

# THE SAGE GATESHEAD

## TYNE & WEAR



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Halfen's Detan tension rod system has been used as bracing to the steel structure supporting the "shrink-wrapped" roof that envelopes The Sage Gateshead, the city's landmark home for music and music discovery. Designed by Foster & Partners and built by Laing O'Rourke, the site is between the Millenium Bridge (another development using Halfen products) and the Tyne Bridge with its great arch, echoed in the shell-like form of The Sage Gateshead's roofline.

The £70 million building provides accommodation for three auditoria and the Regional Music School, and also acts as a base for the Northern Sinfonia and Folkworks, which promotes folk, jazz and blues performances. Each

auditorium was conceived as a separate enclosure but the windswept nature of the site prompted the architects to provide a covered concourse along the waterfront to link them all. As a result, the entire complex is sheltered beneath it's famous broad roof.

Waanger Biro, working with structural engineers Connel Mott MaDonald, detailed and installed the 720 tonne roof using some €85,000 worth of Detan tension rod system in the process.

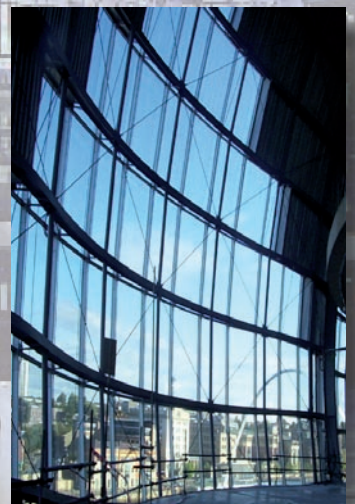
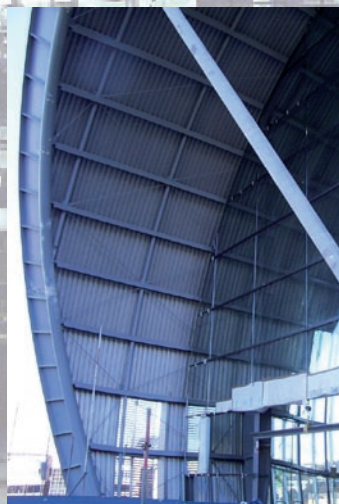
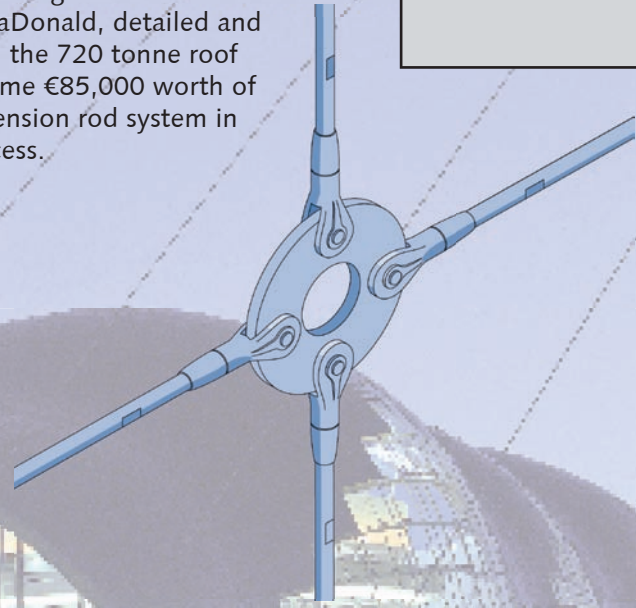
**Client:**  
Sage

**Architect:**  
Foster & Partners

**Structural Engineer:**  
Connell Mott MacDonald

**Main Contractor:**  
Laing O'Rourke

**System Installer:**  
Waagner Biro



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