

SPECIFICATIONS & PERFORMANCE OF THERMAL BREAK ALUMINUM DOORS & WINDOWS

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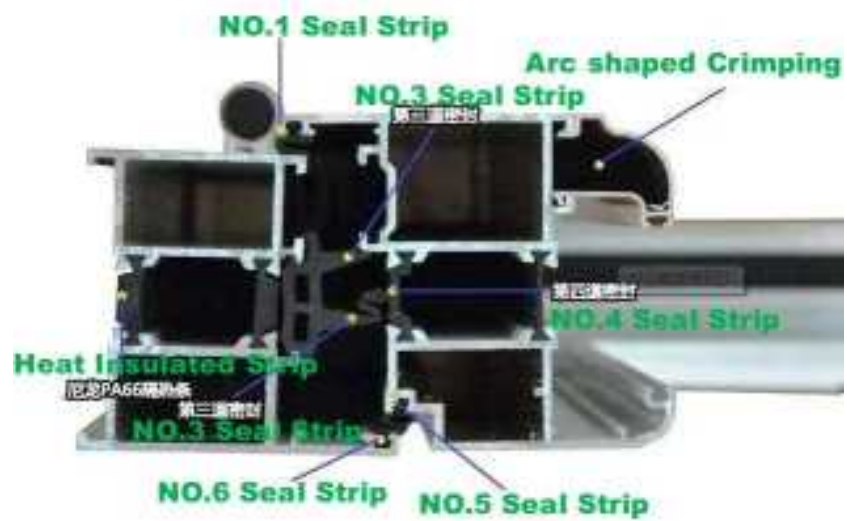
◆ Description

Thermal break aluminum doors and windows are made of insulated broken bridge aluminum profiles and insulated tempered glass, which have functions such as energy saving, sound insulation, noise prevention, dust prevention, and waterproofing. The thermal conductivity coefficient K value is below $3W/m^2 \cdot K$, which reduces heat loss by half compared to ordinary doors and windows, reduces heating costs by about 30%, and has a sound insulation level of over 29 decibels. The water and air tightness are good, both meeting the national A1 class window standard.

◆ Main Materials & Structures

Insulated bridge aluminum profile and tempered glass, etc





◆ Products



◆ 188 Serial Three Rail Heavy Type Door

— 钰尔重型门产品 —

188系列三轨重型门
188 Serial Three-rails Heavy Type
高低式轨道设计
Yue & Bottom Rail

可选颜色 (含半哑色效果, 以实物为准)
Optional Color
黑框黑玻 黑框黑晶 黑框白玻

采用8003-T5两主副
型材厚度: 2.0mm
Aluminum Profile Thickness: 2.0mm

轨道三式之内部制链器
Steel Strip

玻璃厚度: 5mm/20A/5mm
Tempered Glass: 5mm/20A/5mm

3面光面材料可选

3面下盖轨道可选

可选光企 (附每3款光企, 可满足不同需求)

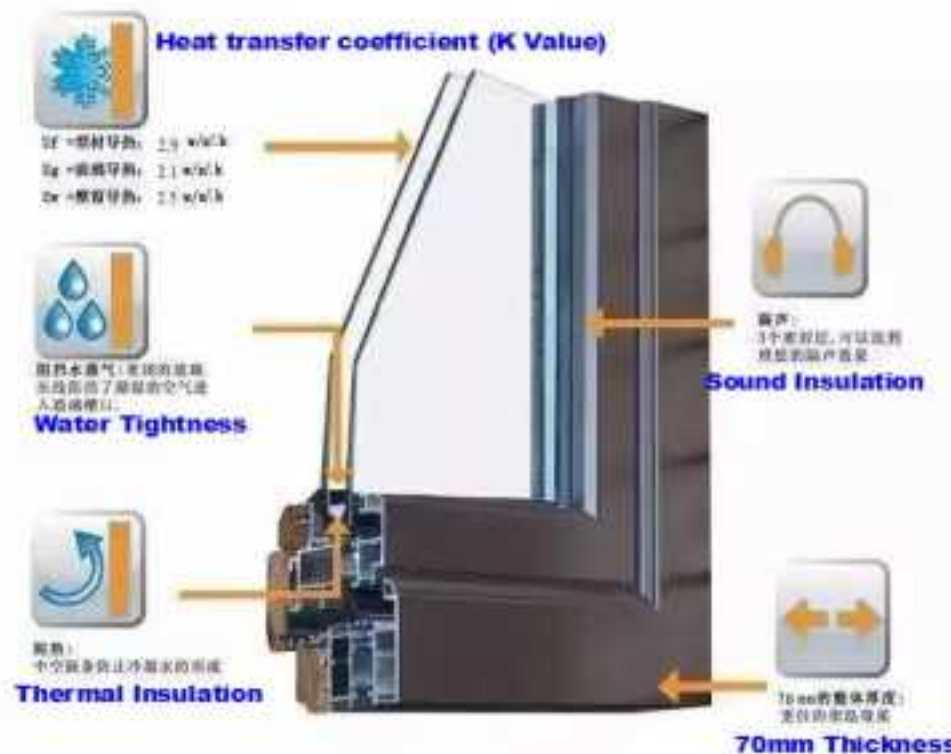
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可选下滑 (共有5款下滑轨道, 产品规格齐全, 可供任意选择)

吊钩轨道 吊钩轨道 吊钩轨道 吊钩 不透明及轮轴




Performance Parameters



◆ Heat transfer coefficient (K value):

This is an important indicator for measuring the thermal insulation performance of doors and windows, which represents the amount of heat transferred per unit area per unit time under stable heat transfer conditions when the temperature difference between the air on both sides of the external doors and windows is 1K. The lower the K value, the stronger the insulation ability of doors and windows, and the better the insulation performance. The K value of broken bridge aluminum doors and windows is usually below $3W/m^2 \cdot K$, which reduces heat loss by half compared to ordinary doors and windows, thereby reducing heating costs.

◆ Water tightness:

Water tightness refers to the ability of doors and windows to prevent rainwater leakage under the combined action of wind and rain. The higher the water tightness level, the stronger the waterproof performance. The water tightness of broken bridge aluminum doors and windows usually meets the national A1 class window standard and has good waterproof performance.

◆ **Sound insulation:**

Sound insulation is an indicator of the sound insulation performance of doors and windows, usually expressed in decibels (dB). The higher the sound insulation, the better the sound insulation effect of doors and windows. The sound insulation of broken bridge aluminum doors and windows is usually above 29 decibels, which can effectively reduce noise.

◆ **Airtightness:**

Airtightness refers to the ability of doors and windows to prevent air infiltration when in a normally closed state. The higher the airtightness level, the smaller the heat loss and the better the airtightness. The air tightness of broken bridge aluminum doors and windows usually reaches level 8, with good air tightness.

◆ **Wind resistance:**

Wind resistance refers to the stability of doors and windows under strong winds. The wind resistance of broken bridge aluminum doors and windows usually reaches level 8 or above, with strong wind resistance ability.

◆ **Anti theft capability:**

Anti theft refers to the performance of doors and windows in terms of resistance to prying, shearing, and hammering. The anti-theft performance of broken bridge aluminum doors and windows is usually required to reach level B or above, with high safety.

◆ **Durability:**

Durability refers to the service life of doors and windows, generally requiring a minimum of 20 years. The durability of broken bridge aluminum doors and windows depends on the quality and manufacturing process of materials such as profiles, glass, and hardware.