

Case study: The SSE Hydro Arena



"From concept, through mock-ups and the final site installation Siderise provided us with good advice and back up on this extremely complex and challenging project." - Roskel Contracts

Improving the acoustic performance in geometrically complex plenum ceilings with a versatile SIDERISE solution.

Winner of the "Most Stylish Entertainment Venue" at the 2013 Scottish Style Awards, the SSE Hydro has proved to be one of Glasgow's most prestigious entertainment venues since opening its doors September 2013. The Hydro Arena was designed by Foster and Partners as part of the Queen's Dock redevelopment project.

In 2014 Roskel Contracts were given a AISfpdc gold award in the Judges Award category and additionally won Project of the Year.

The challenge

An acoustic performance upgrade was required to suit the complex geometry of the arena's bespoke British Gypsum sloping fire rated boarded plenum ceilings. As the ceilings' design offered restricted access, an exclusively boarded solution would prove unsuitable. SIDERISE was approached by Roskel Contracts for its technical expertise in acoustics to find a bespoke solution that would meet the acoustic performance criteria requirements.



Location

Glasgow

Year

2013

Client

Scottish Exhibition Centre Ltd. (SECC)

Architect

Foster and Partners

Noise consultants

Sandy Brown associates

Contractor

Lend Lease Construction / Roskel Contracts

**Acoustic, fire and thermal
insulation specialists**

Our solution

SIDERISE used its acoustic barrier/damping mat solution **SIDERISE BM/P5/BOAK** and **BM/P10/BOAK**. Overlapping sheets were fitted from below through the structural framework. The **SIDERISE Boak sheets** were fixed and sealed to provide a continuous membrane which could be shaped and installed to suit the services and structural elements. The result was a fully compliant system.

SIDERISE Boak BM P5 and P10 sheets are thin polymeric sound barriers that provide exceptional flexibility and offer optimum sound reduction and dampening performance. They were originally designed to improve the acoustic insulation performance of metal, wood and plastic being particularly effective at reducing the effect of coincidence dip resonance in these materials.

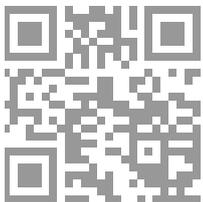
They are commonly used in construction applications including high performance wall and partition constructions; external cladding to ducts /pipes; component in built up metal roof and cladding systems. They can also be used in sandwich constructions between boards or as an internal membrane in built up composites where final flexibility is required.

For more information

Contact us for more information about these products, and our acoustic, fire and thermal insulation solutions. We provide a free technical advisory service.

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“ We came to Siderise on the Hydro Arena as we had concerns that a buildable solution, which met the acoustic performance criteria, could not practically be achieved with an exclusively boarded solution. Having worked with them previously we were confident that they had the range of products and the technical expertise to assist us in developing a practical solution and liaising with both the Architect and Acoustic Consultant. From concept, through mock-ups and the final site installation they provided us with good advice and back up on this extremely complex and challenging project. ”

Mike McLaughlin
 Managing Director (Joint), Roskel Contracts



**Developing insulation solutions
 for over 40 years**

