

Simple Homemade

Scaffolding

Safe to use and inexpensive to build, A-frames and a couple of planks beat working from a ladder

BY MIKE GUERTIN

hether you work on houses for a living or just enjoy doing projects around your home, chances are you need to work up in the air sometimes. Staging, or scaffolding, is available for rent, but for what it costs to rent a 5-ft. section of scaffolding for one day, you can build a set of A-frames in no time at all. Not only are A-frames great for staging, but they are a versatile tool. I've used them for everything from sawhorses to temporary porch supports. And when the job is done, A-frames fold up for easy transport and storage.

## Consistency is the key to building A-frames

The A-frames are simply a pair of ladders connected at the top of the legs with carriage bolts. But the ladders have to be identical to fit together, and to open and close smoothly.

For consistency, I build the A-frames on a table or a sheet of plywood supported by sawhorses. The surface becomes a template to lay out the ladders. Before I begin to lay out the ladders, I drill holes in all the 2x4 legs for the carriage bolts that serve as hinges. By aligning and drilling all the legs at once, I eliminate the chance of measuring the legs differently and the holes not lining up.

Then I align one leg with the edge of the plywood and snap a chalk-line parallel to that edge to locate the second leg. To make sure the ladders are identical, I use the same edge and chalkline for each one and screw the legs to the plywood temporarily before I build the ladder.

To finish, I fasten the spacers and crossbars to the legs. I glue all the parts and tack them down with staples or nails for quick assembly.

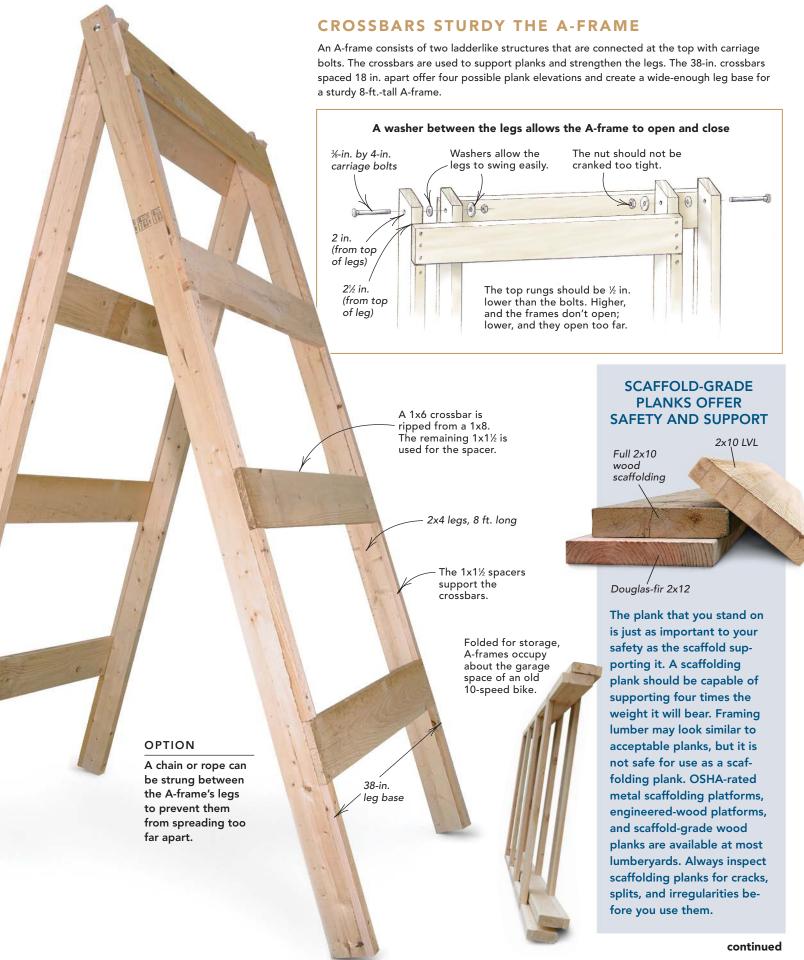
Then I screw the spacers and crossbars to the legs. Screwed-together A-frames are stiffer and last longer than A-frames that are nailed.

The two ladders are connected with carriage bolts. It doesn't make a difference if the frames are stacked with the legs to the left or to the right of one another, as long as the crossbars face the outside. A washer between the legs improves the opening and closing action.

Fine Homebuilding contributing editor Mike Guertin lives in East Greenwich, R.I. Photos by Brian Pontolilo.



**Plywood makes a good worksurface.** Draw layout marks to help position the legs, and screw them to the plywood temporarily while you glue and nail the crossbars. The author adds screws later for a stronger connection.



## **Reader Response**

## Scaffold plank is no LVL

In the article "Simple Homemade Scaffolding" (FHB #160, pp. 86-87), you showed a photo of different scaffold planks and identified one as an LVL plank. That was not an LVL plank. It's a laminated scaffold plank and looks like a LeeLite Scaffold Plank (www.leestructuralwood.com). LeeLite is made in Canada, of Canadian spruce lumber, with glued butt joints on the sides and glued finger joints at the ends. It is a very good product, but it is not an LVL.

—DOUGLAS A. HOLMAN via email

