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

1514

17/04/90

Acoustics Test Report Number

Date

LABORATORY AIRBORNE SOUND INSULATION MEASUREMENTS ON A 122mm STAGGERED STUD PARTITION WITH 25mm GYPGLAS 1200 IN THE CAVITY.

Test carried out for

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.

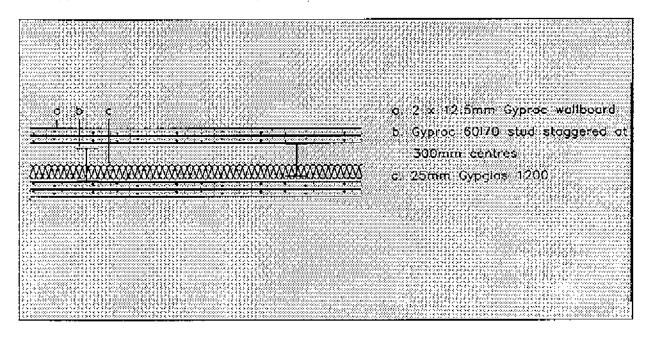
Laboratory Test Code = H422.8

**Test Date** = 12 April 1990



LABORATORY AIRBORNE SOUND INSULATION MEASUREMENTS ON A 122mm STAGGERED STUD PARTITION WITH 25mm GYPGLAS 1200 IN THE CAVITY.

Description: Gyproc 72C55 channel screw fixed to the head and base of the aperture at 600mm centres. Gyproc 70S55 stud screw fixed to the sides of the aperture at 600mm centres. Gyproc 60I70 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 (0.38 kg/m<sup>2</sup>) placed in the cavity. A double layer of staggered 12.5mm Gyproc wallboard (10.09 kg/m<sup>2</sup>) screw fixed to each side of the metal stud frame. Joints of the outer 12.5mm Gyproc wallboard filled and the perimeter sealed with Gyproc Sealant.



RESULT:

Rw = 57 dB

STC = 58

dB(A) = 54.5

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

## Test Deta

1/3 Oct. 100 125 160 260 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 5000 N≥ R dB 28 35 41 44 49 50 55 61 62 67 69 70 72 72 66 58 62 65

\* = result suppressed by the limits of the laboratory owing to the high performance of the sample.

Test Method: the test specimen (2.4m x 3.6m) is constructed in a wall dividing two reverberant rooms of approximately 109 m<sup>3</sup>. The accuracy of the test method conforms to BS 2750:Part 2:1980. Further information is available from the Acoustic 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.









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 1514

## Ctr CALCULATION

Freq Hz	Source dB	Rec. (uc) dB	Bgrnd dB	Rec. (corr) dB	Rev.tim 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 2 500 3 150 4 000 5 000 6 300 8 000							28.0 35.0 41.0 44.0 49.0 50.0 61.0 62.0 67.0 69.0 72.0 72.0 66.0 58.0	10.0 6.0 3.0 3.0 1.0 3.0 1.0	
Single Figure Ratings BS EN ISO 717-1: 1997			C		tr B 1	Total U. D			
Rw +	Ctr = 4	6				Calculated By:_Fran Checked By:_Bob Test Standard: BS 2 Test Procedure: 278 Worksheet: ctr calculated	Allen 2750: Part 50/3 issue	: 3: 1980	

Test Code:
Test Date:

Freq.	R			
Hz	dB			
50	ub ub			
63				
80				
100	28.0			
125	25.0			
160	44.0			
	<del> </del>			
200	44.0			
250	49.0			
315	50.0			
400	55.0			
500	61.0			
630	62.0			
800	67.0			
1 000	69.0			
1 250	70.0			
1 600	72.0			
2 000	72.0			
2 500	66.0			
3 150	58.0			
4 000				
5 000				
6 300				
8 000				
10 000				

