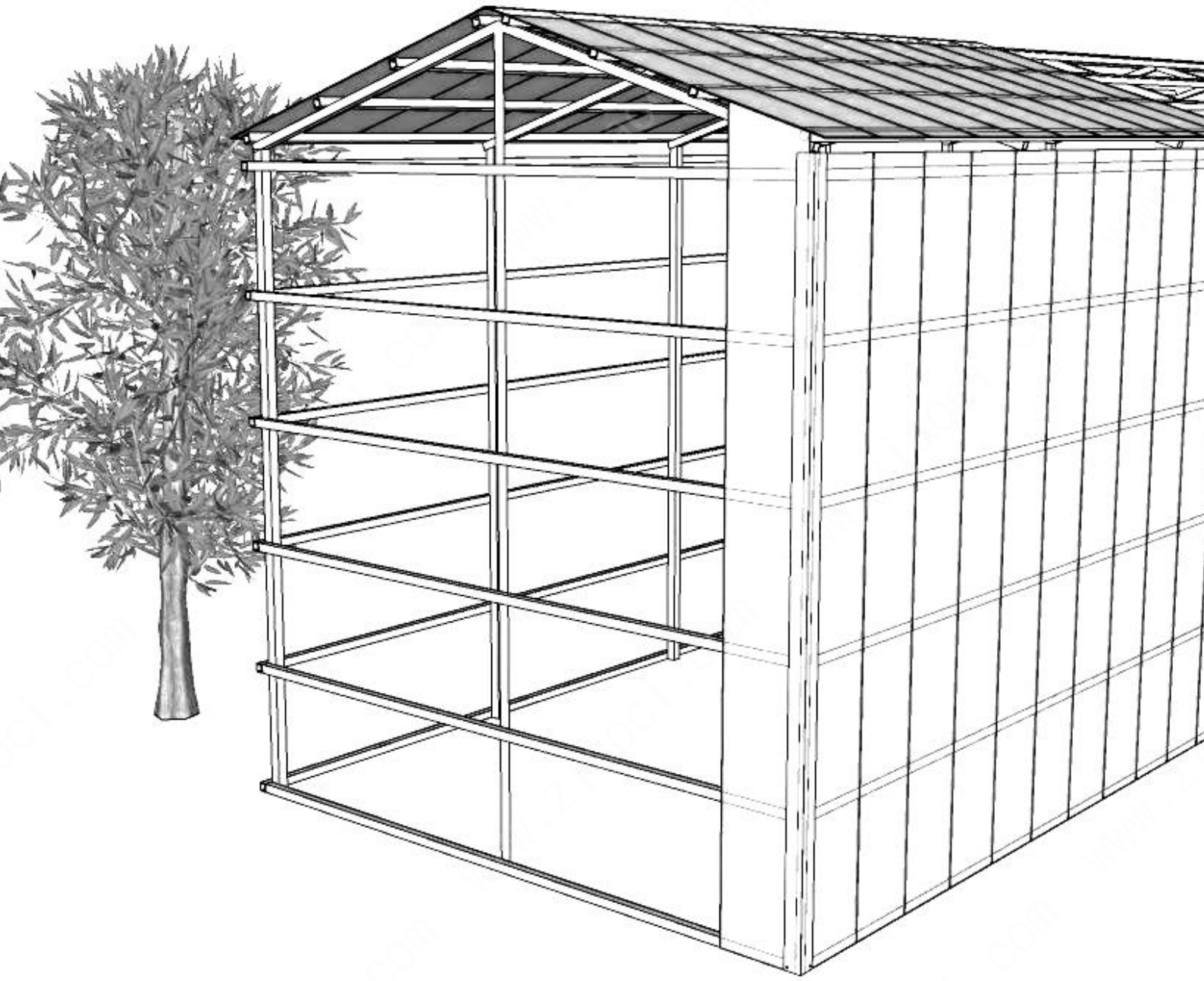


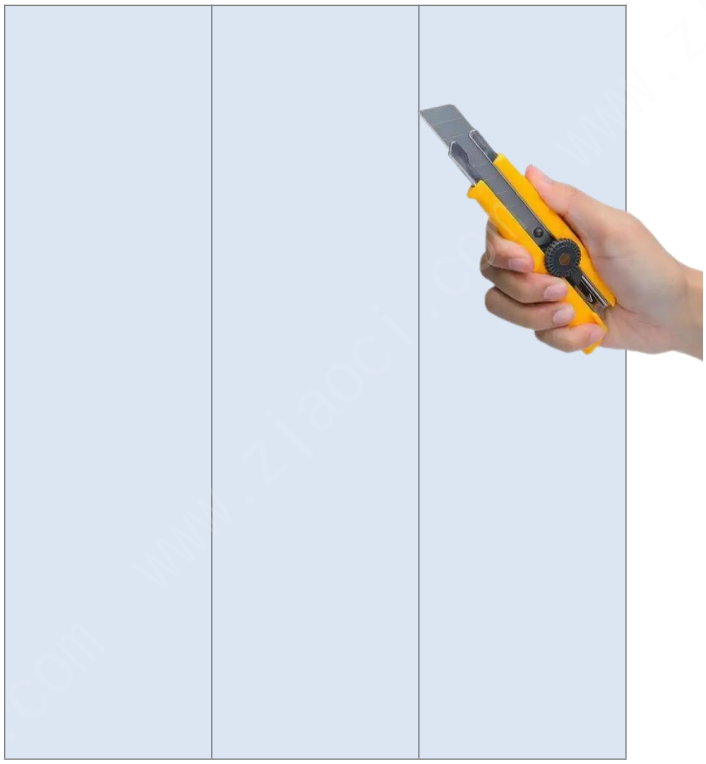
AOCI® Roof wall solutions

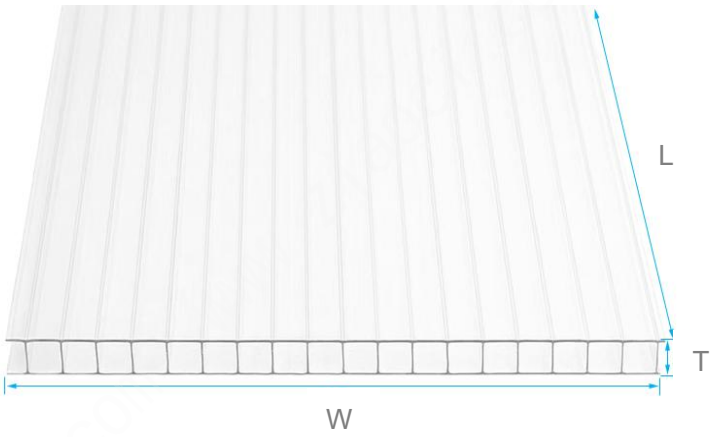
1. Cut the sheet

Divide the sheet with a size of 2.1 * 5.8M into three and cut it into 0.7 * 5.8M.

If it is a batch project, the factory can customize the size: width 0.7M * any length (it is recommended that the maximum length should not exceed 7M).

Cutting Tools: Wallpaper Knife, Hand Saw





2. Seal both ends of the plate

1. Tear off the lower protective film (the side without printing), peel off the upper protective film (the side with printing) by about 10cm, and stick aluminum foil tape and breathable tape.
2. Install U-shaped profiles at both ends of the board.
3. Store in a cool and dry place for future use.

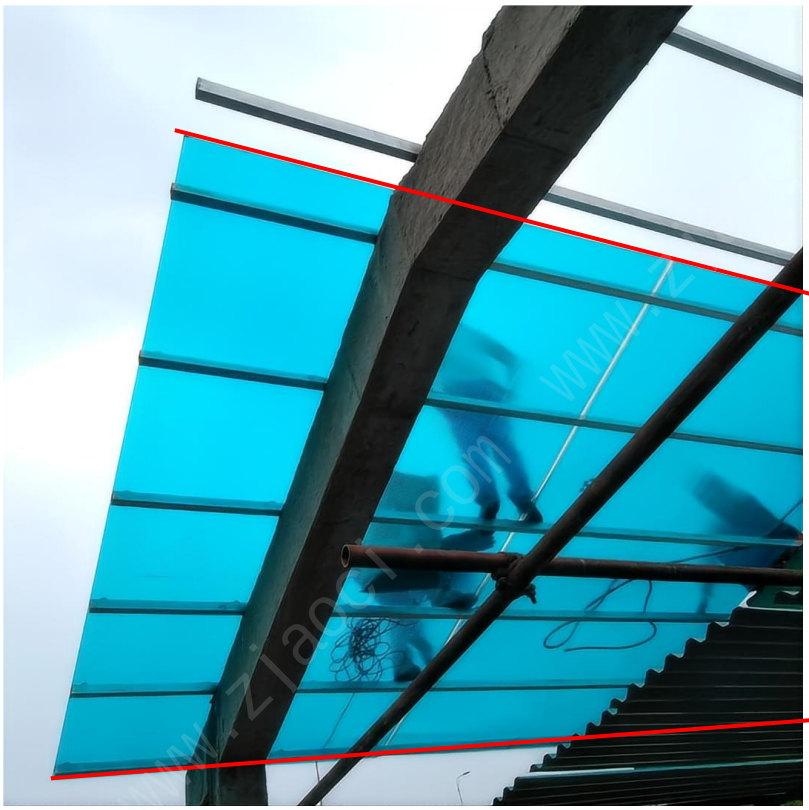

Uncover the protective film


Aluminum foil tape


Breathable tape


U-shaped profiles

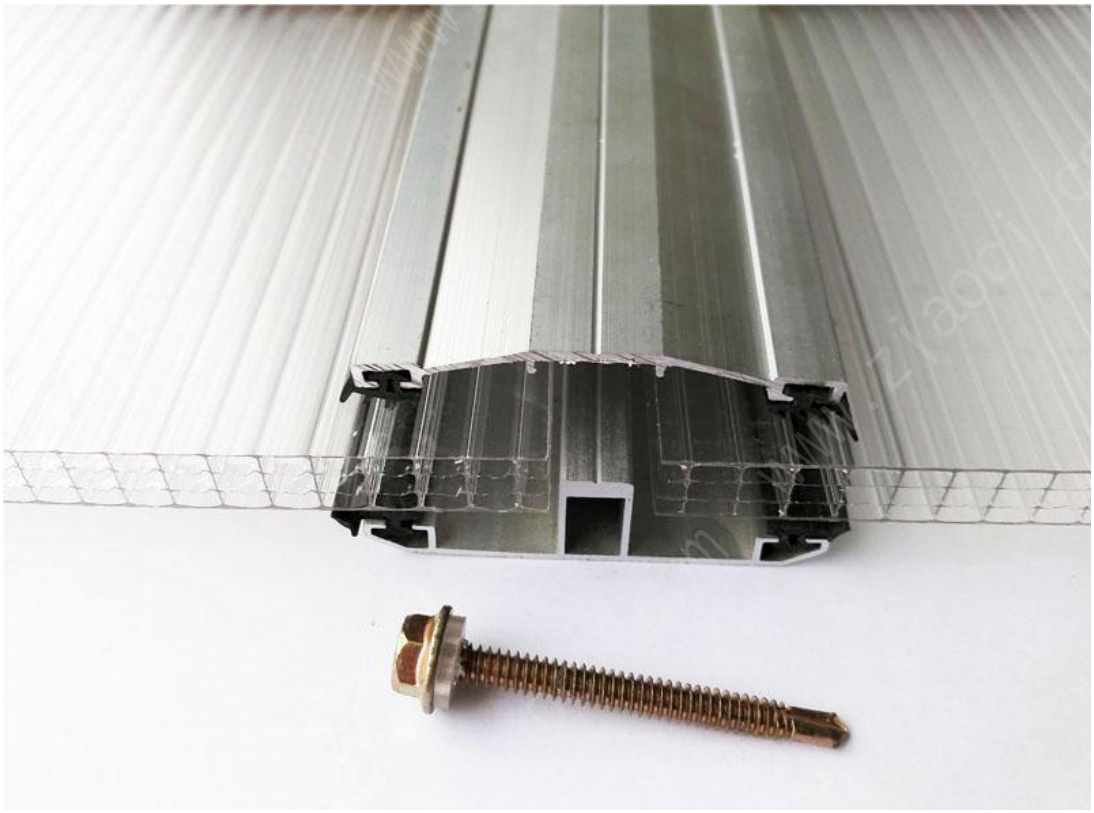
*Some applications do not use this step, resulting in rainwater entering the interior, affecting aesthetics and lifespan.



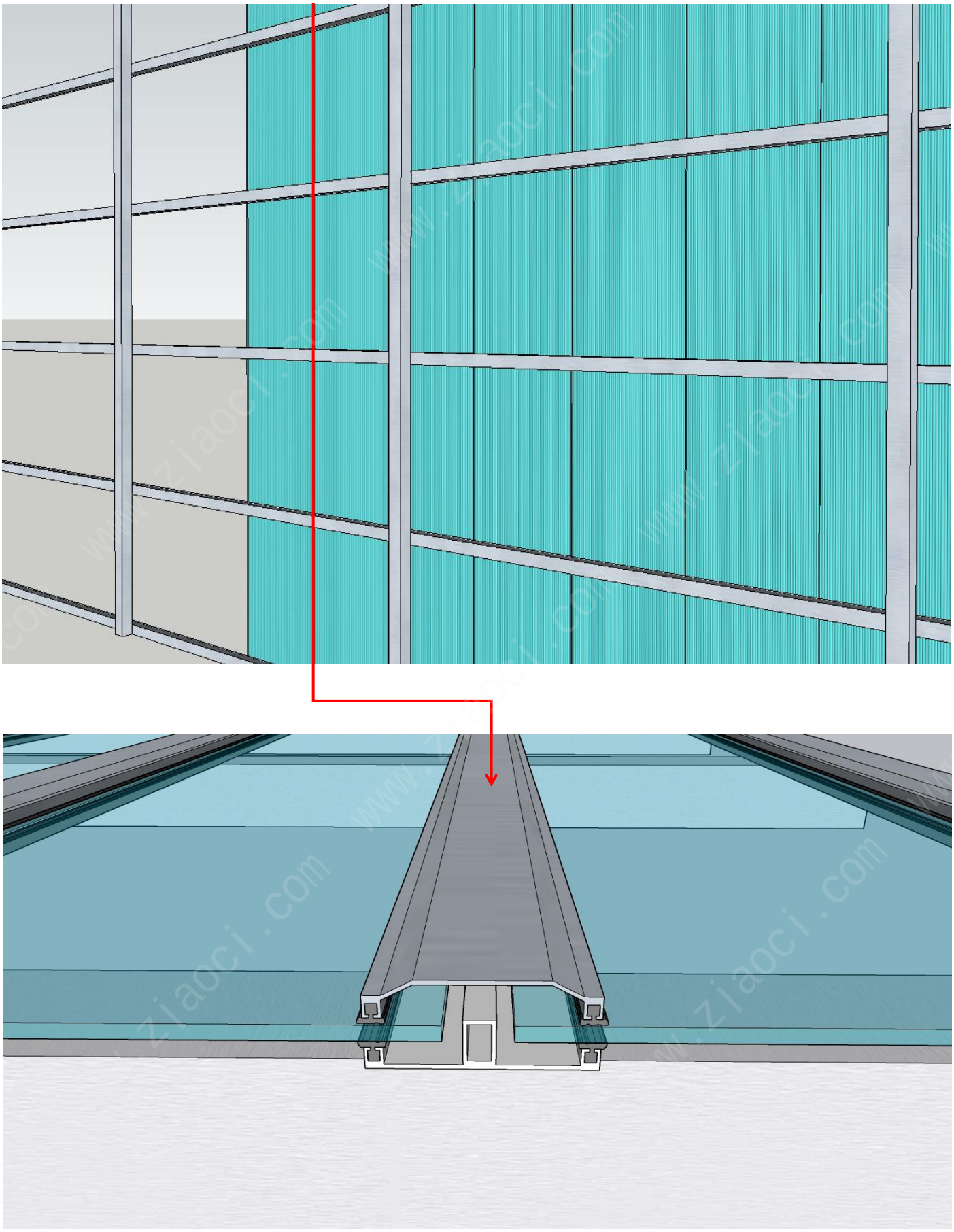
Aluminum foil tape

Breathable tape

3. Node technology: Splicing

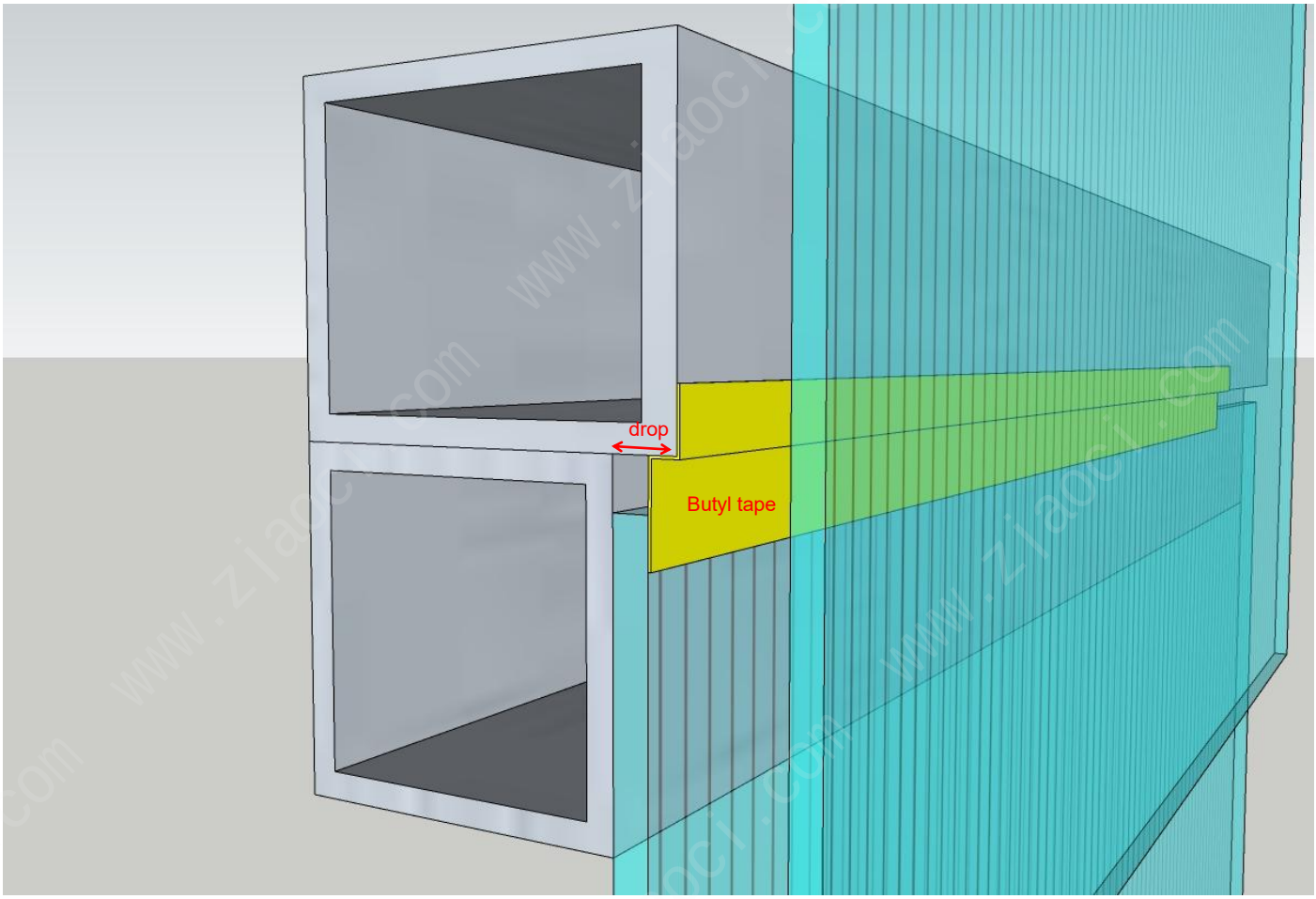


Special aluminum profile for splicing



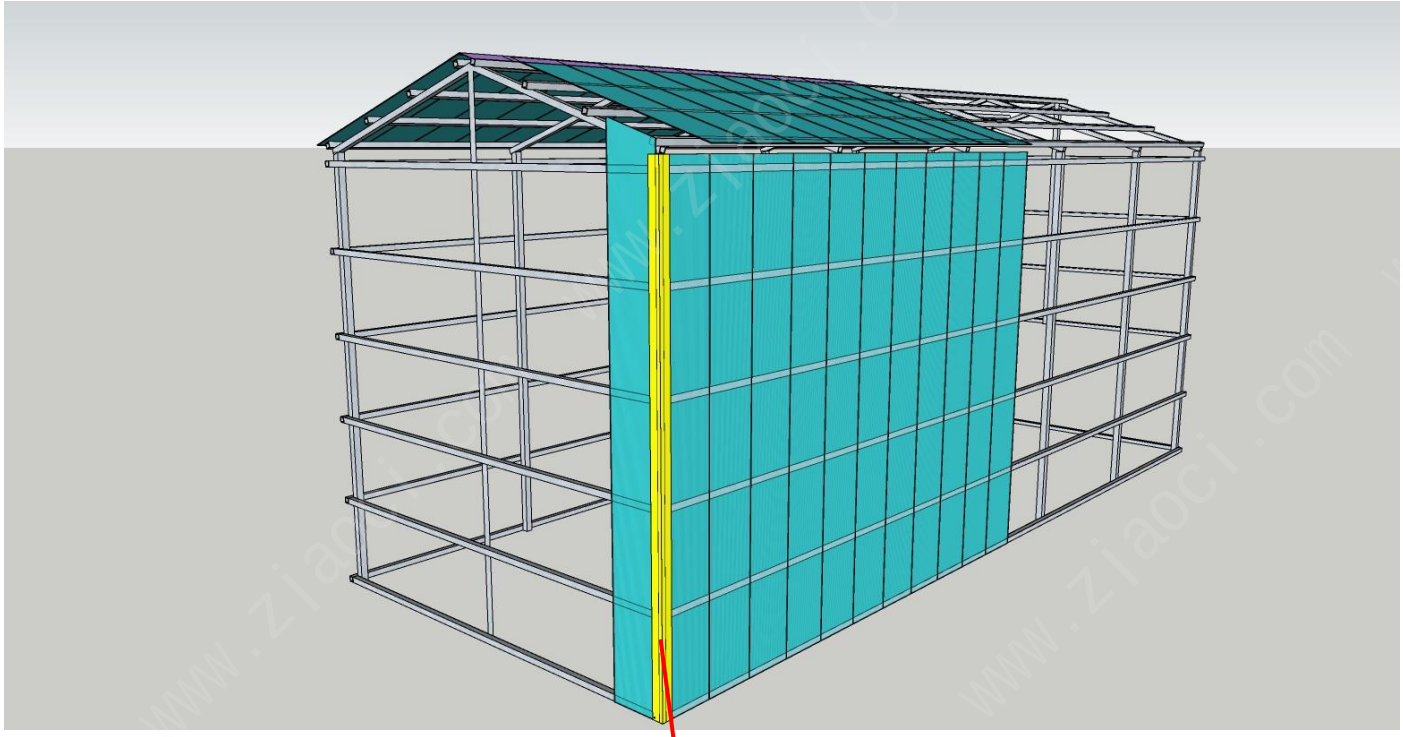
Specialized aluminum profiles can provide support for joints without considering the spacing of longitudinal purlins.

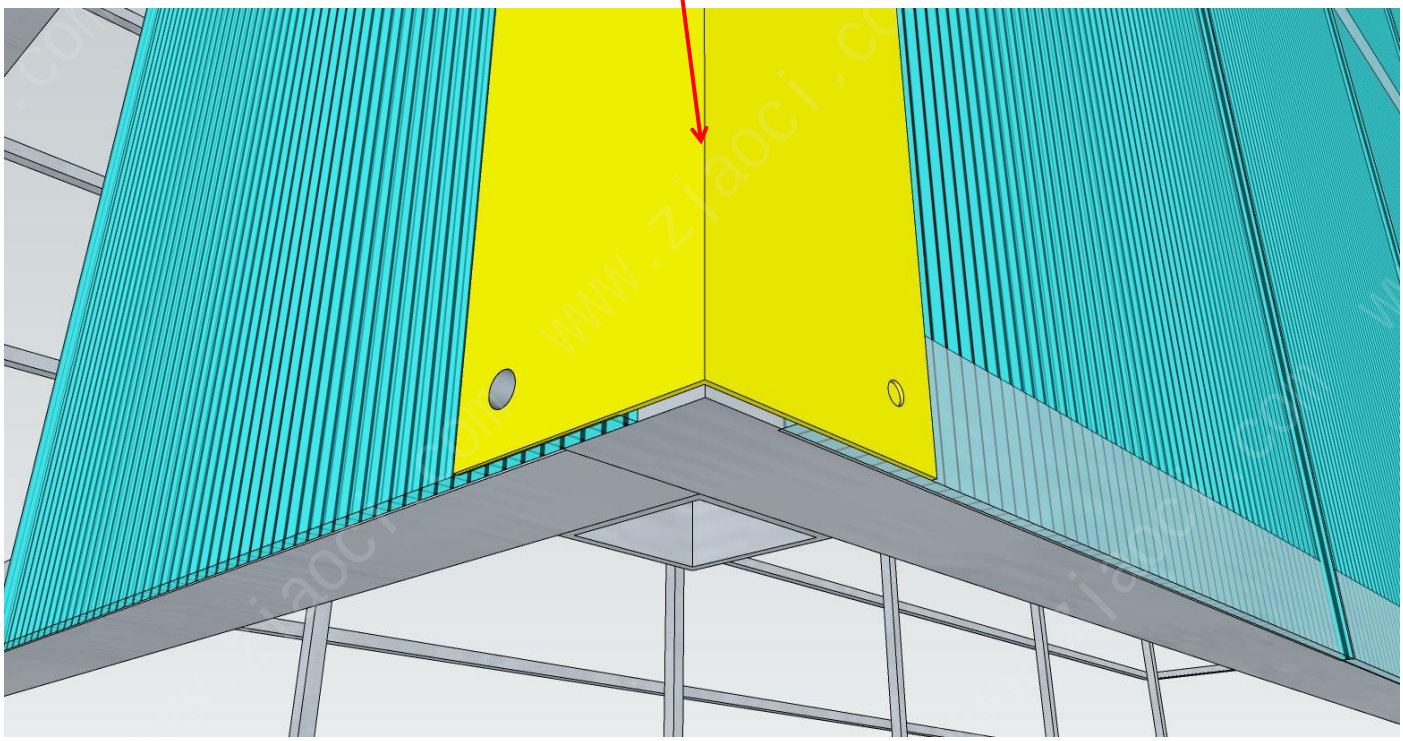
4. Node technology: Overlapping



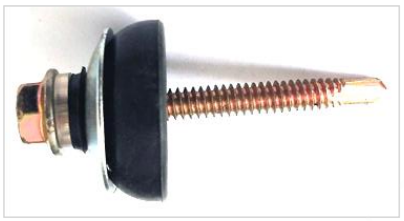
1. Utilize the height difference of purlins, which is determined by the thickness of the sheet.
   6mm sheet drop ≥ 30mm
   8mm sheet drop ≥ 32mm
   10mm sheet drop ≥ 34mm
   and so on...
2. Lay and install the sheet (from bottom to top).
3. Paste butyl tape at the gap to effectively seal and waterproof.

5. Node technology: corner





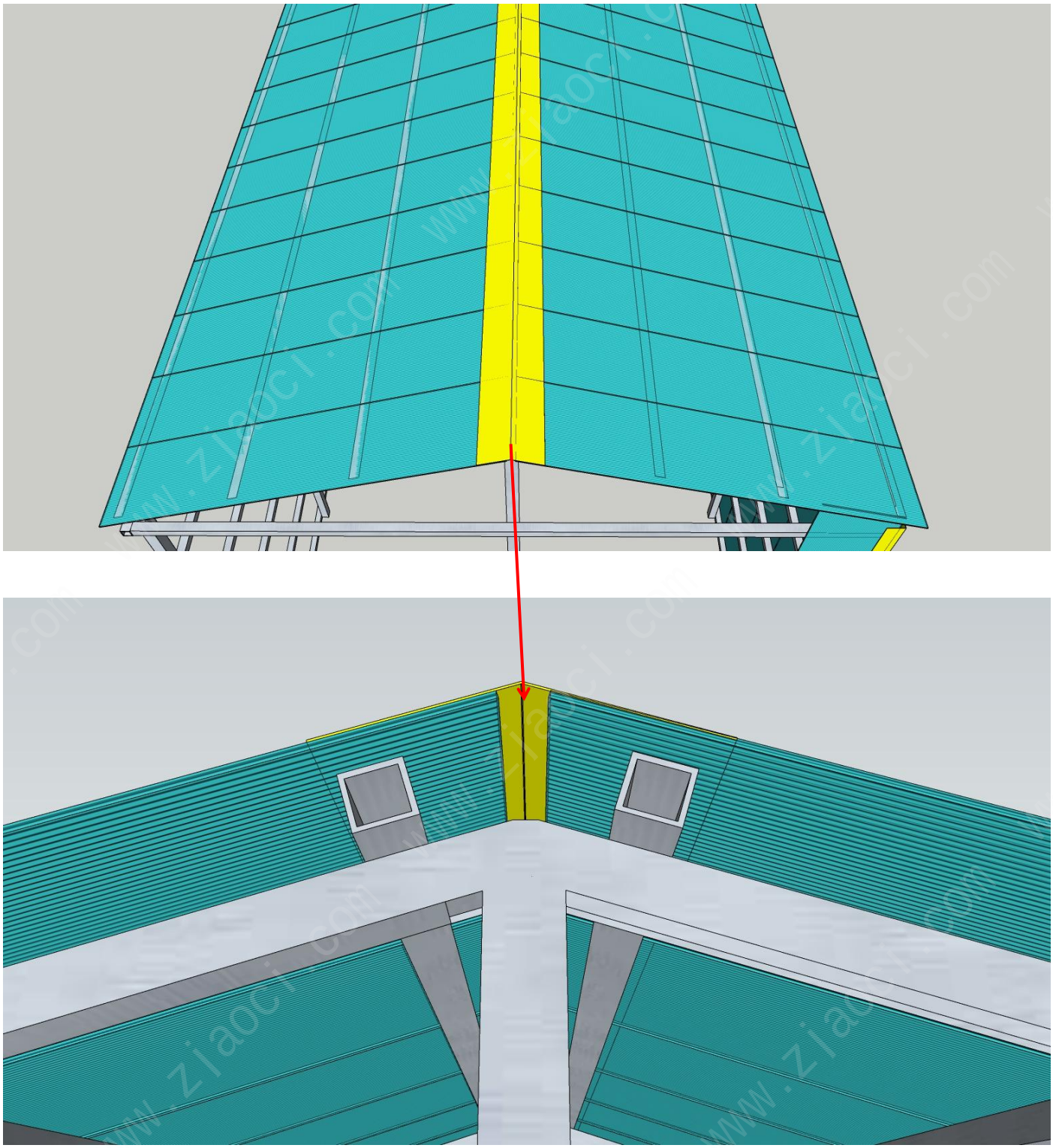
1. Corner production: 0.5mm thick stainless steel plate can be used for bending, with a width of 60mm on each side.
2. Installation of corners: Use waterproof self tapping screws to penetrate corners and sheets, and fix them on purlins.



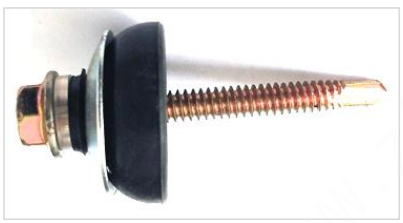
EPDM screw

PP cap screw

6. Node technology: roof ridge



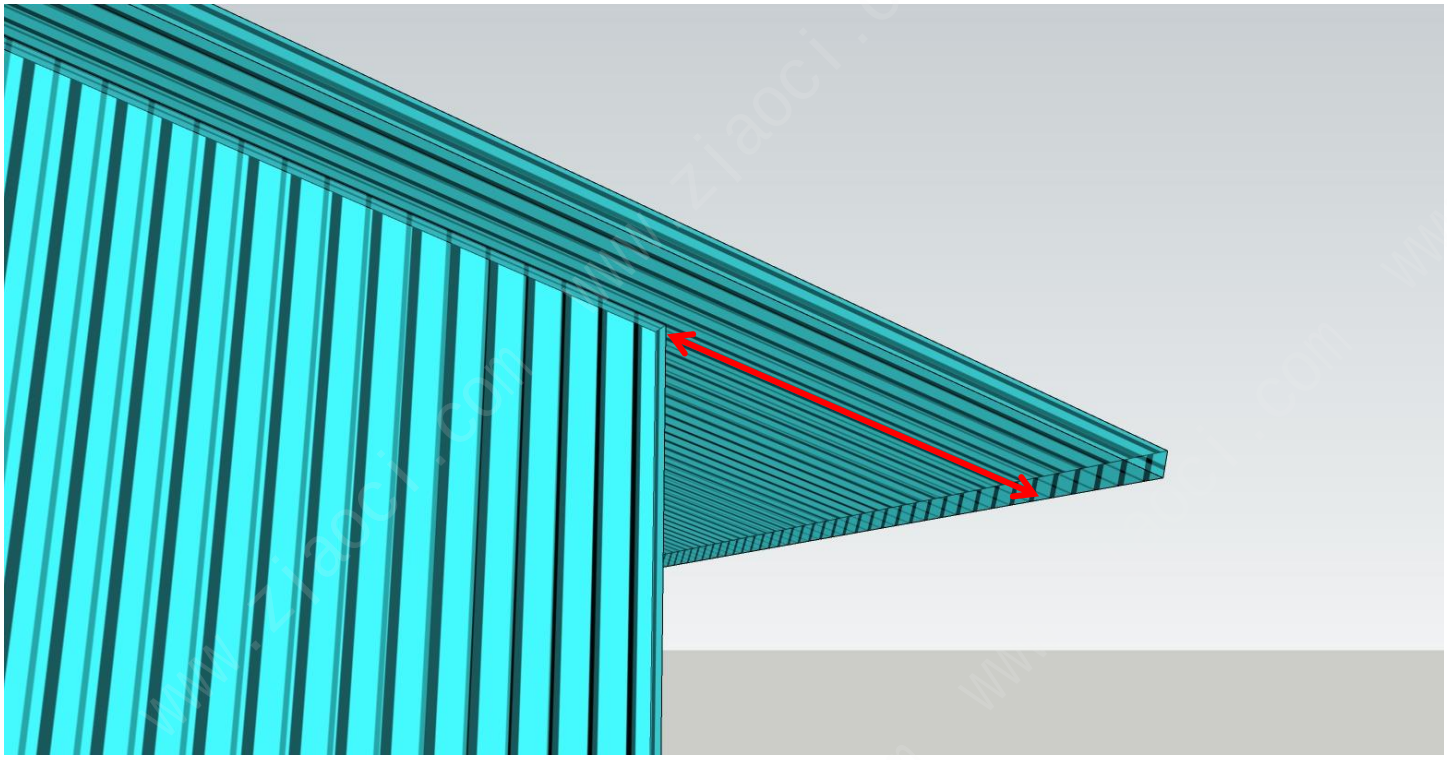
1. Production of roof ridge: 0.5mm thick stainless steel plate can be used for bending, with a width of 100mm on one side.
2. Installation of roof ridge: Use waterproof self tapping screws - penetrate the roof ridge - penetrate the board - fix it on the purlin.



EPDM screw

PP cap screw

7. Ridge length



The length of the eaves is 20 times the thickness of the sheet, for example:

[Sheet thickness 6mm, eave length 120mm]

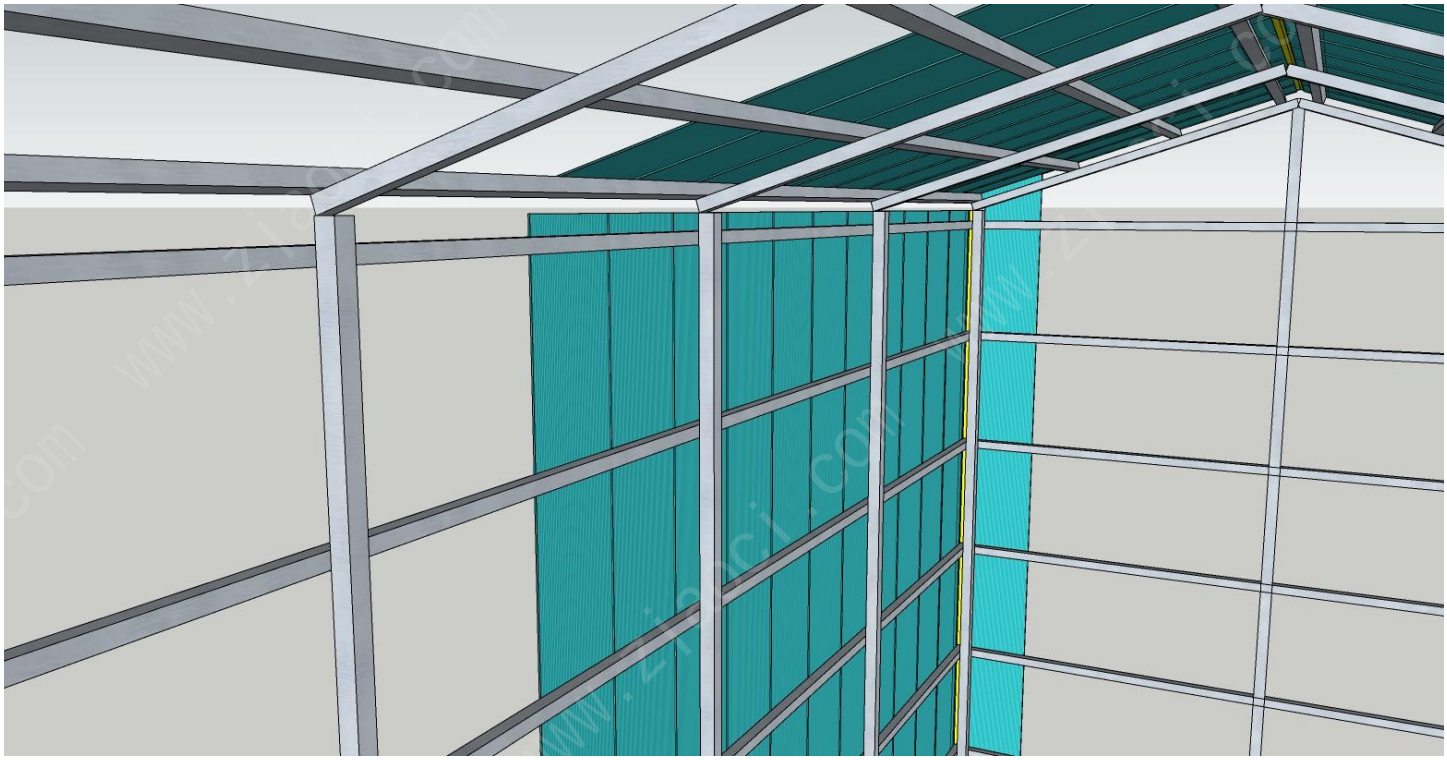
[Sheet thickness 8mm, eave length 160mm]

[Sheet thickness 10mm, eave length 200mm]

When the thickness of the sheet is greater than 10mm, the length of the eaves should not exceed 250mm.

This suggestion is a common practice that in areas with strong winds, the length of eaves should be reduced.

8. Spacing between purlins



According to experience, the spacing between purlins is 100 times the thickness of the sheet, for example:

[Sheet thickness 6mm, purlin spacing 600mm]

[Sheet thickness 8mm, purlin spacing 800mm]

[Sheet thickness 10mm, purlin spacing 1000mm]

When the thickness of the sheet is greater than 10mm, the spacing between purlins should not exceed 1200mm.

This suggestion is based on experience, and in areas with strong winds, the spacing between purlins should be reduced.

9. Materials involved

Panel: Hollow sheet

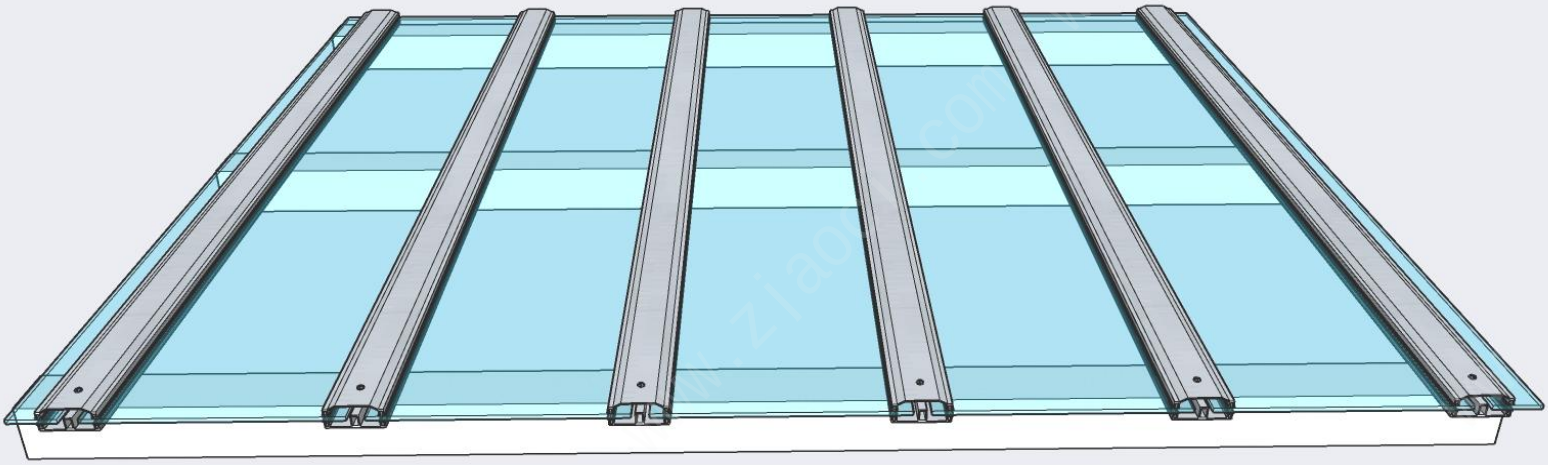
Tape types: aluminum foil tape, breathable tape, butyl tape

Profile category: Spliced aluminum profiles, U-shaped profiles

Bending: stainless steel corners, stainless steel ridges

Screw: Waterproof gasket+self tapping screw

10. Case



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