



## Structural – Wales Millennium Centre



### Project details:

The Wales Millennium Centre is the first national cultural institution to be built in Wales for over half a century. The front elevation is dominated by the Gwyneth Lewis inscription: Creu gwir fel gwydr O ffrwnais awen / In these stones horizons sing.

The building's 1,850-seat main auditorium is home to the Welsh National Opera, Urdd Gobaith Cymru, Diversions Dance Company and Hijinx Theatre Company, establishing the centre as a world class venue

As part of the construction, 2200m<sup>3</sup> of C45 structural lightweight concrete, using Lytag<sup>®</sup> 4-12mm (now 4/14) lightweight aggregate, was placed on metal decking. The reason for using lightweight concrete was to reduce the weight in the 6-story building, hence reduce column sizes for better viewing of the stage.

### Project:

Wales Millennium Centre,  
Cardiff, (Opera House)

### Date:

2002 – 2003

### Client:

Wales Millennium Centre /  
Arts Council

### Architect:

Capita Percy Thomas

### Structural Engineer:

ARUP

### Main Contractor:

Sir Robert McAlpine

### Readymix supplier:

Hanson Premix

