

Acoustic Performance Assessment of a Product or System

Company Description

CSR Hebel - 39 Delhi Road, North Ryde NSW 2113

Product

CSR Hebel Wall Panel Systems

Assessment Number

PKA-A074

Project Number

211 037

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This firm is a member of the Association of Australian Acoustical Consultants.

The work reported herein has been carried out in accordance with the terms of membership. We stress that the advice given herein is for acoustic purposes only, and that the relevant authorities should be consulted with regard to compliance with regulations governing areas other than acoustics.

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CSR Hebel – 39 Delhi Road, North Ryde NSW 2113.

2 PRODUCT FOR ASSESSMENT

CSR Hebel Wall Panel Systems.

3 PRODUCT DESCRIPTION

CSR Hebel Wall Panels are precast reinforced autoclaved aerated concrete (AAC) panels for construction of walls where load bearing is not required. The panels are nominally of 500 kg/m³ density and are available in panels of 100mm to 200mm thickness and up to a maximum of 600mm wide. The jointing between panels is a tongue and groove profile where acoustic performance is required Hebel Adhesive must be applied as a sealant.

4 CLIENT REQUEST

To assess the airborne sound insulation of the CSR Hebel Wall Panel Systems of different configurations.

5 INFORMATION ON WHICH THE ASSESSMENT IS BASED

This assessment is based on the following information;

Test results for CSR Hebel Wall Panel Systems carried out by Louis A Challis and supported by the following test reports.

LAC 1345-90 LAC 1346-90 LAC 1348-90 LAC 1349-90 LAC 1373-90

LAC 1374-90

All of these tests relate to CSR Hebel Masonry of the same density as the wall panels. As thin bed adhesive is used for the masonry, it is assumed that the wall panel will behave in the same manner as in the tests carried out by Louis A Challis.

6 ASSESSMENT

CSR Hebel Wall Systems	Rw + Ctr	Rw
CSR Hebel Wall Panels without linings to either face 100mm thick 125mm thick 150mm thick 175mm thick 200mm thick 250mm thick	35 37 40 39 39 42	38 40 43 42 42 45

7 CONDITIONS

- The Assessment(s) above refer to the expected laboratory performance of the product or system(s), with each product or system only as described.
- The product or system must be constructed and installed according to the material manufacturer's instructions for acoustic-rated construction and be installed with good workmanship.
- No allowance is made for sound flanking that may occur in a field installation. With appropriate
 design, good workmanship and attention to detail, and ideal site conditions, Field Dn,tw
 performance can be broadly comparable to laboratory performance.
- This Assessment is only valid for a period of 5 Years from the date of issue.
- Any changes to the construction of the material(s) used in the product or the system(s) can invalidate this assessment. If changes are made then they should be checked for compliance.
- The Assessment is on the acoustic performance only, and that relevant authorities should be consulted in regards to the aspects of structural, fire, durability and all other areas of the products' or systems' performance.



BUILDING ACOUSTICS

INDUSTRIAL ACOUSTICS

MECHANICAL ACOUSTICS

OCCUPATIONAL NOISE SURVEYS

VIBRATION

AUDIO VISUAL

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