

Gaston County Inspections

Top turn down list for inspections:

Footing:

1. Must be min 12" below grade or engineer file to bottom of footing
2. Footing must be free of all roots, loose dirt or other debris
3. No water or mud in footing
4. Must provide soil report for any areas of fill dirt
5. If plans are drawn by engineer, footing must be drawn to size specified on plans
6. Provide depth markers
7. Footing must have max slope of 1:10 on top and 1:12 on bottom
8. Must have **Gaston County Approved** plans on site
9. Post permit visible from road
10. Must have portable toilet or bathroom facilities on site

Foundation:

1. Must have water proofing or damp proofing where required
2. Must have foundation vents within 3ft of the corners
3. Anchor bolts/ straps must be installed in the cell of blocks not bricks
4. Must have anchors min 6 ft on center and within 12 inch from corners and slices in mud sill.
5. Maximum of 1-1/2 inch for hog out on first course
6. Piers must be in the center 1/3 of footing
7. There must be a minimum of a 2" projection on footing under foundation and piers
8. Must have proof of termite protection
9. Must have foundation drain installed
10. No more than 6 ft height on pier and curtain wall

Plumbing under slab:

1. Minimum of 2" pipe for all under slab plumbing
2. Minimum of 10 ft head for test
3. Install backwater valve when plumbing is below the nearest manhole upstream
4. Protect pipes where they penetrate slab with minimum 6 mil poly
5. Need to pad out around toilet flanges so flanges may be installed after slab is poured
6. Must bed pipes under slab
7. Must have correct fall or slope
8. Cannot have water in ditch (cannot verify if pipe is leaking)

Slab:

1. Must provide proof of termite treatment
2. If fill is over 24" it will be required to be verified by an engineer
3. If using Engineer plans ; verify requirements (wire , poly , rebar)
4. Size of thicken slabs (both width and depth)
5. If slab is below grade a 4" base course of gravel is required

Framing:

1. Must have **Gaston County Approved** plans on site
2. Must have engineer stamped truss drawings with layout
3. Must have LVL spec sheets
4. Must have rafter ties on every rafter
5. Fire block tops of chases and all holes in top plates
6. Draft stop all holes in bottom plates
7. Fully nail all holes in hangers
8. Must not have breaks in double top plate within 24" of each other
9. Check framing charts for header spans as well as number of jack and king studs
10. Must have tempered glass in hazardous locations (example: within 24" of a door)

Sheathing:

1. Must install house wrap per manufactures instructions
2. Must nail or staple braced wall panels per code
3. Must install windows per manufactures instructions
4. Brace garage wall panels per section 602.10.5 of the North Carolina Residential Code
5. Untreated wall panels must be a minimum of 6" from grade

Plumbing Rough in:

- 1) Must have test on water and DWV
 - a) 100psi on water lines
 - b) 3' head for residential , 10' on slabs and commercial (no air test on DWV)
- 2) Must protect pipes (nail guards)
- 3) Washing machine drain must switch to 3" on the horizontal run
- 4) Must have at least one 2" vent that penetrates the roof
- 5) Support pipes , both water and drain
- 6) Washing machine stand pipe is minimum 18" max of 48"
- 7) Can't use no-hub bands above grade on any pipe other than cast iron or cast iron to Plastic
- 8) Water heater pan drain must be minimum 1" and cannot be run in PVC pipe
- 9) Must have mid story guide straps on all 2" and smaller pipes
- 10) Must attach closet flanges to floor with corrosion resistant fasteners

Insulation:

- 1) Paper backing must be removed from insulation in canceled spaces
- 2) Must have air barrier behind bathtubs/showers on exterior walls
- 3) Insulate all voids around windows and doors
- 4) Must have depth markers in attics
- 5) Must have paperwork on blow insulation showing " R" value
- 6) Insulate behind outlet and switch boxes
- 7) Must have builders insulation certificate filled out and permanently installed showing all insulations values in home

(Blank copies are available at the Building Inspections Department)

Plumbing Final:

- 1) Seal toilet base to floor (all floors)
- 2) Seal backsplashes and pedestal sinks to wall
- 3) Secure dishwasher to cabinets
- 4) Loop dishwasher drain per manufactures instructions
- 5) Cut all cleanouts to grade
- 6) Insulate water lines and traps in unheated spaces
- 7) Need full flow cutoff valve within 3' of water heater on the cold side
- 8) Water heaters:
 - (a) Run pipe on relief valve per code
 - (b) If in a garage it must be at least 18" off the floor and protected against vehicle impact
 - (c) Expansion tank must be installed on closed systems
 - (d) Water heater pan must be installed if the water heater is : in a suspended ceiling, attic, above occupied space or in a closed crawl space
- 9) Must have access to pump on whirlpool tubs
- 10) Must have main water shut off (if in crawlspace it must be within 3 'of the door, outside within 5'of the foundation wall.)

Building Final:

- 1) Must have positive drainage away from the home
- 2) Post address
- 3) Must have 100% poly coverage in the crawl space
- 4) 90mph wind load stickers on garage doors
- 5) Must have handrails on stairways and guardrails on decks that are over 30" off grade
- 6) All non treated wood on the exterior must be painted or protected
- 7) Install all exterior door locks (no double keyed deadbolts)
- 8) Insulate back of pull down attic stairs
- 9) Crawl space drain must be run to daylight on the exterior of home and be rodent proof
- 10) Seal all holes in the foundation
- 11) Weather strip all exterior doors
- 12) Remove all debris from crawl space

Saw Service:

1. In use covers required on receptacles
2. Weather resistant receptacles required.
3. Bond neutral and ground bars together.
4. Brace saw pole.
5. Drive ground rod flush with grade.

Electrical Rough:

1. Make up grounds in all boxes.
2. Fire stopping not complete.
3. Receptacle required on all wall spaces 2 feet or greater.
4. Nail plate required where wire is less than 1-1/4" inch from face of stud.
5. Pancake box not big enough for wire.
6. Carbon fiber pancake box not UL approved.
7. Too many wires in receptacle or ceiling boxes.
8. Saw service receptacles must be rated weather resistant.

Mechanical Rough:

1. Fire stopping not complete.
2. Label all gas line.
3. Vent bath fans to outside.
4. Gas pressure test failed.
5. Sleeve gas lines.
6. Bath fan air duct too long. (over 14 feet)
7. Flex duct not connected per instructions.

Electrical Final

1. Install 2 ground rods.
2. Install intersystem bonding termination.
3. Carbon monoxide detector required.
4. Incandescent lights in closets must have an enclosed bulb.
5. Lights in closets to close to storage shelves.
6. Seal around base of outside lights.
7. Bond metal plate covers.
8. Prepare smoke detectors for test.

Mechanical Final:

1. Protect T-stat wire outdoors.
2. Label all gas line.
3. Bath fan vents not terminated outdoors.
4. Carbon monoxide detector required.
5. Gas pressure test failed.
6. Paint gas line outdoors.
7. Connect safety switch in drain pan.