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

the building test centre

LETTER OF CONFORMITY
BTC 198LC

Gyproc staggered stud partition incorporating Gyproc 92I90 metal studs at 300mm staggered centres, lined with a double layer of 12.5mm 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 25mm Gypglas 1200 in the cavity BGATR 1519 (Rw = 61 dB) and with 50mm Gypgles 3205 in the cavity see test report BGATR 1524 (Rw = 63 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 = 62 dB

We would expect the spectral values to lie 1 dB lower than the values in BGATR 1524 with a variation of +/- 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 If contradictory evidence becomes available to the test house then the letter will be unconditionally withdrawn.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.

Issued by

Paul Howard **B.Sc. (Hons.) , MIOA**
Test Services Manager

Date: 20-May-96

The Building Test Centre
Fire Acoustics Structures

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 ATR 1524

Ctr CALCULATION

Freq Hz	Source dB	Rec. (uc) dB	Bgrnd dB	Rec. (corr) dB	Rev.time Sec	Corr. dB	**R dB**	U.Dev. dB	R 1/1Oct dB
50									
63									
80									
100							**36.0**	8.0	
125							**40.0**	7.0	
160							**47.0**	3.0	
200							**50.0**	3.0	
250							**53.0**	3.0	
315							**57.0**	2.0	
400							**62.0**		
500							**66.0**		
630							**68.0**		
800							**70.0**		
1 000							**72.0**		
1 250							**74.0**		
1 600							**75.0**		
2 000							**74.0**		
2 500							**72.0**		
3 150							**64.0**	3.0	
4 000							**66.0**		
5 000							**69.0**		
6 300									
8 000									
10 000									

Single Figure Ratings	**Rw**	**C**	**Ctr**	**Total U. Dev., dB**	**29**
BS EN ISO 717-1: 1997	**dB**	**dB**	**dB**		
	63	**-3**	**-9**		

Rw + Ctr = 54

Calculated By:_ Franklin Sanicharane

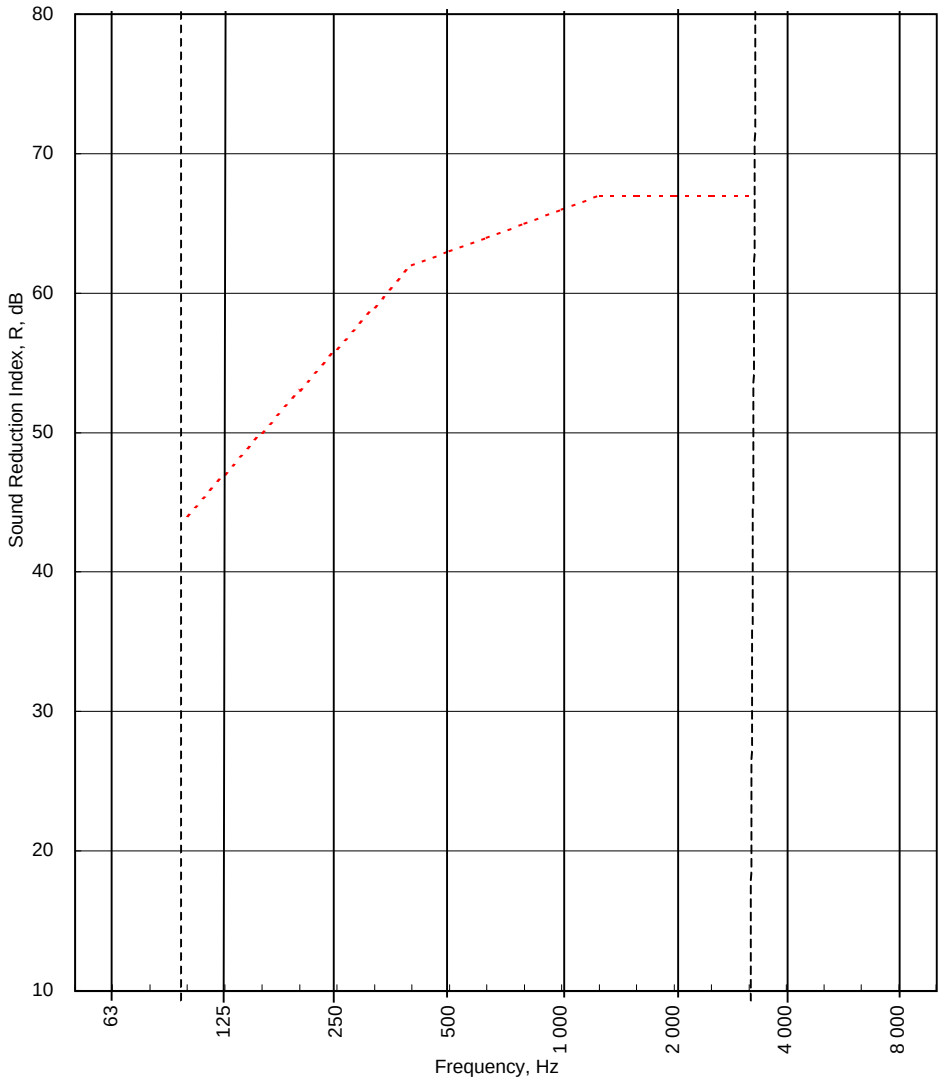
Checked By:__ Bob Allen

Test Standard: BS 2750: Part 3: 1980
Test Procedure: 2750/3 issue 4

Worksheet: ctr calculation.xls

Test Code:
Test Date:

Freq. Hz	R dB
50	
63	
80	
100	36.0
125	40.0
160	47.0
200	50.0
250	53.0
315	57.0
400	62.0
500	66.0
630	68.0
800	70.0
1 000	72.0
1 250	74.0
1 600	75.0
2 000	74.0
2 500	72.0
3 150	64.0
4 000	66.0
5 000	69.0
6 300	
8 000	
10 000	



------ Curve of reference values (ISO 717-1)

Rating according to
BS EN ISO 717-1:1997

Rw (C;Ctr) = 63 (-3;-9) dB

Max dev. dB at Hz

Evaluation based on laboratory measurement results obtained by an engineering method:

$C_{50\text{-}3150}$= **dB** $C_{50\text{-}5000}$= **dB** $C_{100\text{-}5000}$= **dB**

$C_{tr,50\text{-}3150}$= **dB** $C_{tr,50\text{-}5000}$= **dB** $C_{tr,100\text{-}5000}$: **dB**