

The tools needed on site are listed here. I have included some images on items that have caused confusion in the past. They can be rented or purchased as the budget allows. Some items (both materials and tools) can be difficult to find in your area, so look early and make sure you have everything you need LONG before the workshop begins. It is not uncommon for the host to run around a lot looking for things at the last minute. That is a bummer for everyone involved and so I suggest you gather everything in advance. In addition, I suggest you have a person or two available to run errands for you so that you can stay on the site and learn. Otherwise, you may be off gathering last minute details while the class is underway.



Masonry Hammer Drill (1)

4 Hammers

Wrench for tightening foundation bolts/nuts (1)

4 Shovels for gravel in toe ups

Circular Saw (1)

Miter saw (1)

Sawzall (reciprocating saw) (1)

4 1/4" Angle Grinder with 25 metal *cutting* wheels (**not** grinding wheels)



2 pairs Tin Snips (be sure to get those that cut both directions (right and left side cuts.
Some cut straight and a set or two of those would be good too)



2 Pairs Linesman's Pliers

Tarps to provide protection for each wall during plastering (they will be left in place once the plastering starts so don't plan on moving them from one wall to another).

Chalk line (1)

4 Chainsaws (gas chainsaws are best, electric are acceptable. best to have at least 2 electric if the others are gas)

Chainsaw Sharpening File (1)

Framing nail gun capable of shooting 8d and 16d nails (1)

Minimum 50' air hose (4) (100' are great too to help reach different directions from the compressor)

Compressor capable of running 4 air tools at once



AT LEAST 3 of the following gun: 16 Gauge Staple Guns that shoot 7/16" crown x 1 3/4" long staples and compressor *This can be hard to find. Look for it early!* (be sure to have a box of at least 10,000 staples for these guns as well)



Hammer staplers (4) for applying roofing felt

Multiple Extension cords

1 sheet of 4x8' plywood that we can use for a mud board while plastering

2 sets of saw horses

2 String Trimmers

Garbage cans

Rakes and brooms for site cleanup (blower/vac is even better if available...in addition)



Four 8" Tampers

Materials Needed on Site (Your Plans Will Also Require Others Not Listed Here):

1 sheet of 1/4" or 3/8" Masonite Board

12 Cans of Orange **Ground Marking** Spray Paint

20d (20 penny) hot dipped galvanized nails (20lb box)

8d and 16d "VC Sinker" Hand Nails (10 lbs each minimum)

Masking tape for taping off windows and floors before plaster (amount varies by design)

Painter's plastic for taping off windows (Clear Plastic)



Baling twine (1 roll min.) The strongest polypropylene available (not natural twine)

Several 2x4's (scrap down to 18" is okay **AND** some 10 footers)

2x4: Enough for the full interior perimeter of bale walls. (Use for the Top Nailer)

Plywood for "bale stop" (space between top nailer and attic along trusses (Scrap is fine but it must be wide enough to seal off the top of the bales)



Window adhesive counter flashing (enough to wrap the bottom of every window opening plus 2' on each window)



Sill Seal. Enough to seal the entire perimeter of the toe ups (inside toe ups only) on each floor.

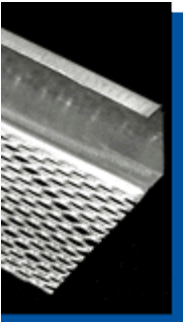


Window secondary adhesive flashing (enough to go all the way around every window and door plus 2' per window/door)

2" x 2" 14 gauge welded wire mesh per plan (inside and outside) (If you can't find locally, contact: Flynn and Enslow in San Francisco, CA: <http://www.flynnenslow.com/2009/>) Order early as it can take a while to get delivered. If the frame is sheared by design and the mesh is not used in that structural capacity, then purchase **16 gauge mesh** as it will be much less expensive and easier to find. Just be sure it is still the **2" welded wire mesh**.

Bales per plan + extra for "ladders/scaffolding" (Each bale should be roughly 3.5 SF of wall surface. Calculate entire wall surface, remove window and door openings, divide by 3.5, add 10%, and that's a good number of bales.)

Windows and Doors per plan



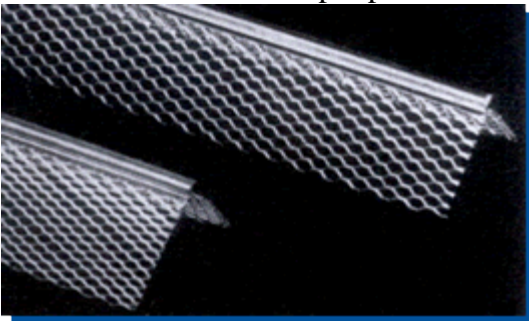
J-metal (sometimes call J-Channel) (7/8" slot) for around all windows and doors. Lath flange is preferred (the one on the left). Also get enough to cover the entire perimeter of the bale wall along the bottom. Must have 3"+ nailing space on flange. Prefer to have a lath flange like the J-Metal shown as opposed to the solid aluminum flange



Z Flashing for over every window and door



Diamond lath (plaster lath) for the top portions of all the interior windows and doors and for use around all electrical plugs and larger expanses of wood (anything over 4"). Each sheet is 8' long by 27" wide. I can help with the calculation of this if you are unsure. It varies per plan.



Corner Bead for around exterior corners (comes in 10' lengths)



Electrical Remodel Boxes shown above to be installed with plywood cut outs against the wall. Be sure they have the "flippers" as shown here. If possible, get the vapor sealed boxes. If not available, we can work with the standard remodel box shown here.

UFB (direct burial) electrical wire for house (amount per plan)

Roofing felt for ALL wood **that will be behind** plaster



9" landscape staples (at least 100)

6" or bigger zip ties (200)

Plaster Tools and Materials:



Mortar Mixer (Paddle Mixer) NOT a concrete mixer



Hawks and Trowels for 5 people (This is worth the investment, believe me!!!) I will ask participants to bring their own as well.

Wheelbarrows (2)



Plaster Scratch Tool “Scarifier”



Concrete sand (sharp and graded sand) For Mixing with Plaster. Be sure it has fines and coarse material like that shown here.

Plaster (My favorite is Natural Hydraulic Lime). If you live on the East Coast of the US, order here (<http://palimeworks.com>) and talk to Andy who will tell you how much you need for the project. Also, give him my name and code (NHL95501) for a discount on the material. If you live on the West Coast of the US, order here (<http://www.limes.us/>) and talk to Michel who will tell you how much you need for the project. Be sure to mention my name for a discount on the material. If you plan to order it elsewhere, let me know where before you contact them as I can likely get you a discount)

5 gallon buckets (4)

Old Yogurt Container Lids (4)

Rolled cardboard (floor protection) Optional

Masking Tape (Floor protection)

Duct Tape (Floor protection)

Roofing Felt (Floor protection)

Scaffolding as required for the building (2 @ 2x12x 20' + bales is okay for low walls)