Advantages of thermal break aluminium windows

Because the aluminum alloy is a metal, the heat conduction is relatively fast, so when the temperature difference between indoor and outdoor is large, the aluminum alloy can become a “bridge” for transferring heat. Door and window made by aluminium alloy has poor heat insulation performance. The thermal break aluminum is disconnected from the middle of the aluminum alloy. It uses nylon or PVC to connect the broken aluminum alloy. We know that the heat conduction of the nylon or PVC is obviously slower than that of the metal, so the heat is not easy to pass through the whole material. The thermal insulation performance is also improved.

The advantage of thermal break aluminium profile is:

1. Thermal break aluminum doors and windows have good thermal insulation. The inner and outer frames of the heat-insulating profile are softly combined, the frame is made of a rubber strip, and the double-hair strip is sealed. Airtight, watertight performance, excellent thermal insulation performance; In addition to insulated glass, which makes the window truly sound insulation, heat insulation, heat preservation, excellent function, saves a lot of mining and cooling costs, heat transfer coefficient U value Detecting 2.23-2.94w/2K or less, the energy saving effect is remarkable.

2. Waterproof function of thermal break aluminum doors and windows. The structure of the drainage system is designed by the principle of pressure balance, and the slope of the inclined design is stepped, and the drainage port is provided, the drainage is smooth, and the watertight is good.
3. Thermal break aluminum doors and windows prevent condensation. The broken aluminum profile of the bridge can realize the three-way sealing structure of the door and window, reasonably separate the water vapor chamber, and successfully achieve the pressure balance of gas and water, significantly improve the water tightness and air tightness of the door and window.

4. Thermal break aluminum door and window anti-mosquito screen design. Invisible screens, can be installed inside and outside, with anti-mosquito, flies, especially suitable for many mosquitoes in the north.

5. Thermal break aluminum door and window anti-theft, anti-loose device. Equipped with a standard hardware lock to ensure the stability and safety of the window in use.

6. Thermal break aluminum doors and windows noise insulation. The structure has been carefully designed, the seams are tight, and the test results show that the sound insulation of the air reaches 30–40db.

7. Broken aluminum doors and windows fireproof function. The aluminum alloy is made of metal, and the heat insulation strip is made of PA66+GF25 (commonly known as nylon insulation strip).
8. broken aluminum doors and windows. Sand-proof, wind-resistant. The inner frame is made of hollow material, with strong resistance to wind pressure deformation and good anti-vibration effect. The air tightness of this window is better than any aluminum and plastic window. It can ensure that the indoor window sill and floor of the area with large wind and sand are free of dust.

9. Thermal break aluminum doors and windows have high strength and are maintenance-free. The aluminum structure of the Thermal break has high tensile and shear strength and resistance to thermal deformation. It is strong and durable. The broken aluminum profile is not easily attacked by acid and alkali, and it is not easy to turn yellow and fade, and it is almost unnecessary to maintain.

10. Thermal break aluminum doors and windows of various colors, decorative function. It can reach different colors of indoor and outdoor surfaces of doors and windows, satisfy customers' preference for color effect, and meet the individual design requirements of architects. The aluminum profile is streamlined and luxuriously styled.

11. Thermal break aluminum doors and windows green building materials. In the production process, the aluminum doors and windows of the Thermal break will not only produce harmful materials, but all materials can be recycled and reused. It is a green building material and environmental friendly product.

12. Thermal break aluminum doors and windows open in many forms, comfortable and durable. There are swing type, inward tilt type, top suspension type, push-pull type, flat opening and inward tilting and compound type, etc.

The outstanding advantages of the aluminum alloy doors and windows of the heat-insulated bridge are high strength, good thermal insulation, good rigidity, good fire resistance, large lighting area, good atmospheric corrosion resistance, high comprehensive performance, long service life and good decorative effect. High-grade Thermal break profiles aluminum alloy doors and windows, is the first choice for high-end building windows.
Morn work with China reputable aluminium profiles manufacturer-Huajian, we supply all kinds of aluminium alloy profiles, thermal break aluminium profiles and system windows & door, welcome contact us for more info.

Tags: aluminium Door and window, aluminium profile supplier, aluminum alloy, insulated glass, Thermal break aluminium profile, thermal break aluminium windows, thermal break aluminum doors and windows, windows airtight, windows watertight

About Morn Building Materials:
Morn Building Materials Co., Ltd is trading company offering the right facade materials for a wide range of applications for architectural, design and system requirements. Cooperating with China premium glass fabricators, Morn is able to supply whatever glass products applied in facade, Spandrel, roof, handrail, partition, balustrade, canopy, greenhouse, sun room, interior exterior application.

Other facade materials: Aluminium alloy profiles, aluminium plates, aluminium windows & doors, Assa Abloy hardware, spider fitting, railing systems, shower rooms, polyurethane panels, machines & tools, steel structure, are also available since 2019. From aesthetics, to strict environmental and energy specifications, to critical budget and delivery requirements, our input can make a difference.

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