

BS EN ISO 354:2003

Acoustics - Measurement of absorption in a reverberation room

Client: GIK Acoustics Europe
Unit A, Perseverance Mills
Giles Street, Wibsey
BD6 3HS

Object: "Polyfusor"

Please note that the percentage relative humidity is below the required minimum of 30% as specified in BS EN ISO 354:2003, clause 6.3.2
Also please note that this test report is not UKAS accredited

Number of Samples: 8

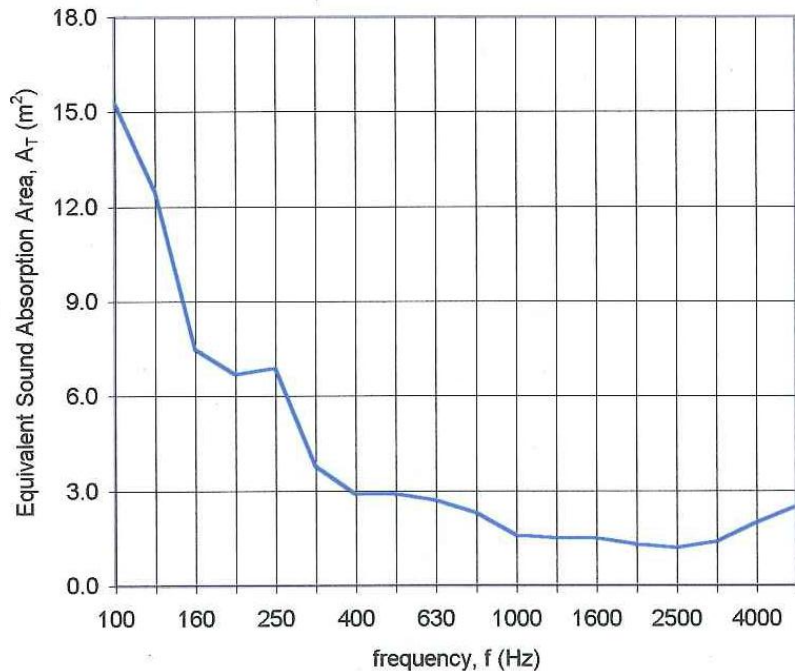
Receiving room:

Volume: 220 m³
Condition: clean
Type: large reverberation room
Location: acoustic transmission suite

Sample out: Temperature [°C]: 23.9 Humidity [%]: 23.5
Sample in: Temperature [°C]: 22.3 Humidity [%]: 28.3

Equivalent Sound Absorption Area A_T

Frequency Hz	A_T m ²
100	15.3
125	12.5
160	7.5
200	6.7
250	6.9
315	3.8
400	2.9
500	2.9
630	2.7
800	2.3
1000	1.6
1250	1.5
1600	1.5
2000	1.3
2500	1.2
3150	1.4
4000	2.0
5000	2.5



Test reference number: 1772-1890

Date: 27/04/15

Temp empty room: 23.9
 Temp sample room: 22.3
 Volume of room: 220
 Measured Length (mm) 1000
 Measured Width (mm) 8000
 Surface area of sample: 8.00

1772-1890

freq (Hz)	T ₁ empty	T ₂ sample	alpha 1	alpha 2	m1	m2	A ₁	A ₂	A _T	A _T / N
40	7.31	3.89	9.10E-05	8.04E-05	2.09E-05	1.85E-05	4.8	9.1	4.3	0.54
50	6.11	3.65	1.39E-04	1.23E-04	3.21E-05	2.84E-05	5.7	9.7	4.0	0.50
63	4.12	2.28	2.14E-04	1.91E-04	4.94E-05	4.39E-05	8.5	15.5	7.0	0.88
80	4.48	2.03	3.29E-04	2.95E-04	7.57E-05	6.79E-05	7.8	17.3	9.5	1.19
100	4.60	1.54	4.80E-04	4.34E-04	1.11E-04	9.99E-05	7.6	22.9	15.3	1.91
125	4.54	1.75	6.80E-04	6.22E-04	1.57E-04	1.43E-04	7.6	20.1	12.5	1.56
160	3.84	2.12	9.60E-04	8.90E-04	2.21E-04	2.05E-04	9.0	16.5	7.5	0.94
200	3.84	2.23	1.26E-03	1.18E-03	2.89E-04	2.72E-04	8.9	15.6	6.7	0.84
250	3.80	2.18	1.58E-03	1.51E-03	3.64E-04	3.47E-04	9.0	15.9	6.9	0.86
315	4.14	2.88	1.94E-03	1.87E-03	4.46E-04	4.30E-04	8.1	11.9	3.8	0.48
400	4.19	3.13	2.34E-03	2.27E-03	5.38E-04	5.22E-04	7.9	10.8	2.9	0.36
500	4.62	3.36	2.78E-03	2.69E-03	6.39E-04	6.19E-04	7.1	10.0	2.9	0.36
630	4.67	3.43	3.37E-03	3.24E-03	7.76E-04	7.45E-04	6.9	9.6	2.7	0.34
800	4.62	3.55	4.25E-03	4.02E-03	9.78E-04	9.27E-04	6.8	9.1	2.3	0.29
1000	4.32	3.65	5.48E-03	5.12E-03	1.26E-03	1.18E-03	7.0	8.6	1.6	0.20
1250	4.04	3.52	7.36E-03	6.77E-03	1.70E-03	1.56E-03	7.2	8.7	1.5	0.19
1600	3.68	3.25	1.07E-02	9.65E-03	2.45E-03	2.22E-03	7.4	8.9	1.5	0.19
2000	3.25	2.99	1.53E-02	1.38E-02	3.53E-03	3.17E-03	7.7	9.0	1.3	0.16
2500	2.76	2.63	2.26E-02	2.01E-02	5.20E-03	4.63E-03	8.2	9.4	1.2	0.15
3150	2.26	2.17	3.42E-02	3.03E-02	7.88E-03	6.99E-03	8.7	10.1	1.4	0.18
4000	1.80	1.74	5.29E-02	4.69E-02	1.22E-02	1.08E-02	8.8	10.8	2.0	0.25
5000	1.38	1.35	7.95E-02	7.06E-02	1.83E-02	1.63E-02	9.4	11.9	2.5	0.31
6300	1.16	1.15	1.20E-01	1.07E-01	2.77E-02	2.47E-02	6.0	8.9	2.9	0.36
8000	0.84	0.84	1.81E-01	1.64E-01	4.17E-02	3.77E-02	5.2	8.9	3.7	0.46
10000	0.58	0.59	2.60E-01	2.38E-01	5.98E-02	5.48E-02	8.1	11.7	3.6	0.45