



500mm Flood Defence Barrier

Specification Sheet
FLS180000

26/01/26

safesite[®]
F A C I L I T I E S



500mm Flood Defence Barrier

The 500mm high Flood Defence Barrier is a robust and effective flood defence system. The barrier can be assembled to any length and arranged to suit any direction. It is often used by construction companies or utilities to protect assets from flood risk.

When in use the majority of the modular units actually fill with the rising flood waters, which combined with the weighted universal keys ensures the assembled flood barrier holds back flood waters. All units and keys incorporate hard-wearing gaskets to ensure sealing. For acute cornering or wall connection in a flood defence barrier assembly a Multi-hub unit is simply used.

The beauty of this patented flood prevention system is that no bolting to the ground is required. It also means that when the flood waters recede, the pods empty themselves and become light enough to be carried away. They are also a much more cost effective and reliable alternative to flood sandbags.



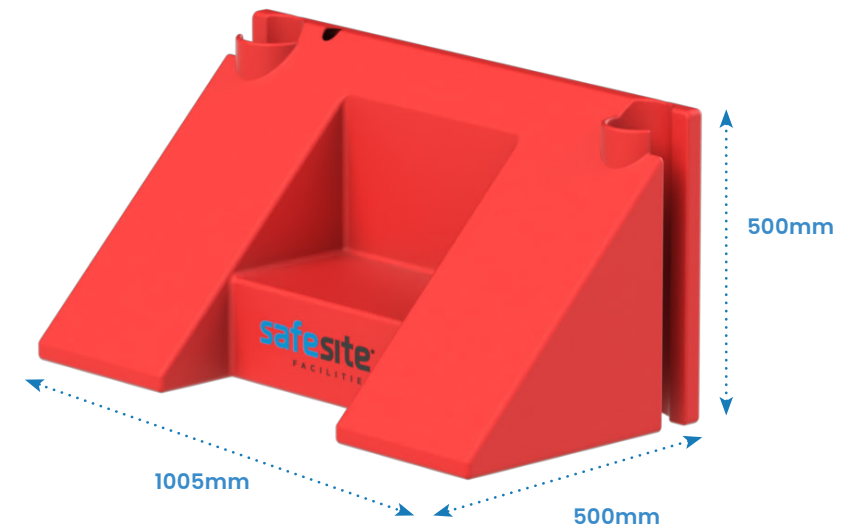
Flood Defence Barriers in situ



Flood Defence Barriers Containing Flooding

Key Features

- Self-filling holes fill with rising water
- Connectible for any length required
- Not affected by strong winds when deployed
- Multi-hub end units for rotation & cornering
- Self-balancing with no bolting required



Description	Size (mm)	Weight (kg)	Filled Weight (kg)
FLS180000 – Flood Defence Barrier 500mm	H500 x W1005 x D500	10	117
FLS180020 – Flood Defence Barrier 500mm Multi Hub	H500 x W593 x D328	5	65
FLS180100 – Flood Defence Barrier 500mm Joining Key	H580 x W333 x D130	13-18	-
FLS150115 – Flood Defence Barrier Joining Key Handle	H120 x W210 x D60	0.2	-



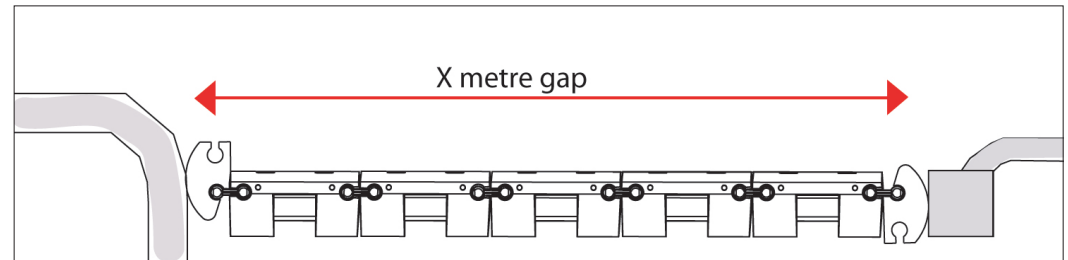
500mm Flood Defence Barrier

Flood insurance is becoming increasingly difficult to obtain, and most home and business owners are aware that they must take responsibility for protecting their properties from the risk of flooding with flood defence barriers.

Benefits of Flood Barriers:

- Self-filling holes fill with rising water
- Connectible for any length required
- Can be assembled by one person
- Not affected by strong winds when deployed
- Multi-hub end units for rotation & corning
- More cost effective and versatile flood protection than sandbags
- Units nest into each other for easy storage
- Self-balancing with no bolting required
- Recyclable and reusable
- Can be used as leverage to gain flood insurance

Flood Barrier 500mm CAD Diagram



Flood Defence Barriers in situ



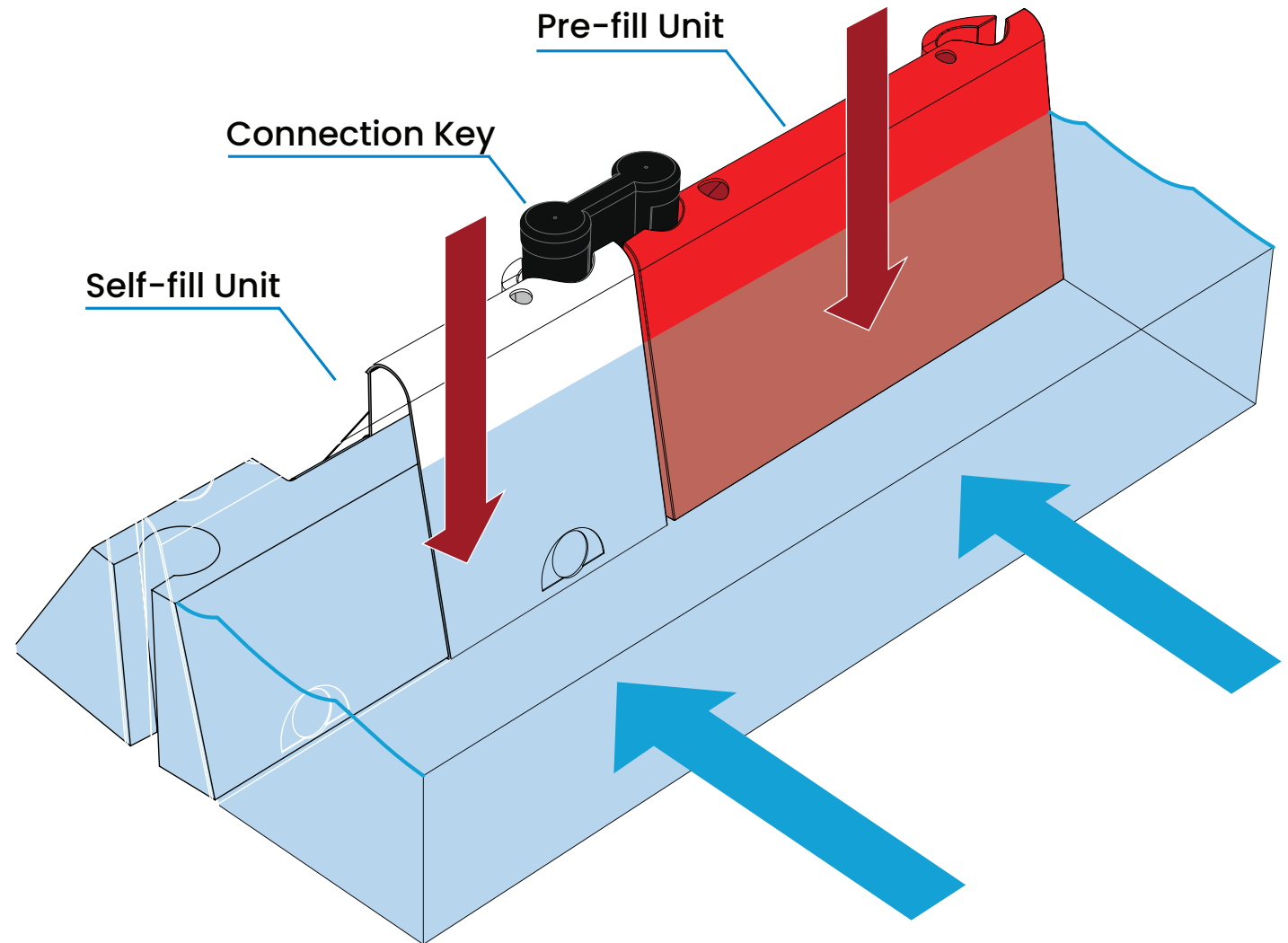
Multi Hubs Cornering Off wall



Technical Details

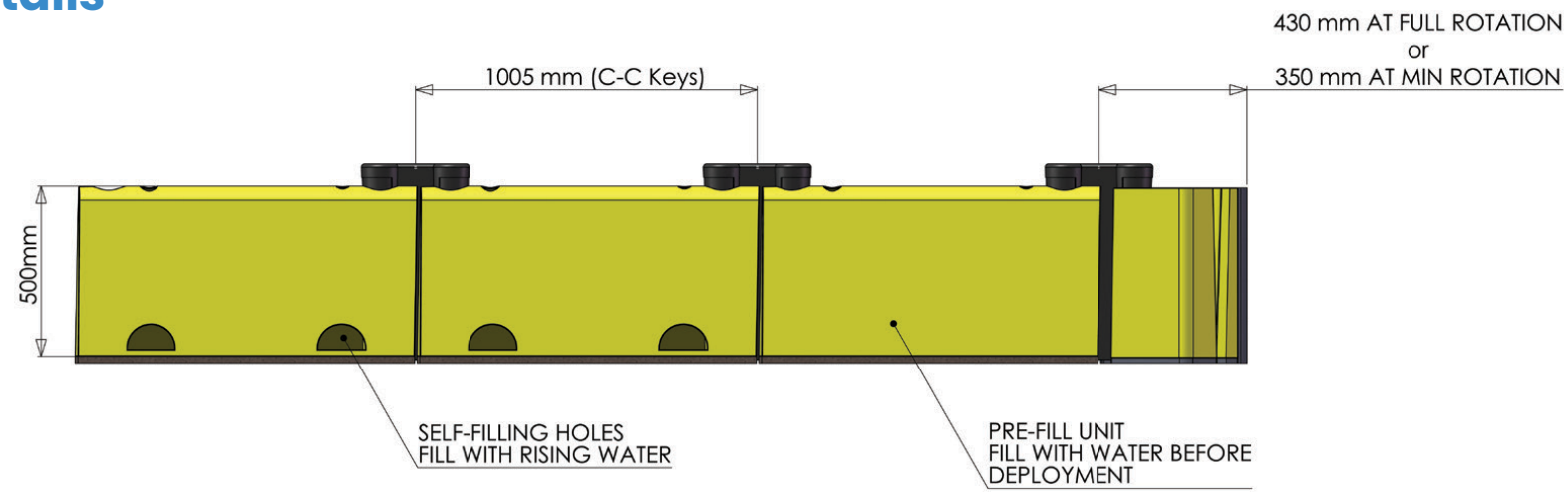
Assemblies are built from modular units that lock together using connection keys. Multi-hubs can be incorporated to create sharp angles or anchor the system to walls. The pre-filled units act as ballast, keeping the structure firmly in place.

Thanks to its modular design, the flood-barrier system can be arranged in many different configurations. Each piece includes a gasket seal to minimize seepage. The self-filling units automatically take on floodwater during an event and empty themselves as the water recedes, leaving them light and easy to move.

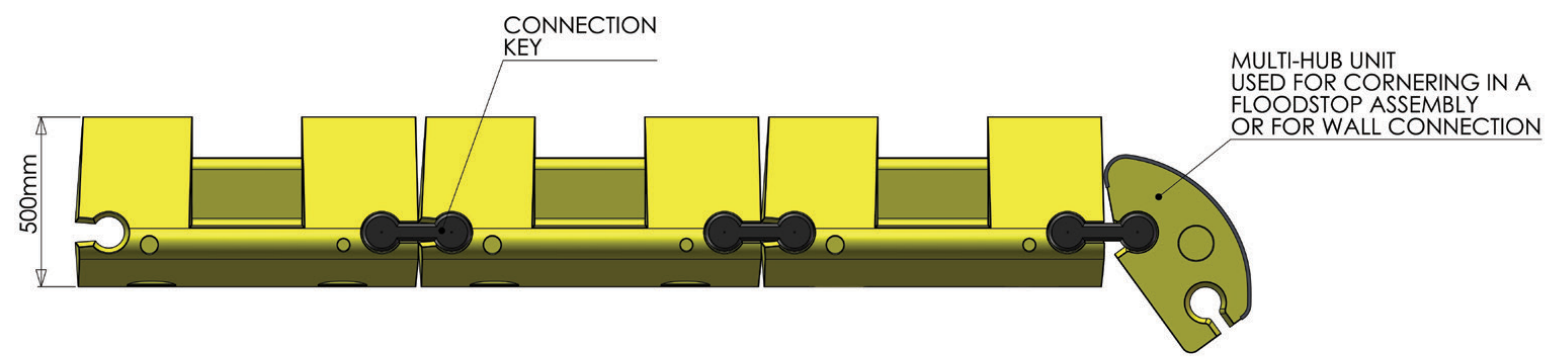




Technical Details



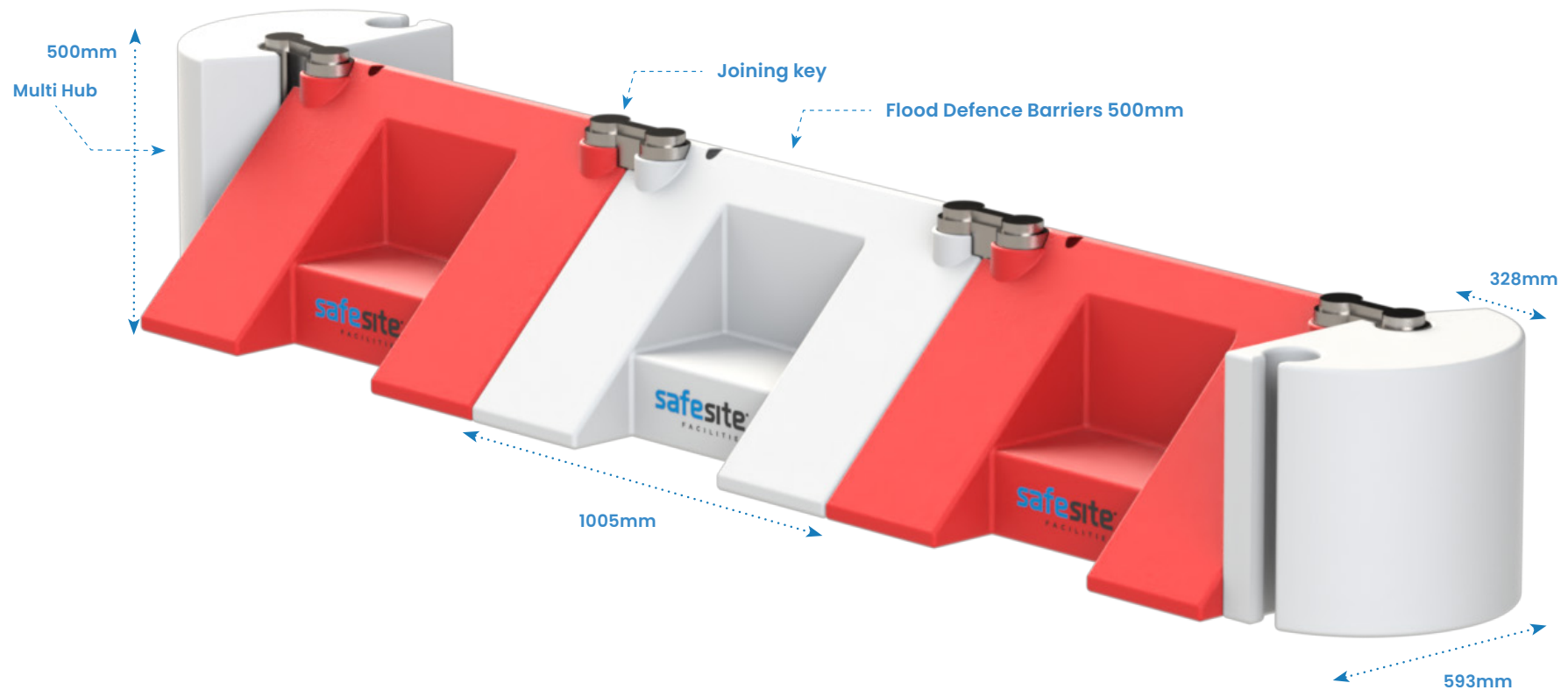
SIDE VIEW



TOP VIEW



Technical Details





Technical Details

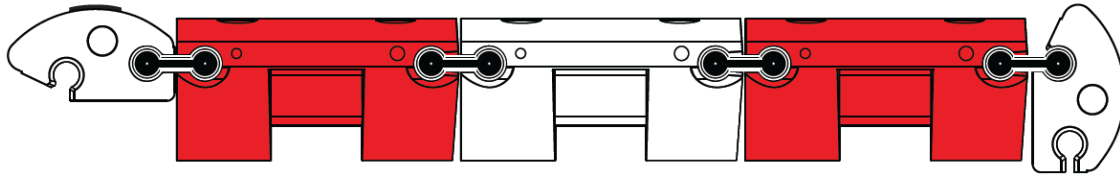


Figure A. FloodStop 0.5m Wall to Wall Assembly

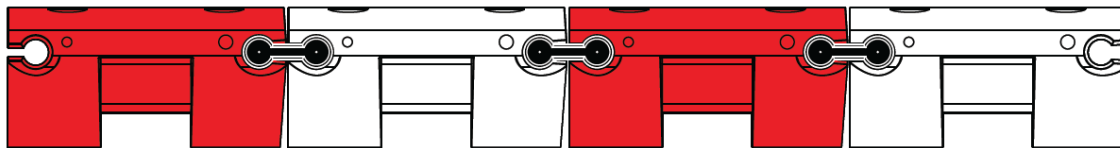


Figure B. FloodStop 0.5m Diverter Assembly

Wall to Wall

A barrier that connects between two walls, typically used for doorways, entrances, or other openings. See Figure A for a top-down example.

Diverter

A straight or curved arrangement of flood barriers designed to redirect or deflect flowing water. It can also be attached to a wall. See Figure B for a top-down example.

Connection Key Calculation

500mm Flood Defence

Add together all Pre-fill, Self-fill, and Multi-hub units, then subtract one to determine the number of Connection Keys required.

Example: Figure A uses 4 Connection Keys; Figure B uses 3 Connection Keys.

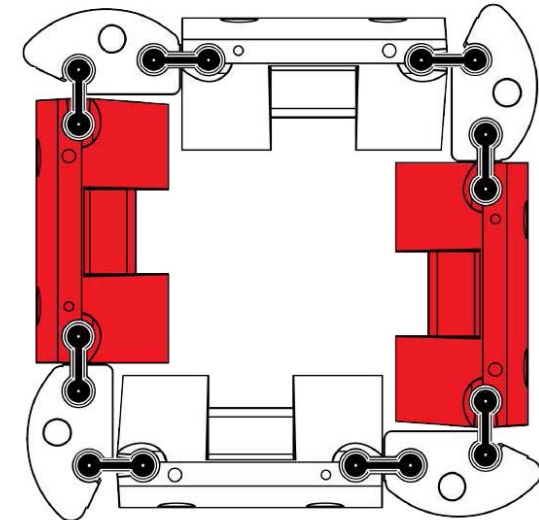


Figure C. FloodStop 0.5m Perimeter Assembly

Perimeter

A barrier configuration that completely encloses an area, building, or asset. All units interlock to contain water—either keeping it out or holding it in. See Figure C for a top-down example.

Connection Key Calculation

500mm Flood Defence

Add together all Pre-fill, Self-fill, and Multi-hub units to determine the total number of Connection Keys required. Example: Figure C uses 8 Connection Keys.



Installation parts

Flood Defence Barrier 500mm

Standard part

1 **500mm Multi Hub**
FLS180020



Size (mm)	Weight (kg)
H500 x W593 x D328	5

Standard part

2 **Joining Key**
FLS180100



Size (mm)	Weight (kg)
H580 x W333 x D130	13-18

Standard part

3 **Key Handle**
FLS80115



Size (mm)	Weight (kg)
H120 x W210 x D60	0.2