



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

Flooring: Minimum 18mm T&G boarding or flooring grade chipboard (1), fastened at each joist using minimum 30mm x No.8 self-drilling, self-tapping screws at maximum 300mm centres (2 fixings per board at each joist position in the case of T&G boarding).

Joists: Cold rolled steel joists (2) at maximum 600mm centres. The in-house fire tests on which this recommendation is based involved cold rolled joist sections in the range 120mm deep x 1.5mm gauge thickness and 260mm deep x 3.2mm gauge section. These represent the typical sizes likely to be encountered in mezzanine floors. For cold rolled joists outside this range, consult with Promat Technical Services Department.

Fillet Strip: 2 layers of 12mm SUPALUX®, 100mm wide (3), fastened under all steel joists using 40mm x No.8 self-drilling, self-tapping screws (4) at 600mm centres.

Ceiling: 12mm SUPALUX® boards (5), fastened with 50mm x No.8 self-drilling, self-tapping screws (6), at 300mm centres.

Infill: Mineral wool (7), minimum 50mm thick x 45kg/m³ or 40mm thick x 60kg/m³. Mineral wool must not overlap the flanges of the joists.

NB: The joist sizes and centres, together with the flooring thickness and grade, must be determined for the required span, point and distributed load of the mezzanine floor.

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