

Derby, on the whole, has escaped severe flooding in recent years but acknowledges that the effects of changing climate and the increasing frequency of flood events means it cannot be complacent.



*This fear of complacency is especially relevant when existing flood defences only offered a low standard of protection, with some coming to the end of their design life.*

In addition, the river Derwent offers great potential for the region, but the lack of a strategic flood alleviation development strategy for the Lower River Derwent area meant that developers were less likely to invest in property or land, limiting economic growth and regeneration.

Derby's Flood Alleviation project – Our City Our River (OCOR) – is a circa £95m

project, led by Derby City Council, in partnership with the Environment Agency (EA) and is designed to protect people, properties and strategic infrastructure, while regenerating key development sites along the riverside in Derby.

Within the delivery of OCOR are the Munio Projects, which are jointly funded by the European Regional

Development Fund (ERDF) and Derby City Council. It includes plans for raising the standard of flood defences to reduce the probability of flooding to an acceptable level, whilst also providing an ideal opportunity to release the economic potential of brownfield sites along the river.

IBS was awarded a £500k+ contract by a Galliford Try and Black & Veatch (GBV) Joint Venture, on behalf of the client, to design, supply, install and in situ test a range of floodgates and glass flood defences.

Sector:  
**Flood**

Location:  
**Derby**

Client:  
**Derby City Council**

Main Contractor:  
**GBV JV (Galliford Try / Black & Veatch JV)**

Product/s:  
**Double leaf mitred and single leaf floodgates, glass flood walls**

Size:  
**Gates up to 10m wide, Glass up to 0.9m high**



Specifically, IBS installed six floodgates, with the largest of these being a double-leaf mitred design at 10m wide and with one half containing a glass top section. In addition, IBS also installed approximately 340m of glass flood wall systems throughout the scheme, in various layouts and sections at typical heights of 600mm and 900mm.

All glass systems include extra clear low iron, dirt resistant glass and all aluminium is anodised to provide a high quality, long lasting, corrosion resistant finish.

IBS provided pre-construction services, including the co-ordination of design works on specific components to enable easy on-site installation, as well as designing all gates and glass systems, which were manufactured at IBS's Head



Quarters in Germany. Products were delivered to site in stages, in order to facilitate the lengthy installation programme, which was undertaken by IBS's specialist sub-contractor. Installation was achieved using a variety of equipment, including core drilling rigs,

mechanical lifting equipment and a glass suction lifter.

Work on Phase 1 of the project commenced in 2015, starting with a number of archaeological digs, and was completed in 2019 to the complete satisfaction of the client.