New Home Construction Checklist

Tap a phase to see the checklist items:

Phase 1: Building Foundations

Assessing and Preparing the Soil		
☐ Check for problem soils like clay or silt.		
☐ Ensure the soil is capable of supporting the house.		
☐ Consult with a building inspector for advice on local soil conditions.		
☐ If necessary, consult a soils engineer for recommendations.		
$\ \square$ Remove organic matter from the proposed excavation area.		
☐ Ensure footings rest on undisturbed soil.		
 Use a jumping jack compactor to re-consolidate soil where stumps or rocks were removed. 		
☐ Clean loose material from footing trenches with hand tools.		
Excavation and Layout		
$\ \square$ Determine the correct elevation for the bottom of the excavation in advance.		
$\hfill \Box$ Check the bottom of the opening for elevation and levelness as you excavate.		
$\hfill \square$ For a basement, excavate an opening a few feet wider and longer than the house.		
\square For a crawlspace, scrape organic matter but leave the grade.		
$\ \square$ For a monolithic slab, scrape organic matter off the surface.		
\square Set up a leveling instrument to establish a level plane.		
☐ Use offset stakes to preserve the preliminary layout.		
$\hfill \square$ Record the desired top-of-foundation elevation relative to a benchmark.		
☐ Mark the excavation area with a line 4 ft. outside the corner stakes.		
☐ Calculate the exact depth of the excavation based on the top-of-foundation elevation		

Footings and Walls			
$oxedsymbol{\square}$ Dig footing trenches to the required depth, below the frost line for your area.			
$\hfill \square$ Form the footings according to the plan, ensuring the walls will be centered over			
them.			
☐ Install rebar as required by local code.			
$\hfill \square$ Have the footing examined by the building inspector before pouring concrete.			
 Pour the concrete for the footings and form a keyway if specified. 			
$\hfill \square$ After the concrete hardens, lay out the foundation walls on the footings.			
$\hfill \Box$ Check the layout for squareness by measuring the diagonals.			
☐ Build the foundation walls using poured concrete, concrete blocks, or a permanent wood foundation.			
☐ For concrete block walls, install rebar and cleanouts in the footings.			
☐ Grout block cavities as needed.			
Phase 2: Framing Floors, Walls, and Ceilings			
Floors			
☐ Measure the foundation to check for squareness and levelness.			
☐ Snap a chalkline to mark the location of the mudsill.			
oxedge Correct for any low spots on the foundation using shims or patching material.			
oxedge Correct high spots with a grinder or by making adjustments later when installing			
joists.			
$oxedsymbol{\square}$ Attach the mudsills, drilling accurately to fit over anchor bolts.			
☐ Install a sill seal or caulk to prevent air infiltration.			
☐ Install girders or basement bearing walls.			
☐ Sort and crown the joist material before installation.			
$oxedsymbol{\square}$ Lay out joist locations on the mudsill, accounting for critical details like stairwells and			

☐ Install the floor joists, toenailing to the mudsill and nailing to the rim joist.

plumbing.

☐ Install rim joists.

	Install the floor sheathing, leaving a small gap for expansion.	
	Follow the specified nailing schedule for the sheathing.	
	Provide for wiring and plumbing by installing blocking.	
Walls		
	Lay out the locations of exterior and intersecting walls on the floor.	
	Lay out the details for all exterior wall plates, including rough openings for doors and windows.	
	Fabricate wall components like corners, T-intersections, and headers.	
	Assemble the exterior walls.	
	Sheathe the walls before or after raising them.	
	Raise and brace the exterior walls, ensuring they are plumb and straight.	
	Build and install interior walls.	
	Install the second top plate, overlapping intersecting walls for rigidity.	
	Install blocking and backing for fire protection and to support future installations like cabinets and handrails.	
Ceilings		
	Lay out ceiling joist locations on the top plates of the walls.	
	Lay out large openings for stairwells and chimneys.	
	Install joists with the crown up, toenailing to the top plates.	
	Frame a gable-end wall if applicable.	
Phase 3: Framing Roofs 1: Raftered Roofs		
Gable	Roof	
	Find the hypotenuse of the pitch triangle.	
	Determine the dimensions of the measuring triangle to find the height of the ridge and	
	rafter length.	
	Rip the ridge to the correct height and use posts to hold it in place.	
	Install planking across the joists and screw it in place for a work platform.	

	☐ Lay out rafter locations on the ridge.	
	☐ Lay out, cut, and assemble the rafters.	
	☐ Install the rafters, nailing them to the ridge and toenailing to the top plate.	
Hip	Roof	
	$oxedsymbol{\square}$ Lay out rafter locations on the walls for king common, hip, and jack rafters.	
	☐ Take key measurements off the top plates.	
	☐ Install ceiling joists and provide backing for drywall where necessary.	
	☐ Cut and install the ridge.	
	☐ Lay out and install the common rafters.	
	$oxedsymbol{\square}$ Lay out and cut the hip rafters, ripping the material to the correct width and angle.	
	☐ Lay out, cut, and install the jack rafters.	
Roof with a True Valley		
	☐ Lay out and install the ridges and common rafters.	
	☐ Prep and install the valley material.	
	☐ Lay out, cut, and install the jack rafters.	
Doghouse Dormer		
	☐ Build the opening to the correct size.	
	☐ Frame the walls, cutting plates and studs to match the roof pitch.	
	☐ Cut and install the ridge.	
	☐ Cut and install the common rafters.	
	☐ Lay out and install the valley plate.	
	☐ Lay out and install the valley jack rafters.	

Phase 4: Framing Roofs 2: Trusses, Eaves, Rakes, and

Sheathing

Trusses		
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		
☐ Store and handle trusses correctly to avoid damage.		
☐ Set trusses using a crane, telehandler, or by hand.		
☐ Align trusses using a stringline, laser level, or marks on the bottom chord.		
☐ Install temporary and permanent bracing as specified in the truss design drawings.		
Eaves and Rakes		
☐ Install subfascia, ripping the top edge to match the roof slope for a full nailing surface.		
☐ For rake overhangs, build a ladder-type rake or a cantilevered rake.		
☐ Install the rake boards and rake frieze.		
☐ For cantilevered rakes, install lookouts and a barge rafter.		
Sheathing		
☐ Install roof sheathing with the long side perpendicular to the rafters/trusses.		
☐ Leave a 1/8-in. gap between panels for expansion.		
☐ Follow the specified nailing schedule.		
☐ Stagger the courses of sheathing.		
☐ Use H-clips on trussed roofs between panels.		
Phase 5: Closing the House to the Weather		
Roofing the House		
☐ Check for the minimum roof pitch required for asphalt shingles.		
☐ Install an underlayment and drip edge.		

	Lay out the shingle pattern, marking horizontal courses and bond lines.	
	Install the starter course and main courses.	
	Cut shingles to fit around pipes, vents, and other obstacles.	
	Install flashing for all penetrations and junctures.	
	Install ridge and hip caps and vents.	
	Perform a final inspection to clean up dropped nails and seal exposed fasteners.	
Installing Windows, Exterior Doors, Siding, and Trim		
	Install a weather-resistive barrier (WRB) on exterior walls, detailing around openings.	
	Flash the bottom, sides, and top of window and door openings.	
	Install windows and exterior doors, ensuring they are plumb and square.	
	Install exterior trim, including corner boards, fascia, and frieze.	
	Seal the end grain of all cut wood or fiber cement siding/trim.	
	Install exterior siding, ensuring all joints allow for movement.	
Phase 6: Finishing the House - Interior Wall and Floor Coverings		
	Order the correct size and quantity of drywall to minimize butt joints.	
	Hang ceilings first, then walls, cutting drywall for all openings and fixtures.	
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	For French, pocket, or bifold doors, follow specific installation and framing
	instructions.
Trim an	d Cabinets
	Install door and window casing, ensuring the jambs are flush with the drywall.
	Install baseboard, chair rail, and crown molding, using proper joints and cuts.
	Install backing blocks for crown molding if needed.
	Check for drawer and appliance clearances before installing cabinets.
	Install wall cabinets first, followed by base cabinets.
Stairs	
	Build stairs, adhering to code requirements for dimensions and safety.
	For exterior stairs, use durable materials and protect against frost heave.
	For interior stairs, account for finished floor thicknesses and a precise fit.
	Install newel posts, skirtboards, risers, and treads in the correct sequence.
	Install the balustrade, ensuring balusters are evenly spaced to meet code.