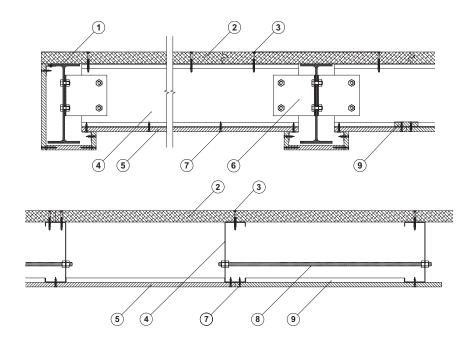
Date:14/11/2022

Version: 2.0



SUPPORTING STEEL FRAME

Promat

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 normally be achieved using 15mm PROMATECT®-250 for section factors of up to 135m⁻¹ for 60 minutes, or for section factors of up to 350m⁻¹ for 30 minutes. 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 minimum 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. The lower web of each pair of joists (8) is connected at midspan by a steel threaded rod tie bar, nuts and washers. These are typically M12.

FLOORING

38mm thick x 600mm wide Flooring Grade
P6 Chipboard 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 300mm centres (2 fixings per board at each joist
position). Board joints to coincide with joists, and staggered
between panels.

CEILING

15mm thick x 2500mm x 1200mm PROMATECT® 250 boards (5), fastened parallel to the joists (with staggered transverse joints) using 32mm self-drilling drywall screws (7), at nominal 200mm centres.

BACKING STRIPS

15mm thick x 100mm wide PROMATECT® 250 cover strips (9) are placed over the transverse joints between the joists, tightly wedged into position (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











