



**EZYBLOCK is a registered trademark of Ezyblock Pty. Ltd.**

**Head Office & Warehouse  
21 Sefton Road  
Thornleigh NSW 2120**

**Builders Lic# 30984  
Housing Ind Assoc# 383034**

## **Ezyblock Pty Ltd**

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Tel: 029 899 6844

Fax: 029 899 6866

Email: [info@earthsmartind.com.au](mailto:info@earthsmartind.com.au)

**Mob: 0418 487 463 Bill King**

### **INSULATED CONCRETE FORM BUILDING SYSTEM**

#### **Method of Construction**

1. Starter bars, when pouring ground floor slabs is one method of starting construction, however it is possible to drill & grout starter bars after pouring the slab. If this later method is adopted place bars @ 375mm cts and 100mm to 150mm deep to engineer's detail. For the average tiled roof house the use of 12mm deformed bars are required @ 375mm vertical cts and 250mm horizontal cts. Use extra bars @ window & door openings as specified by your structural engineer.
2. Wall starter bars are to be placed in centre of wall or 125mm from outside edge of slab. All walls to be located on floor with U channels on inside skin of walls cts. Either drill or plug & fix with ramset or similar. Gun fix with 25mm nails @ 750mm cts.
3. Safety caps to be placed on all starter bars until height of wall exceeds height of bars.
4. Start to fix blocks with spreaders. Eight spreader to each block.

5. Begin installing blocks. Each block is 1000mm long, 250mm wide & 250mm deep. Start laying first blocks at corners. Either mitre or bond corners as per manufacturers instructions. Both methods are simple & all cut blocks can be used in the middle of runs or under window openings.
6. After first course of blocks are laid, place 12mm reo bars in centre of block. Use short cable ties every 750mm. Use more ties at corners to hold laps together.
7. Use ramset or similar foam plugs at all cuts & mitres as required ( foam plug applicator gun & solvent cleaner required to keep gun clean & operational. )
8. If timber reveals are to be used on windows & doors allow 20mm to 30mm over side of frame ( not garage doors ).
9. Build wall to approx. 1250mm high & then install support system. Fix to slab at wall junctions and adjust leg approx. 1500mm from base of wall with re-usable masonry fixings 6mm x 50mm long ramset a.b.m. anka-screw. Drill 6mm hole in slab at least 60mm deep. Re-use screws after concrete walls are set normally the next day. The anka-screws can be used time & again.
10. The vertical wall supports must be fixed @ 1500mm cts & at each wall spreader and each course in holes at relevant centres. Use # 8 chip board screws 30mm to 60mm long depending on type of wall support used.
11. Plank out support system with planks that are certified for the span involved. Erect hand rails to required safe standards.
12. Get the wall supports plumb as possible and check again after wall is full height and as the concrete is pumped. Use a string line from the top of the wall and adjust as required.
13. Concrete mix required is 20mpa, 10 – 12mm aggregate and 125mm-150mm slump.
14. Concrete must be placed from top of wall. 50% of wall height initially then continue with remaining pumping. Never start to fill walls from corners and always use wall brace at all external “T” intersections ( outside ).

15. Vertical Reo is usually placed down from top of wall at full height or can be placed at 1/3 height mark (easier from top of wall). It is always good practice to have one man on look out for possible problems. With a wooden float, tap the wall to indicate how concrete mix is flowing. It is very, very important that the core mix will flow and does not appear course as this will not do the job.

16. Roof fixings using brooker rod ( threaded ) 500mm long x 12mm. Leave protruding 75mm above concrete on centreline of wall @ approx 750mm cts.

17. Don't forget I will work in with your workforce to keep them on track.

18. All concrete work to be poured on the one day.

19. Best to have your slab accurate to + or - 2.5mm to achieve best results.

20. You are now using the best and simplest method of I.C.F. construction in the world.