

at a new way of installing a shower pan

s a second-generation tile setter – I started working in my father's tile business as a teenager — I've installed hundreds of shower pans. Tiled shower pans are not something you want to take risks with; leaks are expensive to repair and can cause serious structural damage in wood-framed houses. Years ago we settled on a reliable installation method for tiled shower pans: Chloraloy membrane, from the Noble Co. (noblecompany.com), installed over a sloped subbase, running to a three-part weeping drain, followed by a sloped mud bed. I've built shower pans using this method for years and have never had a problem.

There are some new shower-pan systems available that use a surface-bonded waterproofing membrane and skip the weeping drain. I'm not a big fan of these products, though I do occasionally install them when a GC requests it. When I was asked by a local builder to try out the ProBase pan from Noble, I was interested for a couple of reasons. First, I've used Noble products for years, including the Chloraloy pan membrane mentioned above, and I'm familiar with their quality. Second, this preformed shower base is designed for use with a clamping drain, so it would provide the backup weep drainage I'm used to. So I accepted the opportunity to install a ProBase kit at a local job and assess it for ILC.

The Kit

The ProBase kit I installed includes the shower base itself, a plastic weep protector (a product I've been using for a while on all my shower pans), a tube of NobleSealant 150, a strip of membrane flashing for the edges, and eight preformed corner flashings - four for inside corners and four for outside corners. The 48-inch-square center-drain kit retails for \$593 at Noble's website; other sizes and drain placements are also available.

The base is very light. It consists of a waterproof sheet membrane laminated to a polypropylene matrix. A depression and cutout in the center allows for placement of the clamping drain.





The first thing I did was place the base on the ground and stomp on it. Reassured of its strength, I also tried to peel the membrane away from the plastic structure, but it held firm. Cutting the base to size was easy. The instructions recommend scoring and snapping the base, as you would do with drywall, but with a product this costly I wanted to make sure I had a clean cut. So I cut first from the top, using a utility knife (1), then flipped it over and finished cutting from the back (2).

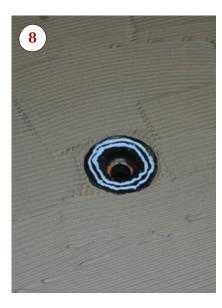
Setting the Base

The weep drain was already in place. I checked that the floor was level, then nailed down a piece of ½-inch-thick Durock cement board in a bed of thinset (3, 4) over the floor sheathing to bring the surface flush with the drain flange. After fine-tuning the fit of the base (5), I prepared to bond it to the floor, first troweling out modified thinset with a ¼-inch-by-¾-inch square-notch trowel (6), then applying a double ring of Noblesealant 150 (7) around the drain flange (8). I set the base



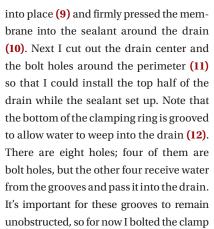






DECEMBER 2010 | *JLC* | 2









ring onto the drain upside-down, flat-side down, so that the sealant and membrane fabric wouldn't squeeze up into the drainage grooves as the sealant set (13).



I measured and cut the 14-inch-wide





perimeter membrane fabric, leaving enough for about a 4-inch overlap. Then, following the manufacturer's instructions, I prebent a 2-inch leg along one edge (14), which I firmly bedded into a double bead of sealant around the base to create a good bond (15, 16), looking for a













continuous line of squeeze-out (17). After sealing the overlap in the corner (18), I worked back around the perimeter with the caulk gun, laying additional sealant to thoroughly cover the joint between the wall membrane and the base (19).

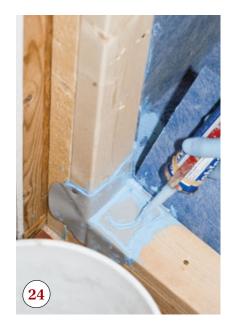
Next I installed the inside corner pieces, using two beads of caulk in continuous rings so that there would be absolutely nowhere for water to seep through (20). I pressed them into the corners, again looking for squeeze-out and tooling the edge with my finger (21). The preformed outside corners were next, two per jamb, applied directly to the wood with sealant (22); again, I used plenty of sealant and tooled the squeeze-out (23).













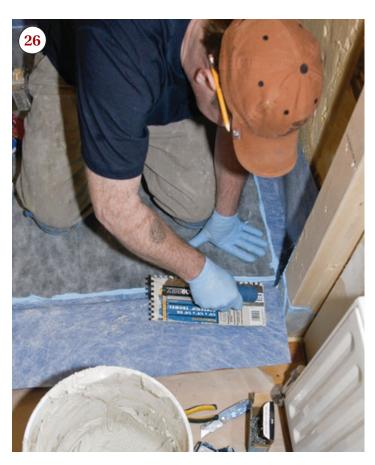
Threshold

After slitting the perimeter membrane to allow it to fold over the jamb, I squirted sealant onto the preformed corners (24) and spread modified thinset over the exposed wood — back, top, and front (25) — then bedded the membrane onto

the threshold with my trowel (26). Where the slit membrane runs up the back of the jamb, which you can't see in the photographs, I used sealant to create a leakproof bond.

I then measured the polystyrene curb cover that Noble had provided (this does

not come with the ProBase kit), cut it to size with a utility knife (27), and thinset it into place, making sure to get the mortar on both vertical legs as well as the top so that it would have good support (28). After placing a few plastic-cap roofing nails on the outside of the curb (29), I













applied silicone sealant at the joint at each end of the threshold, per the instructions (30). Noblesealant 150 is incompatible with the polystyrene.

Finishing Up

I let the sealant and thinset set up, then plugged the drain and performed a water test (31). In this case, I let the water sit overnight; there were no leaks, so I drained the pan and immediately reinstalled the clamping ring right-side up. The next task was to adjust the final height of the chrome drain cover. I wanted the embossed type on the chrome strainer

to be aligned parallel with the threshold, so after covering the drain cap with duct tape to protect it, I marked the orientation with a pencil (32). I then screwed the chrome plate into the drain assembly, positioned the plastic weep protector around it (33; see next page), and adjusted it so that its orientation was correct (34), checking for correct tile height and slope with a level (35). Finally, I filled the depression around the strainer with cement mortar — I use the bag form of Laticrete 3701 (36). At this point, the shower pan is done.

Once the mortar in the base set up,







I finished the job by installing Durock cement board on the walls (37), using cardboard to protect the shower base and also to create a gap at the bottom of the cement board (38). I used mastic to adhere the Durock to the studs, making sure that the lowest nails in the cement board were no lower than the top inch of the membrane underneath. I taped and

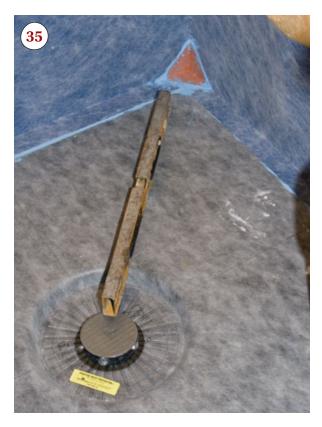
mudded all the joints, using fiberglass mesh tape and modified thinset, then applied Laticrete 9235 brush-on water-proofing membrane (39) and tile (40, 41).

Assessment

Overall I was impressed with the ProBase. I trust this system more than other preformed shower bases because it addresses

my concerns about a secondary weeping system and it's made by a company with a proven track record.

There are some situations that call for a preformed base. On this project, the builder asked for a preformed shower pan because he was concerned about the chance for mold growth in a traditional mortar bed. Also, the shower was on the



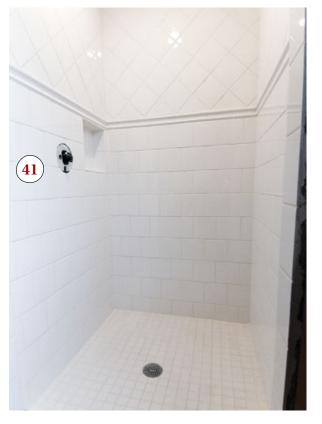












second floor of a finished home — and not having to carry buckets of mortar through an inhabited house can be a big plus. Another factor to consider is installation speed: Spending less time preparing the pan can shave as much as a day off the overall shower job.

I'm a traditionalist. I tend to do things in certain ways that have worked for years without any problems, so I probably won't change my methods any time soon. And for the most part, the showers I build are custom shapes and sizes, so preformed kits would not typically fit. Still, the trend

seems to be away from the old mud-bed installations and toward preformed pans — and the ProBase is one that I can be comfortable with.

Andrew Fettig is a tile contractor in Burlington, Vt.