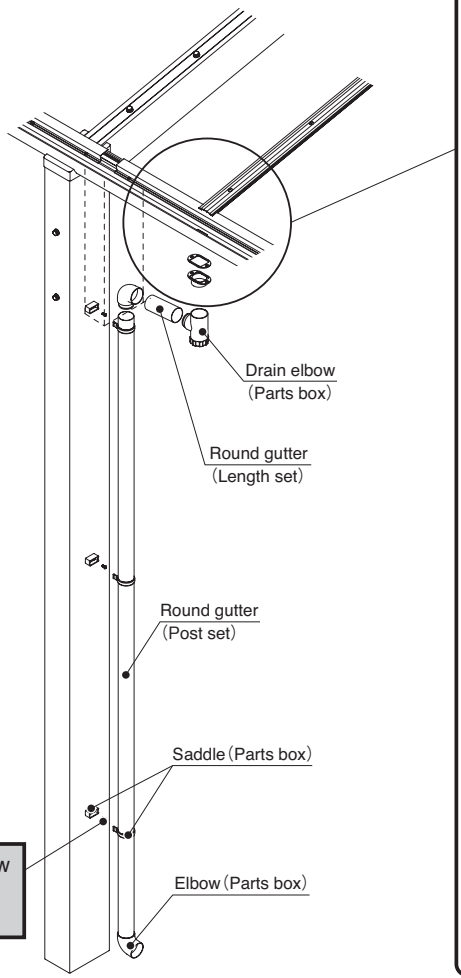


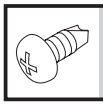


Gutter side

③Use glue in the parts box for rain gutter parts.

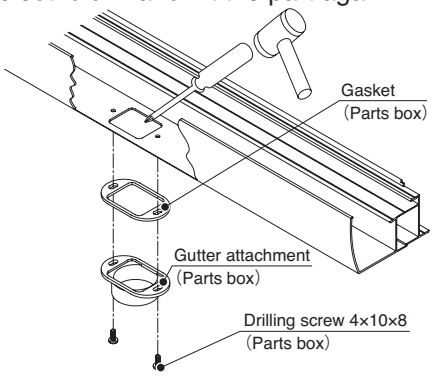
Using drain elbow which can remove dust accumulated in the rain makes its maintenance easier.



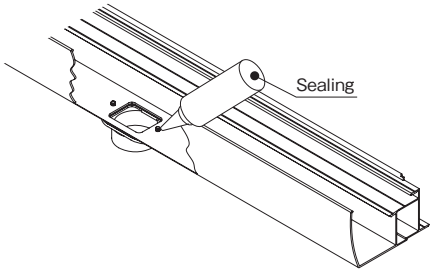

Drilling screw 4×10×8 (Parts box)

① Tst syx xli get xs xli glswir wmhi sj xli hs{r tmti mr xli kyxxiv2 Ettp} kewoix xs i|tswih syxpix2

※In case that it could not crush, use electric drill and hit the part again



②Screw the gutter attachment and do sealing work at the screw part.

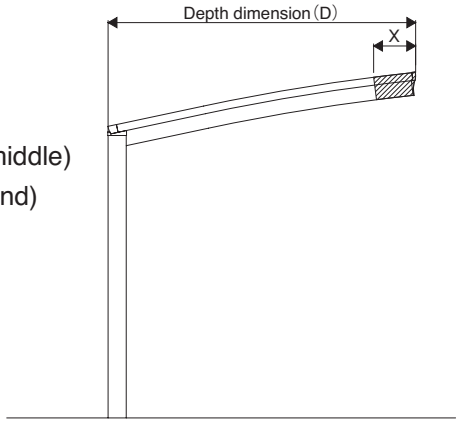


※Be sure to seal around screws in order to prevent danger when cleaning as well as for water proof.

14 Cutting procedure of depth direction

- In case of cutting depth, be sure to cut from the front frame side.
  Subject to the cutting length of the roof, cut and process each part and roof panels. Please be careful of the direction of each part.

1. Cutting the beams
2. Cutting the side frame
3. Cutting the roof rafters
4. Cutting the roof retainers (middle)
5. Cutting the roof retainers (end)
6. Cutting the roof panels



Cut range

X=less than 300mm

The cutting length of each materials are

※1 $X_A = X$

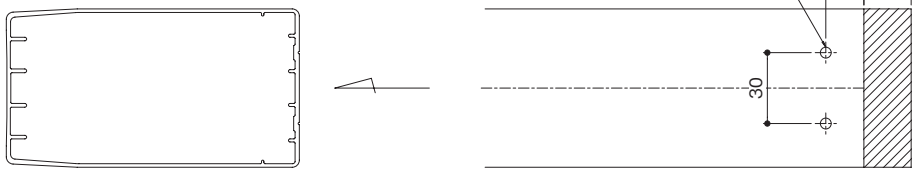
※2 $X_A = \frac{X}{100} \times 101$

1. Beam processing

- When the roof cutting dimension is 100mm, the cutting length of material X_A is

Roof cutting dimension 100mm	
Depth	Cutting length (mm)
24	X_A=101 ※2
27	X_A=100 ※1

Front frame side



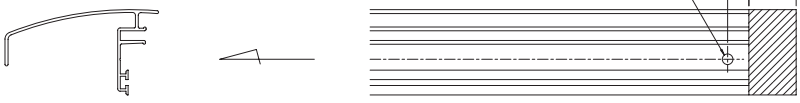
※The roof dimensions determines the length of the beam

2. Side frame processing

- When the roof cutting dimension is 100mm, the cutting length of material X_A is

Roof cutting dimension 100mm	
Depth	Cutting length (mm)
24	X_A=101 ※2
27	

Front frame side



※The roof dimensions determines the length of the frame

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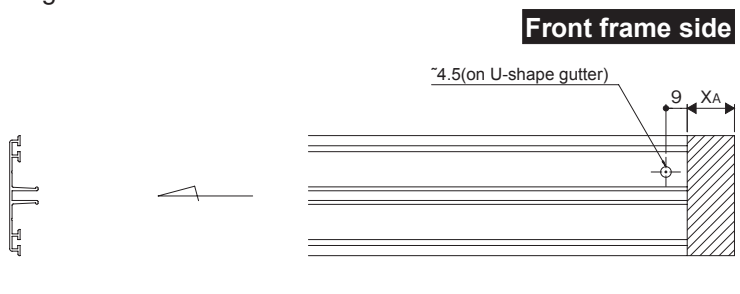
3. Roof rafter processing

● When the roof cutting dimension is 100mm, the cutting length of material X_A is

Roof cutting dimension 100mm	
Depth	Cutting length (mm)
18	X_A=101 ※2
21	
24	
25	
27	
30	
33	

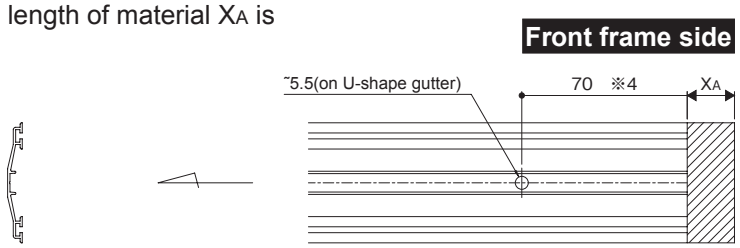


※ The roof dimensions determines the length of the rafter

4. Roof retainer (middle) processing

● When the roof cutting dimension is 100mm, the cutting length of material X_A is

Roof cutting dimension 100mm	
Depth	Cutting length (mm)
18	X_A=101 ※2
21	
24	
25	
27	
30	
33	



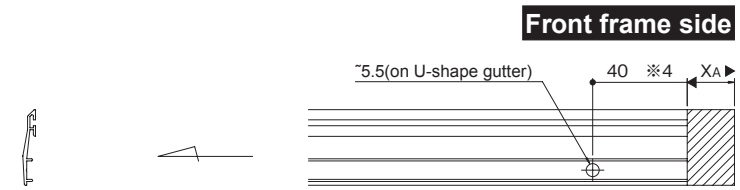
※3 The roof dimensions determines the length of the retainer middle

※4 In case the dimension of pre-hole from end is more than 80mm, drill a new hole.
In case the dimension of pre-hole from end is less than 80mm, a new hole is not required.

5. Roof retainer (end) processing

● When the roof cutting dimension is 100mm, the cutting length of material X_A is

Roof cutting dimension 100mm	
Depth	Cutting length (mm)
18	X_A=101 ※2
21	
24	
25	
27	
30	
33	



※3 The roof dimensions determines the length of the retainer end.

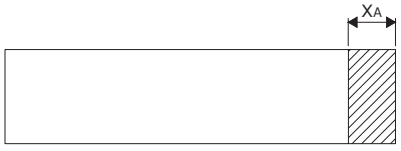
※4 In case the dimension of pre-hole from end is more than 50mm, drill a new hole.

※In case the dimension of pre-hole from end is less than 50mm, a new hole is not required.

6. Roof panel cutting

● When the roof cutting dimension is 100mm, the cutting length of material X_A is

Roof cutting dimension 100mm	
Depth	Cutting length (mm)
18	X_A=101 ※2
21	
24	
25	
27	
30	
33	



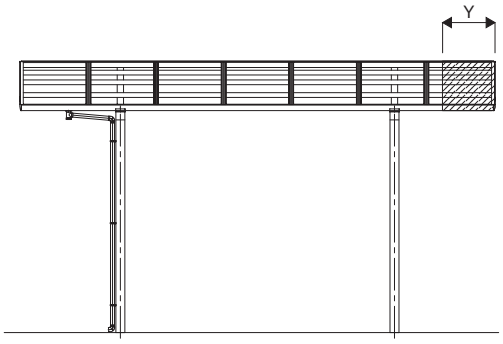
※ The roof dimensions determines the length of the rafter

After processing, install the frame of the roof referring to the procedure of this manual 1~13.

15 Cutting procedures of length direction

- The panel span is 715mm. In the case of cutting the length direction, the cutting dimension of the roof Y is recommended to be in the multiples of 715mm wide. Cut the materials from opposite side of round gutter installation.

1. Cutting the front frame
2. Cutting the gutter
3. Cutting the main frame
4. Cutting the panel holder
5. Cutting roof panel

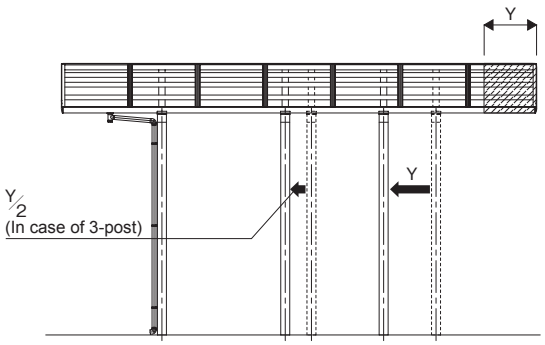


Cut range

Y=less than 1430mm (less than 2 panel pitch)

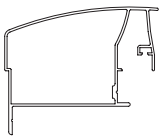
※It can't be cut from 465mm to 535mm for installing drain hole.
From 651 to 714mm and from 1366 to 1429mm are not available because the side frame overlaps to the roof rafter.

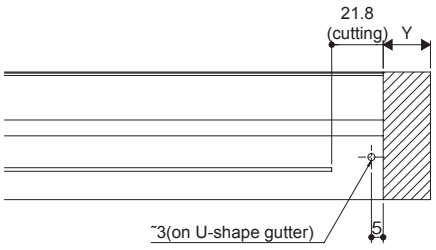
※Move the post as the same length as the cutting dimension of the roof.(In case of D33 the post in the center also needs to be moved.)



1. Front frame processing

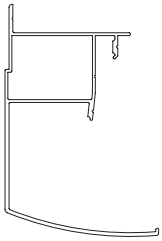
- Cut the materials the same length as the cutting dimension of the roof (Y).

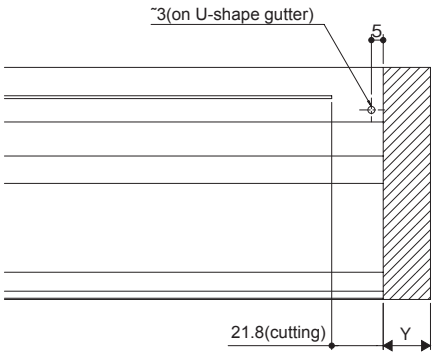




2. Gutter processing

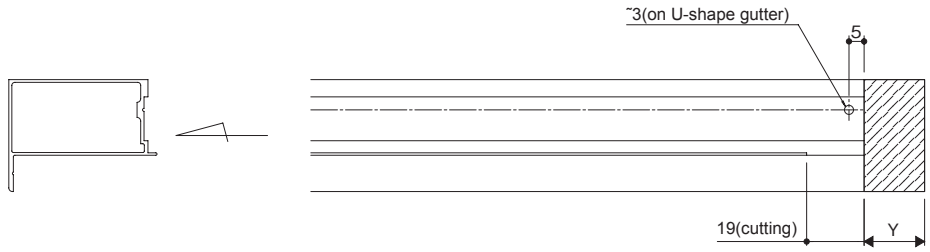
- Cut the materials the same length as the cutting dimension of the roof (Y).





3. Main frame processing

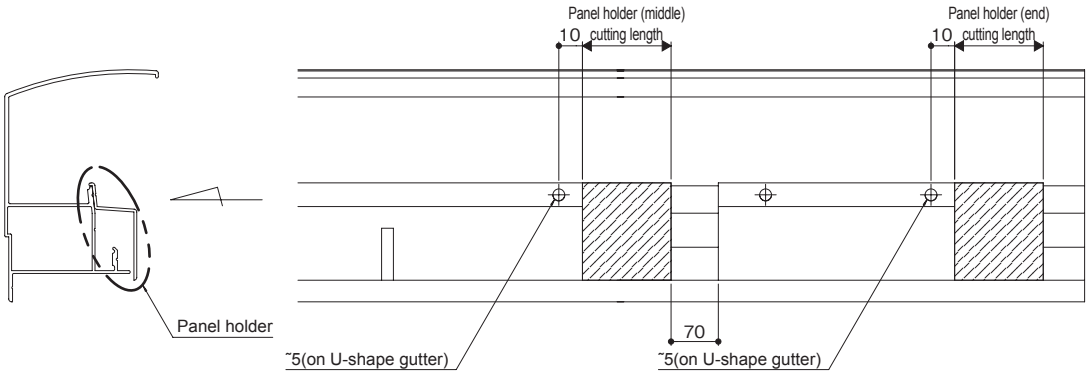
- Cut the materials the same length as the cutting dimension of the roof (Y).



4. Panel holder processing

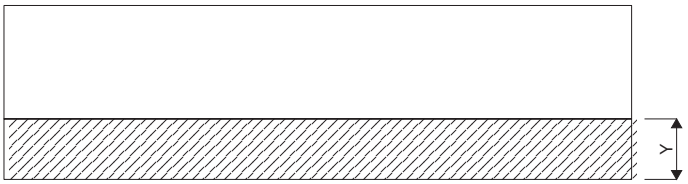
- Cut the panel holder(end) and panel holder (middle) at the cutting length Y referring to the right table. In case the hole overlaps the pre-drilled hole, a new hole is not required.

Cutting length Y	Panel holder (end) cutting length	Panel holder (middle) cutting length
0<Y≦200	Y	No processing
200<Y≦400	Y／2	Y／2
400<Y≦650	No installation	Y−370
715<Y≦915	Y	No processing
915<Y≦1115	Y／2	Y／2
1115<Y≦1365	No installation	Y−370



5. Roof panel cutting

- Cut the materials the same length as the cutting dimension of the roof (Y).



After processing, install the frame of the roof referring to the procedure of this manual 1~13.

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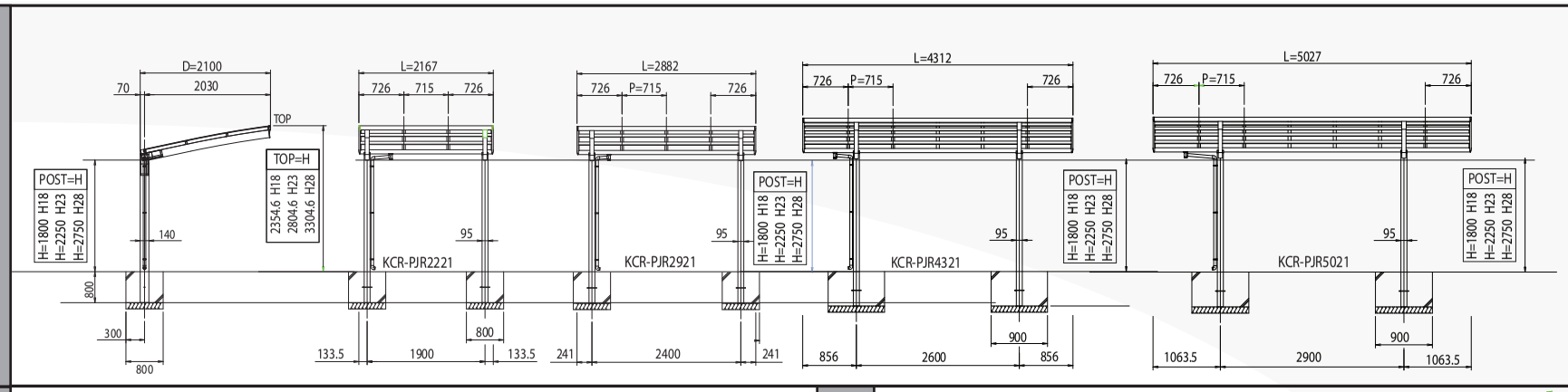
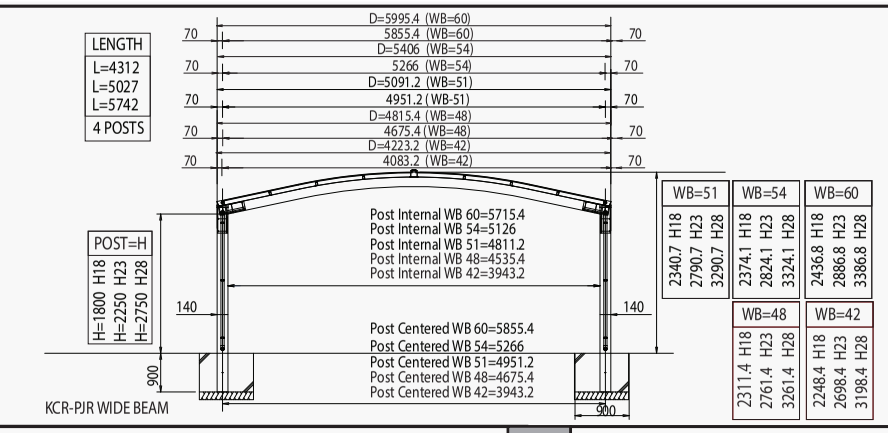
KCR-PJR DEPTH 2100



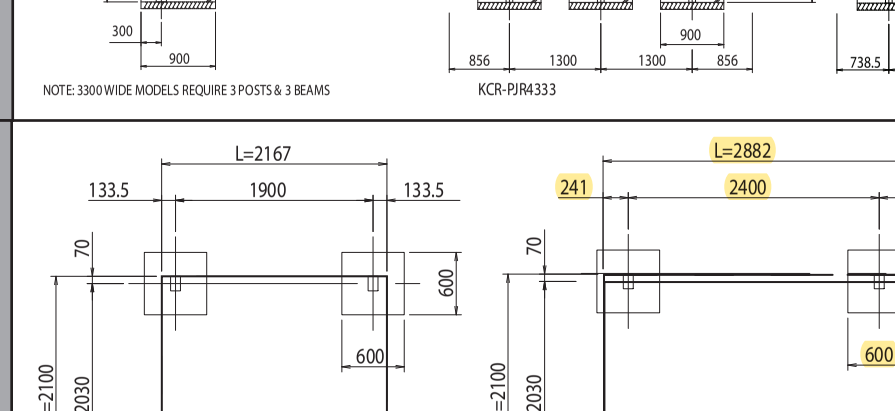
KCR-PJR WIDE BEAM



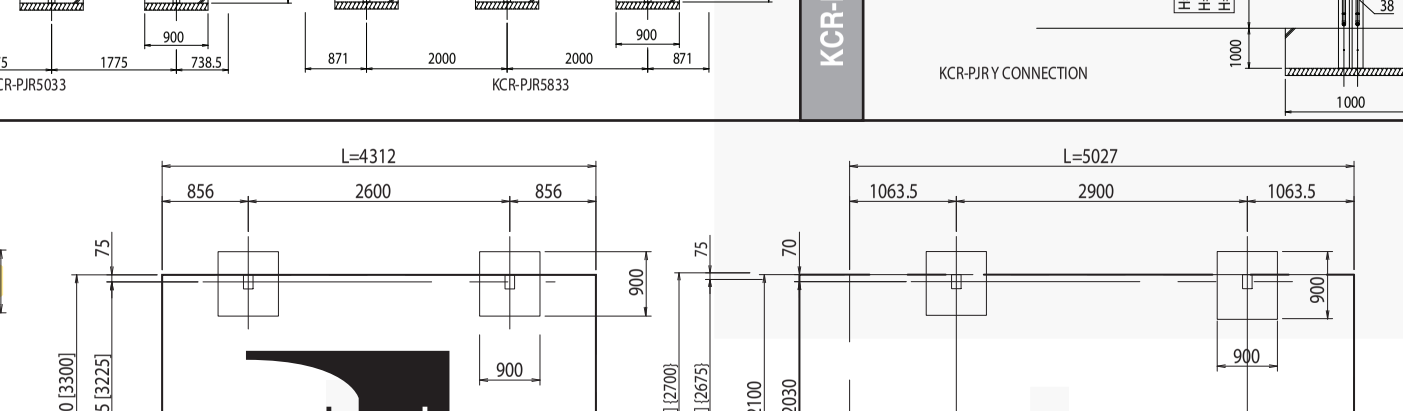
General Notes :

1. Engineering drawings to be read in conjuction with all architectural and other specification drawings.
2. Any discrepancies shall be referred to the engineer for confirmation prior to commencing construction.
3. For setting out dimensions refer to architectural drawings.No dimensions to be obtained by scaling drawings.
4. All dimensions and levels to be checked on site prior to commencing any work.
5. All work to comply with the latest Australian Standards and Buildng Codes of Australia
6. Installation to be installed in accordance with manufacturer's printed assemling manual.

KCR-PJR DEPTH 2700

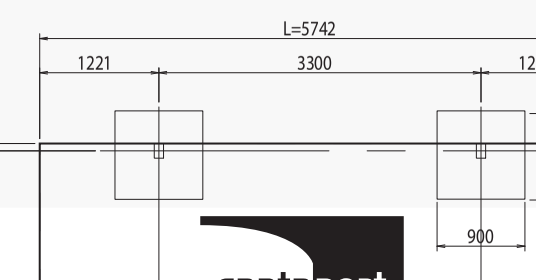


KCR-PJR WIDE BEAM TRIPLE



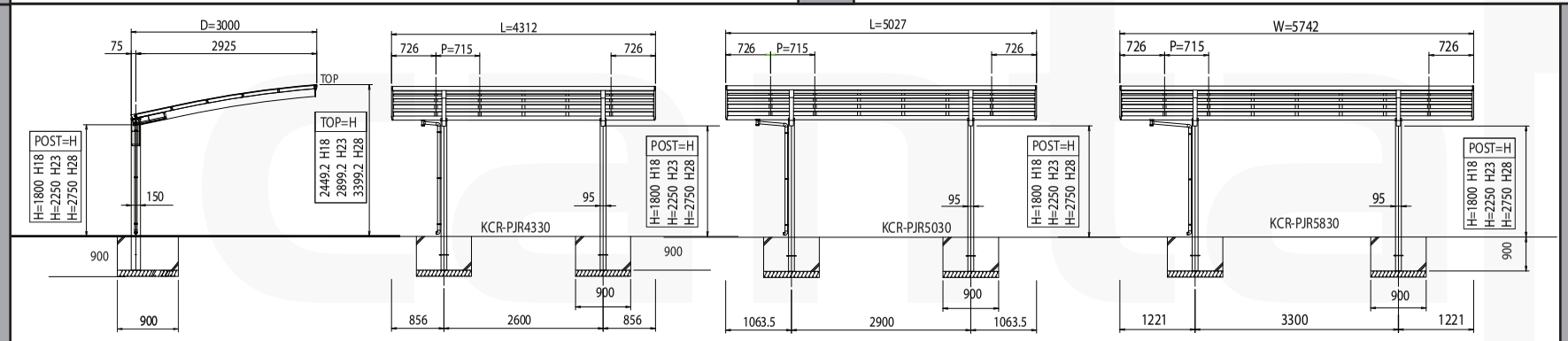
KCR-PJR INLINE

LENGTH	
KCR-PJR43	L43+43 = 4312+4312=L 8602
KCR-PJR50	L50+50 = 5027+5027=L10032
KCR-PJR57	L57+57 = 5742+5742=L11462
DEPTH & SETOUT AS PER INDIVIDUAL SERIES	

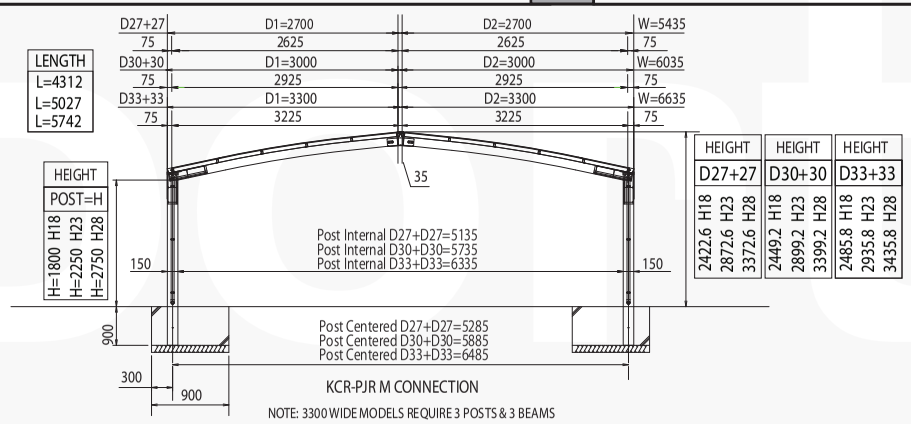


NOTE: 3300 WIDE MODELS REQUIRE 3 POSTS & 3 BEAMS

KCR-PJR DEPTH 3000



KCR-PJR M CONNECTION



NOTE: 3300 WIDE MODELS REQUIRE 3 POSTS & 3 BEAMS

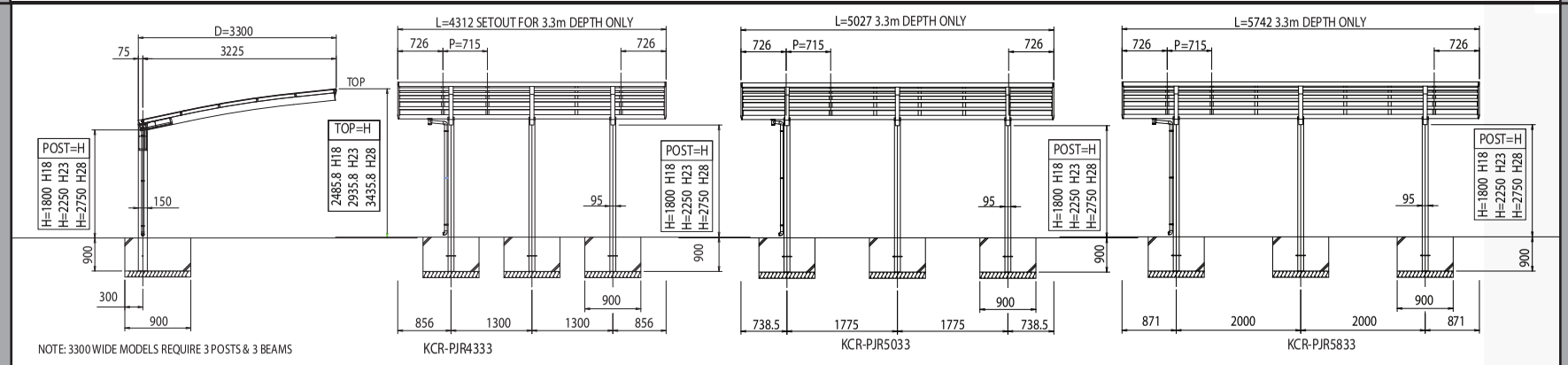
Foundations

1. All soil testing to be carried out by the enginner soil type and conditions.
2. Remove all topsoil containing vegetation & deletrious fill materail from the building site.

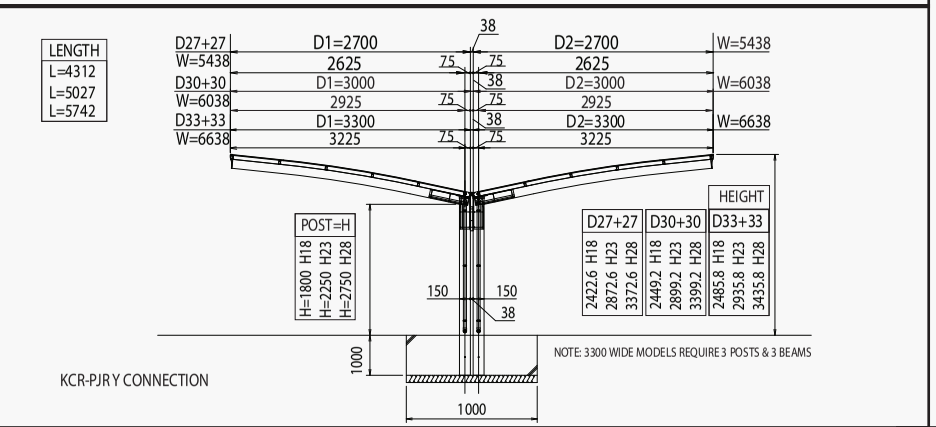
Concrete Notes :

1. All concrete shall be in accordance with the concrete structure code AS 3600.
2. Blended cement (type GB) shall conform with AS 3972 3. Water must not be added to the mix to increase the slump at any time.
3. Concrete shall be supplied by an approved pre-mixed company and conform to the following unless noted otherwise :
GRADE SLUMP MAX. AGG.
FOOTINGS N20 80mm 30mm

KCR-PJR DEPTH 3300



KCR-PJR Y CONNECTION



METAL WORK NOTES :

1. All workmanship and materials shall be in Accordance with
- AS/NZS 1866:1977-Aluminium and Aluminium Alloys
- AS 1400-1998 Steel Structures
-AS/NZS 1665:2004 Welding Of Aluminium Structures
- AS 1554.1 PT1 - Welding Of Steel Structures
2. All hollow sections to be fully sealed with 2mm plates, minimum, U.N.O
3. Erection of metal work shall be commenced with braced bay and erector shall provide all temporary bracing required for the safe completion of the work.
4. All bolts/screws/washers types and their treatment of, is to comply with all relevent australian standards

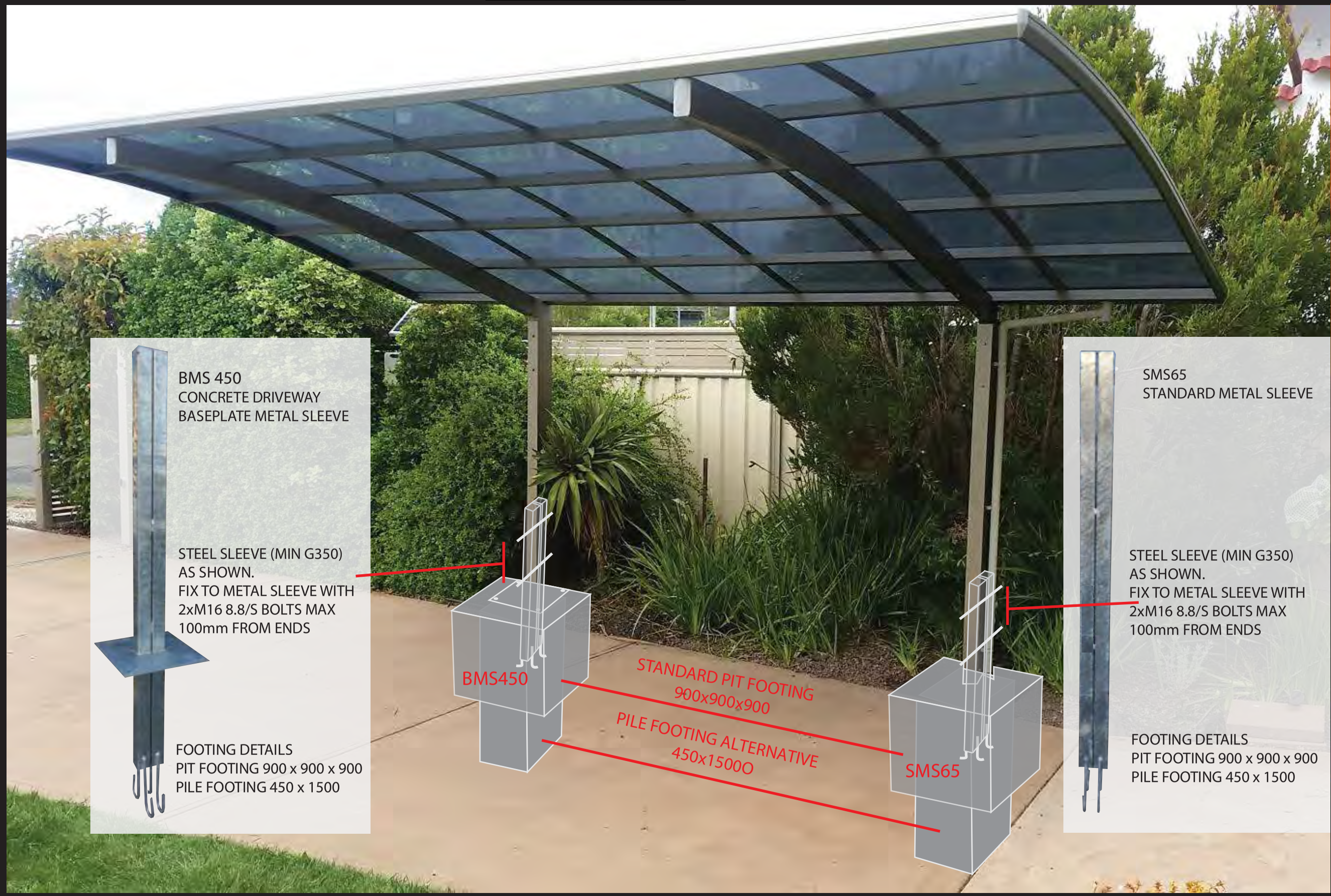
KCR-PJRPLAN LAYOUT

CERTIFICATION OF CANTAPORT KCR-PJR SERIES: THE CANTAPORT IS CERTIFIED FOR REGION A &TERRAIN CATEGORY2&3. THE CANTAPORT IS DESIGNED ONLY WHEN THE POST IS BUILT IN THE FOOTINGS, BUT NOT ON CONCRETE SURFACES. THE CANTAPORT STRUCTURE IS STUCTURALLY CAPABLE OF SUPPORTING THE DESIGN LOADS IN ACCORDANCE WITH ALL RELEVENT AUSTRALIAN STANDARDS.

cantaport | diy cantaport | 7 YEARS WARRANTY CANTAPORT GUARANTEE | Genuine & Original BEWARE OF CHEAP IMITATIONS | CERTIFIED TO AUSTRALIAN & INTERNATIONAL STANDARDS GUARANTEED & TESTED | Like us on Facebook | 7 YEARS guarantee | why cantaport

MADE IN JAPAN

METAL SLEEVES DETAILS



REPELS 100% OF WATER

250 TIMES STRONG
POLYCARBONATE 250 TIMES STRONGER THEN GLASS

NON COMBUSTABLE STRUCTURE

BLOCKS 99% OF UV RAYS

WIND RATED UP TO 147KM

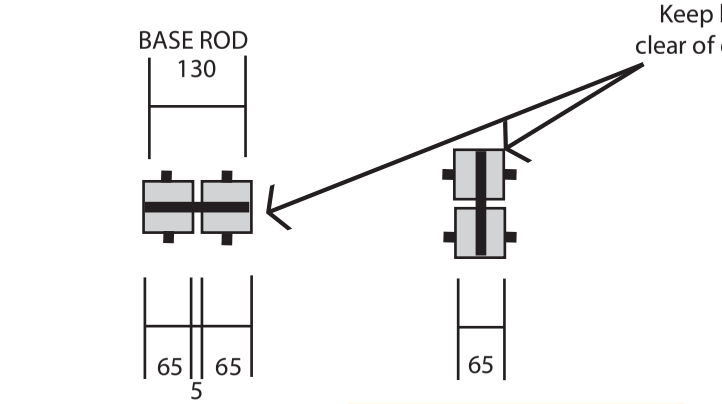
REDUCES HEAT BY 83%

MAINTENANCE FREE AND RUST PROOF

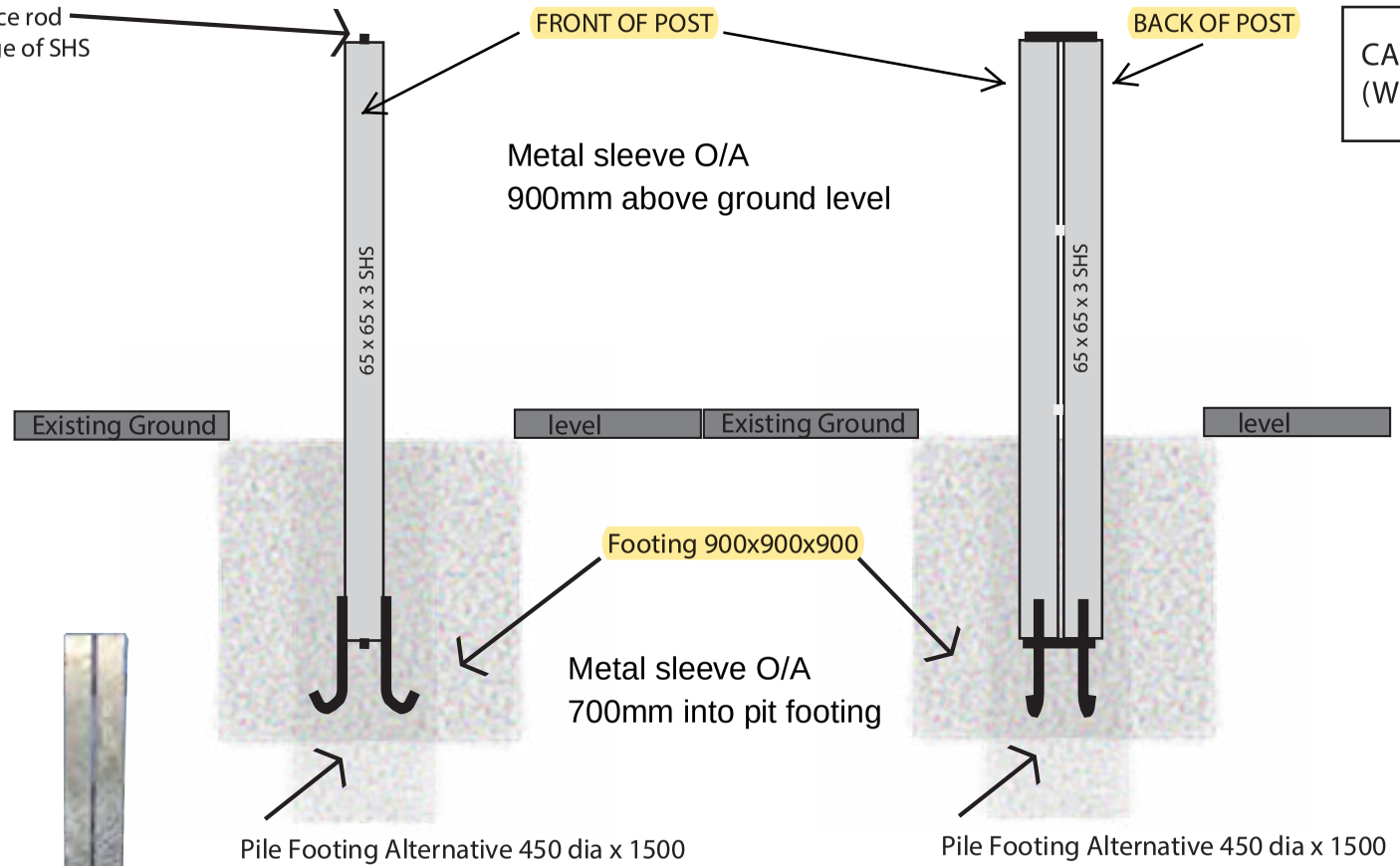
MADE IN JAPAN

METAL SLEEVE ADVANTAGE: 1. Eliminates error in height. The metal sleeves are inserted into the concrete footing and extend above ground level. The cantaport posts then slide over the metal sleeves. The height of the posts can then be adjusted by cutting from the base of the post. Once the height is determined, the post is fixed using two bolts on the front and or rear of the post. 2. Assists with unlevel sites, extra height extension, 3. Provides further support to the structure and 4. The cantaport can be relocated, removed if required. A non permanent structure.

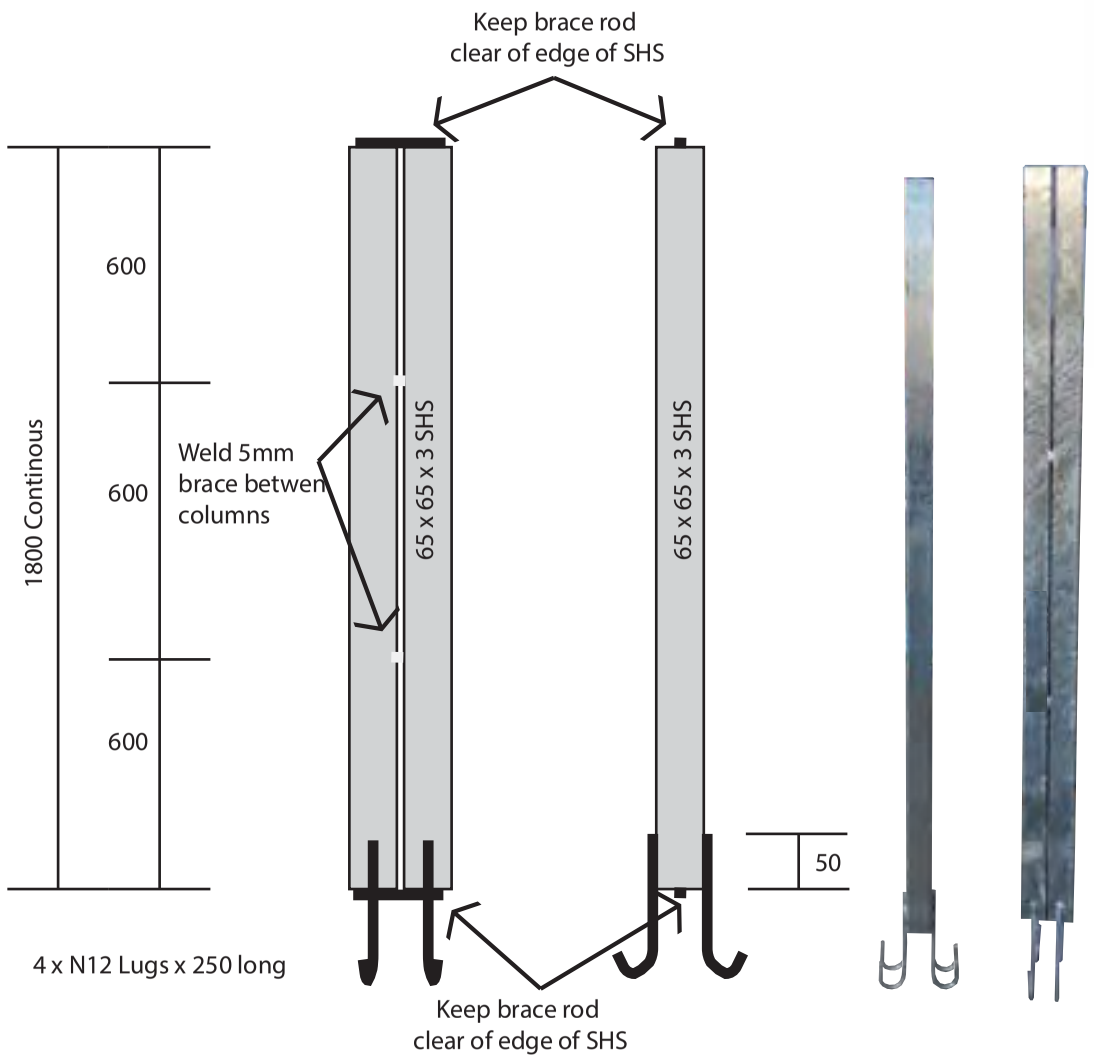
CANTAPORT SHADING SYSTEMS PJR SERIES
(Wind Region A, Terrain Category 2,3 & 4)



SIDE ELEVATION FRONT ELEVATION

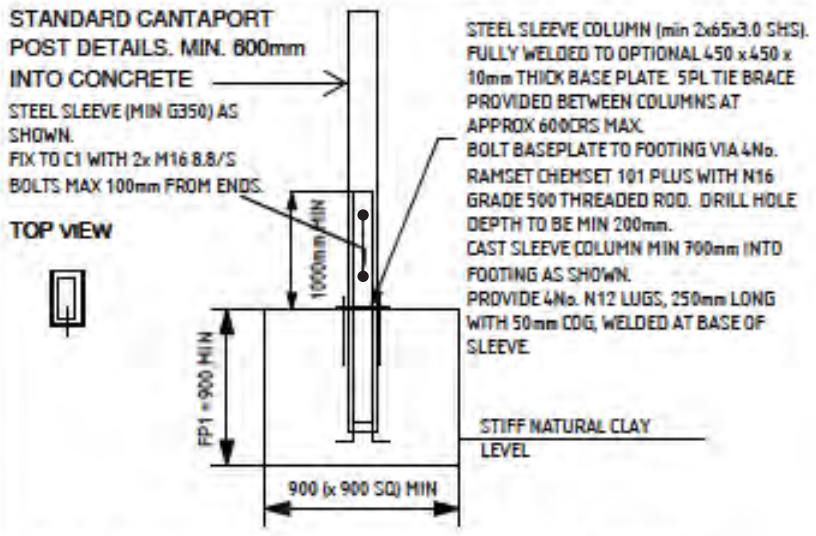


FRONT ELEVATION SIDE ELEVATION



STANDARD METAL SLEEVE SHOP DRAWINGS
METAL SLEEVE 65X65X3 HOT DIP GALVANISIED

STANDARD FOOTING & SLEEVE COLUMN PLATE COVER DETAILS

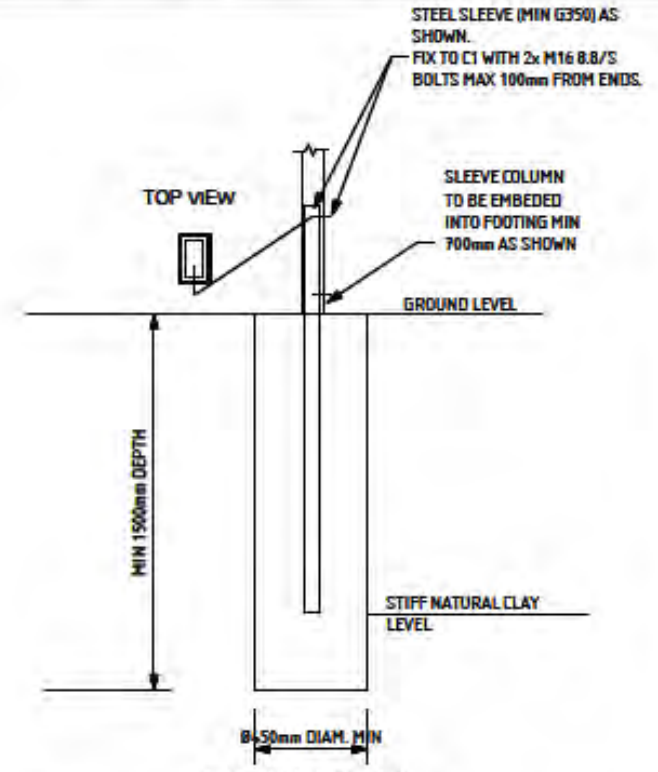


SLEEVE COLUMN AND STAND ALONE FOOTING

NOTE: CONCRETE FOOTING TO BE FOUNDED INTO MIN 300mm OF NATURAL UNDISTURBED CLAY MATERIAL, TO BE CONFIRMED BY THE BUILDER

METAL SLEEVE PLATE COVER COLUMN CAN ALSO BE USED AS A PILE DETAIL. PLATE IS TO COVEROPENING OF EXCAVATION TO AN EXISTING SURFACE

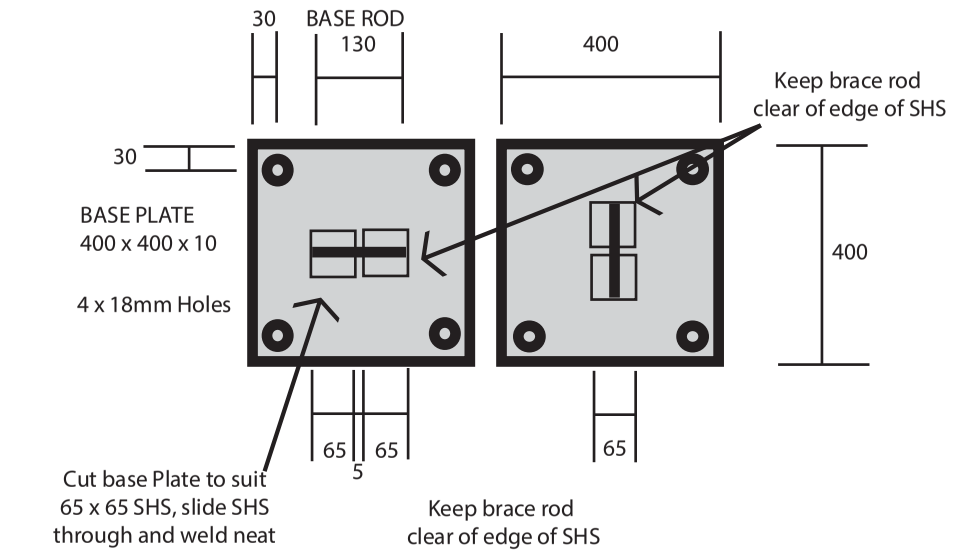
PILE FOOTING DETAILS

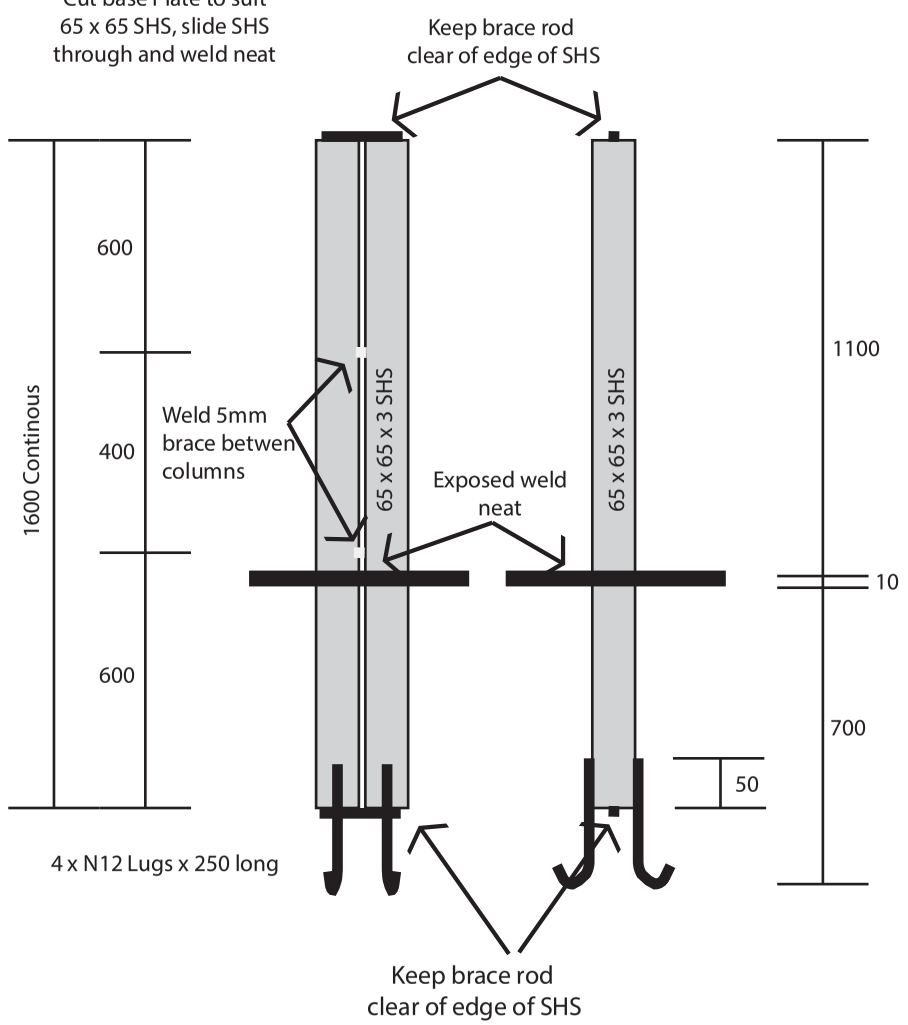


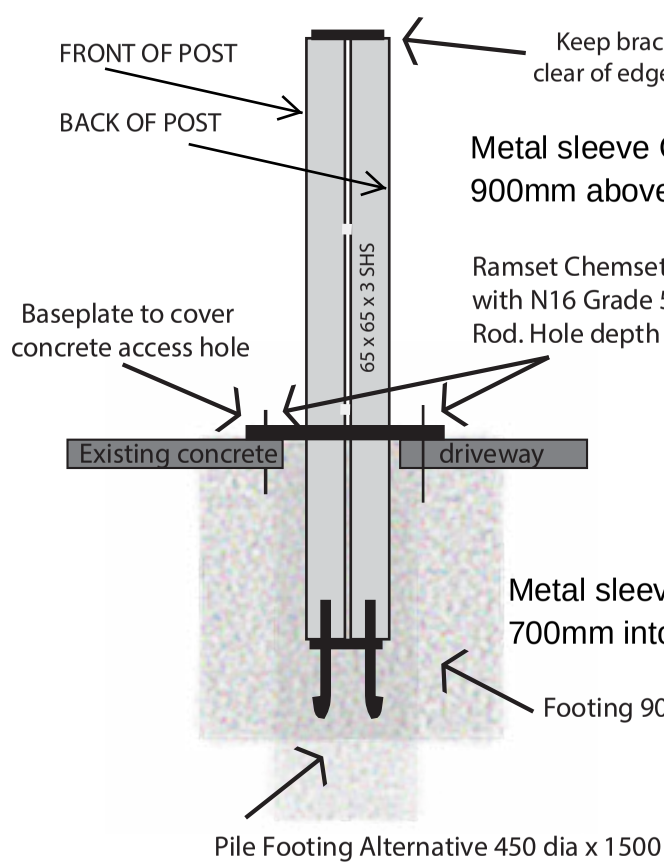
FOOTING DETAIL

NOTE: CONCRETE FOOTING TO BE FOUNDED INTO MIN 600mm OF NATURAL UNDISTURBED CLAY MATERIAL, TO BE CONFIRMED BY THE BUILDER

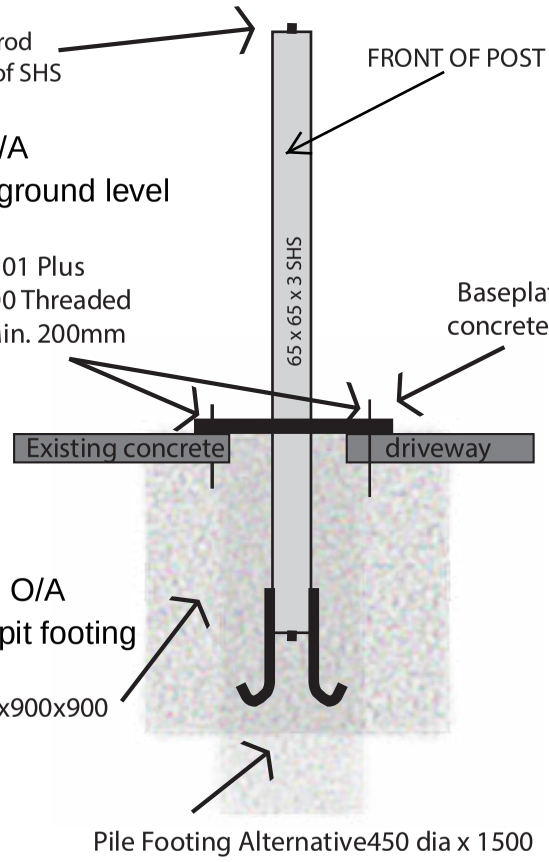
ALTERNATIVE FOOTINGS DETAILS WITH LIMITED AREA TO EXCAVATE A STANDARD FOOTING.



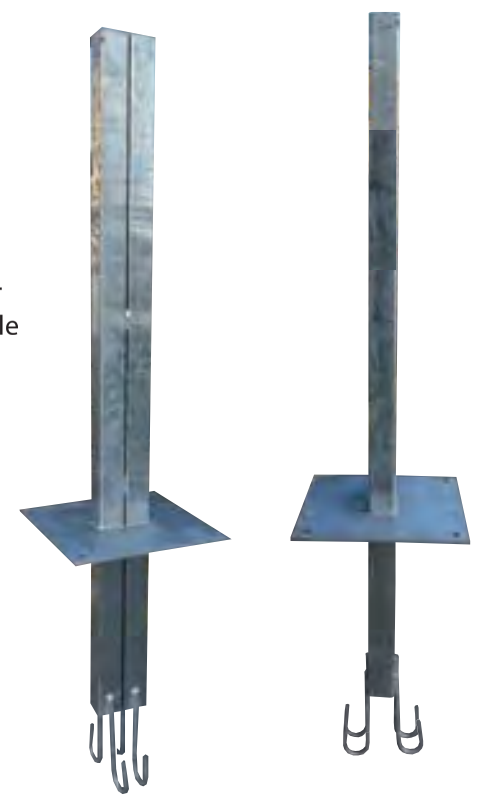




SIDE ELEVATION



FRONT ELEVATION

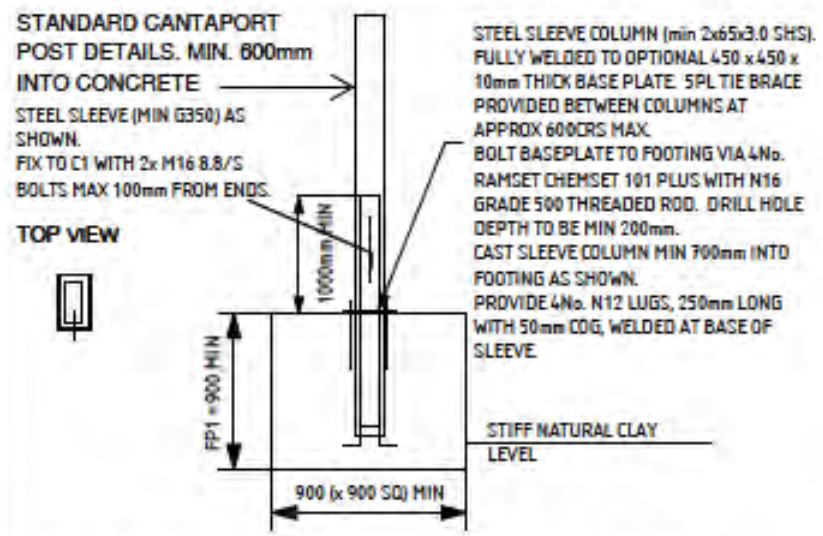


CANTAPORT SHADING SYSTEMS PJR SERIES
(Wind Region A, Terrain Category 2,3 & 4)

cantaport

CONCRETE DRIVEWAY BASEPLATE SHOP DRAWINGS
METAL SLEEVE 65X65X3 HOT DIP GALVANISIED

STANDARD FOOTING & SLEEVE COLUMN PLATE COVER DETAILS

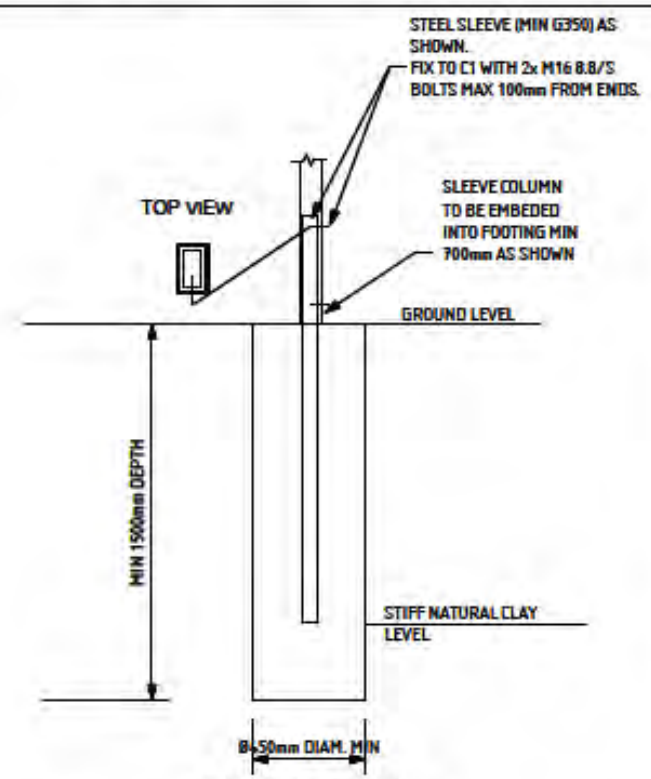


SLEEVE COLUMN AND STAND ALONE FOOTING

NOTE: CONCRETE FOOTING TO BE FOUNDED INTO MIN 300mm OF NATURAL UNDISTURBED CLAY MATERIAL, TO BE CONFIRMED BY THE BUILDER

METAL SLEEVE PLATE COVER COLUMN CAN ALSO BE USED AS A PILE DETAIL. PLATE IS TO COVEROPENING OF EXCAVATION TO AN EXISTING SURFACE

PILE FOOTING DETAILS



FOOTING DETAIL

NOTE: CONCRETE FOOTING TO BE FOUNDED INTO MIN 600mm OF NATURAL UNDISTURBED CLAY MATERIAL, TO BE CONFIRMED BY THE BUILDER

ALTERNATIVE FOOTINGS DETAILS WITH LIMITED AREA TO EXCAVATE A STANDARD FOOTING.