

3.5 Pathways

3.5.1 Containment – General

The following requirements must be applied to all containment systems:

- a)** The containment system must be designed such that installed cables do not exceed the minimum specified bend radius;
- b)** All metal containment parts must be free from sharp edges and should be earth bonded;
- c)** Telecom riser openings must be sealed with a suitable fire retardant material;
- d)** Cable trays must be easily accessible in common areas to facilitate any future provision of additional cables;
- e)** Any cable trays that are in publicly accessible areas less than 4.8 m above the floor must be covered;
- f)** Containment systems must not run through areas exposed to excessive heat, moisture, corrosive atmospheric or environmental conditions, high voltages, radio frequency interference ("RFI") or electro-magnetic interference ("EMI");
- g)** For all containment systems, a minimum separation must be maintained from sources of electromagnetic interference.
- h)** The building developer shall provide main and redundant containment system to connect with main and redundant entry points.

3.5.2 Vertical Containment – Multi-Tenant Buildings

Risers must be provided in multi-story multi-tenant buildings to allow the installation of telecom cables from the main telecom room to the floor telecom space, mobile- service rooms and roof-top rooms, with following options;

The following Hot-Dip Galvanized (HDG) slotted steel cable trays must be provided in the risers to accommodate the fibre optic cables and IBS cables.

- The vertical cable tray size must be 450mm x 50mm (HDRF) inside the building riser to accommodate building fibre optic cables, and must run continuously between all of the telecom rooms if possible.
- The vertical cable tray size must be 300mm x 50mm (HDRF) inside the building riser to accommodate IBS cables to provision IBS-solution (GSM).