

M3 FLOODTEC PRODUCT LAUNCH



Hydro Dynamic Barrier (flip-up)

This underground, low-lying barrier is fully automatic and powered by flood water. Ideal for entrances to underground car parks or other commercial buildings it is highly efficient, safe and unobtrusive.

**100%
Passive
Protection**

LONG TERM EFFECTIVE
SOLUTION

- Requires no human, mechanical or electrical intervention
- Fully Automatic - powered by flood water
- Can be installed from 1m to 8m in length with a height of 500mm to 1200mm
- Surface mounted or embedded options
- Various service grades available



NO PEOPLE. NO POWER

No human, mechanical or electrical intervention required.



MINIMAL MAINTENANCE

Remains virtually maintenance free for over 50 years



BESPOKE SIZE

Designed to your specific requirements up to 8m long.

Further Information

The barrier can be surface mounted (Fig.1) (projection above surface 100mm) or embedded (Fig.2) such that the surface is level with the existing substrate (embedment depth 150mm).

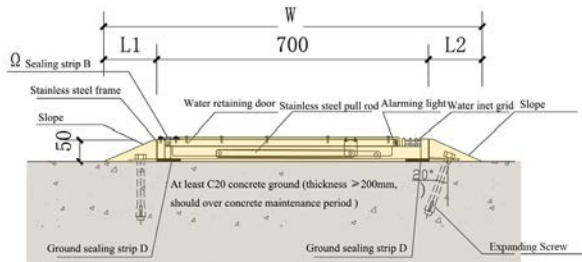


Fig.1 - Surface Installation

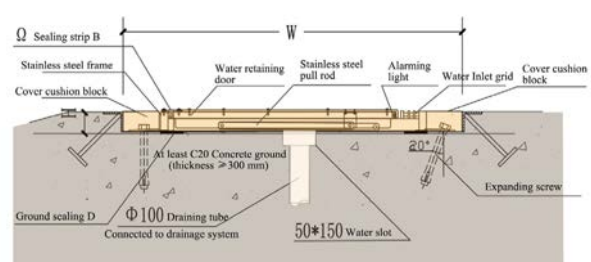


Fig.2 - Embedded Installation

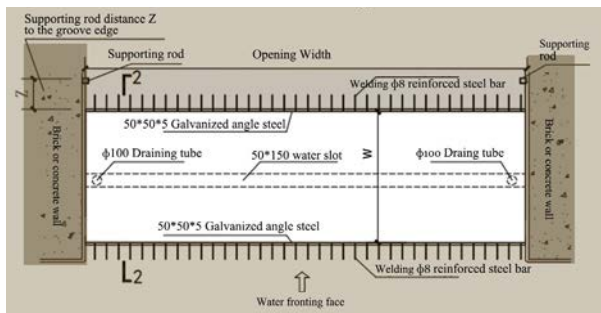


Fig.2a - Embedded Installation Groove 1

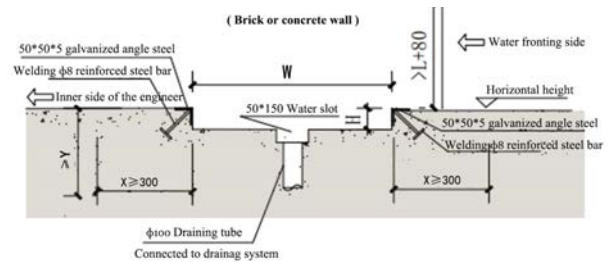
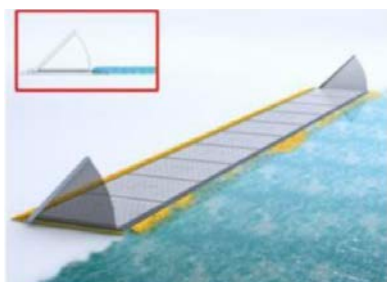
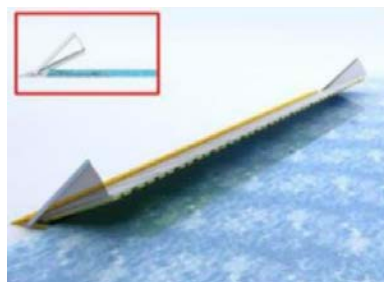


Fig.2b - Embedded Installation Groove 2

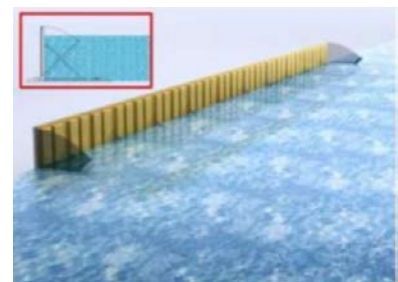
HOW IT WORKS



Flood water enters the barrier through the forward grill filling the void between floor and underside of the barrier face forcing the barrier plate to open.



As this happens the aperture between the grill and the top edge of the barrier plate widens allowing more water to enter the base frame pushing the barrier plate into a vertical position.



The rubber side skirts attached to the side walls prevent water bypassing the barrier into the protected area.

Technical Information

Applications

- Underground car parks
- Shopping centres
- Commercial building entrances
- To surround critical infrastructure
- Underground transport systems

Service Grades

- Pedestrian and light non motorised traffic
- Axle loading to 2 tonnes
- Medium traffic - Axle loading to 10 tonnes
- Heavy Traffic - Axle loading to 45 tonnes

Construction

- **Frame**
Stainless steel construction Grade 316
- **Inlet Grid**
Stainless Steel Grade 316
- **Retention Bar**
Stainless Steel Grade 316
- **Sealing Strip**
EPDM 0.6 density sponge compound
(peroxide cured)
- **Barrier Board**
HDPE Composite and Stainless steel matrix
- **Surface Finish**
Various: can be textured to meet requirements