



Shelmerdines
Consulting Engineers

14 July 2010
KM/: 5583-DADC

Mirvac Projects Pty Ltd
Level 26
60 Margaret Sreet
SYDNEY NSW 2000

Attention: Mr E Kertawidjaja

Dear Sir

**BUILDING G, 7 RAILWAY STREET, CHATSWOOD
MECHANICAL SERVICES – DESIGN CERTIFICATION**

Pursuant to the provisions of Clause A2.2 of the Building Code of Australia, we confirm the design of the mechanical services for the above project will be in accordance with the requirements of the Building Code of Australia and relevant Australian Standards.

In particular, the design will be in accordance with the following:

- Australian Standards AS1668.1:1998, AS1668.2:1991 & AS3666.1.
- Building Code of Australia, Parts E2.2 & NSW F4.5(b), Section J Clause J3.5, Part J5 and NSW Clause J8.2.

The carpark ventilation will be designed in accordance with AS1668.2:2002, as an alternate solution, to reduce fan energy consumption.

The kitchen exhaust system discharging above the Railway Enclosure Structure will be designed in accordance with the deemed to satisfy requirements of AS1668.2:1991.

The mechanical services design will also include the following initiatives to minimise energy consumption:

- The apartments will be air conditioned via reverse cycle, water cooled, package units, in a day/night zone arrangement.
- The carpark ventilation fans shall be controlled via variable speed drives and a CO/NO₂ monitoring system.
- Cooling tower fans and condenser water pumps shall utilise variable speed control.

We trust that you find the above of assistance. Should you require any further information please contact the undersigned.

Yours faithfully
SHELMERDINES

Kevin Murray

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