

LETTER OF CONFORMITY BTC 316LC

PARTITION GRADE ESTIMATION OF GYPROC STAGGERED STUD PARTITIONS INCORPORATING SINGLE LAYER 15MM GYPROC SOUNDBLOC.

PARTITION DESCRIPTION

Gyproc 60I70 or 92I90 staggered metal stud at 300mm centres clad each side with single layer 15mm Gyproc SoundBloc, with or without Isowool insulation in the stud cavity.

The exact systems described above have not been subjected to partition grade tests in accordance with BS5234: Part 2: 1992. However, experience has shown that there are three determining factors in the partition grade achievable by a metal stud partition.

Perforation by a small hard body impactor: the hard body impact performance of a metal stud partition is a function of the board lining and in extreme examples the stiffness of the stud section. In the proposed cases it is reasonable to assume that the board lining configuration will withstand perforation at the Medium Duty impact energy level. Tests have shown that a single layer of 12.5mm Gyproc Wallboard is capable of withstanding the perforation and so the proposed lining should pass.

Partition stiffness: the stiffness of the partition system can influence the partition duty rating. However, so long as the height of the system as calculated using a limiting deflection criteria of $L/240$ for a UDL of 200 Pa is not exceeded then the partition system will meet the medium duty stiffness requirements.

Maximum height using 60I70, 3900mm.

Maximum height using 92I90, 5800mm.

Door slamming: The door slamming requirements can only be met by following closely the door detail specification available from British Gypsum Limited.

RESULT

Partition Grade = **MEDIUM DUTY**

Customer: British Gypsum Limited

LIMITATIONS

This letter is issued on the basis of 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 If any contradictory evidence becomes available to the test house then the letter will be unconditionally withdrawn.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 the actual test data is deemed to take precedence over an expressed opinion. The opinions and interpretations expressed in this letter are outside the scope of the NAMAS/UKAS accreditation.

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Date: 23-August-2000

Customer: British Gypsum Limited