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

1519

Date

04/07/90

LABORATORY AIRBORNE SOUND INSULATION MEASUREMENTS ON A 198mm STAGGERED STUD PARTITION WITH 25mm GYPGLAS 1200 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. 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



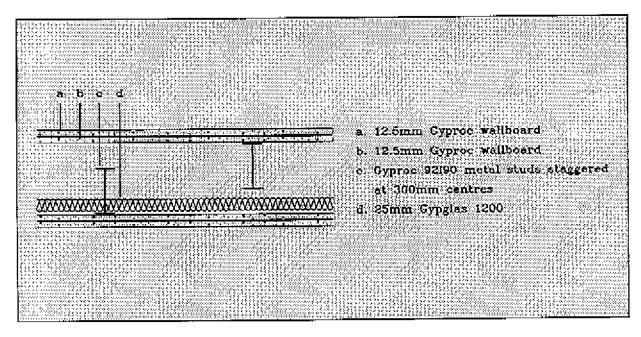
Test for: British Gypsum Ltd, Marketing Department.

Laboratory Test Code = H422.13

Test Date = 20 June 1990

LABORATORY AIRBORNE SOUND INSULATION MEASUREMENTS ON A 198mm 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 12.5mm Gyproc wallboard (10.21 kg/m²) screw fixed to each side of the metal stud frame. Joints of the onter layer of 12.5mm Gyproc wallboard filled and the perimeter scaled with Gyproc Sealant.



RESULT:

Rw = 61 dB

STC = 61

dB(A) = 58.5

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

Test Data

1250 1600 2000 2500 3150 4000 5000 Hz 500 630 800 1000 200 250 100 125 160 1/3 Oct. 67 71 68 61 63 65 70

The adverse deviation at 100 Kz is 9 dB.

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 scaled.









The Building Test Centre British Gypsum Limited East Leake Loughborough Leics. LE12 6NP Tel (0115) 945 1564 Fax (0115) 945 1562 email btc.testing@bpb.com web site www.btconline.co.uk

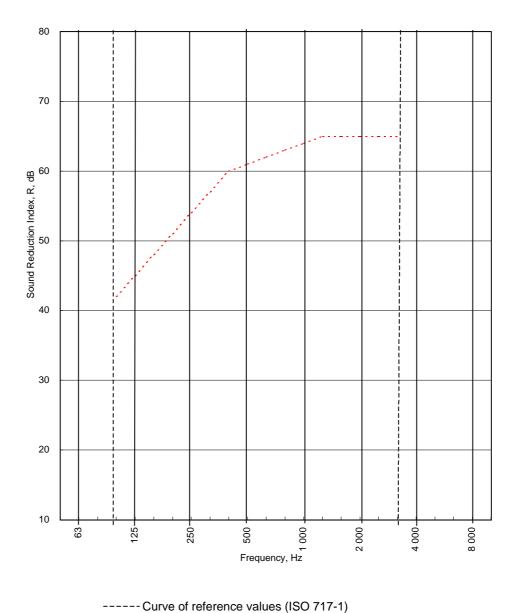
Addendum To BGATR 1519

Ctr CALCULATION

Freq Hz	Source dB	Rec. (uc) dB	Bgrnd dB	Rec. (corr) dB	Rev.time Sec	e Corr. dB	R dB	U.Dev. dB	R 1/1Oct dB
50 63 80 100 125 160 200 250 315 400 500 630 800 1 000 1 250 1 600 2 000 2 500 3 150 4 000 5 000	U.B.	ub.	QD.	QB.	Jec	U.S.	33.0 39.0 45.0 47.0 51.0 54.0 60.0 65.0 67.0 69.0 70.0 71.0 68.0 61.0	9.0 6.0 3.0 4.0 3.0 3.0	ub.
6 300 8 000 10 000 Single Fi	gure Ratinç				etr	Total U. D	Dev., dB	32	
BS EN ISO 717-1: 1997		997 dE 6'		dB d 3 -1	0 0	Calculated By:_Franklin Sanicharane			
Rw + Ctr = 51		1			-	Checked By: Bob Allen Test Standard: BS 2750: Part 3: 1980 Test Procedure: 2750/3 issue 4 Worksheet: ctr calculation.xls			

Test Code:
Test Date:

Freq. R Hz dB 50 63 80	
50 63	
63	
80	
100 33.0)]
125 39.0) ¦
160 45.0) ¦
200 47.0) :
250 51.0) [
315 54.0) ¦
400 60.0) {
500 64.0)
630 65.0) [
800 67.0	
1 000 69.0) ¦
1 250 70.0) ¦
1 600 71.0) [
2 000 71.0) [
2 500 68.0)
3 150 61.0) ;
4 000	
5 000	
6 300	
8 000	
10 000	



Rating according to RW (C;Ctr) = 61 (-3;-10) dB BS EN ISO 717-1:1997 Max dev. dB at Hz Evaluation based on laboratory $C_{50-3150}$ = dB $C_{50-5000}$ = dB $C_{100-5000}$ = dB measurement results obtained by an engineering method: $C_{tr,50-3150}$ = dB $C_{tr,50-5000}$ = dB $C_{tr,100-5000}$: dB