The Building Test Centre British Gypsum Limited East Leake, Loughborough Leicestershire, LE12 6NP Tel. 0115 945 1564 Fax. 01509 856780



LETTER OF CONFORMITY **BTC 200LC**

Gyproc staggered stud partition incorporating Gyproc 92l90 metal studs at 300mm staggered centres, lined with a double layer of 15mm Gyproc SoundBloc with 50mm Gypglas 1200 in the cavity - SOUND INSULATION.

The system described above has not been subjected to an airborne sound insulation test in accordance with BS 2750:Part 3. However the same construction has been tested with 25 mm Gypglas 1200 in the cavity BGATR 1517 ($Rw = 62 \, dB$) and with 50 mm Gypglas 3205 in the cavity see test report BGATR 1522 (Rw = 64 dB) attached. From our testing experience we would expect the 50mm Gypglas 1200 cavity infill to lie between the two tested constructions showing a 1 dB drop in performance compared with the 50mm Gypglas 3205 result due to lesser density. _

RESULT

Rw = 63 dB

We would expect the spectral values to lie 1 dB lower than the values in BGATR 1522 with a variation of $\pm /-2$ dB.

LIMITATIONS

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 If contradictory evidence becomes available to the test house then the letter will be unconditionally withdrawn.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

Gypsum Company

issued by

Paul Howard B.Sc. (Hons.), MIOA

Test Services Manager

Ristand

Date:

20-May-96



Registered number: 209091

The information contained in this report is not intended to convey the complete and detailed fixing and/or application requirements of British Gypsum or other supplier's materials. For full specification details, please consult the latest relevant Company trade literature

Acoustics Test Report Number

1517

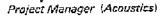
Date

04/07/90

LABORATORY AIRBORNE SOUND INSULATION MEASUREMENTS ON A 208mm STAGGERED STUD PARTITION WITH 25mm GYPGLAS 1200 IN THE CAVITY.

Test carried out for

British Gypsum Ltd. Marketing Dept.







British Gypsum Limited, Research & Development Department, East Leake, Loughborough, Leics, LE12 6JT, England. British Gypsum Limited registered in England (209091, registered office: Ruddington Hall, Ruddington, Nottingham) is a subsidiary of, and trades exclusively as an agent for, BPB United Kingdom Limited, Ruddington Hall, Ruddington, Nottingham.

ACOUSTIC TEST REPORT



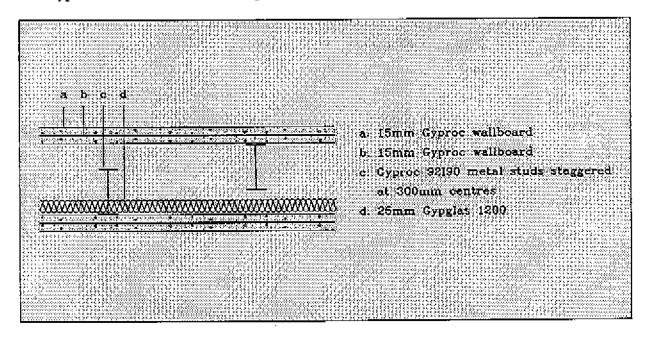
Test for British Gypsum Ltd, Marketing Department.

Laboratory Test Code = H422.11

Test Date = 12 June 1990

LABORATORY AIRBORNE SOUND INSULATION MEASUREMENTS ON A 208mm STAGGERED STUD PARTITION WITH 25mm GYPGLAS 1200 IN THE CAVITY.

Description: Gyproc 148C55 channel screw fixed to the head and base of the aperture at 600mm centres. Gyproc 146S55 stud screw fixed to the sides of the aperture at 600mm centres. Gyproc 92I90 stud located each side of the channel at 600mm centres, staggered by 300mm and held in place by I stud retaining clips. 25mm Gypglas 1200 (0.35 kg/m²) placed in the cavity. A double layer of 15mm Gyproc wallboard (12.83 kg/m²) screw fixed to each side of the metal stud frame. Joints of the outer 15mm Gyproc wallboard filled and the perimeter sealed with Gyproc Sealant.



RESULT:

Rw = 62 dB

STC = 63

dB(A) = 60.8

Tested in accordance with BS 2750:Part 3:1980, ISO 140/111-1978.

Test Data

3150 4000 1250 1600 2000 **Z5**00 1/3 Oct. 160 200 250 315 400 500 630 800 1000 125 67

Test Method: the test specimen (2.4m x 5.6m) is constructed in a wall dividing two reverberant rooms of approximately. 109m³. The accuracy of the test method conforms to BS 2750:Part 2:1980. Further information is available from the Acoustics laboratory.

Note: This laboratory test report is not a guarantee of on site performance which may be affected by associated structure when the construction is incorporated within a building. In addition, to achieve optimum sound insulation, all air paths must be scaled.







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1522

17/07/90

Acoustics Test Report Number

Date

LABORATORY AIRBORNE SOUND INSULATION MEASUREMENTS ON A 208mm STAGGERED STUD PARTITION WITH 50mm GYPGLAS 3205 IN THE CAVITY.

Test carried out for

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British Gypsum Ltd. Marketing Dept.

Project Manager (Acoustics)





British Gypsum Limited, Research & Development Department, East Leake, Loughborough, Leics. LE12 6JT, England.

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ACOUSTIC TEST REPORT



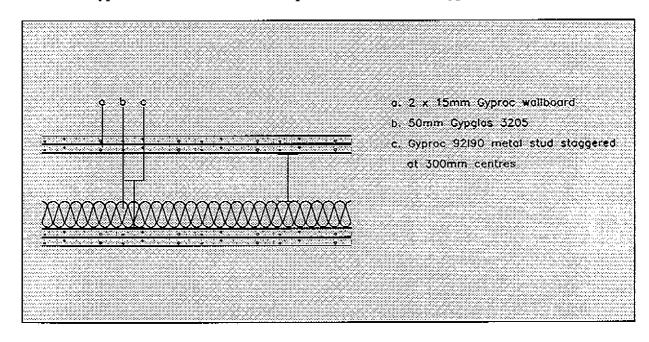
Test for: British Gypsum Ltd, Marketing Department.

Laboratory Test Code = H422.16

Test Date =13 July 1990

LABORATORY AIRBORNE SOUND INSULATION MEASUREMENTS ON A 208mm STAGGERED STUD PARTITION WITH 50mm GYPGLAS 3205 IN THE CAVITY.

Description: Gyproc 148C55 channel screw fixed to the head and base of the aperture at 600mm centres. Gyproc 146S55 stud screw fixed to the sides of the aperture at 600mm centres. Gyproc 92I90 stud located each side of the channel at 600mm centres, staggered by 300mm and held in place by I stud retaining clips. 50mm Gypglas 3205 (1.71 kg/m²) placed in the cavity. A double layer of 15mm Gyproc wallboard (10.21 kg/m²) screw fixed to each side of the metal stud frame. Joints of the outer 15mm Gyproc wallboard filled and the perimeter sealed with Gyproc Sealant.



RESULT:

Rw = 64 dB

STC = 64

dB(A) = 62.3

Tested in accordance with BS 2750:Part 3:1980, ISO 140/111-1978.

Test Data

1/3 oct. 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 5000 Hz R dB 39 43 51 51 53 59 64 67 68 70 72 74 73 69 63 62 66 70

Test Method: the test specimen (2.4m x 3.6m) is constructed in a wall dividing two reverberant rooms of approximately 109m³. The accuracy of the test method conforms to BS 2750:Part 2:1980. Further information is available from the Acoustics laboratory.

Note: This laboratory test report is not a guarantee of on site performance which may be affected by associated structure when the construction is incorporated within a building. In addition, to achieve optimum sound insulation, all air paths must be sealed.



P. ROYLE
Project Manager (Acoustics,

