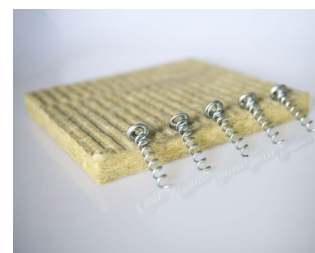


Spiralite

Sound reduction



BACKGROUND

In the majority of buildings insulation against external noise in excess of about 45dB is not called for. When higher insulation is required, either because of loud noise sources (as encountered near airports) or because of sensitive internal requirements eg. Concert halls, acoustic research labs, or recording studios, Spiralite can be used to reduce noise to an acceptable level, typical values are given in table 1. The sound reduction index is given in table 2 and shown on graph 1.

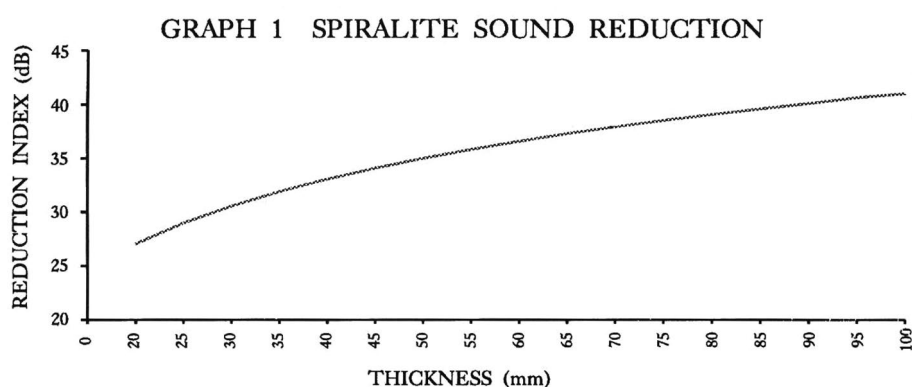


TABLE 1 – TYPICAL SOUND REDUCTION FIGURES

| Thickness | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz |
|-----------|-------|-------|-------|--------|--------|--------|
| 20mm | 12.0 | 18.0 | 24.0 | 30.0 | 36.1 | 42.1 |
| 30mm | 15.5 | 21.5 | 27.5 | 33.6 | 39.6 | 45.6 |
| 40mm | 18.0 | 24.0 | 30.0 | 36.1 | 42.1 | 48.1 |
| 50mm | 19.9 | 26.0 | 32.0 | 38.0 | 44.0 | 50.0 |

TABLE 2 – SOUND REDUCTION INDEX

| Thickness (mm) | 20 | 30 | 50 | 50 |
|----------------|------|------|------|------|
| Index (dB) | 27.0 | 30.6 | 33.1 | 35.0 |

For further information see Building Research Establishment digest 104,187,192, 206, 226, 333, 334, 337 and 338.

The information contained in Cryotherm data sheets is believed correct at the time of publication. Whilst we will endeavour to keep our publications up to date, readers will appreciate that between publications there may be pertinent changes in the law, or other developments affecting the accuracy of the information provided.

Date of this revision: 25/11/20