

## ***ENGINEER RIGHT NOW***

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### **RE: Foundations for the ZEGO wall system.**

The ZEGO Manual at Paragraph 2.2.4.1 states that “Foundations shall be designed to AS2870-2011 Residential Slabs & Footings – construction for equivalent construction of masonry veneer.

This statement is based on the following;

- The ZEGO Magu units are reinforced in a similar manner to reinforced core filled masonry and have been assessed to comply with the definition of “**Reinforced Masonry**” in AS3700 Masonry Structures by MR Anderson Engineers Pty. Ltd. Note that “**Reinforced Masonry**” requires reinforced cores to be spaced at a maximum of 2m centres.
- ZEGO walls constructed using sheet forms are reinforced in accordance with AS3600 Concrete Structures which provides a stiffer structural system than **Reinforced Masonry**
- The structural concrete throughout the wall is monolithic and continuous within the Insulated Concrete Forms and there are no perpend or bed joints so there are no consequent discontinuities.
- Reinforcement provides overall structural integrity, ductility and robustness and limits crack width and propagation.
- Any cosmetic hairline cracking not arrested by reinforcement will generally be concealed within the concrete core, without penetrating through ICF’s, internal plasterboard lining or external mesh reinforced flexible render.
- Internal walls shall be constructed from **Articulated masonry** or **Reinforced single-leaf masonry** or **Timber frames**.

Based on the above and provided that the ZEGO walls are constructed and reinforced in accordance with the manufacturers specifications, in our opinion the walls may be considered to be “**Reinforced single leaf masonry**” in respect to AS2870-2011 Table 3.1. – Equivalent types of construction.

Where external wall openings exceed 2m, it shall be the responsibility of the design engineer to provide an appropriate footing system solution.

Yours sincerely,



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