

# IBS



IBS has been designing, manufacturing and installing the highest quality, engineered flood protection and water control systems for over 25 years.

We operate worldwide in the specialist fields of flood protection, flow control and spill containment.

## COMPANY PROFILE

[www.ibsengineeredproducts.co.uk](http://www.ibsengineeredproducts.co.uk)



IBS Engineered Products Ltd is the UK based subsidiary of IBS Technics GmbH, which is headquartered in Bavaria, Germany.

The IBS Group regards itself as an internationally active, small to medium sized, systems manufacturer. All of IBS' products are characterised by a high degree of engineering and specialisation. Our objective is to position ourselves as the market leader in each of our chosen product areas.

**IBS Engineered Products Ltd,**  
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**T: +44 (0)1302 630015**  
**E: [info@ibsengineeredproducts.co.uk](mailto:info@ibsengineeredproducts.co.uk)**

IBS UK works with a diverse range of clients in a wide range of market sectors; Our clients within the UK and Irish markets include the Environment Agency, utility companies, civil engineering and construction companies, the Canal & Rivers Trust, the OPW, local councils and many more.

We have built an extensive and impressive reference list of successfully completed projects within the UK and Ireland, including working on some of the largest infrastructure projects in our sector. Clients return to us time after time to take advantage of our knowledge and experience on our range of products, most of which are covered in this brochure.

The structure of our business, the standardised products, modular based designs and quality of end product all serve to ensure that we are an international role model and go-to company for your flood protection, flow control and spill containment system requirements.

Excellent customer experience is a top priority and we continue to prove ourselves on projects both small and large, in being a flexible, trustworthy and reliable partner for our clients and end users alike.

So, whether you're looking for the latest penstock technology, or protecting your home, business or community from flooding, we'll use our experience and knowledge to help you find the right solution.



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## FLOOD PROTECTION

IBS is recognised as one of the worldwide leading companies in the provision of demountable flood walls, glass flood defence systems and floodgates. The IBS name is synonymous within the industry for providing high quality products that exceed all expectations when it comes to performance under extreme pressures.



PASSIVE BARRIERS

### PASSIVE BARRIERS

Working with one of our trusted partners, we can offer several types of automatic flood barriers for a range of applications. From vertically rising barriers to 'flip-up' type gates, this range of barriers is perfect for installation across car park entrances, office buildings, commercial and industrial premises, historic centres, along riversides and many more locations.



FLOOD BARRIERS

### GLASS WALLS

Our glass flood defence is the most extensively used system in Europe. Glass is used where permanent flood protection is required but where the visual impact of a traditional flood defence wall is not suitable for surrounding areas. Available in up to 3m panel lengths and heights in excess of 2m, our aluminium framed system is extremely robust. Glass can be self-cleaning and/or low iron and the aluminium can be powder coated to blend in with the local area.



### FLOODGATES

IBS is able to offer clients a variety of single and double leaf floodgates in a range of materials, according to specific project requirements. We have vast experience in designing, manufacturing and installing some of the largest types of floodgates on the market. Glass panels can be incorporated in to floodgates to improve the visual appearance when gates are used in flood defence walls that also contain glass systems.



FLOODGATES



SPILL CONTAINMENT

### SPILL CONTAINMENT

IBS spill retention systems are based on a technology similar to that used within our stoplog and flood barrier systems. They are designed to quickly block and seal off building openings to prevent the release of spillages of contaminated liquids into the local environment. Our spill barriers generally consist of only two components and are designed to be deployed rapidly, either manually or automatically. We'll help you choose the correct configuration and type of barrier to suit your operational requirements and building constraints.

### FLOOD BARRIERS

IBS is the world market leader in mobile flood protection systems. Since 1994, we have gained vast experience in the development and production of such systems, equipping cities with demountable flood walls up to 6m in height. Demountable flood walls and barriers are used in many applications including community flood protection, road and railway closures, industrial and commercial premises and also coastal flood protection schemes.

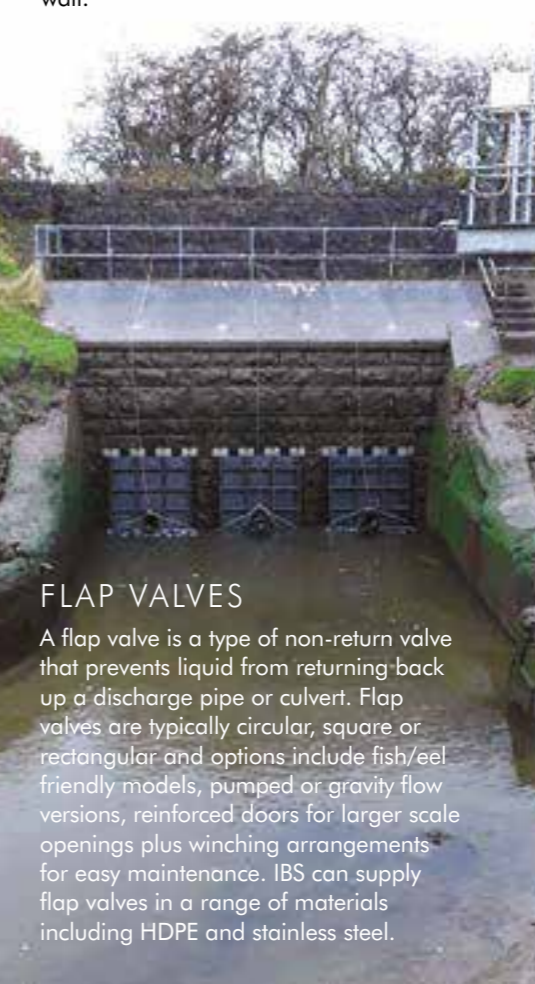


## FLOW CONTROL

IBS can supply a wide range of penstocks, stoplogs, flap valves and bellmouths for use in many different applications including water and wastewater treatment plants, sewers, industrial effluent plants, flood control projects, waterways, rivers and hydro-electric plants. We'll work closely with you to ensure that you receive the best possible advice when designing your projects.

### STOPLOGS

IBS can supply aluminium or stainless steel stoplogs in a variety of width and height profiles, according to the size of the opening and height of water to be retained. Stoplogs are ideal for use when temporary water arrest is required and a conventional penstock is excessive in design and cost. They are generally used temporarily for diverting flows whilst carrying out maintenance or for creating a weir wall.



FLAP VALVES

### FLAP VALVES

A flap valve is a type of non-return valve that prevents liquid from returning back up a discharge pipe or culvert. Flap valves are typically circular, square or rectangular and options include fish/eel friendly models, pumped or gravity flow versions, reinforced doors for larger scale openings plus winching arrangements for easy maintenance. IBS can supply flap valves in a range of materials including HDPE and stainless steel.



PENSTOCKS

### PENSTOCKS

Penstocks (or sluice gates) are used for the isolation and control of the flow of liquid and are used extensively within the water and wastewater treatment industry worldwide. Manufactured in grades of stainless steel to suit the environment and application, IBS penstocks can be designed for special mounting situations, curved sewer pipes, withstanding high water columns or multiple other specific requirements.



STOPLOGS

### BELLMOUTHS

Hydrostatic telescopic bellmouths are generally used for level control and are often found in filter distributor chambers and sludge draw-off tanks on wastewater treatment plants. IBS can provide you with bellmouths in a range of sizes, typically up to 600mm diameter, which can be operated manually or with electric actuators.



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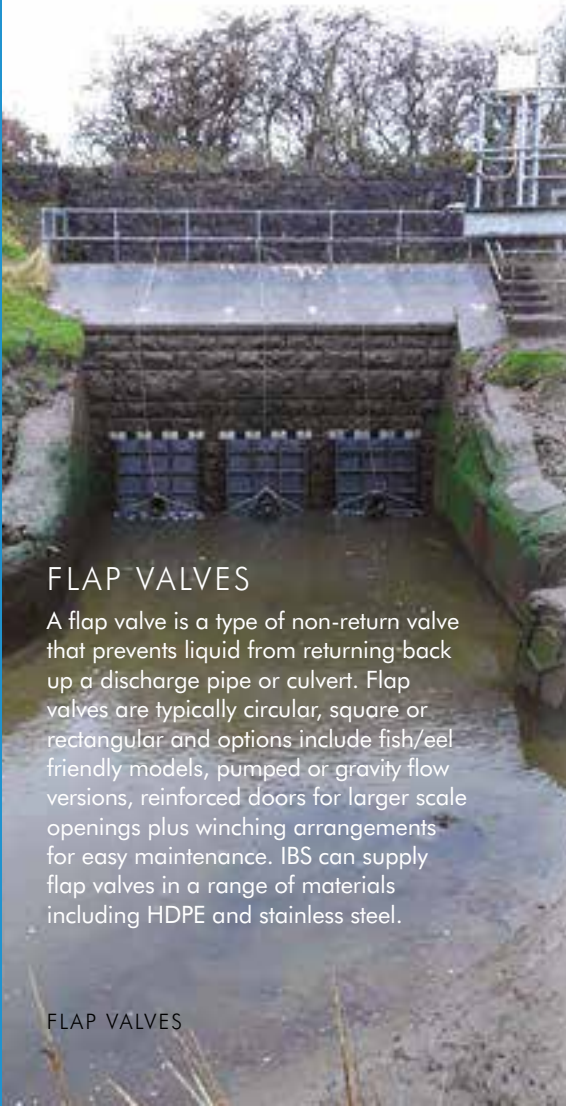
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BELLMOUTHS



Sector: **Healthcare**  
 Client: **Scapa Healthcare**  
 Location: **Gargrave**  
 Main Contractor: **Advanced Pump & Hydro**  
 Size: **1200mm x 1200mm**  
 Product/s: **Stainless Steel Penstock and Auma Gearbox**

## Penstocks – Scapa, Gargrave

IBS was engaged to design, manufacture and install a new spill control solution to provide isolation of flows from the surface outfall of this large medical manufacturing plant.

The solution was a new 1200x1200mm stainless steel penstock to isolate or control the flow of water. However, due to the absence of an existing structure to fix to, a new pre-cast concrete headwall was required.

Extensive excavation works were required, plus the need to keep surface water drainage operational at all times. IBS deployed an over-pumping system that could contend with the surface water and groundwater flows, whilst a temporary dam was installed to ensure back-flow from the downstream beck did not affect the works.

The solution designed and implemented by IBS ensured that all maintainable equipment was above ground, with easy access for the end user, which subsequently removed the risk of operators entering a confined space.

With the over-pumping system in place, the enabling works could then be completed, which allowed the concrete headwall and stainless steel penstock to be installed. Once complete, commissioning was carried out to the total satisfaction of the client and end user.

The previous project had been rolling on for many years with little sign of the clients' objective being achieved. Once IBS was engaged, the cost savings became apparent and helped facilitate the go-ahead of the project.



Sector: **Flood**  
 Client: **Leeds City Council**  
 Location: **Leeds**  
 Main Contractor: **BAM Nuttall and Mott MacDonald (BMMJV)**  
 Size: **Various**  
 Product/s: **Glass Flood Walls, Floodgates, Demountable Barriers, Non-Return Valves**

## Leeds Flood Alleviation Scheme: Phase 1

Since the year 2000, flooding has occurred in Leeds on at least 7 occasions, with significant and widespread flooding from some of the highest river levels ever recorded. With flood risk in general rising across the UK, potential for a repeat is high. The Leeds FAS phase 1 provides protection to over 3,000 homes, 500 business and 300 acres of development land against flooding from the River Aire.

Phase 1 included the installation of moveable weirs (to replace existing weir structures at Knostrop and Crown Point), the merging of the river and canal and the construction of flood walls, glazed panels and embankments stretching over 4.5km. The new weirs maintain a navigable water level during normal water flows, where the Aire and Calder navigation

meets the Leeds to Liverpool canal, but during periods of dangerously high flood levels, they are progressively lowered to reduce the height of the flooding.

IBS Engineered Products was awarded the contract to design, manufacture and co-ordinate the installation of glass flood walls, floodgates, property level flood protection and flap valves, including pre-design work to agree bespoke details of the glass systems to suit client demands on aesthetics.

The project, including the work undertaken by IBS, commenced Jan 2015 and officially opened in Oct 2017, was a great success, winning several prestigious awards including the NEC Project of the Year Award.



Sector: **Flood**  
 Client: **Natural Resource Wales**  
 Location: **Llanrwst, Conwy**  
 Main Contractor: **IBS Engineered Products Ltd**  
 Size: **12m x 1.5m**  
 Product/s: **Demountable Flood Wall**

## Conwy Terrace, Llanrwst, Flood Barrier

This project required the replacement of an existing removable flood defence system and was recommended by the North/Mid Wales Integrated Engineering team.

The replacement barrier was specified in order to maintain the standard of protection afforded by the Conwy Valley Flood Alleviation Scheme 2009, therefore NRW wished to replace the existing 'Dutch Dam' flood defence barrier at Conwy Terrace, Llanrwst, with a demountable flood barrier, to be used by the NRW Integrated Workforce in the event of rapidly rising water levels to protect people and property from flood water.

IBS Engineered Products was awarded the contract to design, supply and install the part pre-installed demountable flood barrier. Specifically, IBS was required to deliver a full

turnkey package, including civils design, site surveying, full design and calculation package for the new 12m long x 1.5m high demountable flood wall, as well as the removal and modification of existing barrier system components. IBS also provided on-site fabricating, pull-out testing, concreting, mechanical fixing, tarmac surfacing and anti-slip anchor plates that were set into the modified concrete foundation. IBS sub-contracted the installation works to one of their trusted partners, Floodsafe Projects, who were able to complete the works one day ahead of the three-week site programme, even after additional works being included by the client.

The project was completed on budget, ahead of programme and to the complete satisfaction of the customer.



Sector: **Flood**  
 Client: **Derby City Council**  
 Location: **Derby**  
 Main Contractor: **GBV JV (Galliford Try/ Black & Veatch JV)**  
 Size: **Gates up to 10m wide, Glass up to 0.9m high**  
 Product/s: **Double Leaf Mitred Floodgates  
 Single Leaf Floodgates  
 Glass Flood Walls**

## Derby - Our City Our River

Derby's Flood Alleviation project – Our City Our River (OCOR) – led by Derby City Council, in partnership with the Environment Agency (EA) 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.

IBS was awarded a contract to design, supply and install a range of floodgates and glass flood defences. Specifically, six floodgates, the largest of these being 10m wide with one half containing a glass top section. In addition, approximately 340m of glass flood wall

systems throughout the scheme, in various layouts and sections at typical heights of 600 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 as well as designing all gates and glass systems. Installation was achieved using a variety of equipment, including core drilling rigs, mechanical lifting equipment and a glass suction lifter.

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.