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ALUMINIUM CEILING GRIDS - BENEFITS, COMPLIANCE & DESIGN CONSIDERATIONS

1. What is the purpose of ceiling grid systems?

Typically used in commercial, healthcare, and educational applications, ceiling grid systems function as frameworks with which to suspend panels or tiles and conceal wiring, pipes and so forth within the void above.

2. Beyond this function, what name three key considerations when specifying ceiling grid systems?

Answers may include any three of the following:

- Aesthetics & Visual Appeal
- Acoustic Performance
- Fire Safety
- Structural & Seismic Requirements
- Durability & Maintenance
- Sustainability & Environmental Considerations

3. What regulations apply to the installation of ceiling grid systems in Australia?

The installation of ceiling grid systems is regulated by the National Construction Code (NCC), which incorporates Australian Standards like AS/NZS 2785:2020 (Suspended Ceilings – Design & Installation) and seismic standards such as AS 1170.4.

4. Why is steel often used to make ceiling grid systems? What are its benefits in this context?

The benefits of steel ceiling grid systems include strength, durability, fire resistance, and resistance to moisture, mould, and corrosion.

5. What are the benefits of aluminium ceiling grid systems?

Though significantly lighter than steel ceiling grid systems, they provide similar levels of strength. They are also simple to design, easy to work with, corrosion-resistant and can be customised to suit the requirements of specific commercial applications.

6. What types of applications are aluminium ceiling grid systems not suitable for?

Aluminium ceiling grid systems are not suitable in cases where precise sound control is required, for highly complex or unique designs, or in surgical environments.