

Installing a Pocket Door

BY EMANUEL SILVA

Because a pocket door disappears into the wall instead of swinging into the path of travel, it can often solve awkward design problems, as it did in the basement renovation project I completed recently in a home in Reading, Mass. With the basement's long hallway and doors providing access to a laundry room, a garage, a staircase to the main level, and the living area shown in this article, pocket doors were a good fit.

I've installed dozens of pocket-door kits over the years, including Johnson's heavy-duty, commercial-grade frame (the one shown here). But kits change as manufacturers tweak their products, so I carefully read the installation instructions for every kit I install. To re-familiarize myself with how everything fits together and figure out what I'll need from the lumberyard, I start by unpacking and laying out all the kit parts and fasteners.

In new construction, floors and ceilings are usually level, which makes framing a square, plumb, and level rough opening straightforward. In a renovation, floors and ceilings are rarely level and walls rarely plumb. On this project, the basement floor had been covered by a carpet over a pad that concealed the waviness of the slab. And because the ceiling drywall had been fastened to the floor joists instead of to furring strips, the ceiling was a little wavy too.

Renovation plans called for new, vinyl plank flooring after the existing carpet had been removed. Over old concrete slabs, I usually install pressure-treated 2x4 sleepers—which are easy to shim over low spots—followed by ³/4-inch plywood subfloor sheathing. To gain a little headroom, I installed thinner-profile 2-by-2-foot Dricore panels over the slab, followed by ¹/2-inch AC plywood sheathing to make the subfloor feel more solid and provide a smooth substrate for the click-lock vinyl flooring. The thickness of the panels (and the shims needed to level them) along with the sheathing had to be accounted for when I established the height of the header for the new door.

As I framed the rough opening in the new 2x4 wall separating the living area from the hallway, I used a laser level to establish a benchmark elevation for setting the door header and aligning the heights of my new door openings with the existing ones. Following the instructions that came with the kit, I added $4^{1}/2$ inches to the height of the door (80 inches) to establish the minimum height of the header. Then it was time to tackle the installation of the frame for the 2'-8" x 8'-0" solid-core door.

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Following the frame manufacturer's installation instructions, the author framed the new pocket door's rough opening so that the width was equal to twice the door width (2 x 32 inches) plus 1 inch, and the height at least 84 1/2 inches (the height of the door plus 41/2 inches). Visible in the background is another recently framed pocket door leading from the basement hallway into a laundry room (1). A pocket-door kit typically includes a frame header assembly, split steel studs, door hangers, and all other components needed to assemble the frame (2).

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To help locate the frame header brackets, the author partially nailed a flathead nail into each trimmer on either side of the opening so that the nails were $80^{3}/4$ inches above the finish floor and centered on the trimmers. The nail heads were left proud by about 1/8 inch so that the end brackets of the frame header could slip over the nails (3). Because a subfloor will be installed over the concrete slab basement floor, the author set up a laser line to establish a benchmark elevation. This frame was sized for a 3'-0" x 6'-8" door, so the author had to cut the frame header to fit the narrower, 2'-8" x 6'-8" door used on this project. He started by unscrewing an end bracket (4), then he carefully cut the track to length, first cutting the wood header, then flipping the assembly over and cutting the metal track 1 3/s inches shorter than the wood header (5). Finally, he re-fastened the bracket to the track (6). The frame-header end brackets have slots that allow them to slide down over the nail heads, making it easier to accurately locate the frame header (7). After making final adjustments so that the frame header would be perfectly level, the author fastened the brackets to the trimmers with screws supplied by the manufacturer (8). Next, he inserted a floor plate into the ends of one of the two pairs of split steel studs (9).

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The first pair of split steel studs was positioned so that the tops of the studs butted against the header nailer; the author fastened them with pan-head screws (10). Because of tight clearances between the new door opening and an existing wall, a right-angle drill was needed to drive some of the screws (11). Chalk lines snapped on the concrete floor to mark the rough opening were used to align the floor plate, which was fastened to the slab with Tapcon concrete screws (12). The second pair of split steel studs was installed in the same manner midway between the end pair and the trimmer. Prior to installing hardware and mounting the door onto the track, the author primed and painted the edges of the solid-core door, then mounted the two door plates on the top edge of the door 2 ³/4 inches from the edges (13), along with a rubber bumper on the back edge of the door 40 inches from the bottom. The author then inserted the wheeled hangers into the track and used a flat bar to lift the heavy door so that the hanger pins engaged the door plates (14). With the pocket door installed in the frame, the author laid down the Dricore panels over the concrete slab floor, shimming them as needed to level the floor, then installed 1/2-inch plywood subfloor over the panels, staggering the seams and covering the new subfloor with Ram Board temporary protective floor covering. When installing the drywall, the author used short self-tapping screws to attach the drywall to the steel split studs (15).

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With the finish flooring installed, it was time to trim the door opening. To accurately locate the holes in the narrow edges of the split steel jambs for the trim screws and avoid deflections that could bend the flexible steel jamb, the author first partially drilled through the wood trim to mark the screw locations, then removed the trim piece to finish drilling the holes through the steel (16). He followed the same careful process when installing the split header trim (17); note that these trim pieces must be removable in order to remove the pocket door from the pocket-door hardware. Before casing the door opening, he shimmed the latch-side jamb to evenly contact the edge of the door (18), then prefabricated the casing for tight miter joints (19). Plastic guides are included with the pocket-door kit, but the author made his own guide blocks out of scrap PVC that provided a better fit and more durability (20). To accurately position the latch, he first made a template to mark its location (21) and clamped a plywood backer to the back of the door before cutting out the latch opening with a jigsaw to prevent tear-out (22). Ready for finish paint, the installed door may rarely be needed but slides smoothly out of the wall when a little privacy is desired (23).

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