

INSTALLATION CONSIDERATIONS & KEY POINTS

- All mains supply isolators must be double pole and suitably marked. (25.2c&f)
- All cables to be fire resisting with a minimum cross-sectional area of 1mm². (26.2j)
- All joints to be fire resisting, junction boxes to be labelled 'FIRE ALARM'. (26.2)
- Enhanced cable to be used where more than 4 zones of phased evacuation required, or in multi storey systems. (un-sprinkled over 30m) or risk assessment requires enhanced cable. (26.2)
- Cable using trunking as a means of containment must be clipped using fire resistant supports WITHIN THE TRUNKING. (26.2)
- Fire Alarm control panel(s) are installed at a location appropriate for staff and fire-fighters. (23.3)
- Call points are required at all exits to the open air - whether or not the exits are specifically designed to be fire exits. (20.2c)
- CO fire detectors should be spaced as per smoke detectors, but cannot be used without smoke detectors on escape routes. (28.1.8)
- Multi sensors, if used as combined type/space as smoke detectors, if used as individual types ie heat in the day & smoke at night then space as per heat detectors (26.1.6)
- Linear heat detection cable space as heat detectors. (22.3)
- Unusual ceilings: Cellular ceiling, perforated ceilings or ceilings with closely spaced beams have special spacing & installation requirements, refer to section. (22.3 & table 1& 2)
- Bells & Electronic sounders cannot be mixed. (16.2.1c)
- Sound levels can be reduced to 60dB(A) in stairs, small cellular offices or enclosures of no more than APPROXIMATELY 60sq m. Bedhead level remains 75dB(A). (16.2.1)
- If the ambient background noise level is over 90dB visual alarms (beacons) are required. (17.2a)
- Disabled toilets should be fitted with sounders and beacons. (18.1)
- A minimum of one sounder is required in each fire compartment. (16.2.1i)
- Full documentation required, test results as fitted drawings etc (Sectoin 40)
- An installation certificate will be required. (41.2)

Installation & Handover Checklist

- 1) The system complies with the original specification/design
- 2) Any changes to the original specification/design have been referred to the system designer for approval
- 3) System has been installed to meet requirements of category L1, L2, L3, L4, L5, P1, P2, M, other
- 4) Variations to the defined category have been identified and the schedule of variations agreed with client
- 5) Cables meet requirements for standard/enhanced/mixed
- 6) Cables are segregated as required and suitably supported (no plastic clips, cable ties or trunking used as sole means of support)
- 7) Cables are mechanically protected as required.
- 8) Junction boxes are correctly labelled and identified on drawings. Connector boxes are fire resistant.
- 9) All cable insulation and continuity resistance measurements are logged.
- 10) All cable penetrations are sleeved and fire stopped
- 11) Mains supply is dedicated, correctly fused and labelled
- 12) Mains supply is correctly identified at all distribution boards
- 13) Standby battery verification has been carried out for all power supplies
- 14) All batteries clearly marked and labelled with date of installation
- 15) Field wiring is labelled and correctly terminated in all control and ancillary equipment
- 16) Isolators are fitted as appropriate, operate correctly and are marked on drawings
- 17) There are a minimum of two sounder circuits installed
- 18) Sound pressure levels have been checked and recorded and meet the minimum requirements.
- 19) Detector type and spacing is appropriate to the system category
- 20) MCPs are located correctly and travel distance is appropriate to the system category
- 21) Remote signalling has been checked for correct operation to Alarm Receiving Centre
- 22) Zone charts have been fitted in all appropriate locations (adjacent to control equipment and repeaters)
- 23) As fitted drawings are complete and have been updated where required, including cable size and routing
- 24) Log book and operating instructions have been issued to the responsible person
- 25) The responsible person has been adequately trained in the use of the fire alarm system