

LETTER OF CONFORMITY BTC 16344LC

Duty Rating Estimation of a British Gypsum GypWall QUIET IWL Partition System

Partition Type

GypWall QUIET IWL constructed with two independent Gypframe 48 l 50 'I' Studs at 600mm centres lined both sides with a double layer of 15mm Gyproc SoundBloc, forming an overall partition width of 200mm.

Purpose of LC

The exact system described above has not been tested in accordance with BS5234: Part 2: 1992. However, experience has shown that there are three factors in determining the duty rating achievable by a GypWall metal stud partition:

Perforation by a small hard body impactor: The performance of a partition, when subjected to this test, is a function of the board lining and in extreme examples the stiffness of the stud. Testing, on a range of GypWall Partition Systems has shown that the minimum board requirement, to achieve Severe Duty, for a double layer solution, is 2 x 12.5mm Gyproc WallBoard. Therefore, based on the proposed lining of 2 x 15mm Gyproc SoundBloc the linings are capable of achieving a pass at Severe Duty.

Partition Stiffness: The stiffness of the metal stud can influence the system duty rating. However, so long as the height of the partition does not exceed the maximum calculated using the limiting deflection criteria of L/240 @ 200 Pa, the system is capable of meeting the Severe Duty stiffness requirements.

Door Slam: The door slamming requirements are achieved through closely following the approved door detail specification available from British Gypsum. Testing, on a range of GypWall Partition Systems, has shown where this detail is followed and incorporates a stud, channel and board combination which meets the criteria of the other elements of the required duty rating, the equivalent duty rating will be achieved. Therefore the proposed system is capable of meeting the Severe Duty door slam requirements.

RESULTS

Duty Rating = Severe

Customer: British Gypsum Limited

LIMITATIONS

This letter is issued based on the information to hand at the time of issue. If any contradictory evidence becomes available to the test house then the letter will be unconditionally withdrawn. Similarly, the letter is invalidated if the proposed construction is subsequently tested since actual test data takes precedence over an expressed opinion. The opinion and interpretations expressed in this letter are outside the scope of the UKAS accreditation.

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