

# Lee Tunnel, Cork (Ireland)

**Client:** Tarmac Walls Joint Venture  
**Engineering:** BAM Civiel  
**Realisation:** BAM Civiel (in joint venture with T-Marine Ltd.)  
**Sum:** € 4.568.210 (75%)  
**Contact:** (0182) 59 06 00 / info@bamciviel.nl / www.bamciviel.nl



## BAM Civiel

Our client Tarmac Walls Joint Venture awarded BAM Civiel the engineering and execution of the total immersing operations for the Lee project. This included the floating-up, transportation, immersing and sandflowing of five closed elements together with one open segment.

The elements were constructed in a dock. At the same time the riverbed was prepared for the arrival of the elements. After breaking the dike and flooding the dock, the sealed elements were floated one by one. The tunnel elements are transported over the river to the place where they would be immersed.

The immersion of the elements is an operation which requires immense precision with margins of mere

millimetres for both horizontal and vertical tolerances. Rubber seals provide the first closure. Thereafter, water pressure does most of the work of pushing the element into place.

The process of immersing the Lee Tunnel was completed successfully, so that after the temporary bulkheads were broken down, the tunnel formed a safe, dry crossing. Finally, soil was put in under, alongside and on top of the tunnel to embed it in the dredged trench. In this way it is safely hidden in the riverbed thereby reducing the risk of damage by ships or anchors.