

Dai Chen Swing Mode Watertight Gate

The material is #304 stainless steel and this material is weather resistance. The thickness is up to 6mm and $\phi 25$ stainless steel axle center. Fix this product on the wall by M16 chemical bolt and insert it into the wall about 15cm. The gap of frame and wall shall be filled up with silicone.

The thickness of panel is 3mm with stainless steel strengthening frame. The connection between panel and outer frame is inserted with the EPDM seal. The scientific name of EPDM is Ethylene Propylene Diene Monomer. This material is widely used in the car doors. For example, our cars withstand the rain, the sun light and the wind for one or two decades. But when we close the car doors during the rainy day, it can still prevent the rain comes inside. The reason is that the seal of car door is made of EPDM. This kind of seal can bear high temperature up to 160°C and resist acid or alkali. It's also weather resistance and can be used more than 10 years.

The handle of gate is well-integrated and perforates the panel. So it can well tighten the flood gate when the gate is closed to make the seal reach the request.

Back support is needed base on the water pressure to strengthen the gate. The calculation of water pressure is base on the width and height of gate. And the back support is tested by MIRDC that 1m span can bear more than 3700Kgf water pressure.

There is a tray for panel on the wall. Push the gate to the location and then insert the plug into the hole to fix the gate. This is to avoid accident which cause by the wind or earthquake.

