



The Self Activating Flood Barrier's success can be attributed to its' simple yet ingenious approach to flood defence, using the advancing floodwaters to automatically raise the barrier; effectively using the problem to create a highly effective solution.

SAFB

OVERVIEW

- Passive, long term, cost effective solution
- Can be installed to any length, with post breaks every 12 metres
- Invisible when closed, allowing for normal traffic flow and uninterrupted views
- Whilst in its resting position, all operational parts of the barrier are invisibly concealed in the underground basin, sheltering seals from the elements
- Low maintenance and minimal ongoing operational costs
- Not subject to vandalism
- The SAFB has an option for a secondary 'Duty Assist Mode' (DAM) deployment

APPLICATIONS

- Along a waterway, river or coastal terrain
- Within flood walls
- To surround a building
- To protect underground carparks
- In a roadway
- To surround critical infrastructure

SEALS

- The seals are protected underground and therefore are not subject to UV degradation or human interference



NO PEOPLE, NO POWER

No human, mechanical or electrical intervention



LONG LIFE

Designed to last in excess of 50 years



HIGH WATER LEVELS

Barrier height up to 2.5m, and installed to any length



FULL PROTECTION

Offers full aperture protection to commercial and residential communities



MINIMAL MAINTENANCE

Has minimal maintenance for many years



INVISIBLE

In resting position, barrier is invisible and self-protected



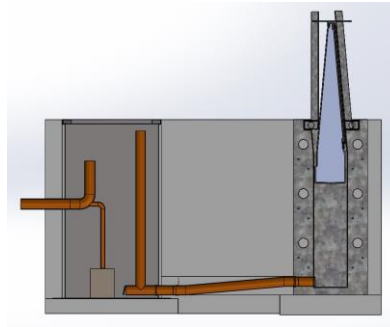
TELEMETRY

Can be linked to telemetry system for remote monitoring and control

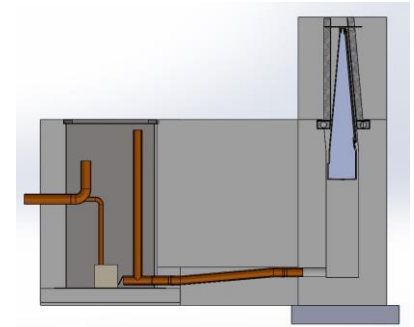
CONSTRUCTION

- There are two types of basin available –

- **Steel basins** come in lengths up to 8m, with a maximum protection height of 2.5m. Basin & floating wall comes as a complete cassette; simple and easy install
- **Concrete basins** are used for lengths over 8m. Lengths can be tailored to clients' requirements with a post break every 12m



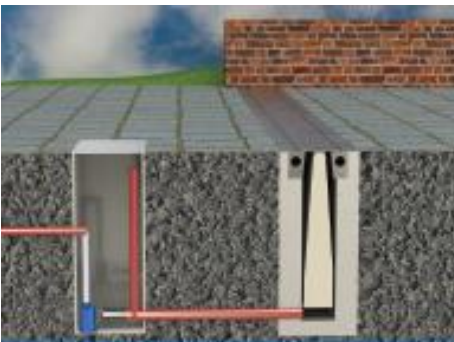
Steel Basin



Concrete Basin

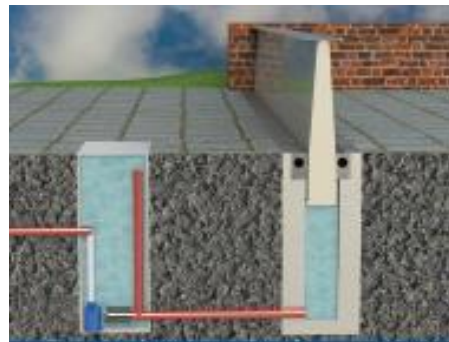
- The floating wall consists of a closed cell styrofoam core, with a fibreglass or GRP outer layer
- The support blocks vary between concrete, GRP and steel basins to enable fabrication and assembly in the most cost effective manner
- Telemetry: The barrier can be linked to a Building Management System (BMS) with alarms, emails, texts, sensors, lights etc.
- The barrier lid is tailored to suit requirements dependent on the level of traffic that travels over the SAFB while in resting position

HOW IT WORKS



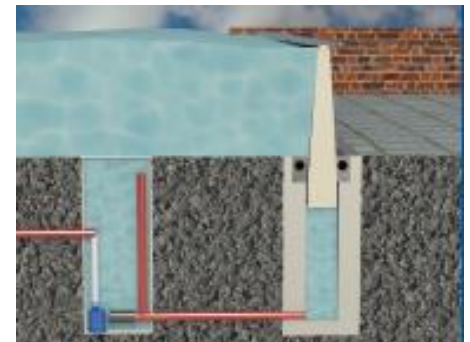
Resting Position

In non-flood conditions, all operational parts of the barrier are concealed in the underground basin



Deploying

When floodwater rises to within a predetermined level below flood level, the basin housing the floating wall starts to fill up through an inlet pipe from the adjacent service pit



Fully Deployed

The flood wall floats and rises. When the basin is totally filled, the angled support block will lock the barrier into position making it watertight

