

New anti-flood measures

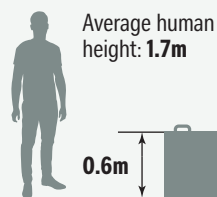
National water agency PUB will be rolling out two new kinds of barriers to help prevent flooding and minimise the damage floodwaters can do.

DAM EASY FLOOD PANEL (DFP) FOR HOMES

An extendable panel with an inflatable seal that provides temporary flood protection

Each DFP is **0.6m high** and weighs about **20kg**

The panel is reusable and adjustable to fit securely within door reveals ranging from **0.78m to 1.1m**

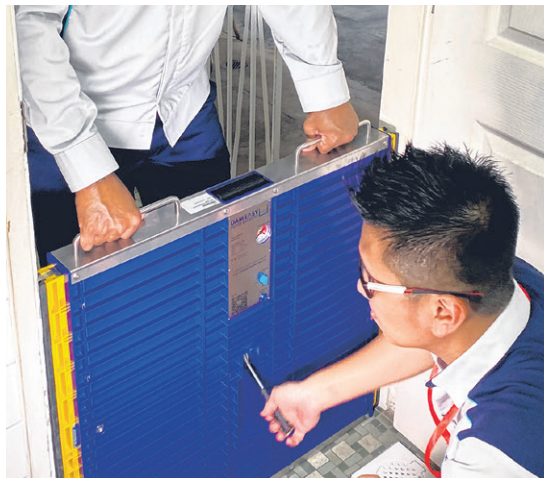


QUICK AND SIMPLE INSTALLATION WITHOUT TOOLS:

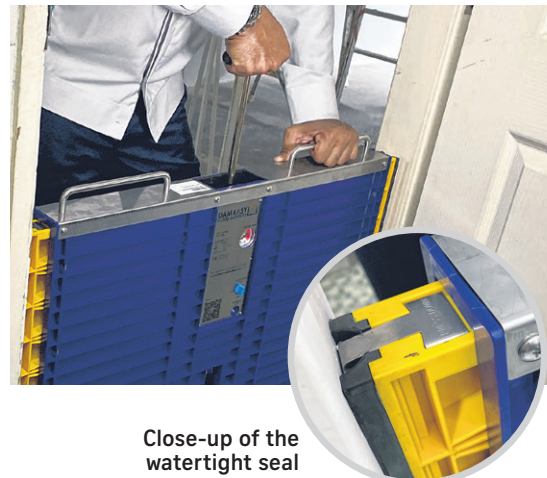
1 The panel is positioned across the doorway



2 A lever is used to extend the side panels until it touches the door frame



3 A pump is then activated to inflate a watertight seal around the panel



Close-up of the watertight seal

PORTABLE FLOOD BARRIER (PFB)



A self-anchoring flood barrier that, when installed, creates a **0.5m-high**

dam which helps divert floodwaters away from an area or contain them

Lightweight and designed for use on firm surfaces such as roads and pavements

Each set of PFB consists of **10 sections**, each weighing about **3.4kg**

No tools are needed for installation and the sections can be stacked up to minimise the storage space needed and for ease of transportation

A complete set of PFB extends about **6m** in length



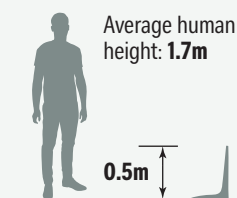
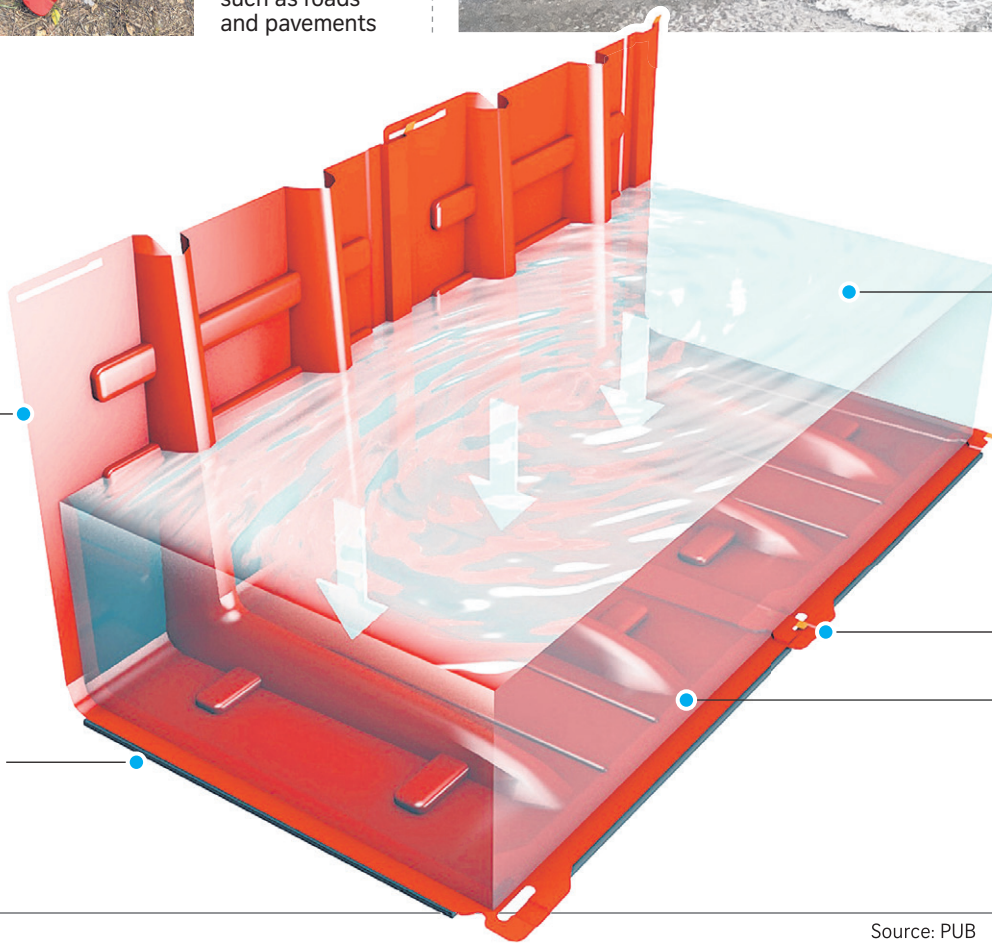
HOW IT WORKS

Damming

The rear wall dams the floodwater. The water's pressure is absorbed by several large bulges, which also act as drainage channels.

Sealing

Below the front edge is a sealing strip made of cellular rubber. This keeps the leakage of water at the bottom to a minimum.



The base section of the boxwall is pressed firmly against the ground by the weight of the floodwater. There is a pair of cellular rubber soles on the underside to provide a strong grip on the road.

The barriers interlock with one another via a locking mechanism

Anchoring

The anchoring force is proportional to the difference in water pressure between the upper and lower side of the boxwall.
A system of drainage channels on the lower side diverts leaking water, so that no counter-pressure arises.