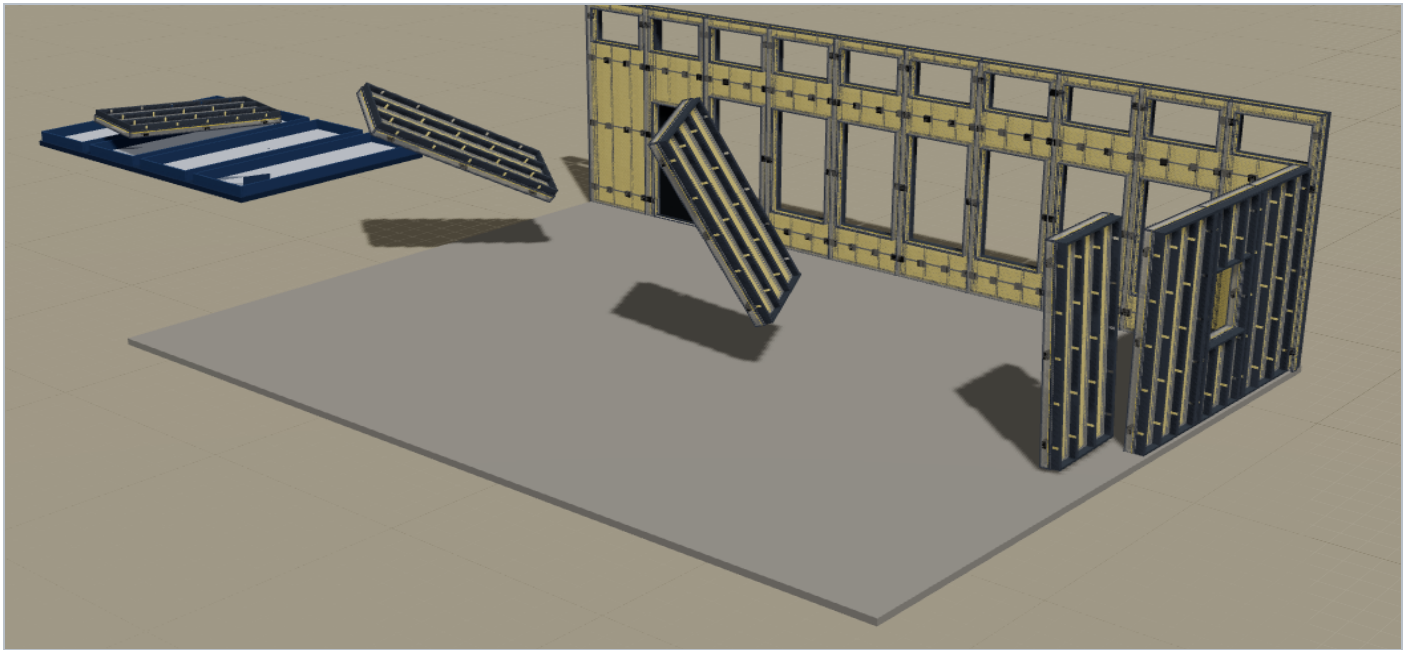


Standing the panels and screwing them together

Panels stand at 4 ft widths on the slab, skin facing in, and get screwed to each other through the mating edge studs. They stand on two anchors and the joint screws alone until the cladding, the fill and the top track exist.

Setting a panel

- 1 Check the serial number against the key plan before it goes up. Panels are not interchangeable: the openings are in specific panels.
- 2 **Skin face in.** Check it before it lands, not after.
- 3 Land it on the slab on its bottom track and plumb it.
- 4 Anchor through the bottom track: 2 anchors per panel, 1/2 in diameter.
- 5 Screw it to the panel beside it through the two mating edge studs, and hold the 1/2 in joint gap.
- 6 Measure the joint gap and the plumb, and write the values.



Panels flying from the bed to the slab at 4 ft widths, with two walls already standing and screwed together. Figure file: wall-03-setting-the-panels.png

Standing the panels and screwing them together (continued)

NOT SETTLED YET

Three things on this sheet are assumptions in the model, not a design, and you must not treat them as one.

- **The joint screws.** The model carries 8 of #10-16 x 3/4" self-drilling, edge stud to edge stud per joint. [PE TO SET: the screw size, count and pattern between mating edge studs, and whether a corner wants a strap or a cast-in plate.]
- **The slab anchors.** The model carries 2 at 1/2 in per panel through the bottom track. [PE TO SET: post-installed or cast-in, the size, the embedment, and the base detail, which is still a choice between a slab recess, track on the slab, and a curb.]
- **Temporary bracing.** There is none in the design. [PE TO SET: a temporary bracing scheme, and the order the roof has to go on.]

STOP

Ten panels have to reach the end of a 40 ft wall. Nobody has set the cumulative run tolerance, the out of plumb limit, the joint gap range or the shim allowance at the base [PE TO SET]. So measure and record every joint gap and every plumb reading as you go, on QF-35 Panel erection record section 2, and the built length of each wall against its designed length on QF-35 Panel erection record section 3. Speak up the moment a wall starts to run long or short — **while there are still joints left to correct it in.** Do not absorb it silently in the last joint. **A criterion that has not been set does not make the line optional:** the measured value is the record, and it is the evidence the engineer will use when the tolerance is finally set.

Tying the tops

A continuous 600T125-54 top track runs along the wall tops and ties the panels together for the roof. It goes on after the walls are up and before the roof.

SAFETY

About 703 lb per panel, about 879 lb for a 12 ft 6 in wall A panel, on a forklift boom. Nobody under a suspended panel. Use a tag line, not a hand, to turn one. The tall wall A panels stand unbraced the longest of anything on the job, and they are the tallest and the heaviest. Treat a standing unbraced panel as a thing that can go over.

Standing the panels and screwing them together (continued)

THE RECORD YOU SIGN

In the plant, on the shower house: QF-18 Shower house assembly, MEP rough-in and cladding inspection, the assembly section. Panel serial numbers against the key plan, plumb, joint gap, joint screws by type and count and pattern, and the anchorage of the bottom track.

On site, on the house: QF-35 Panel erection record. The builder stands the panels, so **the builder's site supervisor writes and signs that record, by name and company. No plant signature goes on it.** It records what was received and what the slab was like, then panel by panel the serial number against the key plan, the skin face, the measured plumb, the measured joint gap and the joint screws and slab anchors as actually fixed; then wall by wall the built length against the designed length. The blank goes out with the shipment alongside the installation instructions, and the completed record comes back to the plant with QF-34 Delivery and receipt record and is filed against the order and cross-referenced from QF-13 Panel and unit traveler. The plant issues it, supplies the criteria through the engineer of record, and acts on anything it reports against a panel — the plant does not certify the erection. **The installation instruction that governs the work still does not exist** [PE TO SET: the panel to panel connection, the foundation anchorage and the erection tolerances]. What the plant itself signs is QF-33 Loading and unloading manifest at loading and QF-34 Delivery and receipt record at delivery.