GG D informs:

Vibration Isolation of Buildings



Project name and site:

Kwai Tsing Theatre Hongkong

Building:

900 seat theatre

Structure:

Reinforced concrete building

Noise and vibration source:

West Rail Freight Line

Base isolation spring system:

Fully-prestressable GERB-spring elements. System natural frequency: 3,5 Hz

Design load:

300,000 kN

Arrangement of spring elements:

On top of pile caps

Vibration isolation efficacy:

80 - 95%

Completion: 1999

Client:

Hongkong Government

Architects:

Architectural Services Department

Civil, Structural & Services

Consultant:

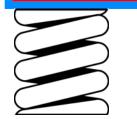
Ove Arup & Partners

Vibration & Acoustics:

Arup Acoustics





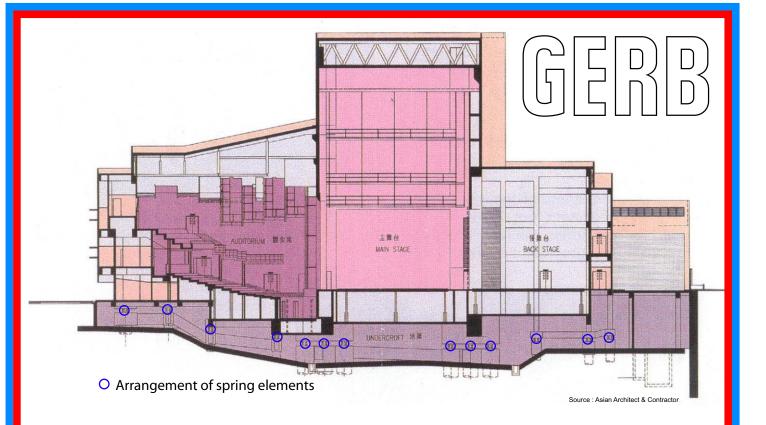














Spring system in operation



Spring elements embedded in soffit formwork



Spring elements placed on pile caps

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Reference:

"Building Isolation"





