TOPIC

The impacts of NCC 2019/2022 Section J on building design

Including the impacts of Thermal Bridging on insulation requirements.

OVERVIEW

This CPD will provide an overview of the changes to NCC 2019/2022 Section J, including Thermal Bridging and its impact on building design.

LEARNING OUTCOMES

- Identify the requirements of NCC 2019 & 2022 Volume 1 Section J
- Address how the above changes impact building designs
- Understand Thermal Bridging. What it is and its impact on wall design
- Formal Outcomes: *Formal Outcomes: Project Initiation and Conceptual Design* – PC18, PC24, PC28. *Detailed Design and Construction Documentation* – PC39, PC45, 46.

Formal Questions

1. What Class of Vapour Control Membrane is required in Climate Zone 6, 7 and 8?
   A. Class 1
   B. Class 2
   C. Class 3
   D. Class 4

2. **What is the upper limit for Solar Absorption value on deemed to satisfy roof colour?**
   A. 0.25
   B. 0.35
   C. 0.45
   D. 0.55

3. **What determines the System U-Value Requirement of a façade?**
   A. Climate Zone & Building Class
   B. Façade Height and Width
   C. Number and Size of Windows
   D. Number of Occupants

4. **What effect of thermal bridging is addressed by Section J?**
   A. Condensation Risk
   B. Structural Integrity
   C. Fire Performance
   D. Loss of Thermal Performance

5. **What can affect the framing percentage in a wall?**
   A. Framing Material
   B. Wall Height, Wall Width and Number of Noggings
   C. Wall Thickness
   D. Type of Insulation

6. **What are two ways to mitigate the effects of framing on thermal bridging in a wall?**
   A. Thermal Breaks & Continuous Insulation
   B. Using Bricks
   C. Making Windows Smaller
   D. Ventilation