



**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:** 9mm SUPALUX®<sup>®</sup>, 100mm wide **(3)**, fastened under all steel joists using 25mm x No.8 self-drilling, self-tapping screws **(4)** at 600mm centres.

**Ceiling:** 9mm SUPALUX®<sup>®</sup> boards **(5)**, fastened with 30mm x No.8 self-drilling, self-tapping screws **(6)**, at 300mm centres.

**Infill:** Mineral wool infill is not required, but if included, should 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.

**AUTHORITY:** Promat Recommendation

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