



Supporting Steel Frame: The supporting steel framework of the mezzanine floor (1) (including the columns) should be fire protected for a period equal to, or greater than that required for the mezzanine floor itself. This may be achieved using 20mm VERMICULUX® or 12mm PROMATECT® 250. For further details on the requirements for protecting structural steelwork, refer to the Promat Fire Protection Handbook.

Cold Rolled Joists: Galvanised steel channel joists designed in accordance with BS 5950-5 (4) at maximum 600mm centres. Joists down to 172mm deep may be used depending upon the spanning and loading requirements. The maximum floor loading should not exceed 80% of the maximum design load calculated from the joist manufacturers loading tables for the chosen joist size.

Joists may be inset cleated (6) to the supporting beams (as shown) to maximise headroom, or designed with top cleats where the joists oversail the beams, using cleats of minimum 3mm thickness and fastened with minimum two M12 bolts. Any requirements for cross bracing of the joists by the joist manufacturers using tie-rods (8) must be followed (these may typically be M12).

Flooring: Typically 38mm thick x 600mm wide Flooring Grade P6 Chipboard (1) to BS EN 312:1997, T&G on two long edges (2), designed to BS 6399-1:1996 for loadings up to 5.0kN/m² UDL; laid perpendicular to the joists and fixed using 60mm Timberdeck winged self-drilling screws (3) at 400mm centres (2 fixings per board at each joist position). Board joints to coincide with joists, and staggered between panels.

Ceiling: 12mm thick x 2500mm x 1200mm PROMATECT® 250 boards (5), fastened parallel to the joists (with staggered transverse joints) using 25mm self-drilling drywall screws (7), at nominal 200mm centres.

Backing Strips: 12mm thick x 100mm wide PROMATECT® 250 cover strips (9) are placed over the transverse joints between the joists (fixings not essential).

NB: Consult mezzanine joist manufacturers for joist sizes and centres, appropriate to the loading requirements of the mezzanine floor.

AUTHORITY: Bodycote: WF Assessment Report No 162600

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