Part 1  General

1.1 Summary

.1 Unless otherwise indicated, follow the standards below when planning for telecommunication / data rooms. These standards are not intended to restrict or replace professional judgment.

.2 These guidelines should be read with the specific technical sections of McGill’s Building Design and Technical Standards.

1.2 Design Requirements for Telecommunication / Data Room

.1 For buildings over 800 m² (8,000 ft²) the following shall apply:

.1 For every 1,000 m² (10,000 ft²) of floor there shall be one telephone closet with a minimum of one telephone closet per floor.

.2 Closet spaces shall be as follows:

.1 1,000 m² (10,000 ft²) of serving area, closet size shall be 3 m x 3.4 m (10' x 11').

.2 800 m² (8,000 ft²) of serving area, closet size shall be 3 m x 2.8 m (10' x 9').

.3 500 m² (5,000 ft²) of serving area, closet size shall be 3 m x 2.2 m (10' x 7').

.3 Each closet shall have a minimum of two walls covered with rigidly fixed 19 mm (3/4") x 2,440 mm (8'-0") high fire-rated plywood, smooth on one side and capable of supporting attached equipment.

.2 For smaller buildings under 800 m² (8,000 ft²) the following shall apply:

.1 Walk-in-type closets may be used and shall be a minimum of 1.3 m deep x 1.3 m wide (4'-6" x 4'-6") to serve a floor area of up to 500 m² (5,000 ft²). To serve each additional 100 m² (1,000 ft²), add 1 m² (10 ft²) to the closet floor area, up to a maximum of 800 m² (8,000 ft²).

.2 Shallow-type closets may also be used and shall be a minimum of 0.45 m deep x 2.6 m wide (1'-6" x 8'-6") to serve a floor area of up to 500 m² (5,000 ft²). To serve each additional 100 m² (1,000 ft²), add 1 m² (10 ft²) to the closet floor area, up to a maximum of 800 m² (8,000 ft²). Shallow closets must have a minimum 1,800 mm (6'-0") wide double door.

.3 Each closet type shall have the rear wall covered with rigidly fixed 19 mm (3/4") plywood smooth on one side and capable of supporting attached equipment.

.4 The following schematic plans of rooms types are possible configurations (Reference: TDM manual)
1. Typical layout for a shallow room
2. Typical layout for a small telecommunications room

![Diagram of a small telecommunications room layout with notes on HVAC supply, conduits, and minimum clearances.]
3. Typical telecommunications room layout

![Diagram of typical telecommunications room layout]

Part 2  Related Technical Sections

The technical sections of the McGill Building Design and Technical Standards should be consulted with the current document, most notably (but not limited to) the following:

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