

1. Assumptions and Limitations

It is assumed that the proposed assembly will be installed to a suitable fire resisting structure, such as a masonry or reinforced concrete structure, which can provide the required supporting fire resistance period. The materials and constituents of the proposed assembly are in a similar manner and quality as tested or otherwise appraised by Forte Testing and Consultants Company Limited (FORTE). This assessment may only be reproduced in full by the applicant.

2. Background

2.1 FORTE Test Report No. IT16-186

A fire resistance test was conducted by FORTE in accordance with BS EN 1364-1: 1999 on a non-loadbearing gypsum block wall with "Jumbo" blocks of overall size 3000 mm (width) x 3040 mm (height), to determine its fire resistance performance. The test sponsor was Fujian Jumbo New Material Corporation Limited. Each "Jumbo" gypsum block had overall sized 600 mm (w) x 500 mm (h) x 80 mm (thick). All the blocks were joined by Jumbo gypsum bonding powder, which was premixed plaster, of nominally 3-5 mm (t). The blocks were laid up to 3040 mm height with overlapping staggered joints. The gypsum block wall system was supported on three sides. The wall was tested with freedom of movement (Free edge) along one of its vertical edge. The 40 mm gap of free edge between the specimen and the support frame was sealed with mineral fibre. The specimen satisfied the integrity and insulation of 241 minutes. The test was terminated after the heating period of 242 minutes. Full constructions details of the specimen and the test results were recorded in the FORTE test report numbered IT16-186.
