

respective busbar riser.

- 7.3.7 Connections to switchgear shall be with flanged end units of specific design and manufactured by the busbar trunking manufacturer.
- 7.3.8 The busbar trunking shall be properly aligned and securely fixed, not exceeding 1.5m (or as recommended by the manufacturer) centers with adequate support to take the weight of the busbar by means of galvanized fixing brackets; comprising hanger clamp, fixing channel and damping screw, supplied by the busbar trunking manufacturer. Additional supports shall be provided where required and as recommended by the trunking manufacturer.
- 7.3.9 The busbar trunking system including flanges, elbows, tap-off boxes, supports etc. shall be of the type, size and location as indicated in the DEWA approved drawings.
- 7.3.10 The busbar shall carry its rated current without exceeding 55°C over an ambient temperature of 50°C at 90% relative humidity in any plane without de-rating and without affecting the DEWA power supply requirements.
- 7.3.11 Wherever busbar trunking system is installed on the supply side of any DEWA's KWh metering, suitable provision for sealing by DEWA shall be made as specified under section 3 of this regulation.
- 7.3.12 The phase bus bar, neutral bar and earth bar shall be of copper, colour identified as given in Appendix.6. The neutral bar shall be of the same cross section as the phase bus bar.
- 7.3.13 The requirement of earth continuity conductor (ECC) and equipotential bonding shall be as specified under Section.5 of this Regulation.
- 7.3.14 Wherever the busway passes through the wall or floor, it shall be provided with fire barrier/sealing to the degree of fire resistance required.
- 7.3.15 The tap off unit installed at each floor level in a busbar riser shall be at a height between 50 cm and 180 cm from finished floor level and shall have adequate access for operation, maintenance and replacement.

7.4 WIRING SYSTEMS AND ACCESSORIES

7.4.1 Segregation of circuits, phases and wiring systems

- 7.4.1.1 All wiring and accessories shall be selected and installed to suit individual locations and complying with relevant Regulations specified in Section-4, in addition to the following requirements.