

SCFD - Self closing flood door



INTRODUCTION

The Self Closing Flood Door uses the power of weather to activate the flood defence barrier to provide an innovative and cost effective solution, serving and protecting strategic urban and commercial areas. The Self Closing Flood Door has been developed to protect doors, double doors and small gates against floods.

The SCFD is a lighter version of the industrial SCFB (Self-Closing Flood Barrier) and is the best alternative when looking for a reliable, efficient and cost-effective solution when a permanent flood barrier is not possible or desired.

- No energy source or sensors required
- No human intervention
- Minimal maintenance
- Can be driven over
- Autonomous operation

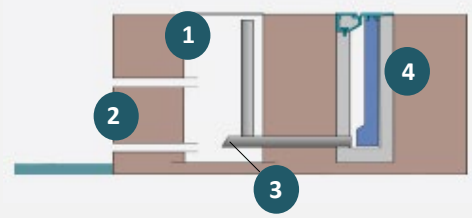




LOWERED

All components are hidden below the surface. The activation basin (1) will follow the tides through inlet pipes connected to the waterway (2).

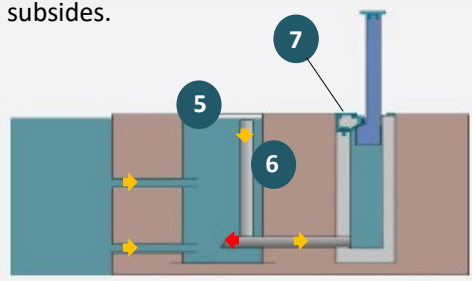
A one-way-check valve (3) prevents the basin containing the floating wall (4) from filling up with water.



ACTIVATED

When the water reaches critical level (5) the basin containing the flood wall (4) will fill up through an inlet pipe (6) connected with the activation basin. The flood wall will rise. Once raised a support block (7) will lock the barrier into position making it watertight.

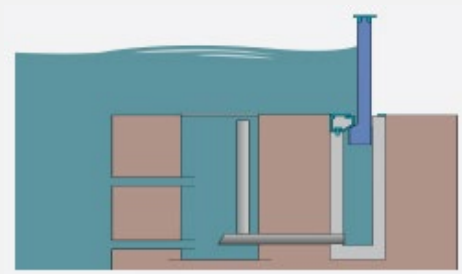
The barrier is raised before the floodwater crosses the quay and will remain in place until the water subsides.



RAISED

The floodwater can continue to rise without flooding the protected area.

When the water level subsides the barrier will simultaneously lower itself back to its resting position. When lowered the top of the barrier seals to prevent inflow of waste or debris.



MEASURES



WIDTH : 1 meter upto 6 meter

HEIGHT : 0,30 meter upto 0,90 meter



Alexandria (Australia)



Spakenburg (NL)

OPTIONS

- Rails set-up in the wall
- Powder coating all RAL colours
- Water sensor with alert system (SMS central)



ACTIVATION SCFD 4000 x 600 mm - Paulatem (B)



BASSIN TYPES

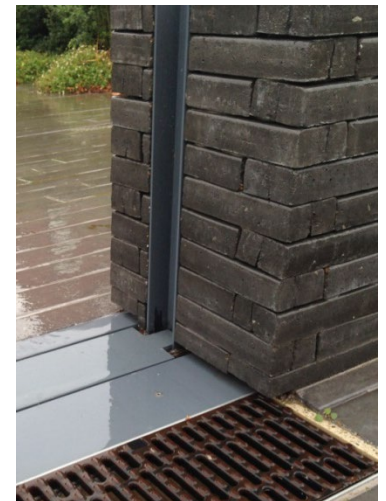
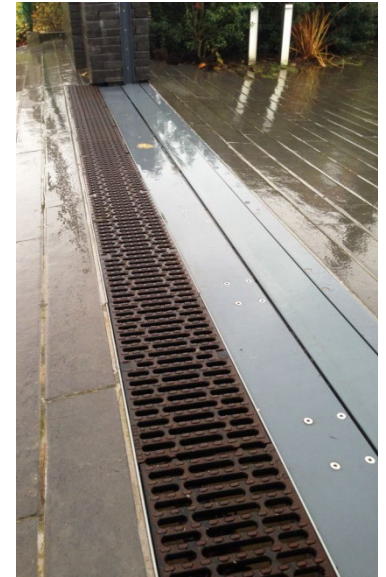
I. HD-PE bassin steel ribs



II. Prefab concrete bassin



INSTALLATION SCFD (CONCRETE BASSIN)



CASE STUDIES



Freuchi Mill (Schotland)



Amsterdam (NL)



Boulder, Colorado (USA)



Grimbergen (BE)



St-Pieters-Leeuw (BE)



Spakenburg (NL)



Oostende (BE)



Paulatem (BE)



Knokke (BE)



Kortenberg (BE)





PROTECTION AGAINST FLOODING



**AUTONOMOUS OPERATION
NO ENERGY SOURCE OR HUMAN INTERVENTION**



CAN BE DRIVEN OVER



LOW MAINTENANCE