
Press Release

BAUER SOLVES AGE-OLD SHREWSBURY FLOOD PROBLEM

BAUER Inner City Ltd, the UK arm of the international Bauer Group, were considered by the Environment Agency to offer the most effective flood defence concept for the town of Shrewsbury, which has suffered badly from flooding over many years. Although engineered defences were the preferred solution, the historic nature of the town and the fine river views precluded a wholly conventional design using permanent walls. A solution was needed that offered a new degree of design flexibility, but with a guaranteed level of safety and performance.

The BAUER-IBS Demountable Flood Defence System “DEMFLLOOD™” was evaluated and met the essential criteria of safe design and minimal impact on the townscape, whilst providing effective protection against severe flood events, such as that which occurred in the Autumn of 2000. The BAUER-IBS System was used (in conjunction with permanent hard-engineered works to less sensitive areas) to cater for varying flood heights above ground level, resulting in system heights tailored to each location. Sections of sheet pile cut off wall were required on the site to prevent seepage of subsurface water below the defences and new concrete foundations to accept the BAUER-IBS System were cast over the cut-off walls. This arrangement, in particular the full-height sections of the BAUER-IBS System, results in minimised visual impact when the defences are not in use.

The System

The BAUER-IBS “DEMFLLOOD™” System is a highly-engineered, yet readily mobile Demountable flood defence concept. Basically it comprises lightweight extruded aluminium profiles, forming load-bearing supporting posts and dam beams. The support posts are fitted to permanently cast-in stainless steel ground plates. These sections together form a very strong temporary floodwall, capable of containing the large hydrostatic pressures that occur at design flood heights. The distance between the supporting posts for the Shrewsbury project is typically 3.0m.

When a flood event is expected, the System is delivered to site from storage, the support posts bolted to the ground plates, and the beams installed to complete the barrier.

The System can also be partially installed (not all flood events are equal). If an increased defence height is subsequently required, then further dam beams can be added, even while floodwaters are rising. The BAUER-IBS System has to date been installed in over 300 European locations, demonstrating it's innate effectiveness.

Managing Director of BAUER Inner City Ltd, George Lauchlan comments:

“DEMFLLOOD™” is an example of outstanding German engineering. The product is manufactured to an extraordinarily high standard to enable it to withstand the full force of British flood conditions”.

BAUER Inner City Ltd was formed in 2000, to bring new products to the UK market. We are proud that “DEMFLLOOD™” is the forerunner of these products.

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**For more information on this press release please contact Deborah Darling at
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Notes to Editors

BAUER Inner City Ltd was established in 2000, and is part of the 200-year-old German-based Bauer Group. The company specialises in Demountable Flood Defence Systems and civil engineering technologies.