

Sigao

Batten & Cradle
Acoustic Flooring Systems Ltd

Batten and Cradle Newsletter

First Quarter 2011

Welcome to 2011! With the new year off to a start, we look forward to being involved in new projects around New Zealand by providing acoustic, ergonomic and aesthetic solutions to all projects. We would like to introduce our newsletter “*Sigao*”SM which we plan on emailing to those in the industry who wish to be kept up to date with and new information of Batten and Cradle developments.

Batten and Cradle Exceeds Design Criteria For Telepresence Room in Leading NZ Bank

Teleconferencing rooms require a high degree of acoustic soundproofing. Batten & Cradle was specified by one of the leading acoustic engineers in New Zealand.

Batten & Cradle Acoustic Flooring System was recently installed in a Video Teleconferencing Centre for one of NZ’s major banking institutions in the ANZ Centre Auckland CBD. The flooring system along with ceilings and walls needed to meet the following design criteria:

Criteria	Performance	Tolerance
Sound Insulation	STC 60	-
Ambient Noise	< 36 dBA	+9dB
	< 54 dBC	+9dB
	NC 30	-
Reverberation Time	0.5 secs	+0.2 secs

Sound insulation background noise level and reverberation time measurements were test-

Measurement Results	
CRITERIA	MEASURED PERFORMANCE
Sound Insulation	STC 61
Ambient Noise	30 dBA
	45 dBC
	NC23
Reverberation Time	0.5 secs

ed. Specific measurements were also undertaken to determine the design criteria specified by Cisco Systems Telepresence Guide. The listed results below indicate that the design criteria for the Telepresence Room was met.

Noise Reduction Coefficient—NRC

Rating that represents the amount of sound energy absorbed on contact with a surface. NRC is generally used to rate carpeting, ceiling tile, acoustic treatments, and other sound absorbing materials.

Sound Transmission Class—STC

Rating that represents the amount of sound energy required to transfer through a structure. An STC of 40 requires greater than 40 decibels of sound energy to transfer through the structure.

Impact Insulation Class—IIC

Rating similar to STC but is specific to flooring and ceilings. IIC measures the resistance to the transmission of impact noise such as footfall, chairs dragging, and dropped items. This measurement is specifically important to multi-floor buildings and plenum flooring. The IIC represents the amount of sound energy required to transfer sound through a structure. An IIC of 40 requires greater than 40 decibels of sound energy to travel through a structure.

Ambient Sound—dB (SPL)

All measurements are done using A-Weighting except when C-Weighting is specified.

Reverberation - RT(60)

High levels of reverberation can cause unwanted acoustic characteristics that potentially lower the acoustic qualities. Absence of all reverberation can leave the audio feeling flat and unnatural, also lowering the acoustics.

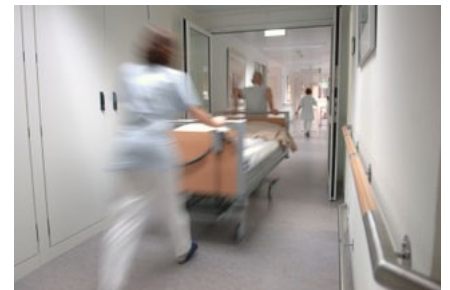
Batten and Cradle Recommended to Meet Requirements of Auckland University Drama Floor

When the Auckland University were looking for a new floor for their Drama School, they chose Batten and Cradle because it was a simple solution to minimise noise, provide flexibility, install services under the floor, as well as to counteract harmful heel shock which is more common in public areas than most people realise.

The biggest factor they required was the ability for the floor to be moved and reinstalled to a new location at a future date.

The 110m² project had a scheduled program of four days for installation and was completed in the designated timeframe to the highest satisfaction.

To View an Installation please follow [link](#)



Projects being quoted on and/or recommended to use Batten and Cradle:

-  Apartment Buildings in Auckland
-  Hamilton Girls High School– Drama and Gym Floor
-  Rural Farm house in Waikato
-  Dance Floor in Cambridge
-  Dance Floor in Kaikoura
-  Heritage Building in Auckland CBD
-  Telepresence Room in Auckland
-  Multi Storey Building– Wellington City

*“Sigao” (Greek Σιγάω) Pronounced **see-gah’o**. Definition: “To keep Silence”

AUCKLAND

20-22 Gundry Street
Newton, Auckland
PO Box 7045
Wellesley Street, Auckland 1141

NEW PLYMOUTH

PO Box 5074
Westown
New Plymouth

Phone: 09 302 2380

Fax: 09 302 2384

Email: info@battenandcradle.co.nz

www.battenandcradle.co.nz

 **Batten & Cradle**
Acoustic Flooring Systems Ltd