

The below answer sheet is for your own self-assessment.
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Structural Ceiling Systems for Data Centres



1. How do the ceiling systems support and integrate with the critical cooling infrastructure? Which of the following are true?

- A. They provide structural support for overhead ducts, trays and cooling units**
- B. They help separate hot and cold airflows to prevent hotspots**
- C. They have no impact on cooling performance

2. What considerations were made for cable management and future expansion within the ceiling void? Select all that apply.

- A. Clear pathways for cable trays and conduits**
- B. Modular design that allows re-routing or additions**
- C. Flexibility for future growth without major disruption**
- D. Fixed layout with no allowance for change

3. How do the ceiling systems address fire safety and suppression requirements? Choose the correct statement.

- A. Ceiling systems help distribute suppression agents evenly
- B. Fire-resistant materials are used to comply with codes
- C. Ceilings are designed to contain suppression agents
- D. All of the above**

4. What is the role of the ceiling in maintaining a clean, dust-free environment? Choose the correct statement.

- A. They help seal the space and stop dust infiltration
- B. They integrate with HVAC to maintain positive air pressure
- C. They use finishes with low particulate emissions
- D. All of the above**

5. How do the material choices for the ceiling system contribute to the data center's sustainability goals? Select all that apply.

- A. Using recycled aluminium or steel reduces embodied carbon**
- B. Durable panels reduce waste by lasting longer**
- C. Reflective finishes can improve lighting efficiency**
- D. None of the above