

TRICKS OF THE TRADE

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Regular Quad-Lock Panels:

What:	How:	Product Manual
Adjust top-of-wall elevation	Rip panels lengthwise; start wall with ripped panel to adjust final wall elevation; if less than 6" [152mm] rip, also rip panel bottoms & place up-side-down – ties will fit (this does not work with Plus Panels). Interlock is not necessary.	Pg. 37
Adapt to odd footing step elevations	Start walls at lowest point with ripped panels, bringing second row even with footing step. Notch succeeding rows over steps if necessary.	Pg. 21
Taper panels to adjust out-of-level footings	Fasten Metal Track to out-of-level footing. Determine the taper in the footing with laser level; rip panels to match taper from maximum differential to zero. Spray-foam tapered panels into track.	Pg. 23
Non-90° angles	Calculate bi-section of wall angles; pass bi-section cut through center of knobs of outside panels to make Angle Brackets fit. Remove knob at joint.	Pg. 40
Best material utilization practices	12" [305mm], 24" [610mm] and 36" [914mm] pieces can be used in building walls; Quad-Lock bags make great garbage bags; re-use/recycle tie boxes.	Pg. 13
Radius walls	Make kerf cuts 1¼" [32mm] deep at 4" [102mm] o.c. in panels to form radius; cut the back (compression) side of radius; use split ties if necessary.	Pg. 47
Mark bracing positions on the floor for radius walls.	Mark locations (columns) of tie rows that can be used to brace a radius wall. Spray a dot on the floor with spray paint and follow during installation.	Pg. 96
Brace radius walls	Plumb and brace each row of radius panels; keep wall from leaning out as compression will prevent inward adjustment.	Pg. 48
Reinforce bottom row against concrete pressure	Use spray foam in Metal Track and/or start with 6" high (ripped) panels.	Pg. 37

Quad-Lock Plus Panels:

What:	How:	Product Manual
Variable R-Values	Plus Panels can be configured for R-32 and R-40 walls.	Pg. 3
Wall width transitions	Make transition from 12" [305mm] down to 6" [152mm] walls with Plus Panels and Ties in 2" [51mm] increments.	Pg. 59
Vent/Utility Stacks	Build a "block-out" for vent and utility stacks with Plus Panels over short spans in walls. Minor displacement of concrete is okay.	Pg. 93
Belly-band for Multi-story stucco application	Place a row of Plus Panels on the outside of the building where a "belly-band" divides the stories, leaving the additional 2" [51mm] exposed to the outside. Cover with alternate colored stucco for relief detail.	Call T&TS

Quad-Lock FS & FS Plus Panels:

What:	How:	Product Manual
Lapped siding application	Use FS Panels to provide attachment points for screws in lapped exterior siding.	Pg. 105

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Base trim application	Use FS Panels at wall/floor intersection to provide attachment points for interior base trim.	Call T&TS
Soffitt attachment	Place FS Panels at exterior soffit elevation to provide points of attachment; glue/screw horizontal 2"x4" [51mm x 102mm] to F/S panels; attach soffit to 2"x4" [51mm x 102mm].	Call T&TS

Quad-Lock Metal Track:

What:	How:	Product Manual
Adjust top-of-wall elevation before pour	Adjust Metal Track at top of wall to make small (up to ½" [13mm]) changes to top of wall elevation. Pin track into position with nails pushed into foam.	Call T&TS
Cut Metal Track for radius walls	Place kerf cuts in Regular or Plus Metal Track to form radius walls.	Call T&TS
Use Metal Track/Wire Top Ties (WTTs) at window sills	Window sills can be formed with track and WTTs to leave the maximum area open to pour concrete. Form remaining 3 sides with wood or foam.	Pg. 63
Suspended slab pour	Place a row of track on top of the the perimeter panels (knobs removed) to help stiffen them against the slab pour.	Call T&TS
Reinforce bottom row against concrete pressure	Use spray foam in Metal Track and/or start with 6" high (ripped) panels.	Pg. 37

Quad-Lock Metal Corner Brackets:

What:	How:	Product Manual
Self-bracing "T-Wall" intersections	Use 2 Outside Corner Brackets to reinforce T-walls; overlap brackets on back side of T (see Product Manual and Installation Video).	Pg. 44
Use Window Brackets to form insulated openings	Cut panel scrap to block ends of wall at window/door openings; use two Window Brackets and tie flanges to secure ends.	Pg. 64
Use Inside Corner Brackets (ICBs), Outside Corner Brackets (OCBs) & Window Brackets for columns & pilasters	Form columns and pilasters around rebar cages by threading single ties through steel. Place ICBs, OCBs and Window Brackets around perimeter of column and secure with single ties and tie flanges (see Product Manual and Installation Video).	Pg. 46

Quad-Lock Ties:

What:	How:	Product Manual
Wide walls	Use Quad-Lock Extender Tie and Full Ties to form walls of any width.	Pg. 54
Ledges	Use Quad-Lock Brick Ledge Tie to form ¾" [95mm] brick ledges. Add a treated sill plate and it's a joist ledge, if facing the inside of building.	Pg. 107
Tie Placement	If job is already underway incorrectly, adjust in next row to correct Tie layout. Mark incorrect Ties with felt pen. Be sure to brace areas that may present problems.	Call T&TS

Tricks of the Trade – Continued

Quad-Lock Slab Ties:

What:	How:	Product Manual
Form Quad-Deck slab edge with Quad-Lock Panels and Slab Tie system	Place Quad-Lock Slab Ties on 2' [610mm] centers, alternating with Quad-Lock Full Ties, at a point 2' [610 mm] below the slab elevation. Fasten Quad-Lock Slab Brackets to 2" x 4" x 5' braces and place over Slab Ties. Fasten a horizontal whaler to the tops of the 2x4 braces, even with the top of the outside Panel. See product manual or technical bulletins for specific instructions. This works for monolithic pours of wall and slab as well.	Pg. 136

Electrical:

What:	How:	Product Manual
Wire chases in panels	Cut 2¼" [57mm] deep chases in Regular Panels to run electrical. Observe legal setbacks from surface. Cut chases with an electric chain saw or hot knife. Secure with spray foam.	Pg. 89
Mounting the electrical panel (Recessed)	Use 4¼" [108mm] deep Plus Panels at the location that the electrical panel is to be set. The panel box can be screwed directly to concrete after EPS is removed or to a plywood spacer attached to concrete. Treat Plus Panels with form release agent prior to pour for easy removal.	Pg. 90
Mounting the electrical panel (Surface)	Cut ¾" [20mm] plywood to shape of box; attach plywood to foam surface with spray foam adhesive and screws. Allow adhesive to set and affix panel box to plywood with screws.	Pg. 90
Attach boxes to concrete	Mark box location and cut foam with hot knife; drill through box into concrete with rotohammer. Use concrete screw to attach box to concrete.	Pg. 90
Recessed lighting	Cut foam away in Quad-Deck ceiling and attach recessed lighting cans. Use low voltage fixtures to minimize heat.	Pg. 91

Plumbing:

What:	How:	Product Manual
Waste lines (under 2" [51mm])	Cut away 2¼" [57mm] foam panel to expose concrete; attach waste line to concrete with bracket; re-foam chase to preserve insulation. Use sheet metal nail guard if necessary.	Pg. 92
Waste lines (over 2" [51mm])	Pre-plan position of larger waste lines; substitute 4¼" [108mm] Plus Panels at those locations, prior to pouring concrete. Cut away 4¼" [108mm] foam panel to expose concrete; attach vent or waste line to concrete with bracket; re-foam chase to preserve insulation. Use sheet metal nail guard if necessary.	Pg. 92

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Waste lines (over 1½" [38mm]): (Alternate method)	Fashion a block-out using a pipe at least 1" [25mm] larger diameter than the desired waste or vent line. Rip larger pipe lengthwise with a saw into halves. Place pipe half inside of the wall cavity, wire the ripped pipe into position through the foam. Mark the position with a felt pen on outside of foam. After the pour, cut foam away to expose the void created by the ripped pipe. Insert waste or vent line and fasten to wall. Re-foam chase to preserve insulation. Use sheet metal nail guard if necessary.	Pg. 92
Supply lines	Cut foam panel away with a hot knife to expose concrete. Attach to concrete using bracket and screws. Re-foam chase to preserve insulation. Use sheet metal nail guard if necessary.	Pg. 92

Miscellaneous Tips:

What:	How:	Product Manual
Wall alignment	On long walls, cheat the center of the wall as much as 1½" [38mm] toward the bracing (measured at center of wall) prior to the pour. As concrete is poured, adjust the wall "out" and back into plumb. (It is easier to push the wall with bracing than to pull it back toward the bracing)	Call T&TS
Connect to existing building (Concrete)	Drill and epoxy 36" [914mm] lengths of rebar in old concrete wall, located at center of new wall. Overlap horizontal steel onto stubs and construct new wall.	Pg. 89
Connect to existing building (Wood Frame)	Attach treated 2x (ripped to Quad-Lock cavity size) to old framed wall with lag bolts. Lap Quad-Lock panels over treated 2x and pin with Wind-Locks. Place full tie next to treated wood member. Continue Quad-Lock wall.	Pg. 86
Connect to existing building (Masonry)	Same as concrete wall.	Pg. 89
Commercial window attachment	At window line (prior to pour), cut out 4" [102mm] x 4" [102mm] panel pieces at 12" [305mm] o.c. to permit concrete to flow to surface of foam (behind plywood form). Remove form and attach metal "L" channel to 4x4 concrete pads. Attach store-front windows to "L" channel.	Call T&TS

Do you have any ideas? Success Stories?
Your feedback and ideas are the keys to our success.
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