



City of Gastonia
Inspections Division
PO Box 1748
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Memorandum

December 13, 2007

From: Lee Hayes City of Gastonia Asst. Inspections Superintendent.

Ref. Top 15 reasons for inspection failures

City of Gastonia Customers

The City of Gastonia Inspection Division has created a list of the top 15 reasons for inspection failures for each trade. The list is compiled using our failure codes from our inspectors over the last 12 months. This list was made to help our customers have an idea of why jobs are failing with hopes of decreasing this rate. If anyone has any questions about an item on the list feel free to contact our office at 704-866-6018.

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/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 were 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.