

ACOUSTIC REPORT

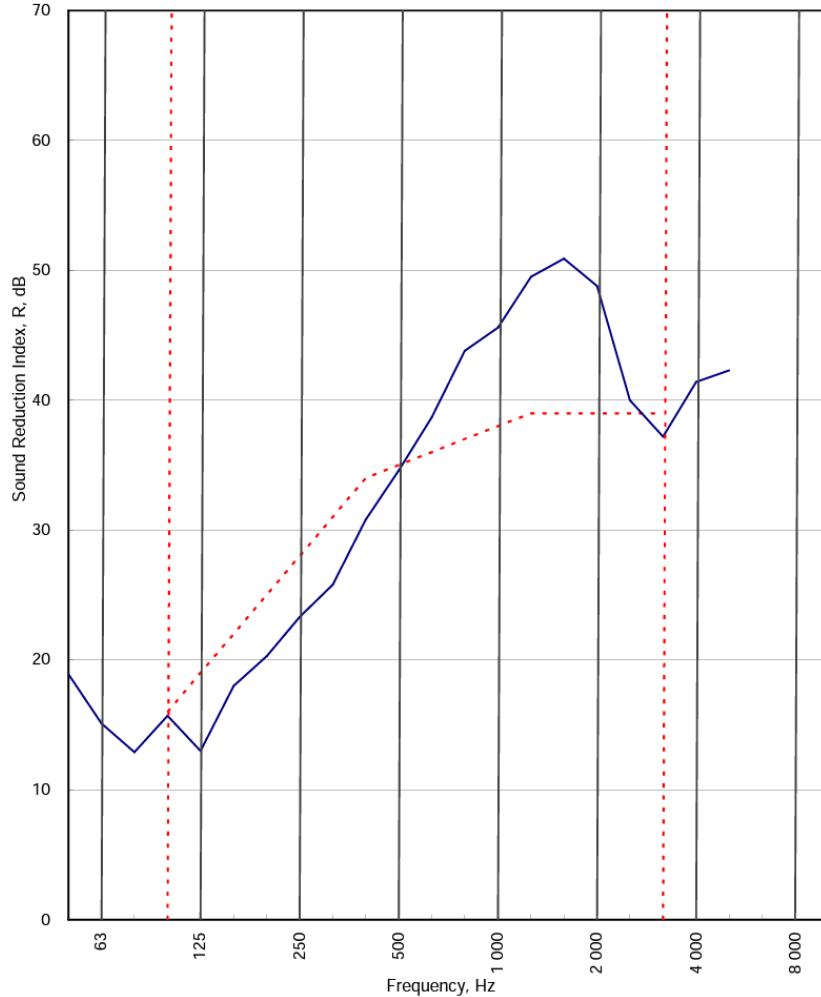
REPORT NUMBER: BTC 15537A  
 REPORT WALL TYPE REFERENCE: H15578A  
 DATE OF TEST: 10/12/2007



<b>H15578A</b>	<b>Single layer of 12.5mm Gyproc WallBoard (ex East Leake) on a 50mm metal stud frame</b>	<b>35 (-2;-7) dB</b>
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Test Code: <b>H15578AA</b>
Test Date: <b>12/12/07</b>

Freq. Hz	R dB
50	18.9
63	15.1
80	12.9
100	15.7
125	13.0
160	18.0
200	20.3
250	23.3
315	25.8
400	30.8
500	34.6
630	38.7
800	43.8
1 000	45.6
1 250	49.5
1 600	50.9
2 000	48.8
2 500	40.0
3 150	37.2
4 000	41.4
5 000	42.3
6 300	
8 000	
10 000	



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

Rating according to BS EN ISO 717-1:1997	<b>R<sub>w</sub> (C;Ctr) = 35 (-2;-7) dB</b>		
	Max dev. 6 dB at 125 Hz		
Evaluation based on laboratory measurement results obtained by an engineering method:	C <sub>50-3150</sub> = -2 dB	C <sub>50-5000</sub> = -2 dB	C <sub>100-5000</sub> = -1 dB
	C <sub>tr,50-3150</sub> = -8 dB	C <sub>tr,50-5000</sub> = -8 dB	C <sub>tr,100-5000</sub> = -7 dB

Customer: CMH Design and Consultancy Services Limited

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**ACOUSTIC REPORT**

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 DATE OF TEST: 10/12/2007



LABORATORY AIRBORNE SOUND INSULATION TEST - BS EN ISO 140-3:1995										
Test Code: <b>H15578AA</b>		Test Date: <b>12/12/07</b>								
Specimen Area, S = <b>8.64</b> m <sup>2</sup>		Room T2		Room T1						
		Room Volume, m <sup>3</sup> : <b>98</b>		Room Volume, m <sup>3</sup> : <b>60.35</b>						
		Temperature, deg.C: <b>14.6</b>		Temperature, deg.C: <b>14.8</b>						
		Rel. Humidity, %RH: <b>46.2</b>		Rel. Humidity, %RH: <b>44.8</b>						
Freq Hz	Test Room T2 to Test Room T1						R dB	U.Dev. dB	R 1/1Oct dB	
	Source dB	Rec. (uc) dB	Bgrnd dB	Rec. (corr) dB	Rev.time Sec	Corr. dB				
50	60.9	40.1	14.9	40.1	0.72	-1.9	18.9			
63	64.6	49.7	16.9	49.7	1.17	0.2	15.1		15.0	
80	71.5	58.1	10.4	58.1	0.99	-0.5	12.9			
100	84.0	68.0	27.3	68.0	1.05	-0.3	15.7	0.3		
125	102.7	89.1	11.7	89.1	0.97	-0.6	13.0	6.0	15.1	
160	108.1	90.1	12.8	90.1	1.11	0.0	18.0	4.0		
200	94.1	74.0	19.7	74.0	1.17	0.2	20.3	4.7		
250	96.0	73.4	9.9	73.4	1.32	0.7	23.3	4.7	22.6	
315	96.2	71.2	12.7	71.2	1.33	0.8	25.8	5.2		
400	95.0	64.8	22.2	64.8	1.29	0.6	30.8	3.2		
500	93.0	58.9	10.6	58.9	1.25	0.5	34.6	0.4	33.6	
630	92.1	54.3	4.9	54.3	1.37	0.9	38.7			
800	92.7	50.3	5.1	50.3	1.55	1.4	43.8			
1 000	92.3	47.9	5.3	47.9	1.46	1.2	45.6		45.7	
1 250	93.5	45.3	6.9	45.3	1.52	1.3	49.5			
1 600	96.1	46.3	3.2	46.3	1.43	1.1	50.9			
2 000	97.7	50.0	3.3	50.0	1.43	1.1	48.8		43.9	
2 500	96.2	56.5	3.0	56.5	1.20	0.3	40.0			
3 150	95.3	58.3	4.5	58.3	1.16	0.2	37.2	1.8		
4 000	97.1	55.6	4.9	55.6	1.08	-0.1	41.4		39.7	
5 000	101.0	58.4	6.9	58.4	1.04	-0.3	42.3			
6 300										
8 000										
10 000										
<b>Single Figure Ratings</b>		<b>Rw</b>	<b>C</b>	<b>Ctr</b>	<b>Total U. Dev., dB</b>			<b>30.3</b>		
<b>BS EN ISO 717-1: 1997</b>		<b>dB</b>	<b>dB</b>	<b>dB</b>						
		<b>35</b>	<b>-2</b>	<b>-7</b>						
		<b>(100-5000)</b>	<b>-1</b>	<b>-7</b>						
		<b>(50-3150)</b>	<b>-2</b>	<b>-8</b>						
<b>RT's &gt; factor 1.5 apart</b>		<b>(50-5000)</b>	<b>-2</b>	<b>-8</b>						
					Procedure: ISO140/3/A - issue 1					
					Worksheet: 140_3_1.XLS					

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