



Scfb

Self Closing Flood Barrier

www.selfclosingfloodbarrier.com



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Self Closing Flood Barrier

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SETTING NEW STANDARDS
IN WATER MANAGEMENT

The Self closing flood barrier SCFB, a unique effective flood defense system to protect people and property from inland waterway floods caused by heavy rainfall, gales or rising water levels. The barrier systems have proved to be the best flood protection and has already been built and installed in several countries around the globe



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SELF CLOSING FLOOD BARRIER

Rapid onset flooding usually causes the greatest damage due to the lack of time to deploy the more traditional type of manually operated floodgates and "demountable" systems, typically stored off site, and requiring human intervention. The SCFB overcomes all the issues associated with these older-generation flood defenses and has the considerable advantage of not requiring any intervention during a flood warning, which would otherwise put lives at risk.



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SELF CLOSING FLOOD BARRIER

In operational use globally since 1998, the SCFB is acclaimed as the world's most effective flood protection system.

The success can be attributed to the simple, but ingenious concept of using the approaching floodwaters to automatically raise the barrier; effectively using the problem to create the solution. With an unblemished 100% track record the SCFB is a highly favorable preference when specifying optimal and cost effective but passive flood defense.



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DUTCH

DESIGN TO FIT

The SCFB is build and designed by Hyflo BV in the Netherlands. The barriers can be built in any required length whith a basin from PE-HD, concrete, steel or stainless steel. Depending on the requested length and location, Hyflo can advice what the best option is for the specific location.

A



B



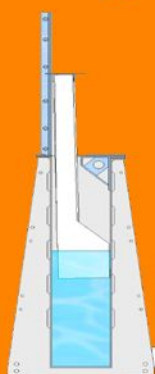
C



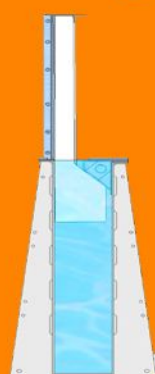
A



B



C



Flood Protection

1

24/7

2

No Man Power

3

Short Closing Time

4

No warning System

5

No Storage

6

No Operational Cost

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Private property protection

The SCFD is a smaller version from the SCFB™ and is intended to protect small gates and private property against floods. The working principle is very similar to that of the larger SCFB™ but in a reduced scale.



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Scfb steel basin

Secondary flood protection

The steel basin are delivered complete with wall, supports blocks, lids seals and guide rail and is therefor easy to install. The basin undergone a thermal spraying and a coating for a longer life time and for the sustainability of the product can also be build in stainless steel. The steel basin are delivered complete with wall, supports blocks, lids seals and guide rail and is therefor easy to install. The basin undergone a thermal spraying and a coating for a longer life time and for the sustainability of the product can also be build in stainless steel.



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Scfb Concrete basin

Primary flood protection

The concrete basin as it can be precast or cast-insitu to any length to suit the floating wall increments. The concrete basin can be built on site or at location so no heavy transport is necessary.



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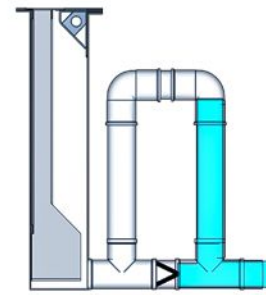
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Activation with inspection pit

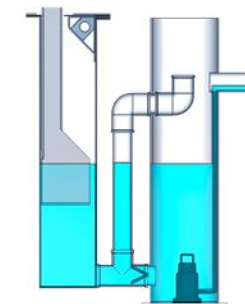
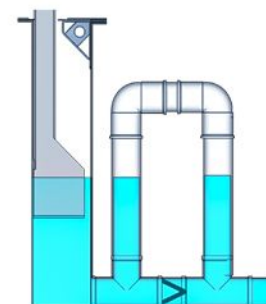
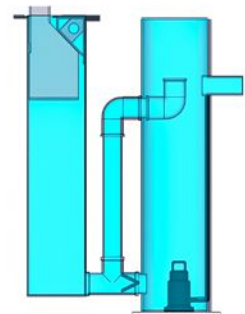
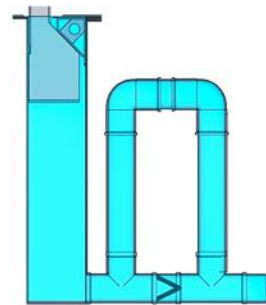
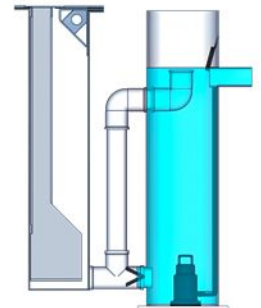
The filling pipe or service pit has a check-valve that prevents the flood water going to the barrier at this point. This prevents the barrier from coming up early and will rise the wall in a short time in the end position.

When the water surface is coming above the filling pipe the basin of the barrier starts to fill up and the barrier comes up and closes the floating wall against the rubbers. When the water recedes the water from the barrier is flows back through the check-valve and the barrier is sinking back to its resting position when the drain water level is higher than the bottom of the pit a pump is used to pump the water out.

Filling pipe



Service pit



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