



Case Study

Flood Mitigation Measures

Luxury Retail Manufacturer



The Problem

The 4000 sqm Factory belonging to a luxury retail manufacturer is located in the north of England in close proximity to a river. In December 2015 the factory was flooded by the river bursting its banks. This caused not only damage to the property but a significant amount of downtime while the factory was cleaned up. The customer engaged Adler & Allan to come into the factory to survey the flood risks and provide a detailed report on how the property could be better mitigated not only internally but also externally across the whole site to minimise disruption and damage in future flood events.

The Solution

After conducting the site survey, Adler & Allan recommended a number of different measures to mitigate the entire site. These included the installation of:

- JBAR – a patented modular defence system provides containment for water to stop it getting in to critical assets. It can be adapted in length and height and can be easily modified onsite. Adler & Allan proposed to raise the existing drainage channel wall by 600mm to prevent flood water overflowing. This was installed around the edge of the site.
- Spray lining – we used our 100% waterproof polyurea coating to protect the building using a spray application, which would prevent water penetrating through the walls. This provided a waterproof barrier up to 1.8m in height.
- Demountable barriers – these were fitted across the existing doors, as the seals were beginning to degrade and part from the door offering little protection. The demountable barriers will help to prevent water entering the property via doorways and windows.
- Flap valve – Adler & Allan enlarged the existing flap valve to allow a better egress of water.
- Pumps – Sump pumps were installed to assist in removing water from the drainage channel to avoid the channel becoming overwhelmed in a flood event.
- Floodgate – to allow access and to stop flood water getting in

The Outcome

The client now has a flood mitigated site so that when another flood event occurs they are better protected from the River bursting its banks. With the additional flood barriers on the doors of the factory building, it means that business can operate as usual in the event of a flood, which means little downtime and minimised risk of damage to assets will occur, costing the business far less.

