



# KOIKAS ACOUSTICS PTY LTD

**CONSULTANTS IN NOISE & VIBRATION**

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Date: 22 February 2010  
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Attention: Peter Levitski  
BNL Supply Company Pty Ltd

## **MEASURED SOUND PRESSURE LEVELS CHROME PLATED STEEL COOLROOM ALARM BELL**

Koikas Acoustics Pty Ltd was requested by Peter Levitski of BNL Supply Company Pty Ltd to undertake noise testing of a chrome plated steel type coolroom alarm bell in order to determine whether compliance is achieved with the Building Code of Australia (BCA) 2009 Section G1.2.

Section G1.2 of the BCA 2009 states that:

- (a) *A refrigerated or cooling chamber, strongroom or vault which is of sufficient size for a person to enter must have-*
- (iv) *an alarm that is-*
- (A) *located outside but controllable only from within the chamber, strongroom or vault; and*
- (B) *able to achieve a sound pressure level outside the chamber, strongroom or vault of 90 dB(A) when measured 3m from the sound device.*

Measurements were conducted using a Type 1 Svantek 912AE S/N2348 sound level meter spectrum analyser in a semi-reverberant field located adjacent to a typical coolroom area. The measurement equipment currently carries NATA calibration certification.

The resultant  $L_{max}$  sound pressure level of the chrome plated steel type coolroom alarm bell was found to be 94dB(A) at a distance of 3 metres.

Koikas Acoustics therefore certifies that the chrome plated steel type coolroom alarm bell supplied by BNL Supply Company Pty Ltd meets the requirements of the Building Code of Australia 2009 Section G1.2.

Yours sincerely,  
KOIKAS ACOUSTICS PTY LTD

Nick Koikas