

# Wiss, Janney, Elstner Limited



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## CPD Overview

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## Available CPD Material (3)

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### Vacuum Insulated Glass: The Next Big Thing?

Vacuum Insulated Glass (VIG) is an emerging technology that has been in commercial development for the last 20 to 30 years.

A VIG unit is typically about 5/16 inch thick, yet provides an R-value two to three times the R-value of a typical dual-pane insulating glass unit. While some VIG technology has been commercially available since as early as 1996, its presence in the United States architectural market has been minimal.

In this webinar, WJE architectural engineers Tony Cinnamon and Sarah Sinusas provide a brief history of VIG technology, describe the typical make-up of VIG and Hybrid VIG units, present thermal performance of available products, and describe considerations for evaluating various products available in the market, for both historic preservation applications and high-performance new construction. The webinar includes case studies.

By the end of this CPD, delegates should be able to:

1. Describe the components of Vacuum Insulated Glass (VIG).
2. Identify project types that might be suitable for consideration of VIG.
3. Compare the difference in thermal performance between VIG units and insulating glass units.
4. Explain appropriate industry standards that guide evaluation of VIG.

Material type:

Online Learning

RIBA Core Curriculum:

**Design, construction and technology**

Knowledge level:

General Awareness

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### Assessment and Conservation of Modernist Concrete

Concrete technology proliferated in post-war Europe as engineers and architects began producing ground-breaking building designs and civil structures with structural concrete. For modern practitioners and those responsible for stewardship of post-war era heritage, maintaining these concrete structures while making them more sustainable can be technically challenging.

It is important to understand the significance and construction of these concrete structures, including material constituents of the concrete, unique characteristics, and extent and causes of deterioration as well as project requirements and goals. Proper repair techniques and conservation treatments are critical to preserving their significance and value. This webinar will discuss the history and development of 20th century concrete technology with case studies that demonstrate a range of repair and conservation approaches.

By the end of the CPD you should have a greater understanding of:

- How to define approaches for the maintenance of heritage concrete, including regular assessment, in order to establish baseline conditions, identify needed repairs, and develop a maintenance program
- How to identify inspection tasks, including monitoring protection systems and review of sealant joints, expansion joints, and protection systems
- How to describe the investigation process, including the importance of laboratory analysis, trial samples, mock-ups, full-scale repairs, and quality control measures

Material type:

Seminar

RIBA Core Curriculum:

**Building conservation and heritage**

Knowledge level:

General Awareness

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Multiple formats

### Successful Implementation of Vibration Control during Museum Construction Projects

Museum expansions and renovations abound, and associated vibrations caused by heavy construction are potentially harmful to artwork and to sensitive elements of museum buildings themselves. Protection of these objects throughout a construction project calls for a reliable method of vibration control. In this CPD, leading experts explain the effects of vibrations on humans, buildings, and artwork. Then, a scientific methodology for vibration control is outlined. Feedback on how the methodology has worked in practice is then provided by a conservator and collections specialist. By the end of the CPD you should have a greater understanding of:

- The nature of construction vibrations and their potential effects on the human body, buildings and artwork
- The basics of a three-phase scientific methodology to successfully carry out vibration control during a museum construction project
- A conservator's and a collection specialist's perspective on how the vibration control methodology worked at their institutions

This CPD can be delivered to you live and remotely.

Material type:

Online Learning, Seminar

RIBA Core Curriculum:

**Building conservation and heritage**  
**Design, construction and technology**

Knowledge level:

Detailed Knowledge

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## Classifications

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### Subject/Product Areas (CI/SfB)

Special activities, requirements

Architectural salvage > Advisory organisations

Engineering

UNKNOWN > UNKNOWN

### RIBA Core Curriculum areas

Design, construction and technology

Knowledge level: *General Awareness*

Building conservation and heritage

Knowledge level: *General Awareness*