

Our ref: 2304-02

Your ref.:

General Manager
Northern Beaches (Pittwater) Council
PO Box 882
Mona Vale NSW 1660
Australia

PARTIAL CERTIFICATE STRUCTURAL ENGINEERING

Address: **60 Cabarita Road, Avalon Beach, NSW, 2107**

Type of Building Work: **Alterations & Additions**

Subject of this short report: **Final Certificate**

1. Introduction

This certificate is based on the requirements of Northern Beaches (Pittwater) Council as the certification for the structural integrity, adequacy and construction of Swimming Pool Slab and respective retaining wall at the above address.

Pursuant to the provisions of Clause A2.2 of the Building Code of Australia, VDM, hereby certify that the design for the above address is in accordance with normal engineering practice and meets the requirements of the Building Code of Australia, (BCA), relevant Australian Standards and Northern Beaches (NBC) Council DCP (Pittwater 21 DCP). In particular the design is in accordance with the following:

- AS/NZS 1170.0:2002: *Structural design actions – General principles*,
- AS/NZS 1170.1:2002: *Structural design actions – Permanent, imposed and other actions*,
- AS/NZS 1170.1:2002: *Structural design actions – Wind actions*,
- AS 1170.4:2007: *Structural design actions – Earthquake actions in Australia*,
- AS 1926:2007: *Swimming pool safety*,
- AS 2870:2011: *Residential slabs and footings – Construction*,
- AS2783:1992: *Use of reinforced concrete for small swimming pools*,
- AS 3600:2018: *Concrete Structures Codes*,
- AS 3700:2018: *Masonry structures*,
- AS 3735-2001-*Concrete structures for retaining liquids*
- AS 4678:2002: *Earth retaining structures*,
- Safe Work Australia – *Safe Design of Structures – Code of Practice*,
- NBC – *Pittwater 21 DCP, LEP 2014*
- BCA - Building Code of Australia
- NCC – National Construction Code,
- Structural drawings – *refer to 60 cabarita rd Avalon beach_1*
- Principles of structural mechanics.

2. Site inspection

Critical stages inspections were carried out as follows:

- 26/02/2024 – Retaining walls, Pool slab - foundations + steel reinforcement, soil quality/properties,

Other minor inspections were carried out but no dates were recorded.

3. Conclusion

VDM hereby certifies that, the structural components associated with the construction of the swimming pool slab and respective retaining wall, at the above location, comply with the above mentioned standards and regulations.

This report, assessment, analyses and certification has been based on areas inspected in the building in consideration, any attempt to place these comments elsewhere shall require further analysis to ensure the integrity, adequacy and stability of the structure is maintain.

This certificate shall not construe as relieving any other party of their responsibilities, liabilities, or contractual obligations.

CERTIFICATION

Responsibility for this report is acknowledged as follows:

Name of person signing – Mario F. Benitez,
B.E.(Struct), MIEAust, 418917, DEP0003222

Position –Senior Structural Engineer

Name of responsible firm for and on behalf of person is signing for – VDM Consulting Engineers Pty. Ltd.



Digitally signed by Mario F.
Benitez
DN: cn=Mario F. Benitez, o=VDM
Consulting Engineers P/L, ou,
email=vdm1@optusnet.com.au,
c=AU
Date: 2024.07.18 16:35:27
+10'00'

Signature