

FLOODSTOP 0.9M HIGH ASSEMBLY INSTRUCTIONS (AUG 2024)

Online details, including assembly videos, can be viewed at <https://www.fluvial-innovations.co.uk/0-9m-high-flood-stop-barrier/>. Please read the following instructions carefully before assembling and storing your FloodStop 0.9m system.

PREPARATION

Inspect ground conditions and clear any debris. Due to health and safety lifting standards, FloodStop 0.9m requires two or more people to assemble a barrier. Position modular units out in a linear position for the chosen barrier length. Do not apply curvature until the barrier is fully assembled. Ensure that all self filling holes are able to fill with the rising water if a flood does occur. In a standard configuration - every second modular unit in an assembly should be a 'pre-fill' unit type. Any modular unit without holes cut out on the front face must be pre-filled with water ballast before use.



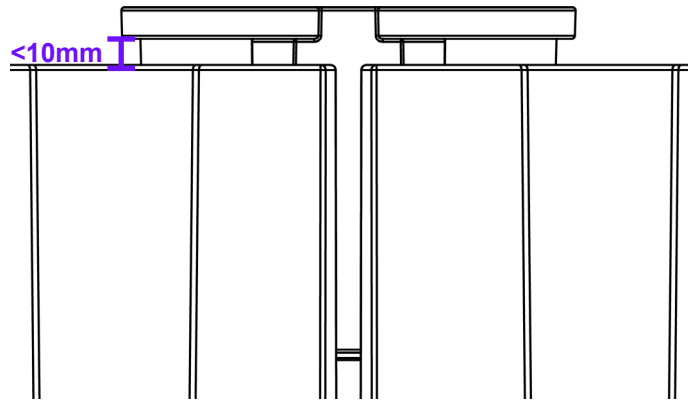
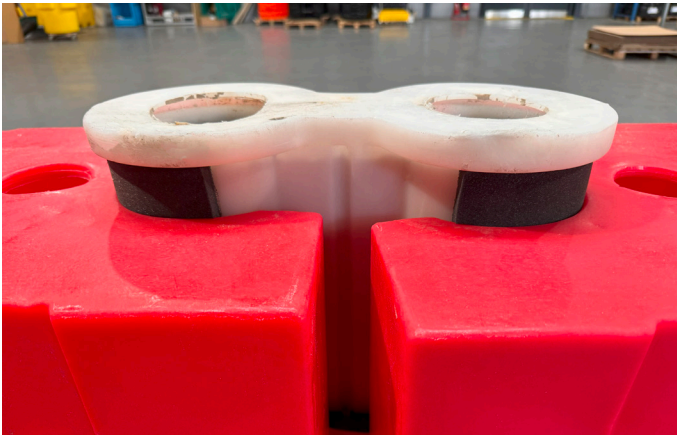
Each modular unit requires two components for connection - one 'lower key' and one 'upper key'. Both key components require two people for handling - one hook for per person, per key. First insert the 'lower key'. Some force will be required, the simplest method is to use a sledgehammer to lightly tap the 'lower key' into position. Once the 'lower key' is fully inserted, insert the 'upper key'. Please ensure the 'upper key' is fully pushed down to ensure the 'lower key' base is in firm contact with the ground.



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To ensure the 'upper key' is fully inserted please ensure the gap between the top of the FloodStop 0.9m modular unit and the bottom surface of the top lip of the 'upper key' is below 10mm.



Examples of assembling the connection keys can be seen in the following links:

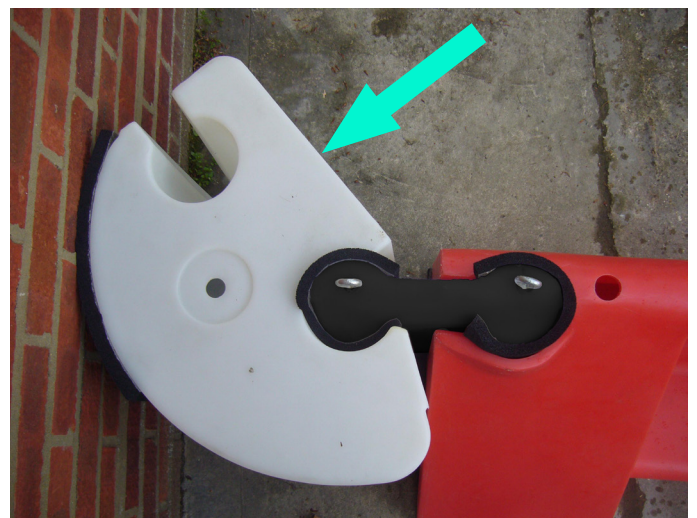
<https://www.youtube.com/watch?v=t-zJruZ9XA8>

<https://www.youtube.com/watch?v=3pkzr70LpoA>

To create a connection with an in situ object such as a wall - the 'Multi-hub' unit should be employed. Simply connect the unit to the end of the assembled FloodStop barrier:

1. Rotate the 'Multi-hub' unit into the wall, ensuring the vertical foam gasket is placed under firm pressure*.
2. Fill the 'Multi-hub' unit with water, securing it in position.
3. If the flood water flow is expected to be significantly high, a wedge can be used to fix the rotation of the 'Multi-hub'.

**Please ensure side gasket is pre-applied to the side of the 'Multi-hub' if being used for wall connection.*



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DISASSEMBLY INSTRUCTIONS (AUG 2024)

- Remove all 'upper keys' and 'lower keys' - see specific details below*.
- Unscrew water-release caps from 'pre-fill' units and tip units over carefully.
- Re-screw water-release caps and pack system away.



*When removing the 'upper' and 'lower keys' for disbandment - for assistance we recommend you use the supplied 'lower key handle' to remove both keys with ease. Two people are required for disbanding the 0.9 FloodStop system. First, fit a 'lower key handle' through the hole on each side of the top surface of the key and lift - two people required. Then remove the 'lower key' by fitting a 'lower key handle' into the side and upper surface of the 'lower key' via the two holes. The lever can then be used to slowly pull out the key component. For assistance, you can use a lever with the handle to remove with ease. Example: <https://www.youtube.com/watch?v=9oARqqALyPE>

PACKING/STORING GUIDELINES

If your FloodStop barrier is not left deployed when not in use, we advise that the system be covered well and stored indoors. If the 'connection key' components are being stacked, please place thick cardboard between each layer to prevent gasket damage. This keeps your system in good quality, removes prying hands and keeps debris away. You and your team can then be confident that when the barrier is deployed in action everything will be as it should be.

NOTES

- If the wall or ground surface is not adequately flat (i.e. where FloodStop's foam gaskets are not in contact) the seepage rate may vary - it is recommended to have a small pump on hand to pump away excess leakage if required. The system is not recommended for use on gravel or polished surfaces.
- The top surface of the FloodStop 0.9m units can be used to apply further ballast - such as sandbags.
- Depending on how the system has been assembled (terrain/number of 'pre-fill' units/velocity of water) when the flood waters reach approx. 78-80% of the flood barrier height, negative buoyancy will start to begin. This may cause the system to slide. There are two ways to assist in countering this:
 - Locating individual 'pre-filled' (with water) FloodStop units behind the barrier at a spacing of approximately every 3-4 meters.
 - Applying more ballast (such as sandbags and sand) on/in the system.

