

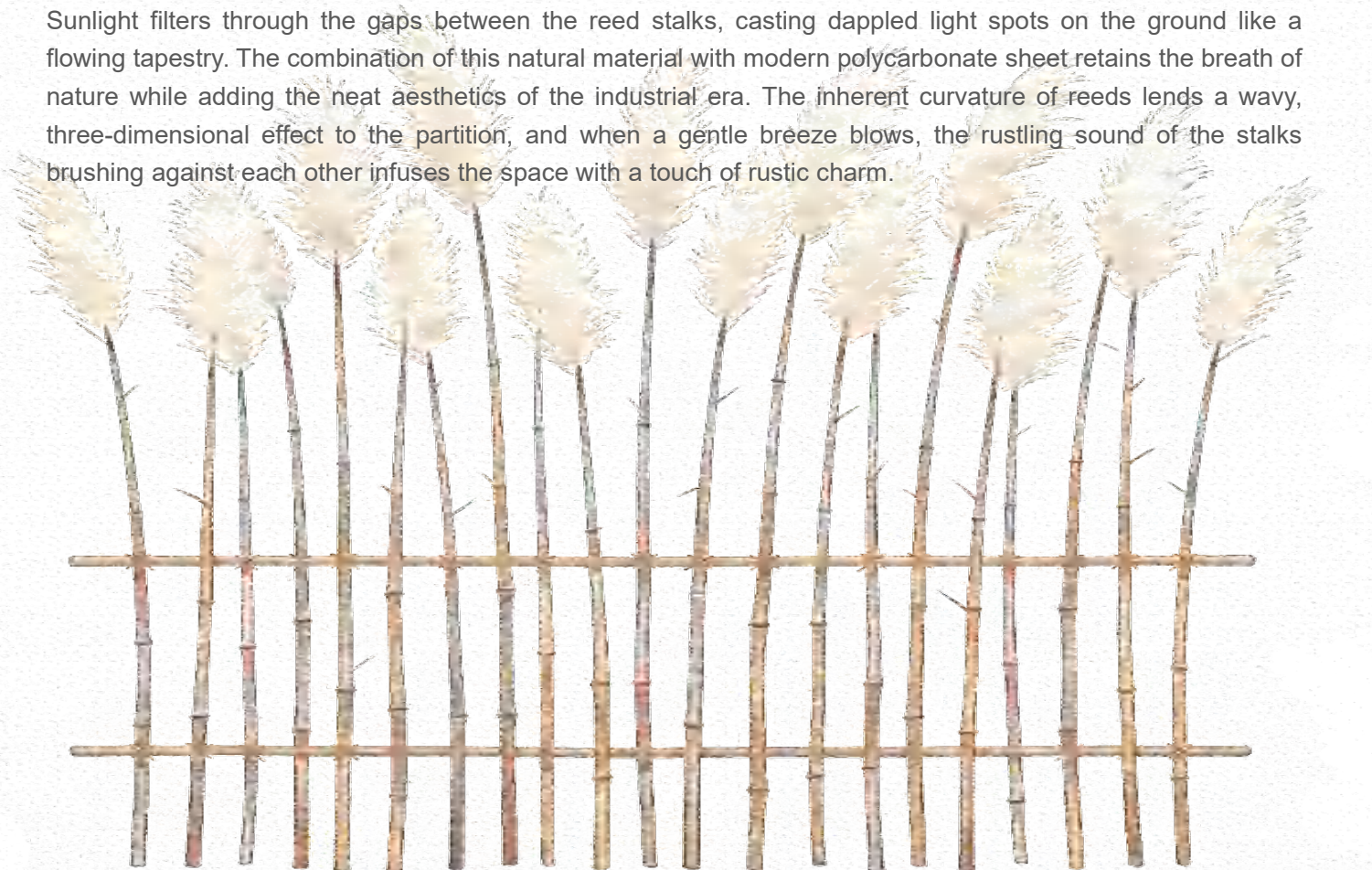


PolyReed





Sunlight filters through the gaps between the reed stalks, casting dappled light spots on the ground like a flowing tapestry. The combination of this natural material with modern polycarbonate sheet retains the breath of nature while adding the neat aesthetics of the industrial era. The inherent curvature of reeds lends a wavy, three-dimensional effect to the partition, and when a gentle breeze blows, the rustling sound of the stalks brushing against each other infuses the space with a touch of rustic charm.





PolyReed is based on self-produced **polycarbonate sheet**, using polycarbonate raw materials from brands such as Covestro and Sabic. The panel surface is co-extruded with a high-concentration **UV-resistant coating**, delivering excellent weather resistance.

The internal cavities of the panels are filled with reed stalks, which are processed through peeling, cleaning and fumigation to prevent mildew and deterioration.

Combining the lightweight and weather-resistant properties of polycarbonate panels with the ecological attributes of reeds, this product is a new type of panel that integrates practicality, aesthetics and environmental friendliness.



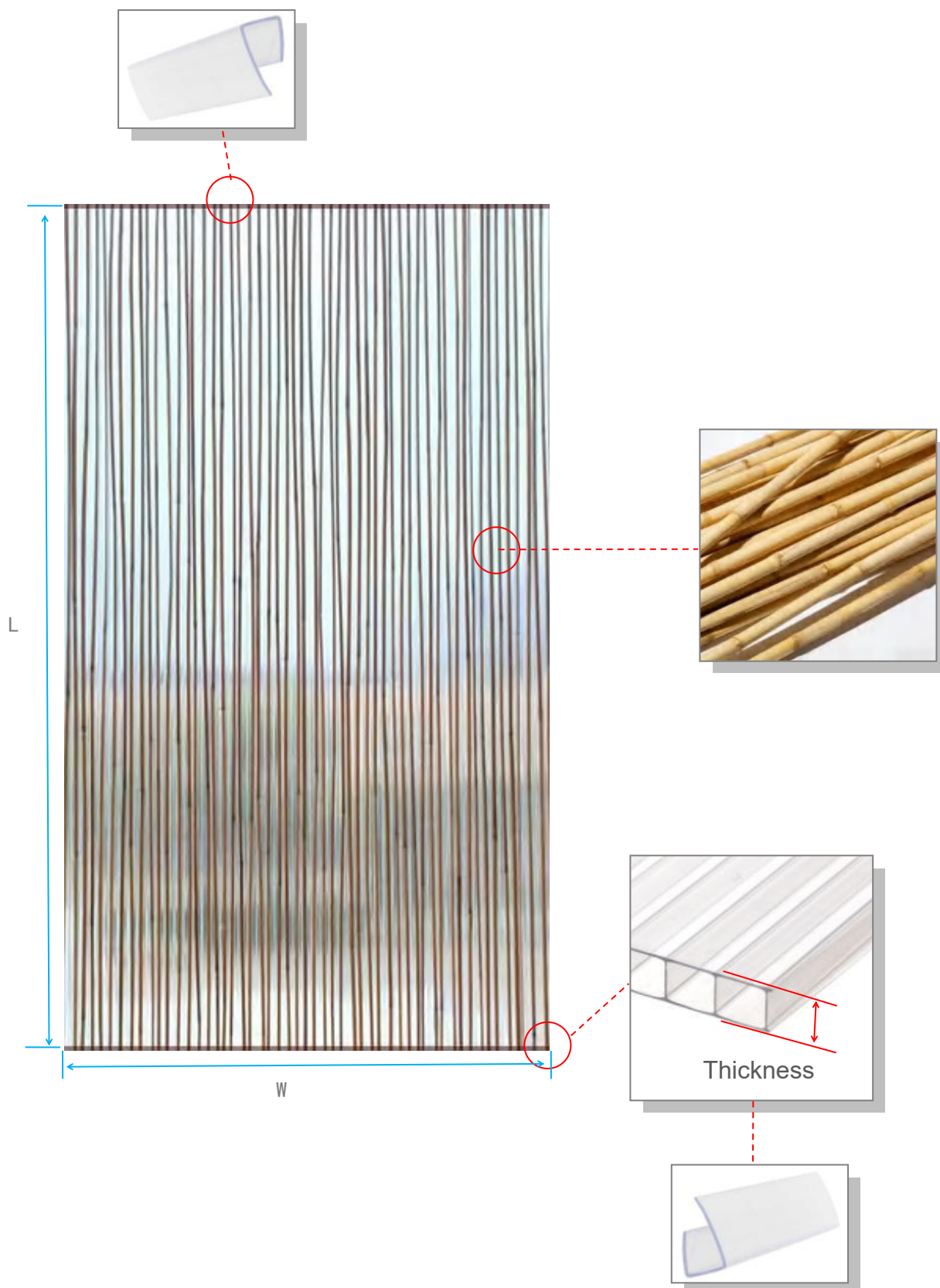
POLYREED



POLYREED

SIZE:

- ①: 10*1000*2000mm
- ②: 10*2000*2000mm
- ③: Custom Sizes (Width \leq 2.1m, Length \leq 4m)







The **PolyReed canopy**, based on polycarbonate sheets and filled with reed stalks, is a symbiosis of natural textures and modern functionality.

It retains the relaxed, breathable quality of the reed's grain while boasting the toughness of polycarbonate sheets, allowing light and shadow to filter through gently — softening the harsh glare of the sun yet keeping the space bathed in flowing natural light at all times.

Ideal for laid-back settings such as courtyards and terraces: the warmth of wooden frames, paired with the natural grain of reed fibers, enables it to blend seamlessly into environments like bamboo groves and grassy fields, or serve as a softening element for the eaves of modern buildings.

It requires none of the fussy maintenance that comes with delicate natural materials, yet delivers the relaxed vibe of organic textures — lending outdoor spaces both the cozy, rustic warmth of nature and the effortless practicality of modern design.





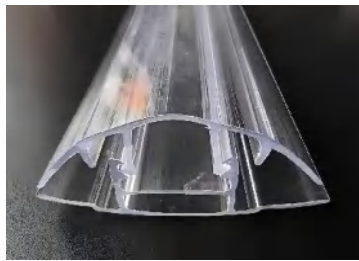
The texture of the polycarbonate sheets also ensures privacy, turning the partition into a **breathable installation artwork**.

This design is particularly suited for transitional spaces such as tea room and restaurant partitions — the simplicity of the reeds tempers the rigidity of the polycarbonate sheets, while the translucency of the polycarbonate sheets offsets the over-shielding drawback of the reeds. As the sun sets, the warm-toned light is filtered into countless golden streaks, casting an ever-changing light and shadow spectacle on the walls. Perhaps this is the perfect answer to the collaboration between nature and human ingenuity.

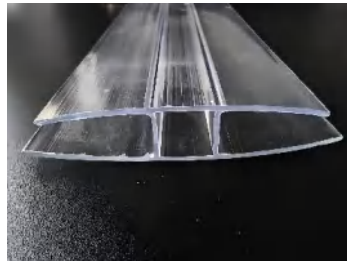
Installation and Precautions

1. **Storage Requirements** Store in a cool and dry place. Strictly prohibit exposure to direct sunlight and rain, and never stack directly on concrete floors.
2. **Selection of Sealant** Use neutral silicone sealant. Strictly prohibit substituting with acidic or alkaline glass glue; any problems arising therefrom will not be covered by the warranty.
3. **Cutting** Cutting can be done with a portable electric saw. After cutting, clean the sawdust inside the holes of the polycarbonate sheets. Both ends of the polycarbonate sheets need to be sealed, which can be done using original PC edge trims or aluminum foil tape.
4. **Service Environment** It is sensitive to acids and alkalis. Do not directly contact concrete surfaces or brick walls during use, and do not use it in environments containing acidic or alkaline substances and gases.
5. **Installation and Fixation**
 - Use special aluminum profiles or PC profiles for joint splicing.
 - When the panel length $\leq 2\text{m}$, self-tapping screws can be used for fixation; note that the screws must be fitted with special gaskets.

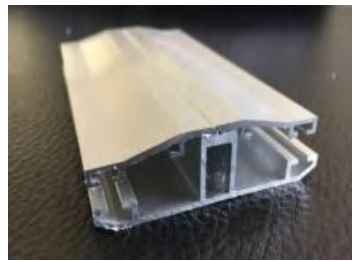
Outdoor Application Scenario: When the panel length $> 2\text{m}$, no screws can be drilled on the panel surface; fixation can only be achieved through profile splicing to avoid screw hole displacement caused by thermal expansion and contraction. In this case, the panel width should be customized to 0.7m, fully fixed on the framework by profile splicing, and no screws can be drilled on the panel surface.



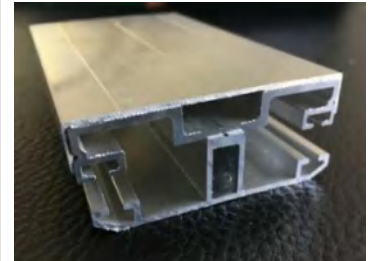
PC buckle



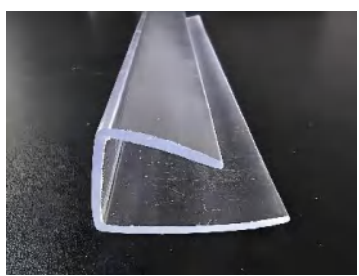
PC - H



Aluminum profile - 1



Aluminum profile - 2



PC - U



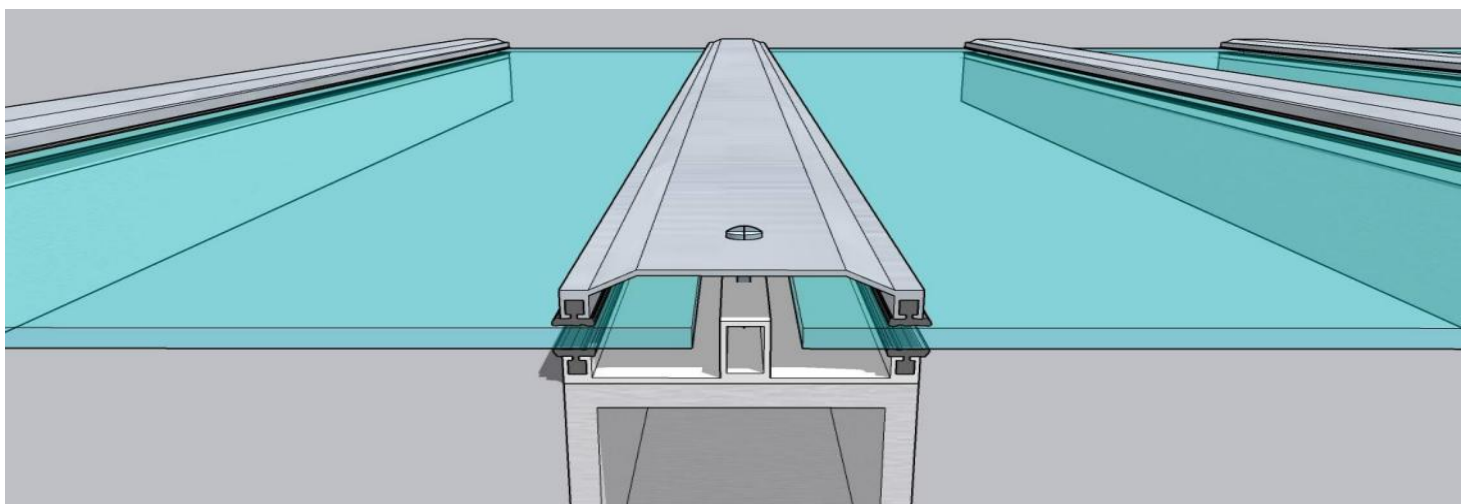
Aluminum foil tape



Screw+gasket



796T neutral adhesive



[Creative inspiration]



This 2018 DIY project was inspired by the concept of **"infusing industrial materials with the relaxed vibe of nature"**. When I noticed that the hollow cavities of polycarbonate sheets were like **"empty vessels"** and that reed stems were easily accessible natural materials, I wanted to **tuck the "outdoor breeze and textures" into these industrial panels**. This design eliminates the need for separate moisture-proof treatment of the reeds while adding a layer of warmth with natural textures to the rigid, cold panels.

It also aims to resolve **"the paradox of room dividers"**: the need for translucency, privacy, and a non-cold aesthetic. Filling the cavities with reeds works perfectly—when light filters through, it is softened into gentle speckles by the fibrous texture, and the natural grain of the reeds blurs the line of sight. In short, this **"material symbiosis"** allows industrial panels and natural materials to complement each other and offset their respective drawbacks.



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