

Flood Barrier Closures

More recent advice received from Hyder (after the report dated 14/03/13) informs us that preliminary calculations indicate a rate of rise of 5 meter per hour for ponding stormwater run-off from small urban catchment. This is considered a rapid rate of rise that will restrict warning time of a pending flood event that would effect access to buildings and evacuation time.

It follows that barrier types requiring assembly of separate components (such as stackable panels) are highly unsuitable as they require personnel trained in deployment as well as an extended time period, initially to retrieve the components from storerooms and subsequently to construct a barrier pre-flood.

The key to the proposal is to install entry and window devices that can be opened and closed:

- within a few minutes of an early warning alarm alert; and
- by a single individual,
- everyday at start and close of business.

This final point is worth emphasising. The speed and ease of deployment of the devices will enable flood protection to be implemented *as part of daily routine* when occupants leave the premises.

To achieve this level of rapid closure it is essential that the devices are permanently located and integrated into the design of the building. It is also essential that the devices be hidden from view so as not to intrude upon the amenity or aesthetics. The other benefit of flood defence devices being permanently installed is that inspection and maintenance of operational hardware and seals can be completed with limited disruption to building function. As all seals are integrated into the devices for ease of replacement, the design performance of system is therefore more readily maintained.

Flood Barrier Types

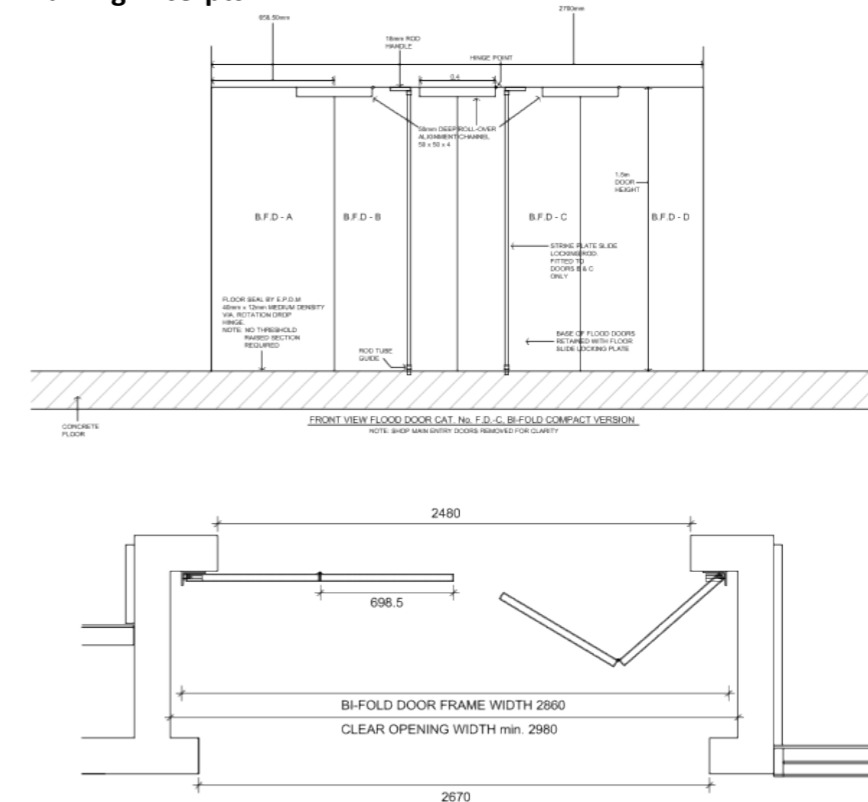
Three types of flood protection devices are proposed for the Haymarket retail tenancies.

Flooding Solutions have designed and manufactured these devices specifically to seal the building apertures formed by typical retail tenancy shopfronts. They are:

1. **Bi-fold hinged floodgates** in front of the shopfront entry door. The weight of the door is offset by a lifting cam plate that pivots the door into the open position. To close, the cam drops the door once the doors reach the fully closed position,

compressing floor threshold and vertical seals. When open, the doors will fold back unobtrusively into recesses within the entry wall.

Design Drawing Excerpts



Installed System Photographs

