



Structure Plan for the safety of the Second Line of Storm Tide Flood Defence throughout the entire City Area of Hamburg, Germany



Trial set-up of IBS demountable flood defence systems in Hamburg

The City of Hamburg has been plagued over many years by destructive storm tides that flooded whole areas of the city each time claiming numerous lives. To advance the construction of a strong and effective flood defence system and enable effective

action to be taken in the face of imminent danger and without lengthy bureaucratic procedures.

Hamburg's River and Port Authority were given extensive powers and is fully responsible for all flood defence measures.

In recent decades, mechanically operated flood gates have been installed along extensive stretches of flood defences. As a further safeguard, a second line of flood defences was constructed behind these for use in the event of a flood gate failure.

Client: River and Harbour Engineering Authority

Heights: 0,60 up to 4,35 m

Length of the defence line: 500 m

Area: 1000 m²

Characteristic features:

● Symmetrical posts with preinstalled ground plates

- Replaceable compressible seals
- Interlocking dam beam profiles
- Height adjustable with rising floodwaters
- Limited number of system components
- Simple compression of dam beams
- Erection on landward side