CMS acoustic SOLUTIONS

SOUNDCRADLE

Advantages

- *Approved as Doc E compliant for conversion and new build standards*
- *Approved for robust detail FFT2*
- *Ideal for precast and beam & block floors*
- *Can be built up to 540mm high (MAX)*
- *Simple and easy method of installation using cradle packers*
- *Cost effective by using recycled, sustainable, and standard building products*
- *Can be simply adjusted to accommodate uneven floor surfaces*
- *Unique interlocking cradle design enables a vast range of void depths to be achieved*
- *Combination of cradles and timber supports provides raised floor designs, including stairs*
- *Can be adjusted to accommodate varying service requirements*
- *Fully tested and certified to BS EN ISO 140-3*

Description

SoundCradle is a unique cradle and batten floor system (Type FFT2) that can be built up to a maximum height of 540mm. It has been approved for use with Robust Standard Detail floor construction types MF1 (E-FC-1), MF8 (E-FC-2) and SF2 (E-FS:1).

SoundCradle has been tested and is certified to provide the necessary acoustic insulation required for compliance with Part 'E' of the building regulations for these RSD floor types.

SoundCradle units comprise a resilient layer pre-bonded to and extruded cradle. They are designed to be used with battens 50mm (nominal) width and minimum 50mm high). They must be placed at maximum 450mm centres.

Specification

Size:	To suit 50mm nominal width battens
Thickness below batten:	10mm min
RSD compliance requirement dB ΔL_w:	17dB
SoundCradle rating dB ΔL_w:	28dB

Accessories

CMS flanking band must be used around the perimeter of floors laid with SoundCradle to ensure compliance.

Installation

CMS is able to offer a highly professional and cost effective installation service through qualified installation partners.

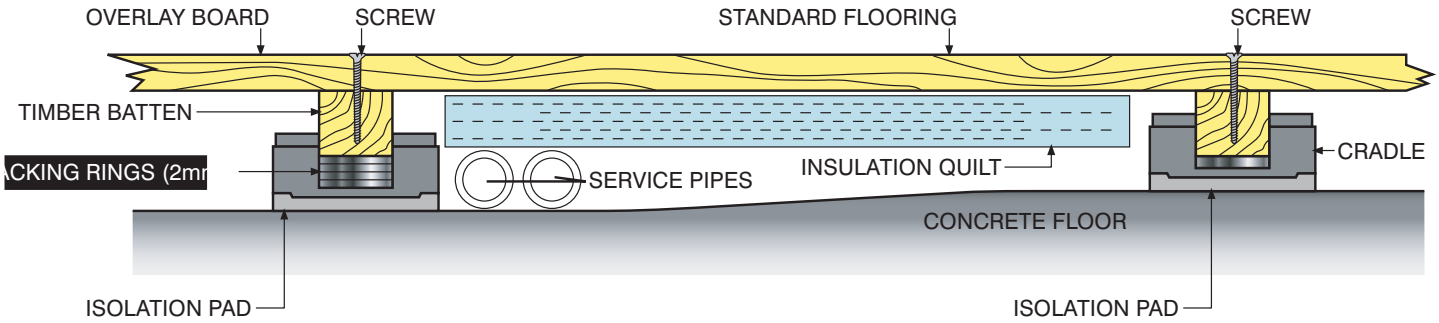
Installation guidelines are as follows:

1. Grout all joints between concrete planks.
2. Fill all voids between walls and floor.
3. Ensure that the concrete floor is level and clean.
4. Lay battens in SoundCradle cradles, spaced at 450mm (max) centres.
5. Ensure that the ends of the battens do not come into direct contact with walls.
6. Ensure that any services do not bridge the resilient layer.
7. Lay flooring board and butt panels tightly together.
8. Install CMS flanking band around the perimeter of the flooring board to isolate floor from walls and skirtings.

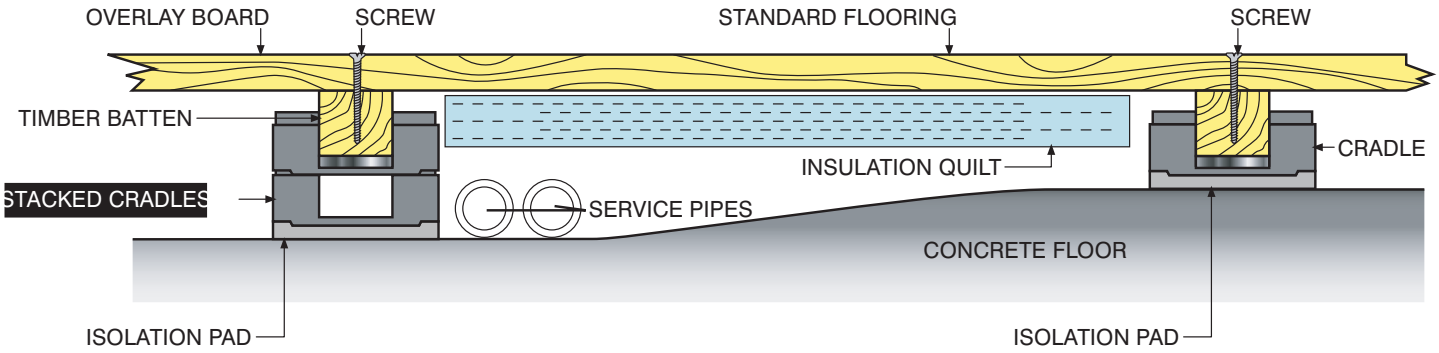
Cradle and Batten Spacings

Flooring type	Cradle Centres	Batten centres
18mm Chipboard	600mm	400mm
22mm Chipboard	600mm	600mm MAX

FOR **SHALLOW** INCLINE 2mm PACKING RINGS ARE USED

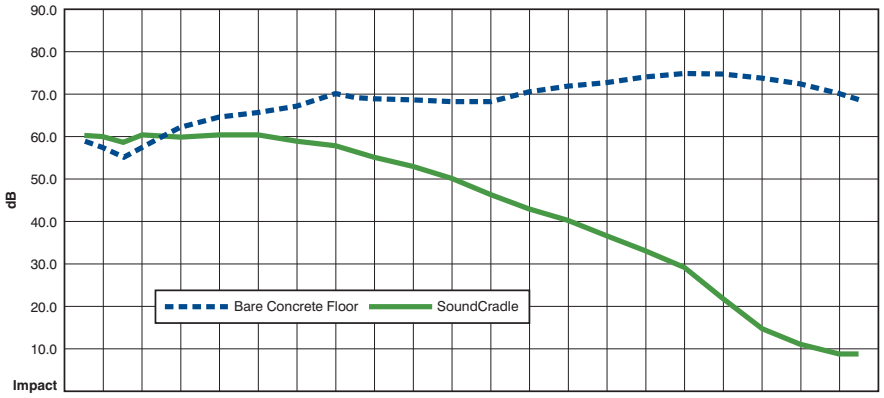


FOR **STEEP** INCLINE CRADLES CAN BE STACKED



Normalised Level Difference

STANDARDISED IMPACT SOUND PRESSURE LEVEL



Impact

Frequency (Hz)	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
Bare Concrete Floor	59.7	56.2	59.7	62.8	63.0	65.7	67.4	69.9	69.3	69.1	68.8	69.5	71.4	71.6	72.6	73.5	73.2	73.5	72.0	71.0	69.2
Level Pod 2000	59.4	58.8	60.7	59.7	60.2	59.8	58.4	56.1	53.2	51.8	48.7	44.4	41.2	38.1	34.6	31.7	25.7	18.4	12.4	9.3	8.9

	L_{nTw}
Building Regulations Requirement	62dB
Bare Concrete floor*	73dB
SoundCradle	45dB
Improvement	28dB
Robust Standards Requirements	17dB

Tests carried out by Sound Research Laboratories Ltd, UKAS accredited testing laboratory No. 0444, on a 150mm deep concrete floor with a 15mm thick sand/cement screed having a total mass of 335kg/m2. Tests carried out on the 14 February 2005. Report No. C/04/5L3162/1

* These are values based on the Laboratory results, recalculated to equate to the Building Regulations

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CADS 6015 - 1004