

**SHIKOKU Fence C1**

Instruction Manual

●Caution

Thank you very much for purchasing our product.

Please read this instruction manual carefully before installation to use the product for a long time.

Precautions on Installation

Improper handling of aluminum products during installation may cause abnormal corrosion, resulting in unexpected troubles, please pay attention to the following points.

1. Please confirm that the product is suitable for the construction place's weather conditions (wind, snow, etc.).
2. To prevent damage, please do not construct this product where the snow slides directly on the product.
3. Avoid installation of the product in areas where strong winds blow, especially on cliff tops, on the roof top, or on the pathway of the wind.
4. Avoid installation of the product at places with large vertical difference such as edge. In windy areas, install the product not to be fluttered by wind. This product should be installed only on the ground.
5. The foundation drawing indicates the depth of embedding of the product. Pay sufficient attention to the amount (volume) of the foundation concrete when embedding the product in a weak ground. When the product is to be used in cold districts where frost heave is likely to occur, place foundation to the frost heave line or lower.
6. Using sea sand for making mortar may cause corrosion due to its high salt content. Please avoid use of sea sand or wash it thoroughly before using it for mortar.
7. Adhesive bonds for mortar and concrete may cause corrosion, therefore, avoid using them or choose the adhesive bonds which do not have calcium chlorides, chlorine compounds, or sodium silicate.
8. Make it sure not to attach mortar or concrete extract on the surface and inside of the aluminum products during construction. Those extract are strong alkaline and may cause uneven color or corrosion.
9. When using bonds or chemicals which may cause corrosion during the construction work, avoid contact to the aluminum products.

10. Please check the screws again that they are tighten up enough after completion of the installation work.
10. Avoid contact of aluminum products with dissimilar metals such as copper plate and lath. If their contact is inevitable, cover the surface with a plastic tape or insulate it with paint, etc.
11. Do not modify or remodel the product.
12. Please put items or equipment in order, and ensure the security especially collapse and falling while working in a high place and intensity of illumination by light in construction site.
13. Please make sure the security by each other and check the operator's health and implement the health management.

Parts List

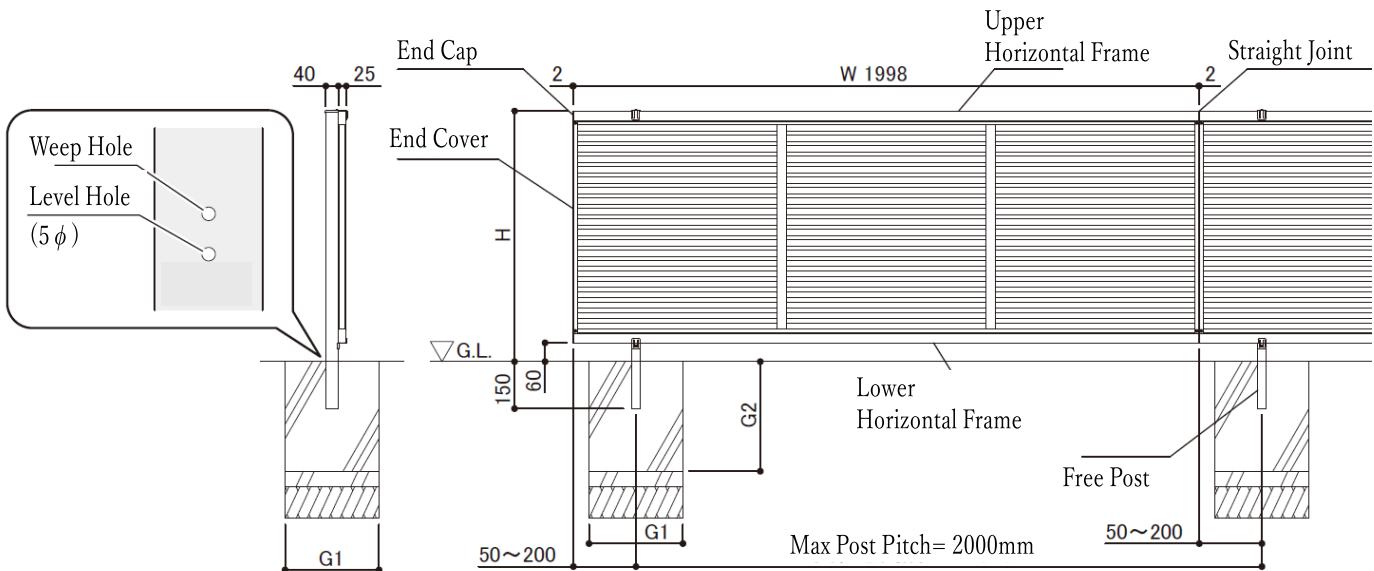
- Fence, Free Post, Corner Joint, Corner Cover, and End Cap are separately sold. Please find necessary quantity by checking catalog and table below.
- When using 2 &3 Tiered Post, End Cover, Under Cover, etc., please check each product's instruction manual.

Packing Name	Contents
Fence	Fence 1PC, Instruction Manual
Free Post	Free Post 1PC, Straight Joint 2PCS, Fence Bracket 1PC, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS, Binding Tapping Screw $\phi 4 \times 14L \times 1$ PC
Corner Cover	Corner Cover 1PC, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
Corner Joint	Corner Joint 2PCS, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
End Cap	End Cap 4PCS, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS

1 Installation Drawing

1. Maximum post pitch is 2000mm.
2. For end part and connect part of fence, post must come to 50~200mm from each part.
3. Confirm posts vertical and horizontal, and fix with concrete to the level hole.

At that time, do not fill the concrete to the weep hole.

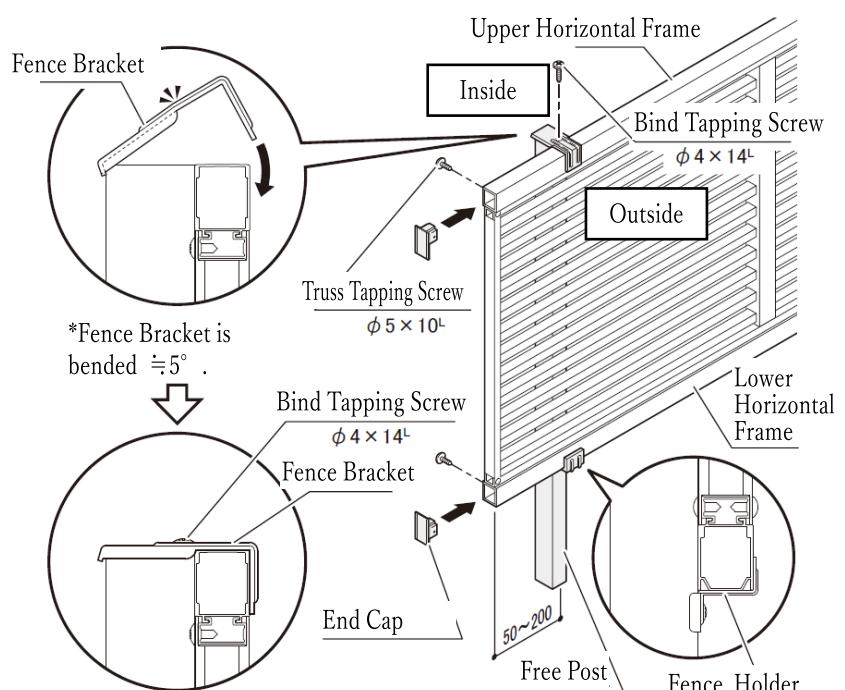


Size	H	W	G1	G2
H06	600	1998	300 or more	350 or more
H08	800	1998	300 or more	350 or more
H10	1000	1998	350 or more	400 or more
H12	1200	1998	350 or more	400 or more

*This drawing shows in case of independent foundation.

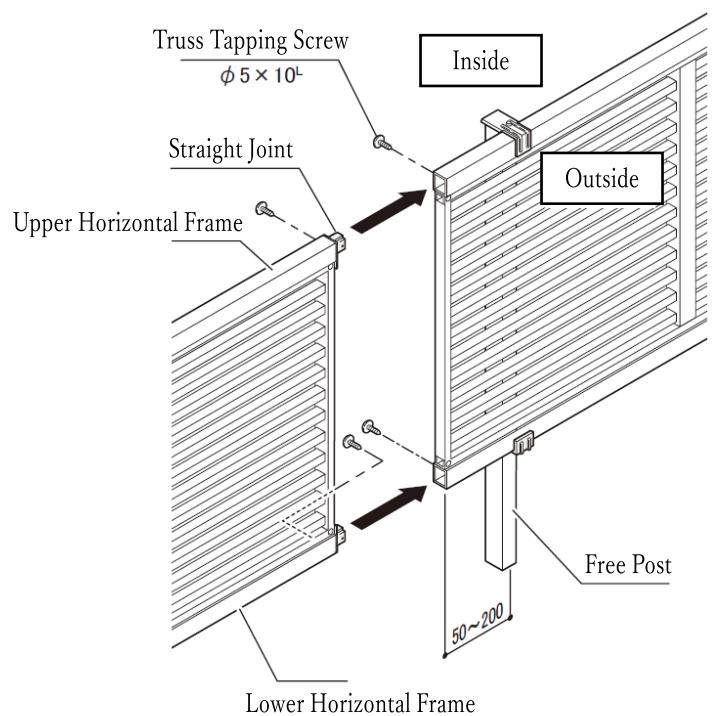
2 Installation of Post and End Cap

1. Put fence on the free post's fence holder.
2. Adjust the place of the fence to install. Then install fence bracket to upper horizontal frame and fix it with binding tapping screw $\phi 4 \times 14L$ while holding back side of free post.
3. Insert end cap to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



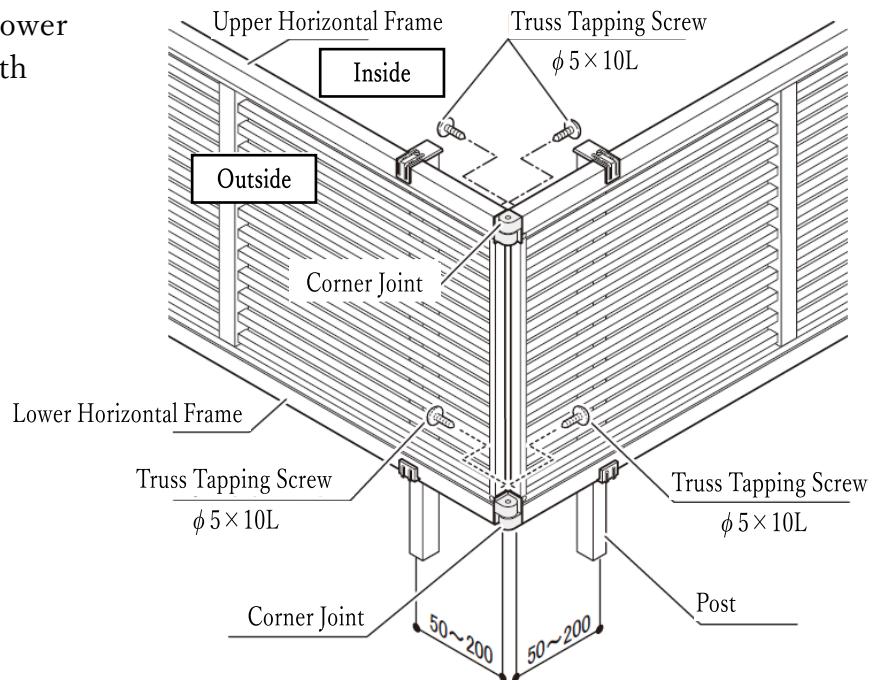
3 Installation of Straight Joint

1. Insert straight joint to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$



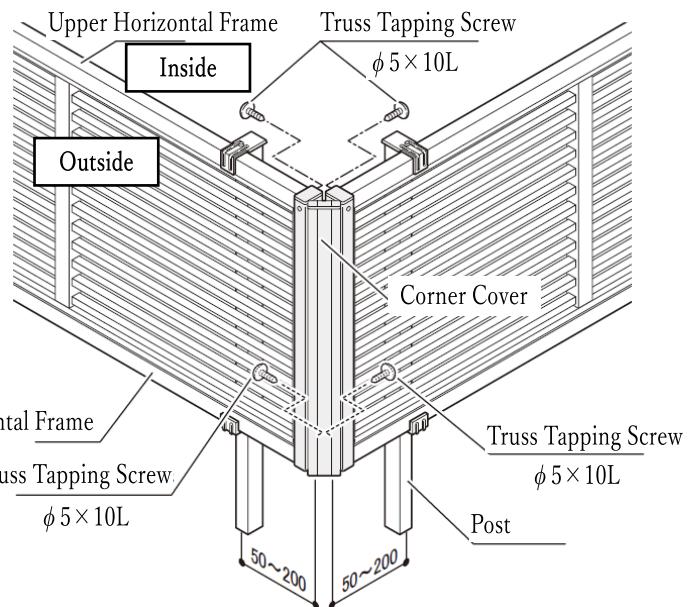
4 Installation of Corner Joint

1. Insert corner joint to upper and lower horizontal frame and fix them with tapping screw $\phi 5 \times 10L$.



5 Installation of Corner Cover

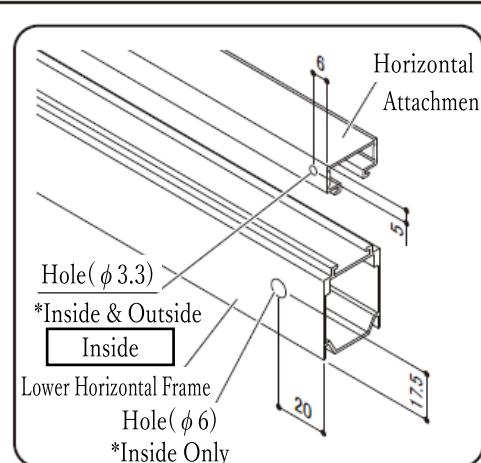
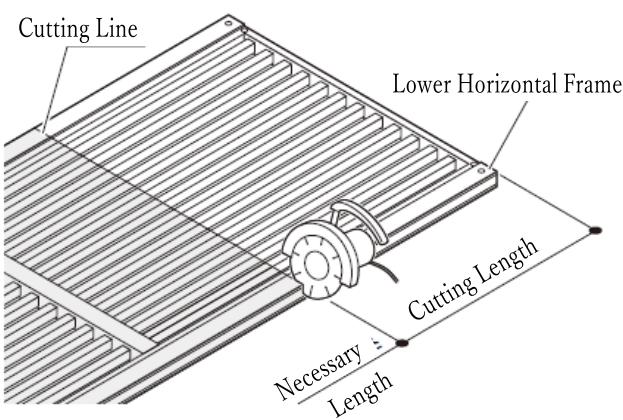
1. Insert corner cover to upper and lower horizontal frame and fix them with tapping screw $\phi 5 \times 10L$.



Adjustment of the Width of Fence

6 Cutting Fence

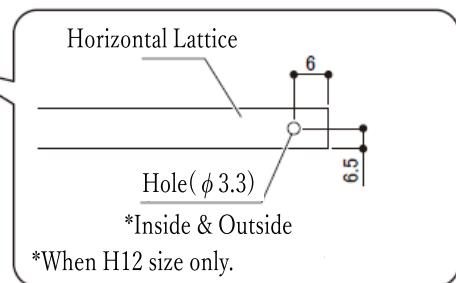
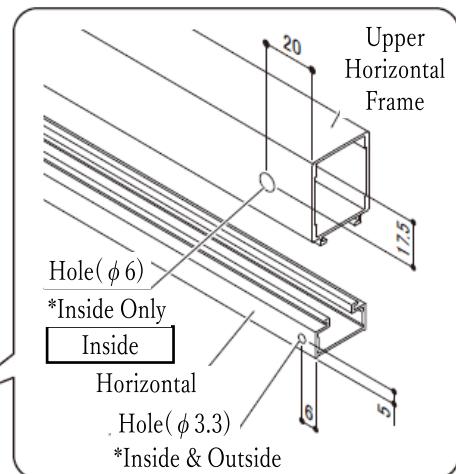
1. Confirm the necessary length of the fence.
2. Draw the cut line on the fence and cut the fence.



7 Making Hole

1. Make hole ($\phi 6$) to the inside plane of upper and lower horizontal frame.
2. Make end cover attachment hole ($\phi 3.3$) to horizontal attachment.

*When H12 size, make hole ($\phi 3.3$) to horizontal lattice.



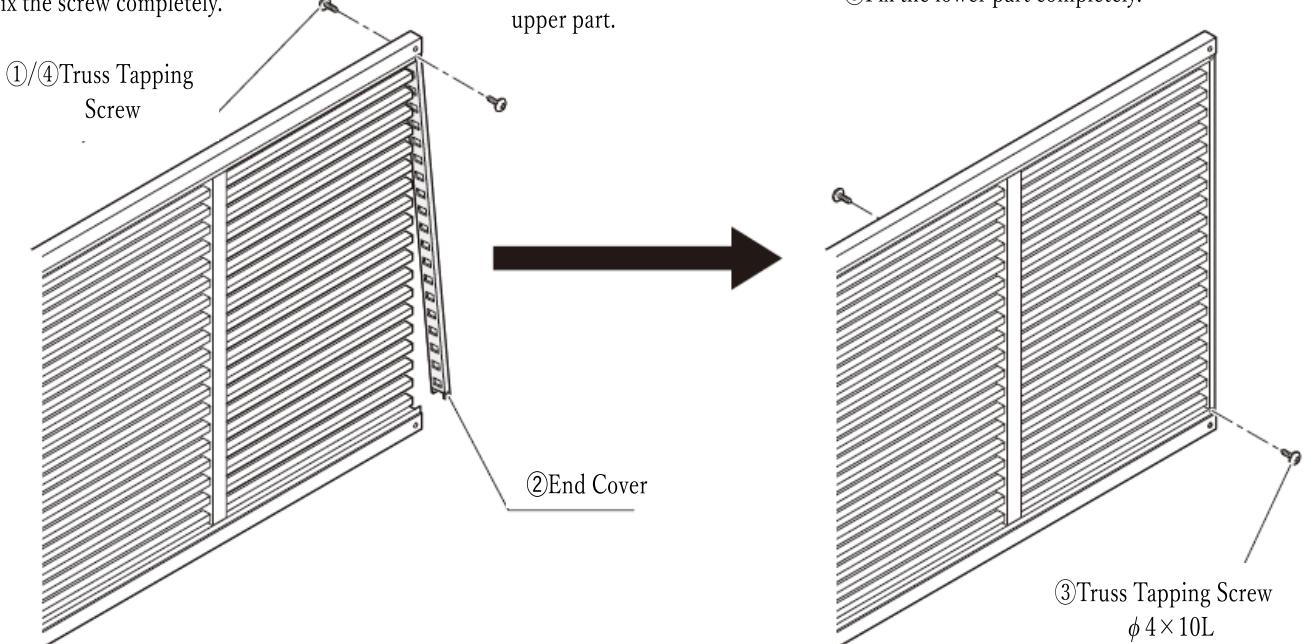
8 Installation of End Cover

1. Install end cover by ①→④

①Temporary fix both side of upper part
④Fix the screw completely.

②Insert lattice to end cover from upper part.

③Fix the lower part completely.





SHIKOKU Fence C2&C9

Instruction Manual

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7. Adhesive bonds for mortar and concrete may cause corrosion, therefore, avoid using them or choose the adhesive bonds which do not have calcium chlorides, chlorine compounds, or sodium silicate.
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9. When using bonds or chemicals which may cause corrosion during the construction work, avoid contact to the aluminum products.

10. Please check the screws again that they are tighten up enough after completion of the installation work.
10. Avoid contact of aluminum products with dissimilar metals such as copper plate and lath. If their contact is inevitable, cover the surface with a plastic tape or insulate it with paint, etc.
11. Do not modify or remodel the product.
12. Please put items or equipment in order, and ensure the security especially collapse and falling while working in a high place and intensity of illumination by light in construction site.
13. Please make sure the security by each other and check the operator's health and implement the health management.

Parts List

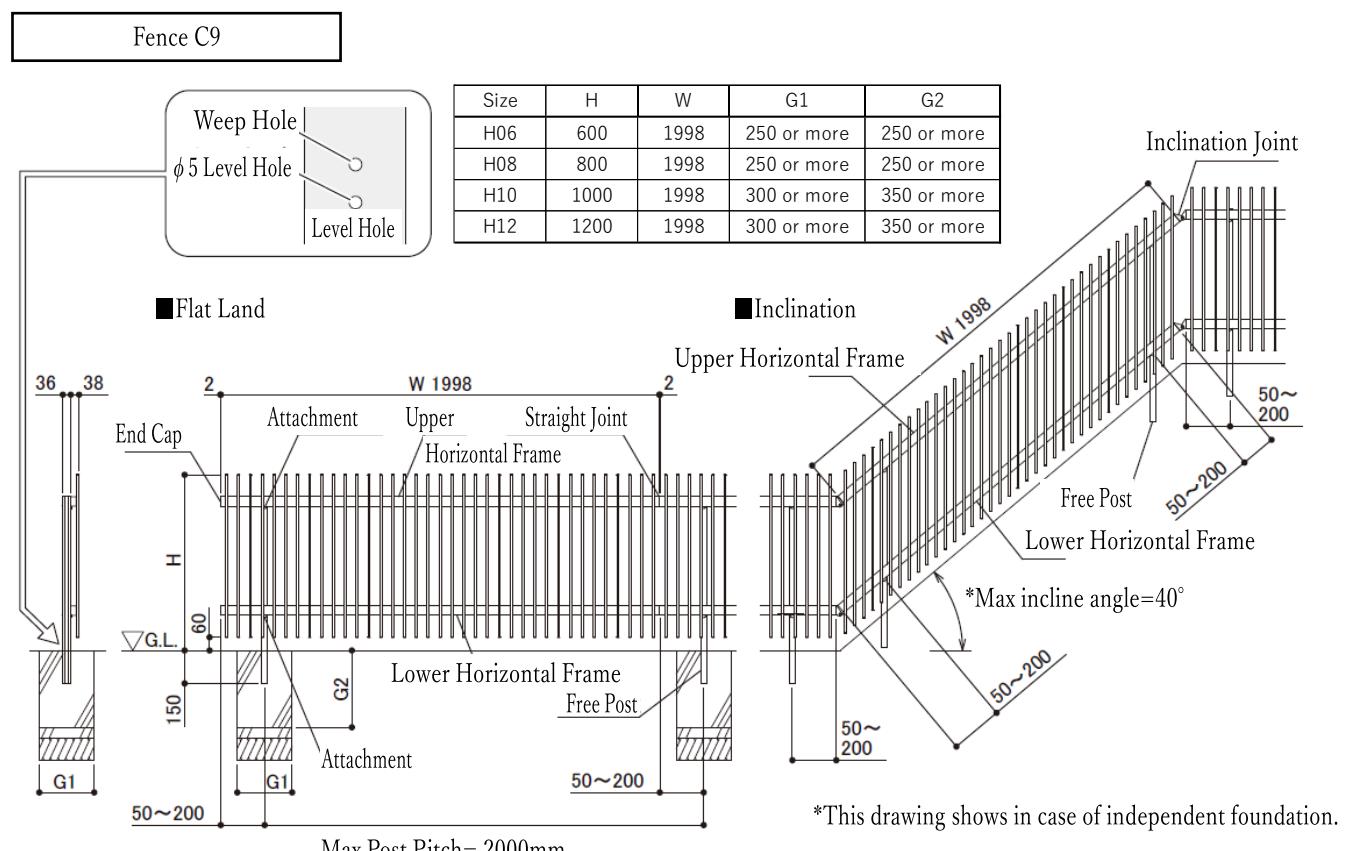
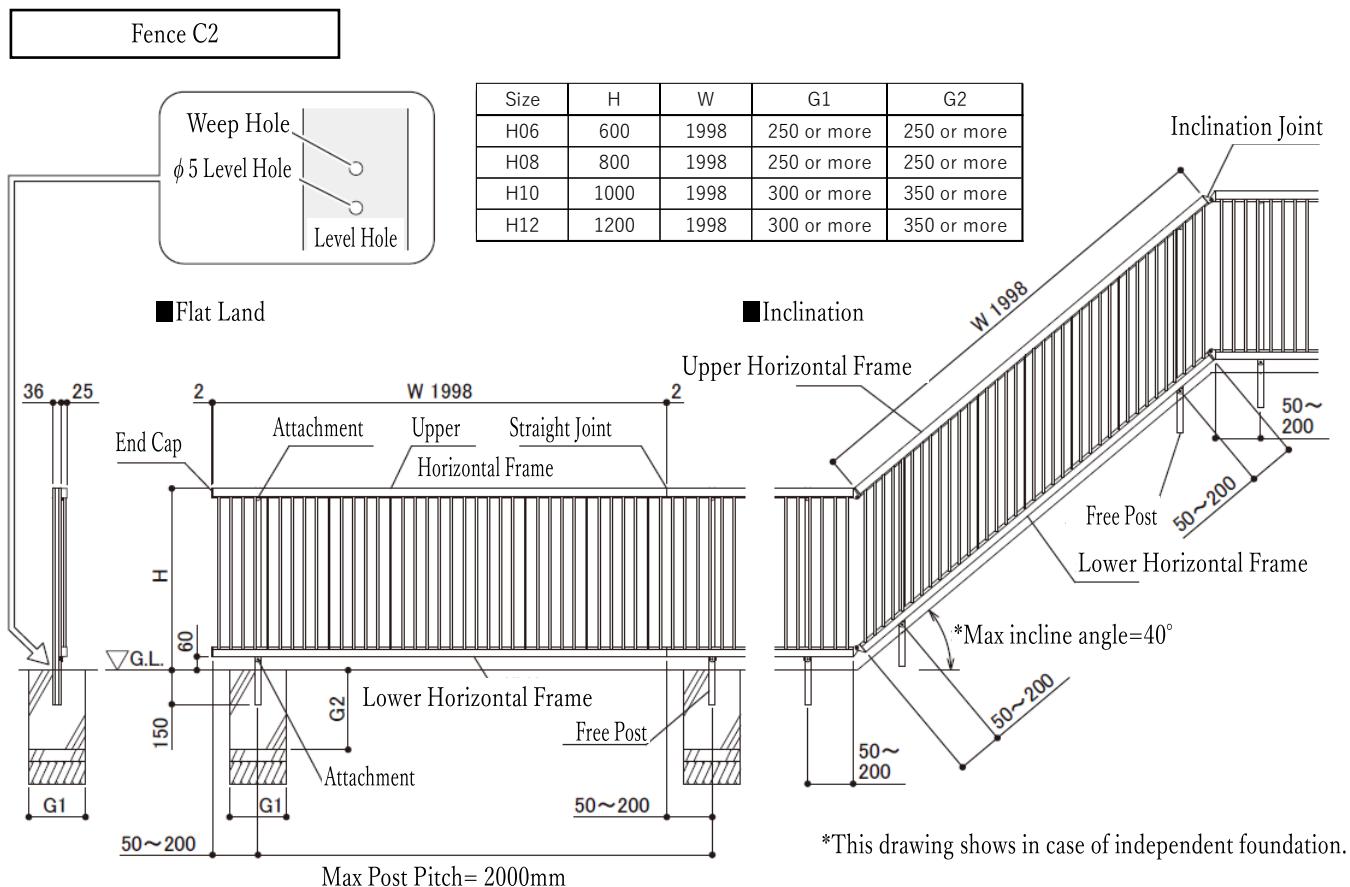
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Corner Joint	Corner Joint 2PCS, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
Inclination Joint	Inclination Joint 2PCS, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
Corner Cover	Corner Cover 1PC, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
End Cap	End Cap 4PCS, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
Free Joint A	Free Joint A 2PCS, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS

1 Installation Drawing

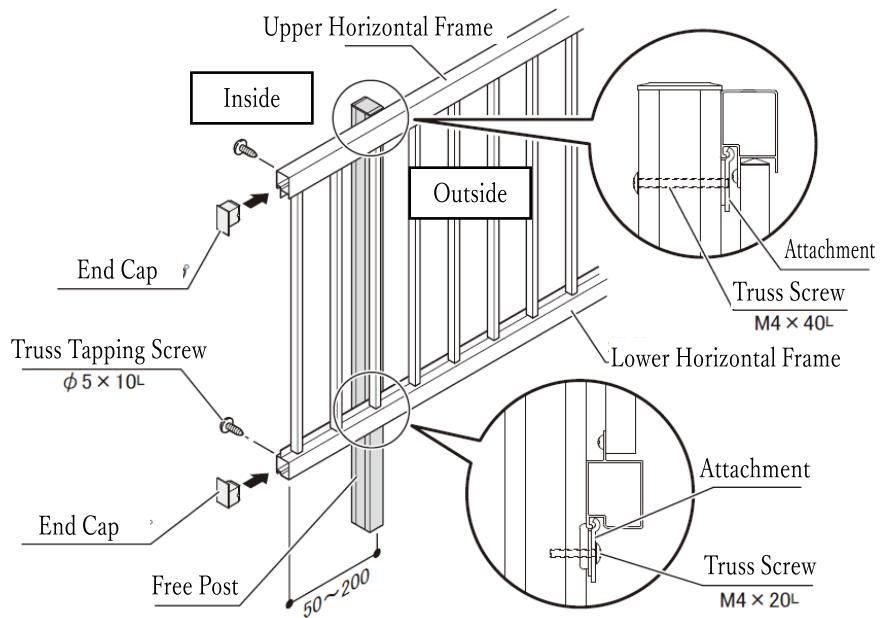
1. Maximum post pitch is 2000mm.
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3. Confirm posts vertical and horizontal, and fix with concrete to the level hole.

At that time, do not fill the concrete to the weep hole.



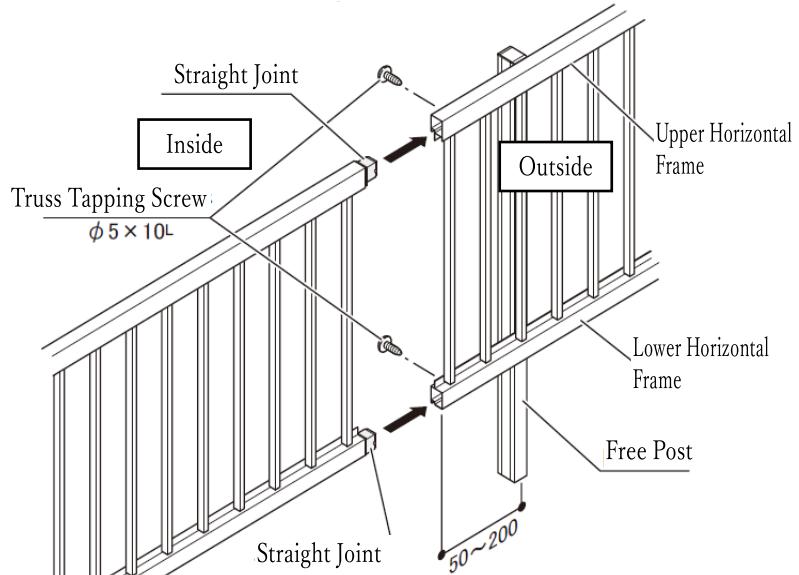
2 Installation of Post and End Cap

1. Put fence on the free post's fence attachment.
2. Adjust the place of the fence to install. Then fix it with truss screw M4×40L (inside) and M4×20L (outside).
3. Insert end cap to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



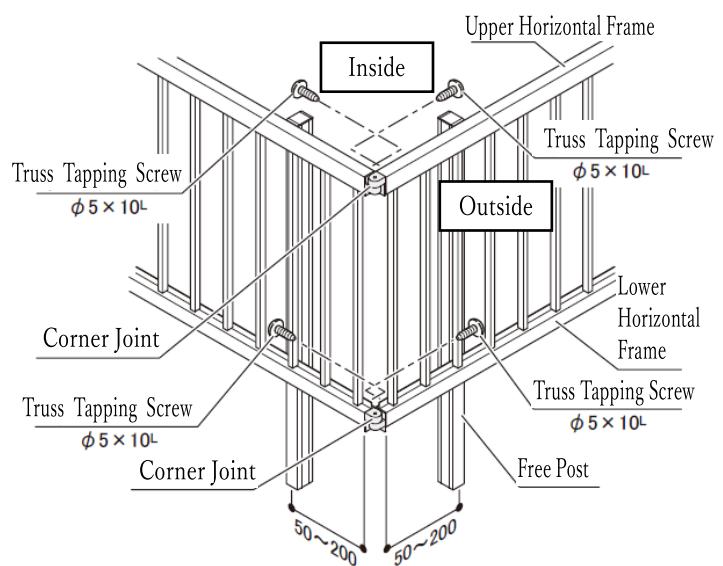
3 Installation of Straight Joint

1. Insert straight joint to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$



4 Installation of Corner Joint

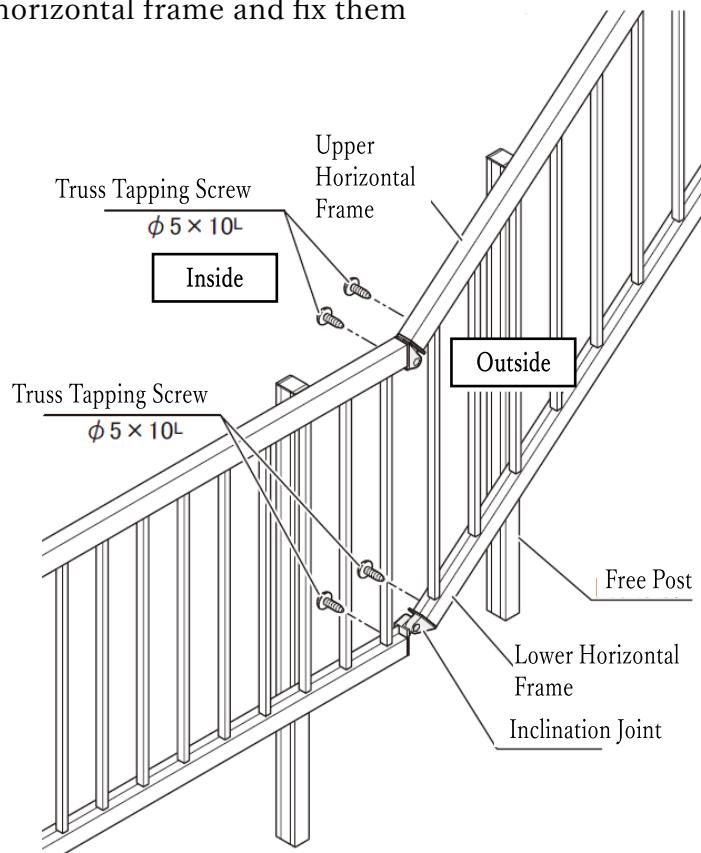
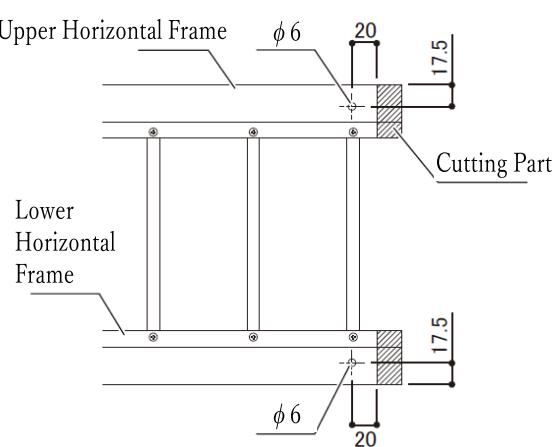
1. Insert corner joint to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



5 Installation of Inclination Joint

1. Insert inclination joint to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.

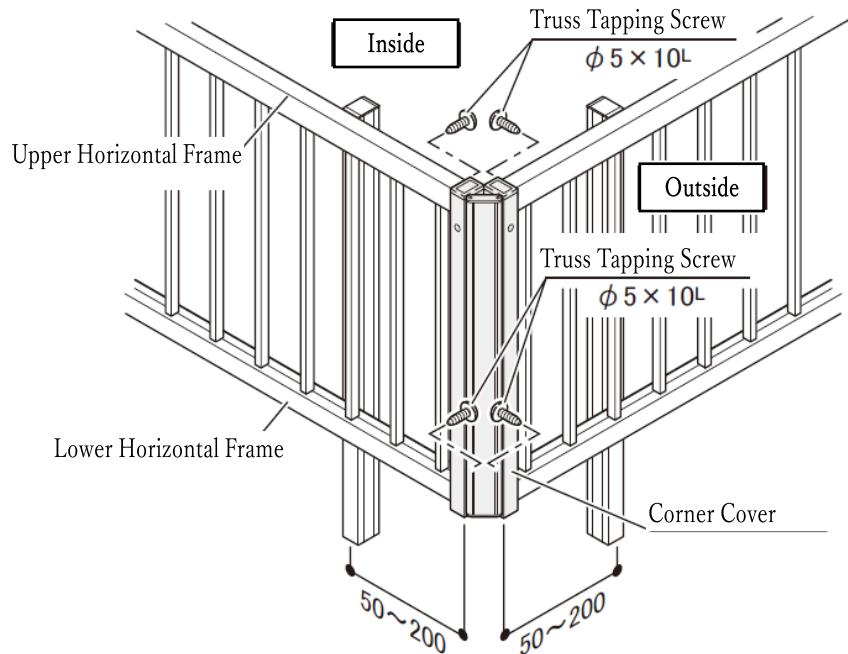
*When adjusting space between vertical lattice, cut the end of the upper and horizontal frame with considering the angle of the inclination.



*This drawing shows the view from inside.

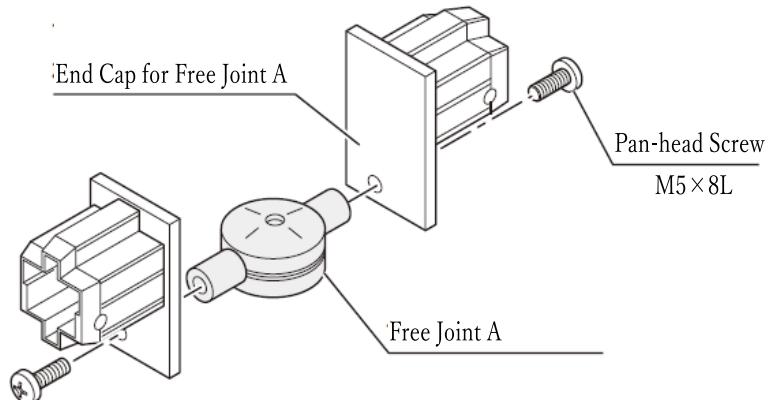
6 Installation of Corner Cover (only for C2)

1. Insert corner cover to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



7 Assembling of Free Joint A

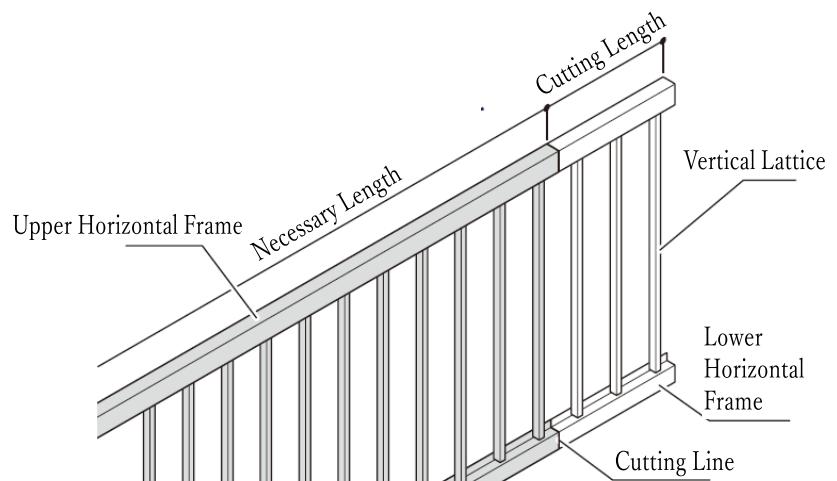
1. Put free joint A and end cap for free joint A together with pan-head screw M5 \times 8L.



Adjustment of the Width of Fence

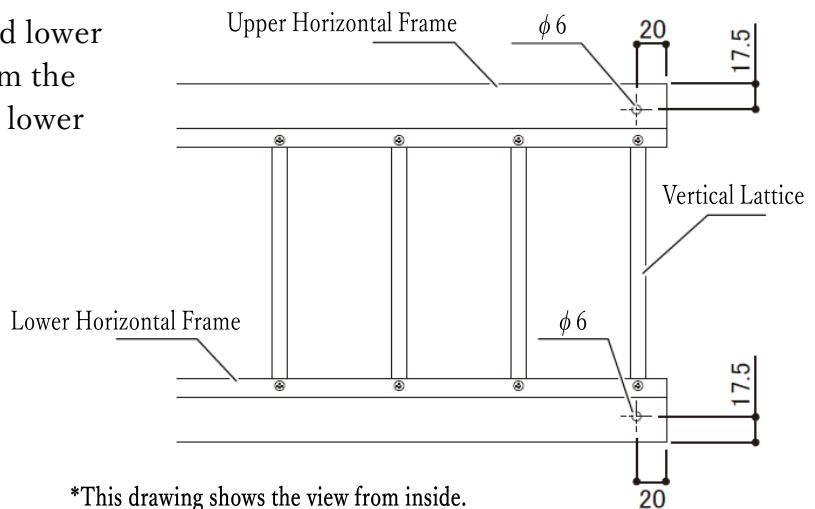
9 Cutting the Fence

1. Measure the necessary length and draw a line on the fence for cutting. At this time, the cutting line should not be on the vertical lattice.



10 Cutting the Fence

1. Make holes ($\phi 6$) on the upper and lower horizontal frame 20mm frame from the end, and 17.5mm from upper and lower end.





SHIKOKU Fence C6, C11&C13

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8. Make it sure not to attach mortal or concrete extract on the surface and inside of the aluminum products during construction. Those extract are strong alkaline and may cause uneven color or corrosion.
9. When using bonds or chemicals which may occur the corrosion during the construction work, avoid contact to the aluminum products.

10. Please check the screws again that they are tighten up enough after completion of the installation work.
10. Avoid contact of aluminum products with dissimilar metals such as copper plate and lath. If their contact is inevitable, cover the surface with a plastic tape or insulate it with paint, etc.
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12. Please put items or equipment in order, and ensure the security especially collapse and falling while working in a high place and intensity of illumination by light in construction site.
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Parts List

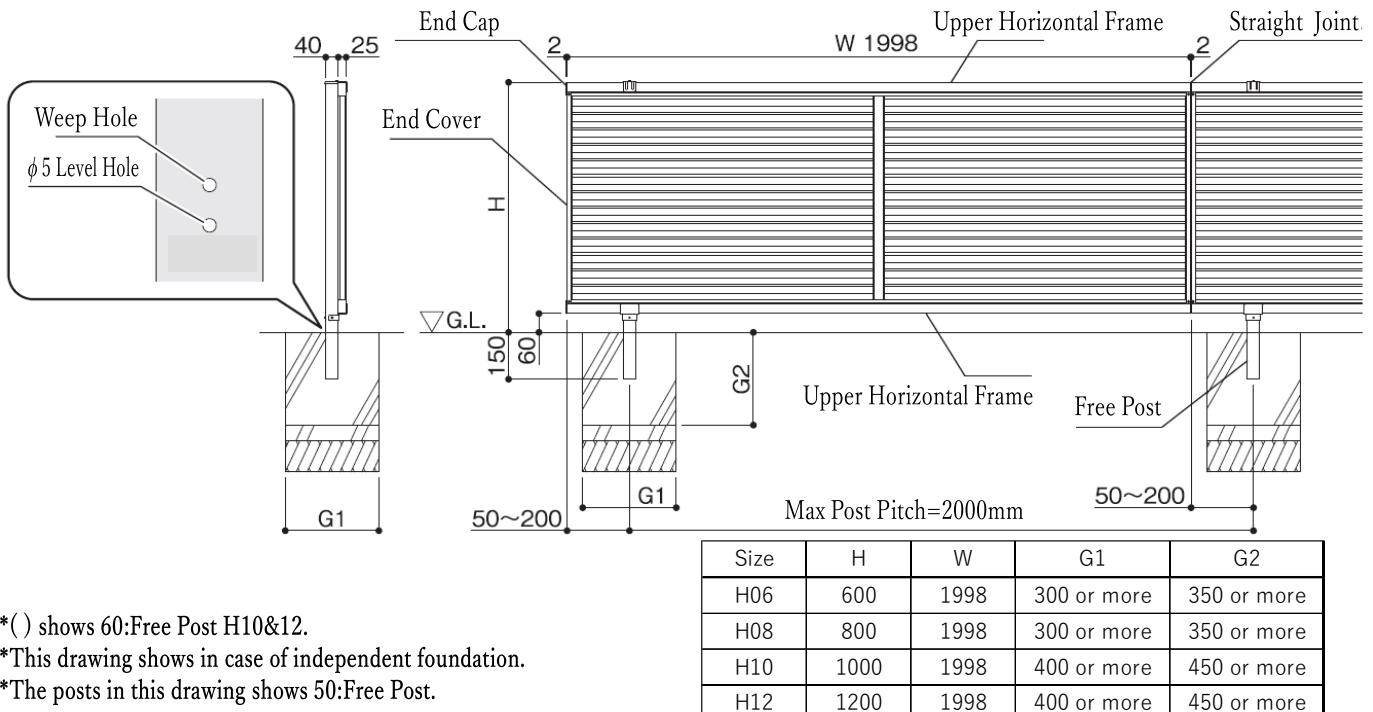
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End Cap	End Cap 4PCS, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
Corner Joint	Corner Joint 2PCS, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
Corner Cover	Corner Cover 1PC, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS
Corner Cover U	Corner Cover U 1PC, Truss Tapping Screw $\phi 5 \times 10L \times 4$ PCS

1 Installation Drawing

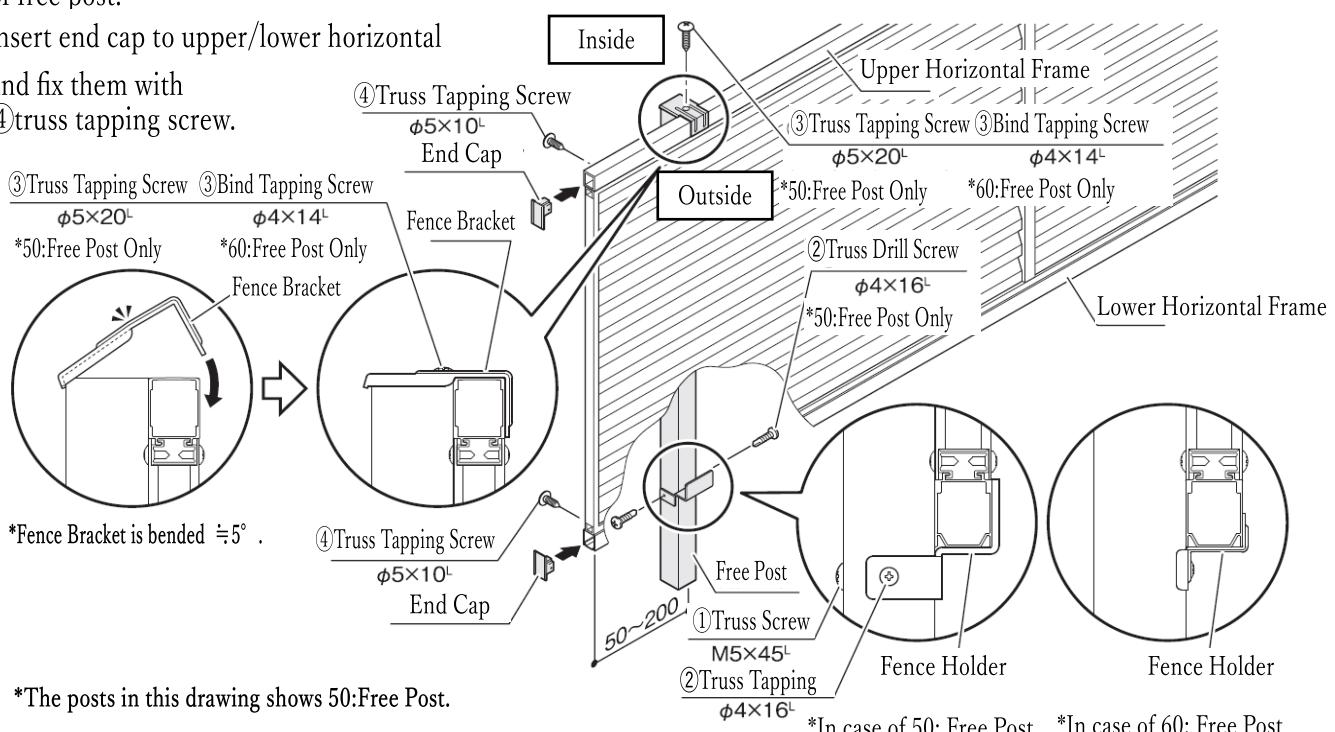
1. Maximum post pitch is 2000mm.
2. For end part and connect part of fence, post must come to 50~200mm from each part.
3. Confirm posts vertical and horizontal, and fix with concrete to the level hole.

At that time, do not fill the concrete to the weep hole.



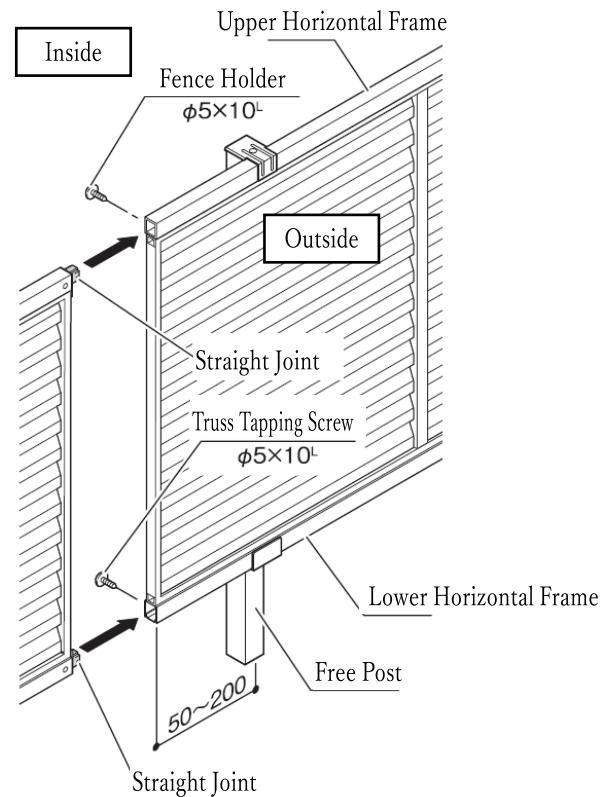
2 Installation of Post and End Cap

1. Put fence on the free post's fence holder.
2. Adjust the place of the fence to install. Then fix it with ①truss screw M5×45L from inside and ②truss tapping screw M4×16L from side. (50:Free post only)
3. Install fence bracket to upper horizontal frame and fix it with ③truss/ binding tapping screw while holding back side of free post.
4. Insert end cap to upper/lower horizontal and fix them with ④truss tapping screw.



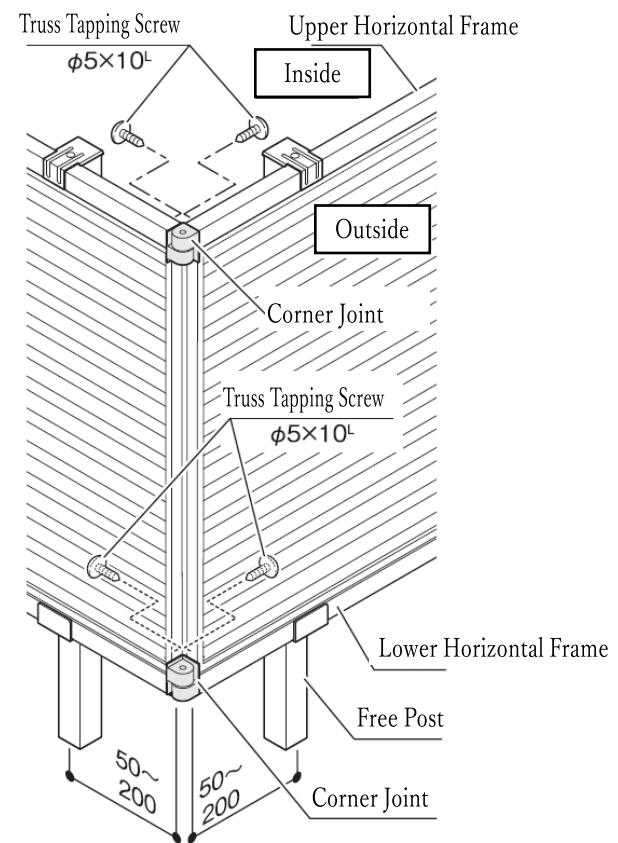
3 Installation of Straight Joint

1. Insert straight joint to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



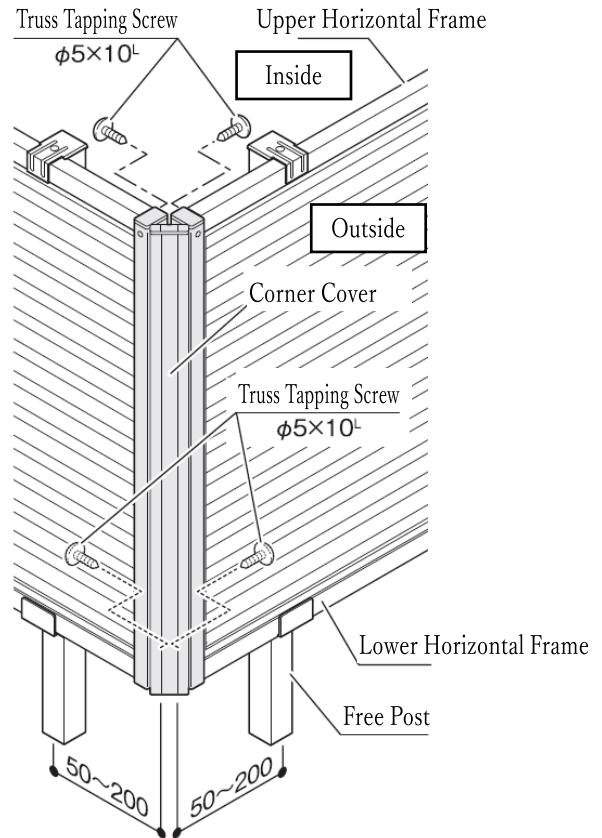
4 Installation of Corner Joint

1. Insert corner joint to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



5 Installation of Corner Cover

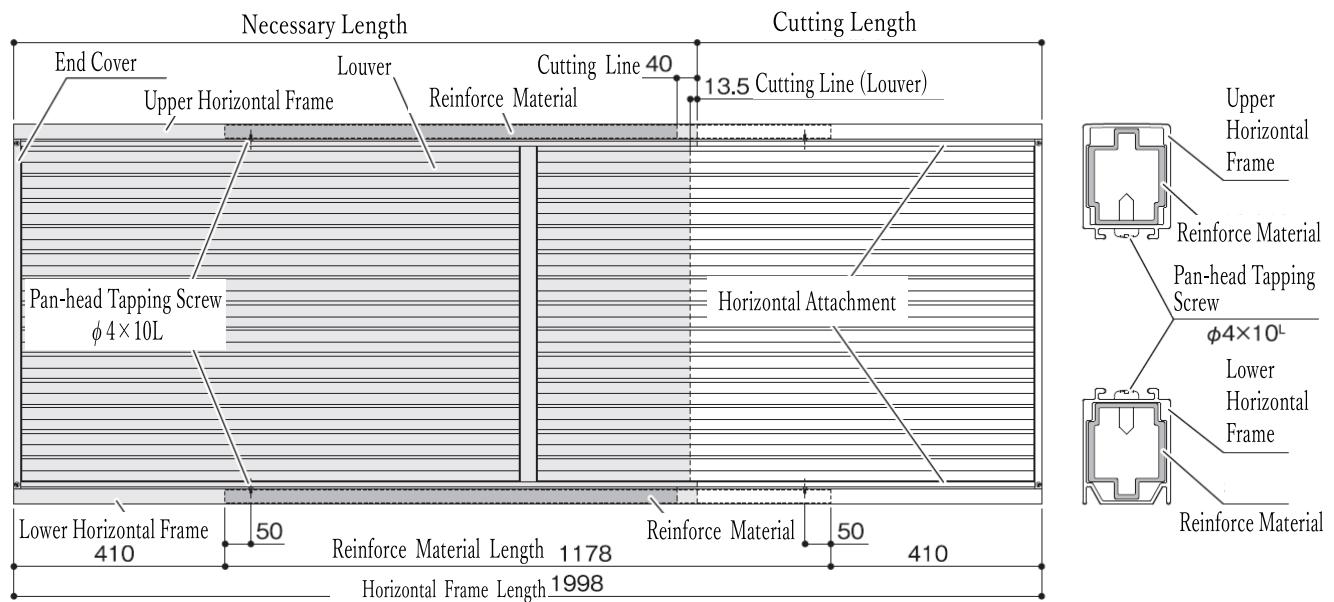
1. Insert corner cover to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



Adjustment of the Width of Fence

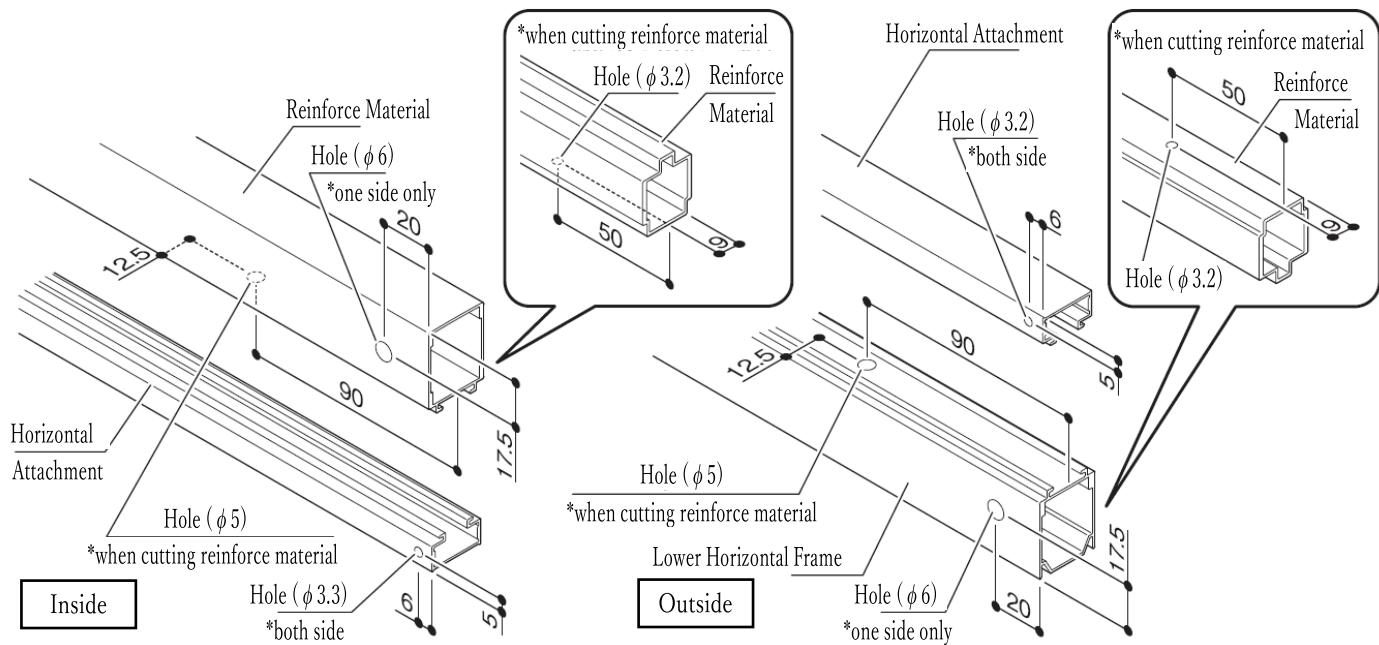
6 Cutting the Fence

1. Measure the necessary length and draw a line on the fence for cutting.
2. Remove upper and lower horizontal frame and horizontal attachment.
3. Draw cutting line on louver. At this time, the position of the line has to be 13.5mm shorter than upper and lower horizontal frame.
4. Remove end cover and louver.
5. Cut each parts along with cutting line.



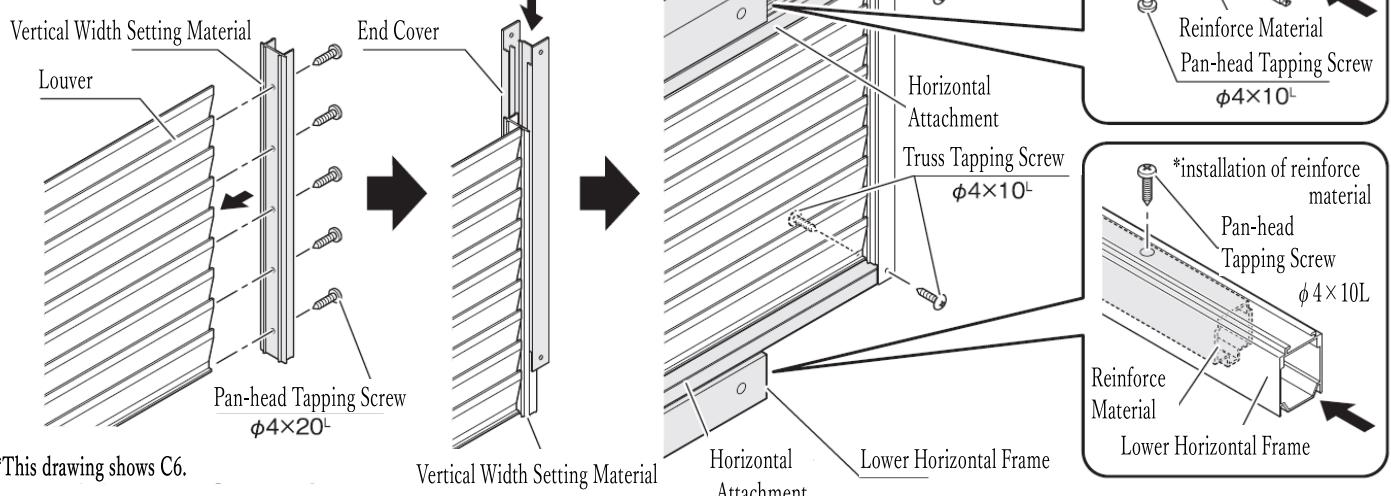
7 Cutting the Fence

1. Make holes ($\phi 6$) for straight joint to inside of the end part of upper and lower horizontal frame.
2. Make holes ($\phi 3.3$) for end cover to both side of the horizontal attachment.
3. When cut the reinforce material, make holes ($\phi 3.2$) to the reinforce material, and holes ($\phi 5$) to upper and lower horizontal frame.



8 Assembling Fence

1. Install louver and vertical width setting material with pan-head screw.
2. Install end cover.
3. Install horizontal attachment.
4. Fix 4 parts of end cover with truss tapping screw.
5. When reinforce materials are cut, install it to upper and lower horizontal frame.
6. Install upper and lower horizontal



*This drawing shows C6.



SHIKOKU Fence C7&C12

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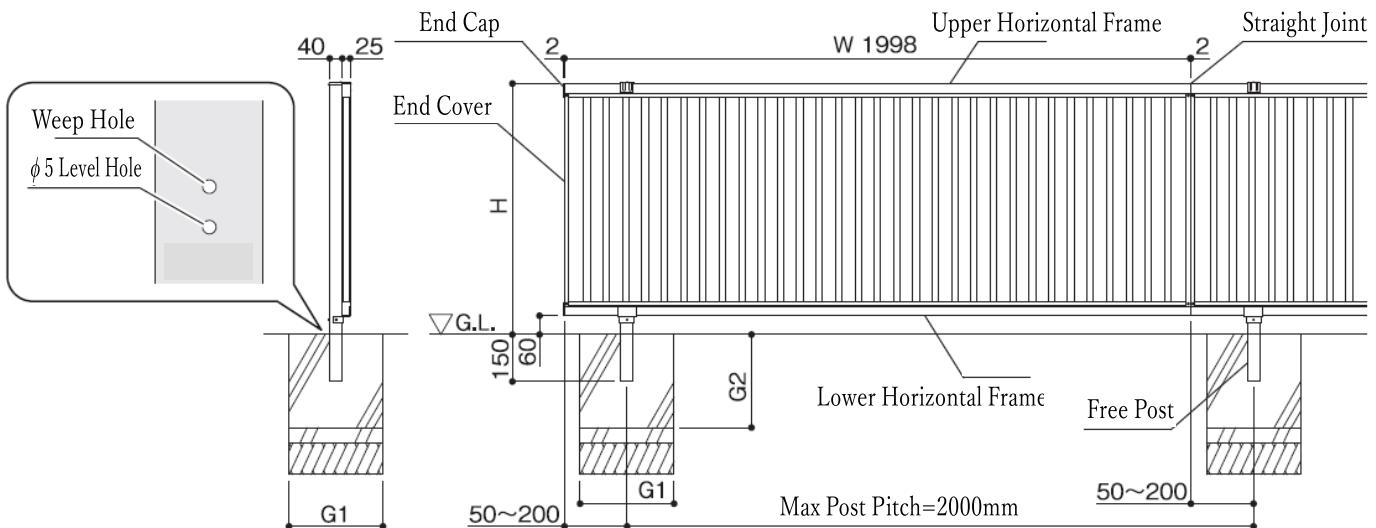
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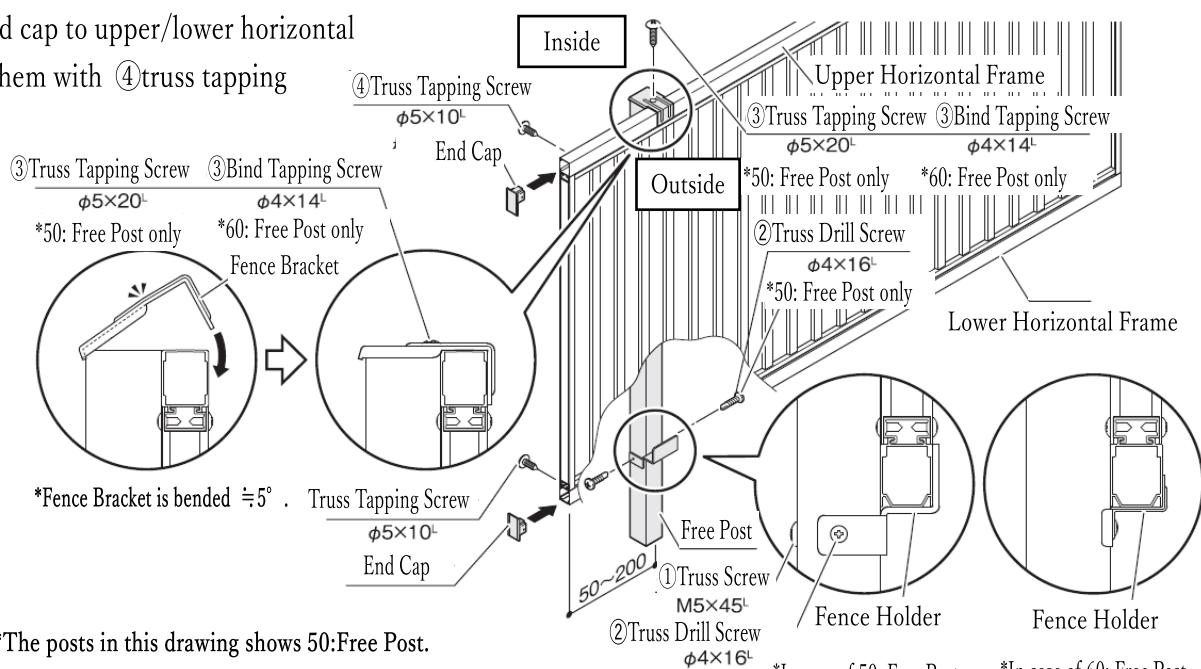


- *() shows 60:Free Post H10&12.
- *This drawing shows in case of independent foundation.
- *The posts in this drawing shows 50:Free Post.

Size	H	W	G1	G2
H06	600	1998	300 or more	350 or more
H08	800	1998	300 or more	350 or more
H10	1000	1998	400 or more	450 or more
H12	1200	1998	400 or more	450 or more

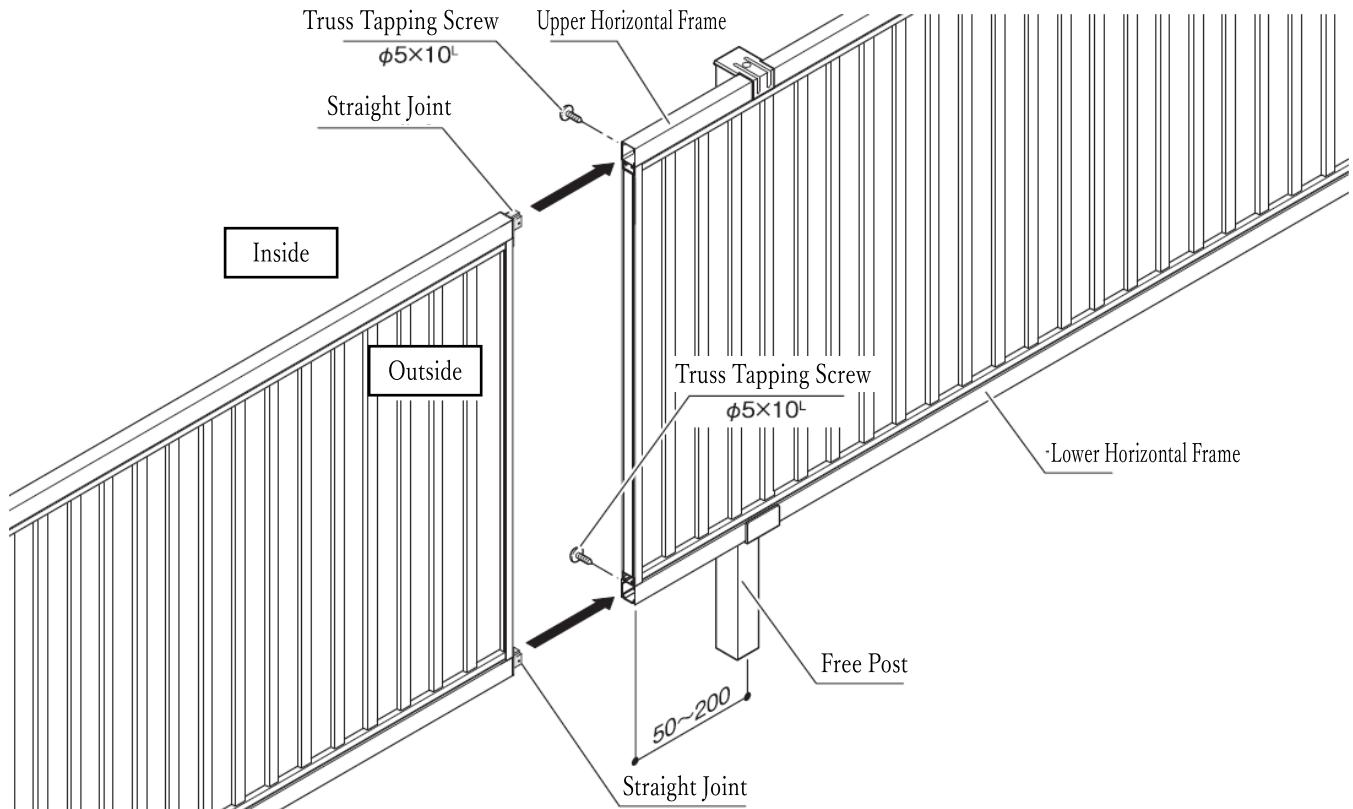
2 Installation of Post and End Cap

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3. Install fence bracket to upper horizontal frame and fix it with ③truss/ binding tapping screw while holding back side of free post.
4. Insert end cap to upper/lower horizontal and fix them with ④truss tapping screw.



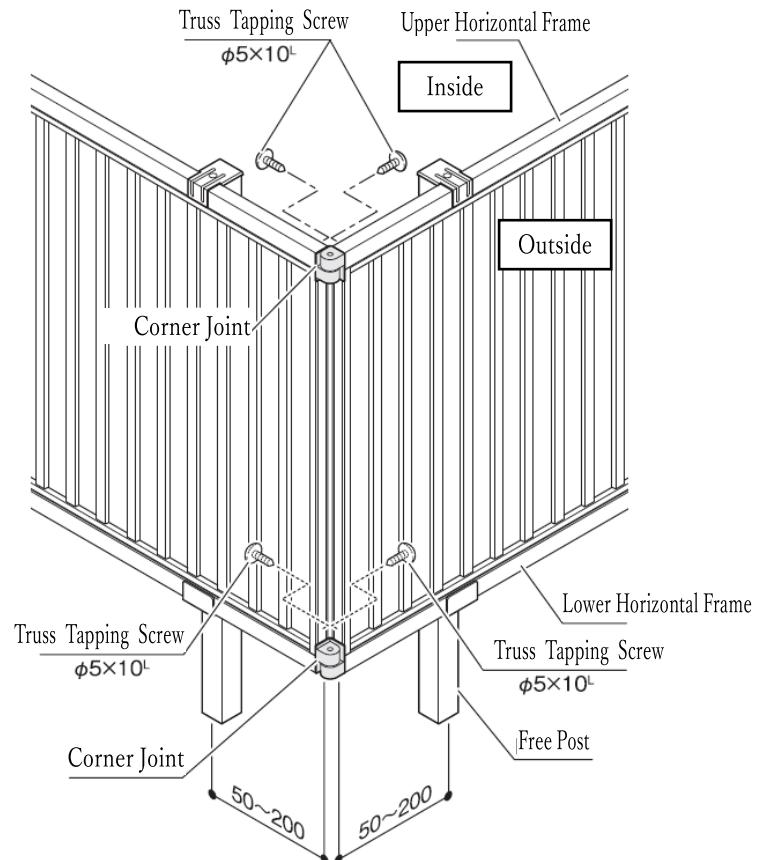
3 Installation of Straight Joint

1. Insert straight joint to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$



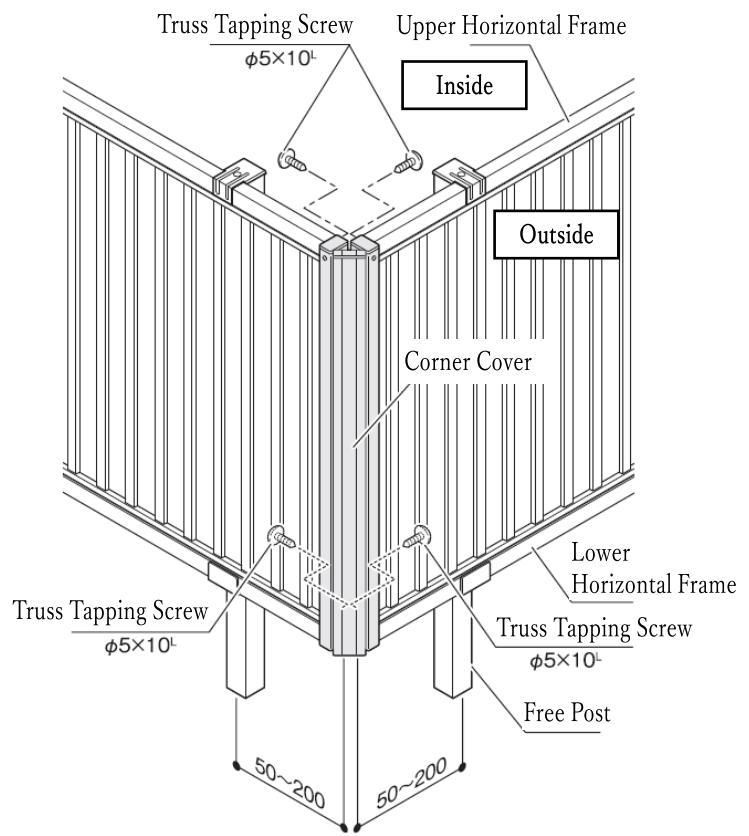
4 Installation of Corner Joint

1. Insert straight joint to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



5 Installation of Corner Cover

1. Insert corner cover to upper and lower horizontal frame and fix them with truss tapping screw $\phi 5 \times 10L$.



Adjustment of the Width of Fence

6 Cutting the Fence

●C7

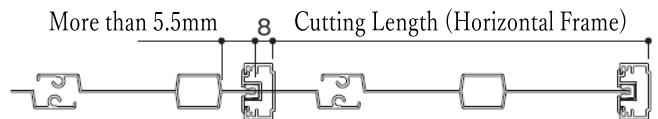
1. Measure the necessary length and draw a cutting line to upper and lower horizontal frame and horizontal attachment.
2. Remove upper and lower horizontal frame.

***In case of H10 & H12 size**

Remove reinforce material from upper and lower horizontal frame and draw cutting line 40mm shorter than horizontal frames.

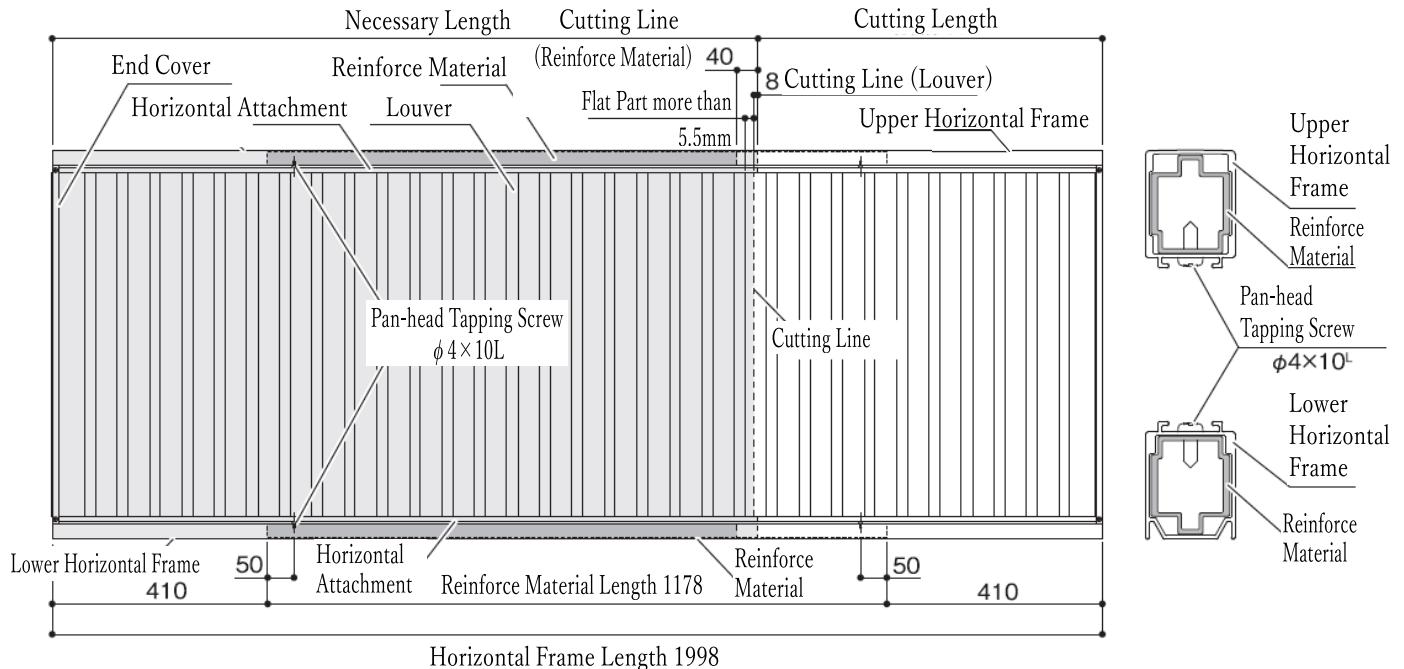
3. Draw cutting line 8mm shorter than upper and lower horizontal frame.

***When cutting louver, leave flat part more than 5.5mm from convex part.**



4. Remove end cover and cutting part's louver.

5. Cut each parts along with cutting line.



●C12

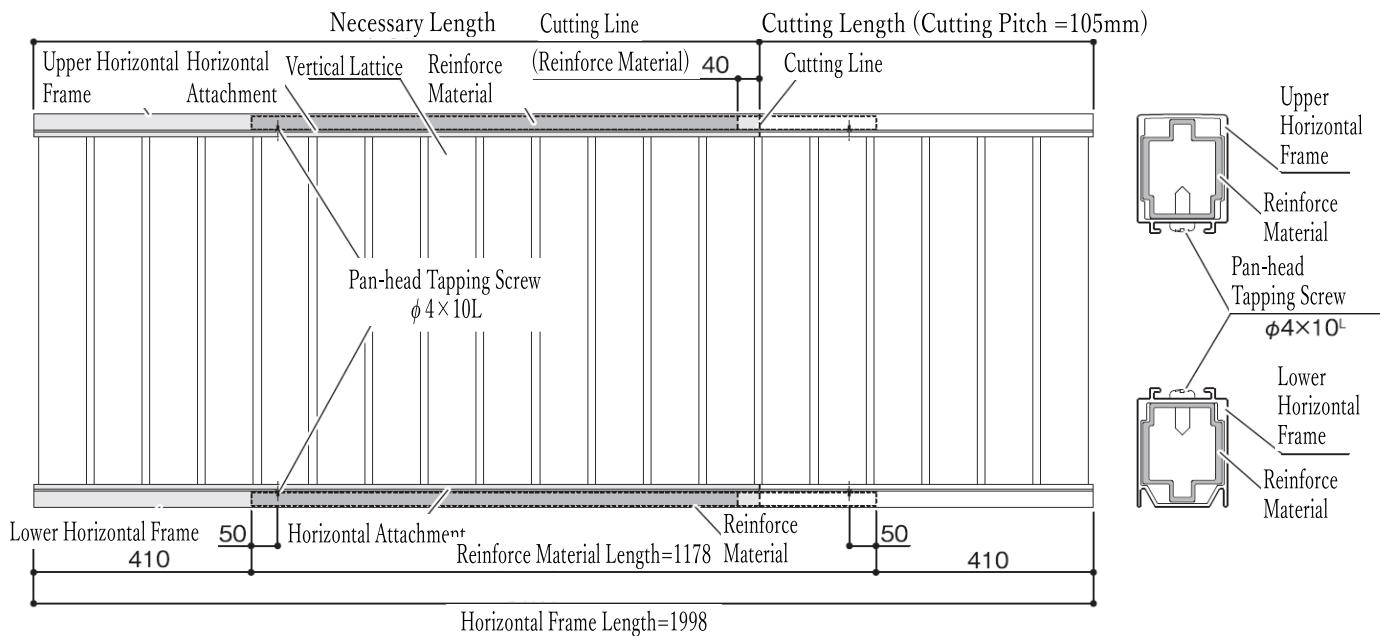
1. Measure the necessary length and draw a cutting line to upper and lower horizontal frame and horizontal attachment.
- *The cutting line should not be on the vertical lattice. (Cutting Pitch=105mm)
- *The Vertical lattice which is cut cannot be installed.

2. Remove upper and lower horizontal frame.

*In case of H10 & H12 size

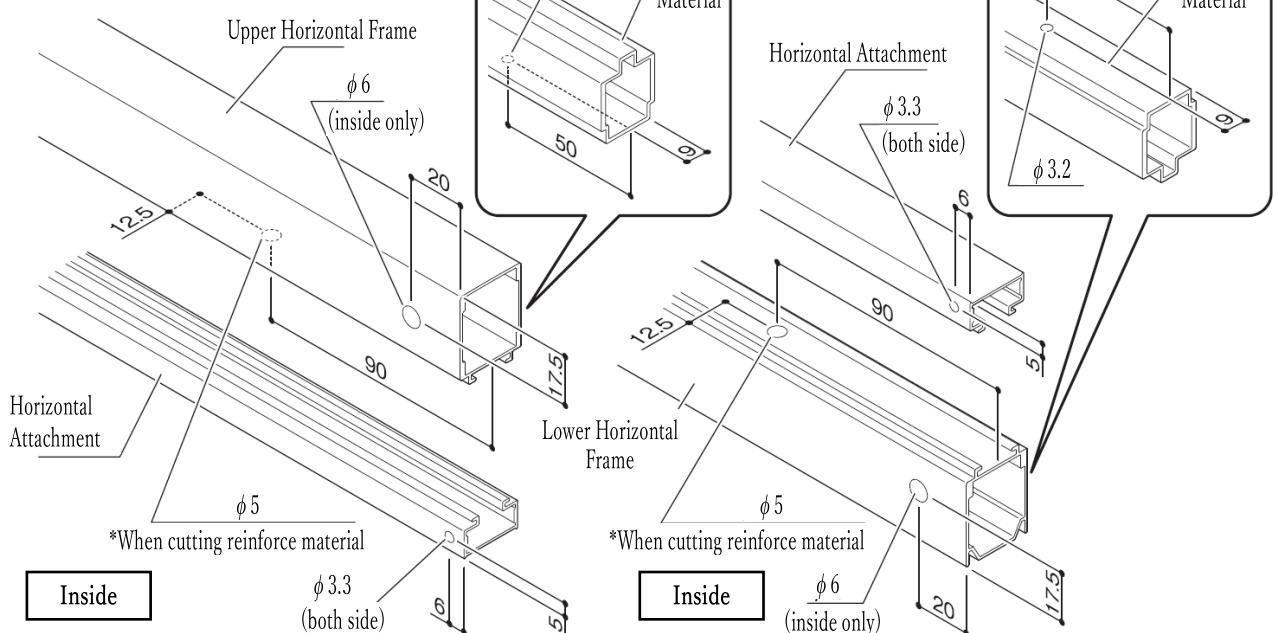
Remove reinforce material from upper and lower horizontal frame and draw cutting line 40mm shorter than horizontal frames.

3. Remove vertical lattice on cutting part.
4. Cut each parts along with cutting line.



7 Cutting the Fence

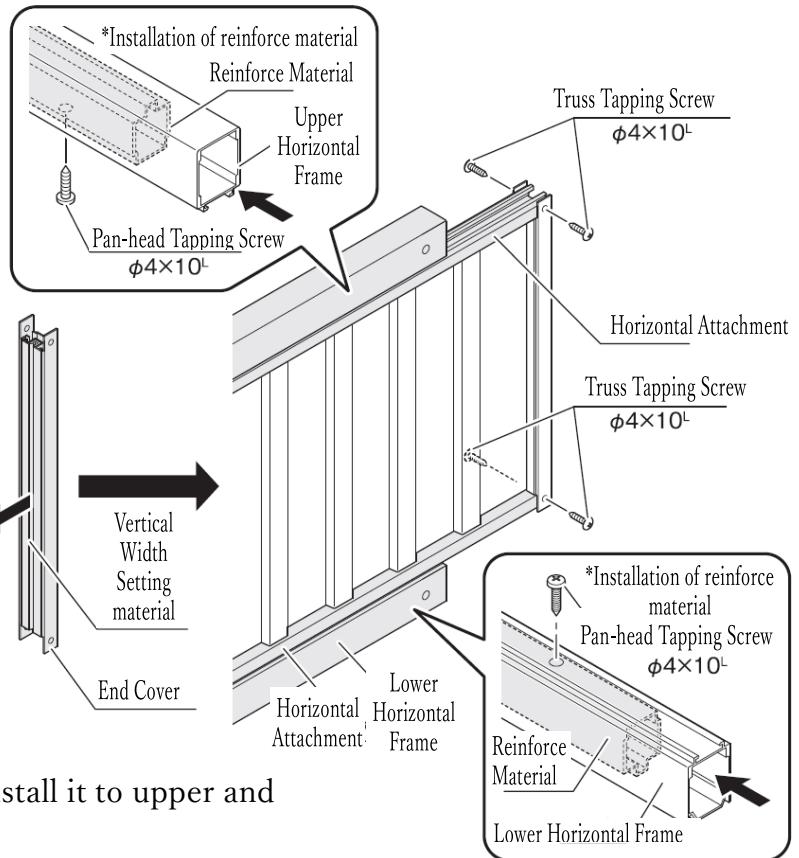
1. Make holes ($\phi 6$) to upper and lower horizontal frame from inside for joint.
2. Make holes ($\phi 3.3$) to horizontal attachment from both side for end cover.
3. When cut the reinforce material, make holes ($\phi 3.2$) to the reinforce material and $\phi 5$ to upper and lower horizontal frame.



8 Assembling Fence

●C7

1. Connect vertical width setting material and end cover and insert them to louver.
2. Fix 4 parts with truss tapping screw.
3. When reinforce materials are cut, install it to upper and lower horizontal frame.
4. Install upper and lower horizontal frame.



●C12

1. When reinforce materials are cut, install it to upper and lower horizontal frame.
2. Install upper and lower horizontal frame.