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Tubular Daylighting Devices - Technology & Design Applications

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1. What is a Tubular Daylighting Device (TDD)?

A daylighting system that captures natural light at roof level and channels it through a reflective tube into interior spaces, delivering it via a diffuser at the ceiling.

2. What are the three technology zones that make up a TDD?

Capture Zone, Transfer Zone, Delivery Zone

3. What is specular reflectance?

A measure of how much light is reflected off a surface at the same angle it strikes it (mirror-like reflection), rather than being scattered or absorbed.

4. What is the NCC trying to achieve with respect to natural light?

The objective of the NCC is to ensure building occupants have adequate access to natural light to support health and amenity.

5. How does the NCC define Average 'Daylight Factor'?

The NCC defines 'Average Daylight Factor' as the ratio of the illumination level within a room provided by daylight to the level of daylight outside the building during overcast conditions.

6. Name 3 metrics that can be used for daylight modelling.

Any of the following: sDA (Spatial Daylight Autonomy); ASE (Annual Sunlight Exposure); Daylight Factor (DF); UDI (Useful Daylight Illuminance); Lux Levels.