

In-Floor Electrical Service Boxes (G167)



Government
of South Australia
Department for Infrastructure
and Transport

This guide note sets out The Department for Infrastructure and Transport's (DIT) requirements regarding the use and selection of in-floor boxes for services on Government construction projects. In-floor boxes referenced in this document may provide services that include but are not limited to - power, communications, lighting control, data, audio, and video.

Risks Identified:

The risks include but are not limited to:

- Slipping or tripping hazards
- Cord damage
- Finger injury
- Electric shock
- Liquid spills, dust and dirt entry
- Floor structure integrity

Design

Due to the risks identified, the Lead Professional Service Contractor (LPSC) shall only consider in-floor boxes once all other options to provide services to a location have been exhausted. In instances where there is no other viable option, the following shall apply:

General Requirements

1. Both the lid and base shall be of a type/system that protects cords entering on all sides from crush or guillotine action, regardless of if the cord is passed through the designated entry.
2. The lid shall be non-conductive, or the box assembly must incorporate non-conductive edges on the lid and base.
3. The lid shall be non-slip. This may be achieved by a rebated lid section which can accommodate the adjacent flooring material.
4. With the lid closed and box is not in use, there shall not be a trip hazard created, and the area compliant with AS 1428.1 Section 7.

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5. Product data must be provided to DIT for the Design Review process. Samples shall also be made available for review by the LPSC prior to installation.
6. The LPSC must include the use of in-floor boxes in the Safety in Design register.

Department for Education (DfE) Project Requirements

In addition to the General Requirements noted above, the following also applies on all DfE Construction Projects:

1. The LPSC must initiate a request via the DIT Project Manager, to obtain written approval for the use of floor boxes from the DfE Director of Capital Programs and Asset Services.
2. A request for approval must include drawings highlighting of the proposed location(s), and reasons why alternatives have not been adopted.
3. The written approval from DfE must be included in documentation provided to DIT for the Design Review process.

Failure to provide any of the above may result in proposed or installed floor boxes being rejected by DIT.

Contact

For further information contact:

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