

TEKLINE

The intelligence behind every building

CHECKLIST

Checklist: a compliant telecommunications room

Dimensions, power, cooling and grounding - the verification list our designers actually use.

info@tekline.ca · 1 877 314-6304

RBQ 5812-3947-01

Checklist: a compliant telecommunications room

The verification list our designers use before signing off on a telecom room. Designed to be printed and completed on site.

Reference standards

- ANSI/TIA-569 - telecommunications spaces and pathways
- ANSI/TIA-568 - structured cabling and link performance
- ANSI/TIA-607 - grounding and bonding
- BICSI TDMM - recommended design practices
- CSA C22.1 (Canadian Electrical Code) - power and safety
- Quebec Construction Code - Building chapter and local requirements

Location and dimensions

- ☐ Dedicated room with no shared use (no storage, janitorial or mechanical use)
- ☐ Minimum clear height of 2.6 m below obstructions
- ☐ Clearance of 1.0 m at the front and 0.75 m at the rear of each cabinet
- ☐ Door at least 0.9 m wide, opening outward, with no blocking threshold
- ☐ Clear access route to deliver a fully assembled cabinet to the room
- ☐ No water or drainage piping passing through the room
- ☐ Room located outside flood-prone areas and away from vibration sources
- ☐ Horizontal link distance under 90 m to the furthest outlet

Electrical power

- ☐ Minimum two separate dedicated 120 V circuits on identified breakers
- ☐ Circuits not shared with lighting or service receptacles
- ☐ Sufficient receptacles, distributed on both sides of the cabinet
- ☐ UPS sized with documented runtime at full load
- ☐ Generator connection confirmed if the building has one
- ☐ Room lighting on a separate circuit, switched at the entrance
- ☐ Emergency shutoff and panel labelling in place

Cooling and ventilation

Estimate heat load by adding the actual consumption of the equipment, then validate the means of removal. A closed room with no fresh air supply quickly reaches temperatures that shorten power supply life.

Estimated load	Typical means	Note
Under 500 W	Passive ventilation	Transfer grille to a conditioned space
500 to 1,500 W	Forced extraction	Thermostat and temperature alarm
1,500 to 3,000 W	Dedicated cooling	Plan condensate drainage

- ☐ Heat load calculated and recorded in the project file
- ☐ Temperature setpoint maintained between 18 and 27 °C
- ☐ Relative humidity maintained between 30 and 60 %
- ☐ Temperature alarm connected to building supervision
- ☐ Filters accessible for maintenance without disassembly

Grounding and bonding

- ☐ Telecommunications ground bar installed and accessible
- ☐ Bonded to the building primary ground, with compliant conductor size
- ☐ Cabinets, cable trays and metallic raceways bonded
- ☐ Bonding conductors identified in green and labelled at both ends
- ☐ Continuity measured and the value recorded in the commissioning report

Pathways and penetrations

- ☐ Vertical sleeves sized with a minimum 25 % reserve
- ☐ Conduit fill ratios respected and documented
- ☐ Bend radii respected at every penetration
- ☐ Firestopping reinstated and certified at each crossing
- ☐ Cable trays supported independently of the cabinets
- ☐ Separation maintained between communications cabling and power lines

Security, labelling and documentation

- ☐ Access controlled by lock or reader, with an access log
- ☐ Smoke detection in the room, connected to the fire panel
- ☐ Water leak detection if piping runs nearby
- ☐ Cabinets, panels, ports and cables labelled to a written convention
- ☐ As-built drawings delivered in editable digital format
- ☐ Cable certification reports provided link by link
- ☐ Equipment inventory with serial numbers and warranty dates

Before acceptance

Run the full list again with the building operator present. The items most often non-compliant at this stage are sleeve reserve, grounding continuity, and missing certification reports.

GET IN TOUCH

Let's talk about your project

This document is provided for reference. For an assessment specific to your building, reach our technical team at info@tekline.ca or 1 877 314-6304.

Tekline Technologies inc. - 9250, boulevard de l'Acadie, bureau 220, Montréal, QC H4N 3C5

