

## Flood Alleviation Scheme Bewdley Severnside North, England

Situated in a beautiful natural setting, the small Georgian market town of Bewdley, in the Midlands, is characterised by houses of historical interest on both sides of the River Severn. As a result, the town is always threatened by re-occurring flooding from the river. The Government's Environment Protection Authority, the "Environment Agency", sprung into action and, in consultation with the Historic Monuments Authority, installed a demountable flood defence system. As the floods can generally be predicted several hours in advance, a demountable flood defence system was considered to provide the optimum solution, as in good times the town's visual aspect is not affected. A challenge for the designers was the connection of the flood alleviation scheme with the historically important Grade 1 listed river bridge by Thomas Telford, which links the two parts of the town.



*Bewdley is situated in a large floodplain*



*Full system erection at minimum defence height*



*Holding back rising flood waters*

**Client:** Environment Agency

**Heights:** max. 3,30 m

**Length of the defence line:** 180 m

**Area:** 450 m<sup>2</sup>

**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

## Flood Alleviation Scheme Bewdley Severnside South, England

The beautifully situated small market town of Bewdley, in the Midlands, is visited every year by large numbers of tourists. The town with houses of historical significance on both sides of the River Severn has been hit repeatedly in the past by flooding, particularly after heavy thunderstorms. The Government's Environment Protection Authority, the "Environment Agency", initiated the installation of a demountable flood defence system. The Historic Monuments Authority also showed immense interest in the demountable flood alleviation scheme. The installation of the demountable flood defence system in Bewdley had to be carried out in several stages as the buildings along the River Severn are at varying levels.



*Bewdley is situated in a large floodplain*



*Firstly, full height barrier system installed*



*With lower section defender, section can now continue to hire levels*

**Client:** Environment Agency

**Heights:** 1,50 up to 2,85 m

**Length of the defence line:** 500 m

**Characteristic features :**

- Symmetrical posts with preinstalled ground plates

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