

## **CONCRETE WALL FORMING SAFE WORK PROCEDURES**

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OH&S Code Part 23 Section 352

Wall forming conditions change from job to job. Wall thickness, wall structure, soil conditions, and other environmental obstacles make it necessary that a field level hazard assessment be done for each project.

### **Wall forming safe work procedure:**

1. Lay out the wall grid lines on the footing using chalk line or other appropriate technique.
2. Fasten the bottom plate (kicker) by drilling through 2 x 4 and into footing with pin-drill, and fasten with tie wire and double head nail.
3. Diagram the layout for snap tie spacing on a sheet of form plywood.
4. To save time drilling holes, stack 3-4 sheets of plywood together and use the top sheet for a template when drilling.
5. Stand up plywood form vertically against kicker.
6. Nail one bottom corner to the kicker, level the sheet, and then nail the other bottom corner to the kicker as well.
7. Install camlocks and snap ties in plywood form.
8. Install 2 x 4 whaler along top level of camlocks.
9. Attach turn-buckle or other material to support and plump the form; secure to ground appropriately.
10. Install remaining whalers along formed wall. All whaler joints should *preferably* be at least two tie spaces apart from form to form.
11. Install spider clamps and 2 x 4 strong backs every 8 feet (2.43m) and ensure strong backs are long enough to extend from top to bottom of form.
12. "Shoot in" your concrete pour height along inside of form and snap a chalk line for easy visualization during pouring.

At this point, the wall is ready to have re-bar installed along the "inside" of the form.

\*NOTE – Exposed rebar ends that have ANY potential of coming into contact with a worker MUST have a mushroom cap attached to the exposed end immediately after re-bar is installed.

13. Ensure any loose material or debris is removed from footing so it will not be present in the wall when concrete is poured.
14. Wall close up – install "close up sheets" to existing wall using exposed snap ties.
15. Install camlocks, whalers, spiders, and strong backs as in steps 7, 10 and 11
16. Install vertical 2 x 4 corner locks at wall corners using appropriate methods.
17. Run string line along wall from end to end.
18. Plumb wall ends using carpenter's level.



19. Level remainder of wall using 2 x 4 block technique; adjusting turnbuckles to achieve required results.
20. Install buck-outs or other embeds as required.
21. Do walk around check of entire formwork to check for completion, strength, and readiness for concrete placement.
22. Pour concrete.