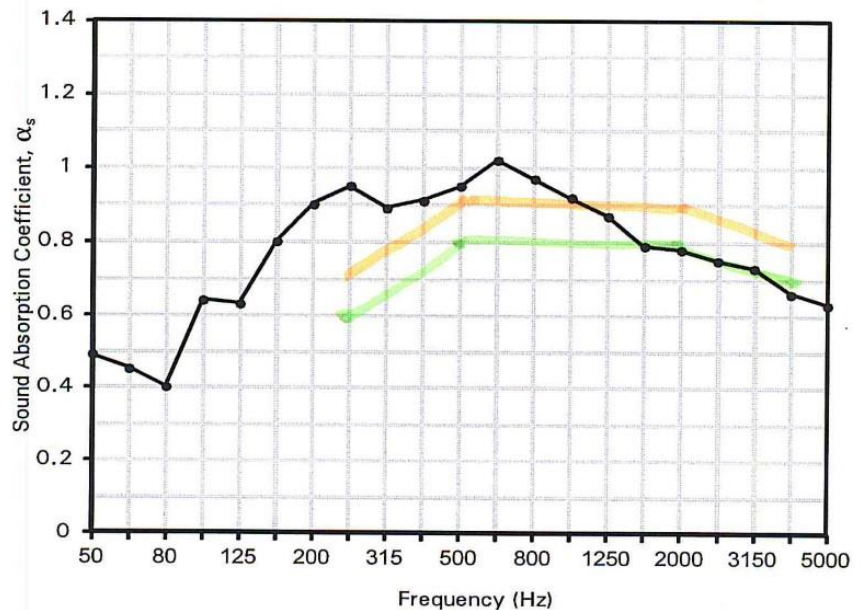


Sound Absorption Coefficient according to BS EN ISO 354:2003

Test No. L/3347/2 Date of Test: 4 August 2015
 Client: BCL Timber Projects
 Specimen: Timber Slat Faced Panels – Types A, B and C with 50 mm Insulation
 Installed by: BCL Timber Projects
 Specimen area: 10.8 m² Mass per unit area: 7.0 kg/m²

| Chamber Conditions | Volume | Air Temperature | Relative Humidity | Air Pressure |
|-----------------------|--------------------|-----------------|-------------------|--------------|
| Empty Chamber | 221 m ³ | 20°C | 70% | 999 mbar |
| Chamber with Specimen | 221 m ³ | 20°C | 70% | 996 mbar |

| Frequency (Hz) | α_s | α_p |
|----------------|------------|------------|
| 50 | 0.49 | |
| 63 | 0.45 | 0.45 |
| 80 | 0.40 | |
| 100 | 0.64 | |
| 125 | 0.63 | 0.70 |
| 160 | 0.80 | |
| 200 | 0.90 | |
| 250 | 0.95 | 0.90 |
| 315 | 0.89 | |
| 400 | 0.91 | |
| 500 | 0.95 | 0.95 |
| 630 | 1.02 | |
| 800 | 0.97 | |
| 1000 | 0.92 | 0.90 |
| 1250 | 0.87 | |
| 1600 | 0.79 | |
| 2000 | 0.78 | 0.75 |
| 2500 | 0.75 | |
| 3150 | 0.73 | |
| 4000 | 0.66 | 0.65 |
| 5000 | 0.63 | |
| 6300 | | |
| 8000 | | |
| 10000 | | |



See Appendix A5 for Reverberation Times of Empty Chamber and Chamber with Specimen

Rating according to BS EN ISO 11654:1997

$\alpha_w = 0.80$ (L)

Sound Absorption Class: B

Approved by:

Report Author:

Eur Ing D L Watts BEng CEng FIOA
Principal Consultant

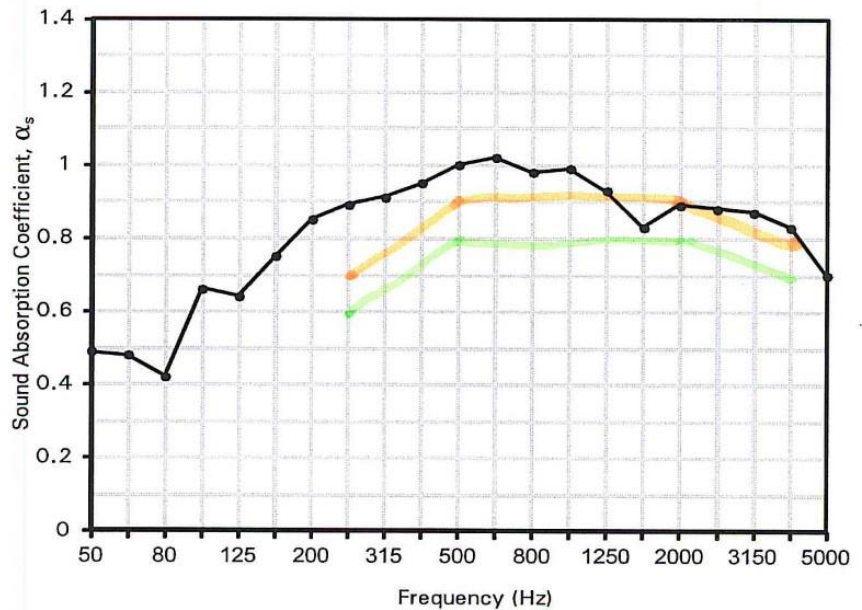
M Sawyer MIOA
Laboratory Supervisor

Sound Absorption Coefficient according to BS EN ISO 354:2003

Test No. L/3347/3 Date of Test: 4 August 2015
 Client: BCL Timber Projects
 Specimen: Timber Slat Faced Panels – Type C with 50 mm Insulation
 Installed by: BCL Timber Projects
 Specimen area: 10.8 m² Mass per unit area: 7.1 kg/m²

| Chamber Conditions | Volume | Air Temperature | Relative Humidity | Air Pressure |
|-----------------------|--------------------|-----------------|-------------------|--------------|
| Empty Chamber | 221 m ³ | 20°C | 70% | 999 mbar |
| Chamber with Specimen | 221 m ³ | 20°C | 70% | 997 mbar |

| Frequency (Hz) | α_s | α_p |
|----------------|------------|------------|
| 50 | 0.49 | |
| 63 | 0.48 | 0.45 |
| 80 | 0.42 | |
| 100 | 0.66 | |
| 125 | 0.64 | 0.70 |
| 160 | 0.75 | |
| 200 | 0.85 | |
| 250 | 0.89 | 0.90 |
| 315 | 0.91 | |
| 400 | 0.95 | |
| 500 | 1.00 | 1.00 |
| 630 | 1.02 | |
| 800 | 0.98 | |
| 1000 | 0.99 | 0.95 |
| 1250 | 0.93 | |
| 1600 | 0.83 | |
| 2000 | 0.89 | 0.85 |
| 2500 | 0.88 | |
| 3150 | 0.87 | |
| 4000 | 0.83 | 0.80 |
| 5000 | 0.70 | |
| 6300 | | |
| 8000 | | |
| 10000 | | |



See Appendix A5 for Reverberation Times of Empty Chamber and Chamber with Specimen

Rating according to BS EN ISO 11654:1997

$\alpha_w = 0.90$ **Sound Absorption Class: A**

Approved by:

Report Author:

Eur Ing D L Watts BEng CEng FIOA
Principal Consultant

M Sawyer MIOA
Laboratory Supervisor