

Our ref: 5556 -DC1

Date: 16 February 2022

**Site: 9 Vines Avenue Forestville**  
**Proposed Rear Pergola - Structural Design Certification**

This letter is to confirm that I have reviewed the design of the structural details provided for the proposed works (timber framed pergola) at the abovementioned address. The structural details of the works are found in the drawing(s) prepared by IQ Homes as stamped and attached with reference to this certificate.

In relation to construction the following notes are made:

- All work not covered in the design or in this certificate shall be made in accordance with AS1684.2 or otherwise contact the engineer;
- All fixings to be galvanised;
- All enclosed steelwork to be painted with minimum one coat of rust inhibitive primer;
- Pergola posts to be fixed to the existing deck framing bearers with 2M16 galvanised bolts with washers;
- Pergola posts to be fixed to the pergola edge beams with 2M16 galvanised bolts with washers;
- Pergola Rafters to be fixed to pergola beams with 2/ Framing Anchors;
- The connection of the pergola rafters to the existing dwelling are to be made in accordance with 'Detail P' contained on the drawings, and the manufacturers specifications;

Based on those drawings, and the notes on this certificate, I consider the details to be structurally adequate, and as such, the works satisfy the requirements of the relevant Australian Standards:

- AS1170.0, 1, and 2 – The Loading Code;
- AS1684.2 – Residential Timber Framing;
- AS1720 – Timber Structures;
- AS4055 – Wind Loads on Houses (for a design wind speed N1)
- AS3600 – Concrete Structures; and
- AS4100 – Steel Structures;

Furthermore, although some minor settlement may occur immediately or over time which may result in some cracking to cladding or linings, provided the details in this certificate, the drawings and any manufacturers specifications are adhered to, the existing building is considered capable of supporting the expected loads from the proposed works, and will not be adversely affected by the proposed works.

Should any existing defects or inadequacies in the existing building be found during construction, or any changes to the proposed work be made, then contact the undersigned.

The above information shall be considered only in conjunction with the nominated part of the structure at this site, and this certificate shall not be used for legal purposes, or any purposes other than those described above.

For and on behalf of Circle Z Design Pty Ltd,



**Matthew Zahra** MIEAust CPEng NER 2297557