

*The City of Gastonia has created a list of the most common reasons that inspections fail. These items are listed under the trade that applies to them.*

### **Building Failures**

- 1-Footings do not match the approved plans and or water and debris in footing. (R 403)
- 2-Foundation anchors missing or incorrectly installed. (R403.1.6.1)
- 3-Engineered plans for roof trusses, floor trusses and lvls missing at time of inspection.
- 4-Load paths are not followed to make sure weight is bearing properly. (R802.10)
- 5-Clips for the trusses tie downs are missing or incorrectly installed.(R602.3 and R802.5.5)
- 6-Temper glass not installed where required by code. (R308.4)
- 7-Not ready for inspection.
- 8-Sheathing on house not fastened per code. (R602.3-2)
- 9-Nail guards missing or incorrectly installed.
- 10-Firestop/Draftstop missing on inspection. (R602.8 and R502.12)
- 11-Insulation not installed behind electrical boxes and plumbing pipes.
- 12-Steps not uniform and handrail/guardrails missing or incorrectly installed. (R CH. 3)
- 13-Attic access in garage not protected so you do not have a separation from living space. (R309.1)
- 14-Address numbers missing. (R321)
- 15-Decks not installed per Appendix M of the residential code.

### **Plumbing Failures**

- 1-Not ready for inspection
- 2-No test on under slab plumbing or piping on a rough-in inspection. (NCPC 312)
- 3-Glue joint installed without purple primer. (NCPC 705.14.2)
- 4-Improper grade on drain piping. (NCPC 704.1)
- 5-Wrong fittings installed for change in directions (NCPC Table 706.3)
- 6-No cleanouts installed at base of waste and soil stacks (NCPC 708.3.4)
- 7-To many fixture units on drainage piping for fixture units. (NCPC Table 709.2)
- 8-Pipe hanger spacing exceeding allowable distance. (NCPC Table 308.5)
- 9-Protection of piping from physical damage. (NCPC 305.8)
- 10-Sewer tap connections not meeting City of Gastonia requirements. (City Engineering Detail)
- 11-Water piping not insulated as required by code (example)-Garage and unconditioned attic space. (NCPC 305.6)
- 12-Fixtures not set in place.
- 13-Hose bibs not secure to building.
- 14-T&P on water heater not properly piped to an approved location.
- 15-Water hook up at meters not meeting City of Gastonia requirements for cooper 18” at meter installation. (City Engineering Detail)

### **Mechanical Failures**

- 1-Doors Locked
- 2-Gas piping not properly tested (Gas Code 406.4.1)
- 3-Gas piping not properly labeled (Gas Code 401.5)
- 4-Valves used in gas piping installations are not approved for gas use (Gas Code 4091.1)
- 5-Water heaters not elevated in garage area and not properly protected (Mech. Code 303.4 & 304.3)
- 6-Gas piping not sleeved were required by code (Gas Code 404.4)
- 7-Ductwork not having correct clearance from ground. (Mech Code 603.12)
- 8-Combustion air not installed to gas appliance were in a confined space (Gas Code)
- 9-Purple primer not used on condensate drains (Mech Code 801.20)
- 10-Insulation shields not installed were flue pipe passes through attic. (Mech Code 802.8)
- 11-Ductwork including supply boots not properly insulated (Mech. Code 603.9)
- 12-Dryer vent exceeding its maximum length that code will allow (Mech. Code 504.6)
- 13-Floored access to equipment not installed on final (Mech. Code 306.3)
- 14-Clearance to combustibles are incorrect on gas appliance vents.
- 15-Flexible ducts not installed per manufactures installation instructions.

### **Electrical Failures**

- 1-Job not ready for inspection
- 2-Nobody home doors locked
- 3-Small appliance branch circuits missing in home. (NEC Article 210)
- 4-Arc Fault breakers not installed as required by NEC (Article 210)
- 5-Incorrect clearance on service riser. (Nec Article 230)
- 6-Non compliance with maximum disconnect for building service. (NEC Article 230)
- 7-Ground rod not installed. (NEC Article 250)
- 8-Conductors undersized per NEC. (Article 310.16)
- 9-No equipment access (NEC Article 210)
- 10-No boxes installed behind Vanity lights
- 11-No access to whirlpool motors
- 12-Residential counter top and wall spacing incorrect. (NEC Article 210)
- 13-Outlet within 25' of AC equipment missing. (NEC Article 210)
- 14-Water line not bonded and gas pipe not bonded. (NEC Article 250)
- 15-Conductors doubled under lugs were not approved.