

## Section 6

# Commissioning Results and Distribution Board Schedules

Commissioning the installed building services ensures that the installation operates within the requirements of the design specification. Commissioning involves both the 'setting-to-work' and the 'regulation' of the installation.

**AIR DISTRIBUTION SYSTEM REGULATION:** The ventilation supply and extract distribution ductwork systems have been checked for system cleanliness and effectiveness of the air regulating devices. A visual check of the system for air tightness and a thorough mechanical check of the air handling plant and fan sets have been carried out. Electrical checks have been carried out appertaining to the equipment to ensure that a safe and correct electrical supply is available to the plant and controls.

The ventilation supply and extract systems are set to work, the grilles/diffusers are measured for air distribution and regulated to achieve an initial air balance. The plant is then checked again, adjusted and re-checked until the correct air volumes, pressure, and temperatures are achieved. The grilles are then re-checked and adjusted to achieve the final commissioned figures.

### ELECTRICAL TESTS

The tests and the sequence of such tests are all in accordance with Regulation 613.1 of the 15th Edition of the IEE Regulations:

- Continuity of ring final circuit conductors
- Continuity of protective conductors including main and supplementary equipotential bonding
- Earth electrode resistance
- Insulation resistance
- Insulation of site built assemblies
- Protection by electrical separation
- Protection by barriers or enclosures provided during erection
- Insulation of non-conducting floors and walls.

- Polarity
- Earth loop impedance
- Operation of residual current devices (RCB's).

The test, completion and inspection certificates are located at the end of this section.

# Commissioning Test Data



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