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## CPD Overview

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UK based Schöck Ltd, is a member of the Schöck Group, which operates 14 companies around the world from its head office in Baden-Baden, Germany. Over six decades the company has built a formidable international reputation for its pioneering product design and exceptional performance standards. Although best known for its market leading range of Isokorb structural thermal breaks, reinforcement technology and impact sound insulation solutions are also a significant part of the company's product portfolio.

### Inventors of the original thermal break

A thermal bridge is an area of the building envelope with significantly higher thermal conductivity than surrounding areas and cantilevered balconies are the most critical thermal bridges. Schöck was the first company to develop structural thermal breaks to counter this problem and its internationally recognised Isokorb product range has been developed for design detailing (including Passive House standard) involving concrete-to-concrete, concrete-to-steel and steel-to-steel.

### Sconnex is a new and unique solution

The Schöck philosophy of rethinking existing capabilities can lead to derivative technology and the new Schöck Sconnex product range is a perfect example. Here the company has transferred its balcony technology expertise to walls and columns – which account for around 40% of thermal bridges in buildings and some 10% of heating energy losses. Sconnex offers outstanding insulation performance, combined with an exceptional load-bearing capacity.

### Innovative reinforcement technology

Traditionally steel rebar has been used as reinforcement in concrete construction. However, steel is not ideal in corrosive and electromagnetically sensitive environments. Schöck Combar, a glass fibre reinforcing bar, is a superior solution. It is stronger than steel and significantly lighter; neither electrically or thermally conductive; and is corrosion resistant, extremely durable and easily machinable.

With flat slab construction there is a high concentration of shear forces around the columns, which can lead to punching – a problem solved by incorporating the Schöck Bole punching shear reinforcement. Also, expansion joints are required to effectively prevent cracks caused by shrinkage or temperature movement when installing concrete slabs and Schöck Stacon dowels offer an efficient solution for the transmission of shear forces in expansion joints.

### Integrated impact sound solution

With higher density living, noise nuisance and its effect on health issues is an all-important topic. One of the most invasive irritations is impact sound and Schöck has developed Tronsole, an integrated impact sound insulation system for all structural subsections on both straight and winding staircases.



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**Available CPD Material (4)**

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Multiple formats

**Thermally Separating Reinforced Concrete Walls**

To bring awareness of the issues relating to cold bridges in reinforced concrete walls. The webinar includes identification of cold bridge vulnerabilities in RC structures and introducing solutions, discussing minimum thermal requirements, practical detailing, structural design considerations and best practice.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**Knowledge level: General Awareness

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Multiple formats

### Impact Sound Insulation for Staircases

The aim of this CPD is to bring awareness of why sound insulation is an increasingly important criterion for residential and commercial buildings, particularly in improving the acoustic performance caused by impact sound from stairs. We also aim to introduce what the regulations say, how to verify sound insulation performance and introduce solutions to provide sound insulation. This CPD will help you to understand the following topics:

- Understand why sound insulation is important
- Understand the effect of noise disturbance on human beings
- Understand the noise disturbance factor of staircases
- Understand standards and regulations
- Understand how UK requirements compare to other European countries requirements
- Understand how to prove the performance of sound insulation products
- Understand solutions for achieving sound insulation in staircases

This CPD can be delivered to you live and remotely

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness

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Multiple formats

### Thermal Bridging in Construction

This CPD will cover the following topics:

What are cold bridges, where do they occur and what are the effects

What regulations cover cold bridges and what do they say

What is the solution to cold bridges in buildings

What are Psi or Chi Values & How do I calculate them

What is the connection between condensation and cold bridges

This CPD can be delivered to you live and remotely. Please note that this content was assessed in 2018.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**  
**Sustainable architecture**

Knowledge level: General Awareness

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### Passivhaus: Thermal Bridge Free Design

To give in-depth design advice on thermal bridge free design for Passivhaus Projects. The seminar includes the definition of "Thermal Bridge Free" and how to apply this specifically to projects. Also, general rules to improve thermal bridging performance of details including windows and how to implement in the PHPP. There is a thermal bridging manual calculation and several examples of thermal bridge free details.

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

- How to identify potential thermal bridging issues.
- Types of thermal bridge within structures.
- Passivhaus planning package PHPP with thermal bridging data for project.
- How to manually calculate thermal bridging transmittance factors (Psi) for junctions.
- How to develop "Thermal Bridge Free" details.

Material type:

Seminar

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## Classifications

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

Structure

External walls > Cavity wall spacer systems

Floors, including beams > Floor decking - metal

Floors, including beams > Floor insulation

General products

Concrete > Steel reinforcement for concrete

Blocks and bricks > Brick, blockwork reinforcement

Sections, including tapes > Metal, plastics and rubber sections

Fixings and fastenings, ironmongery > Fixings and fastenings

### RIBA Core Curriculum areas

Design, construction and technology

Knowledge level: *General Awareness*

Sustainable architecture

Knowledge level: *General Awareness*