ROUGH-IN INSPECTION CHECKLIST

All sub-trade rough-ins (plumbing, gas, mechanical and electrical) must be completed and inspected before insulation.

Building permits must be on site and posted in order to receive inspections. All doors and windows must be installed in order to receive rough inspections. **DO NOT INSULATE EXCEPT CONCEALED WALLS, SUCH AS BEHIND SHOWERS AND CANTILEVERED FLOORS**. Air barriers must be installed as well in these concealed areas**.** Do not stack sheet rock along walls. All construction debris that will impede the inspection process must be removed. Inspections will not be conducted if rough framing or trade work is still in progress.

Every structure must have a 3/0 by 6/8 side-hinge exit door. Basements, habitable attics and sleeping room must have an emergency egress window or exit door. The window sash must open clear at least 20 inches wide, 24 inches tall, be within 44 inches of the floor and have an overall opening size of 5.7 net clear feet (821") or 5.0 for grade level openings. A sleeping room is any room with a clothes closet. (R310)

Every stair must be a minimum of 3 foot wide and have a 3-foot by 3-foot landing at the top and bottom unless it meets one of the exceptions in the code. Stair headroom, measured from the slope of the stairs, must be a minimum of 6'-8". (R311.7)

Glazing in windows in hazardous locations must be tempered. (ie.: doors, next to doors, over tubs, large picture windows, in stairwells, etc.). (R308.4)

All structural members, their size, spans and method of attachment are to be in accordance with the code. Any alternative material not prescribed in the code must be approved by the Building Official. (R301)

Cuts, notches and holes bored in laminated veneer lumber, glue-laminated members or I-joist are not permitted beyond the manufacturer's installation guide. Truss members shall not be altered in any way without the approval of the truss engineer. Truss design drawings shall be provided at time of inspection. Use "hurricane clips" and room tie-downs as specified per manufacturer or as required per Table R802.5.2. (R502.8, R502.11, R802.10.1)

Stud size and spacing. (R602.3) Studs require full bearing. (R602.3.4) Plate anchors per (R403)

Any framing member that has been cut or notched beyond allowances must be reinforced. (R602.6)

Wall bracing according to Design Category C and portal framing per R602.6

Attic areas shall be ventilated. A 22 inch by 30 inch minimum access shall be provided. A larger opening may be required when equipment is located in the attic. (R807.1, M1305.1.3).

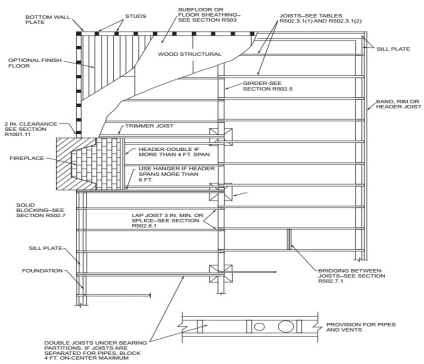
Plates shall be anchored with minimum 1/2-inch-diameter anchor bolts spaced not greater than 6 feet on center or approved anchors or anchor straps spaced as required to provide equivalent. Bolts shall extend not less than 7 inches into concrete or grouted cells. There shall be not fewer than two bolts per plate section with one bolt located not more than 12 inches or less than (7) bolt diameters from ends

Plywood, OSB and EIFS requires a weather resistant membrane (30# felt or house wrap) between masonry veneer and stucco. Do not install interior (conditioned side) vapor retarder, this will lead to moisture problems within the stud cavity. Foam plastic may be used if separated from the interior with ½" sheetrock. (R703.9.1, R314)

Flash porches, windows, doorsills and nailing flanges per manufacturer. Wall sheathing should be at leaset 6 inches from grade. (R703.8, R319.1)

A flight of stairs shall not have a vertical rise of more than 151" between floor levels or landings. (R311.7.3)

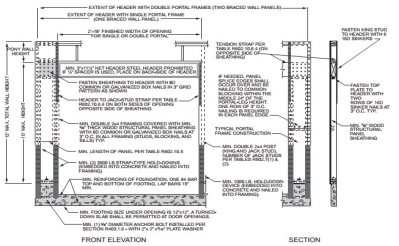
Header and girder spans per Table R602.7(1), Table R602.7(2) and R602.7(3).



Floor Joist span per Table R502.3.1(1) and R502.3.1(2)Floor Cantilever per R502.3.3

Joist bearing per R502.4 and R502.6- Where the header joist span exceeds 4 feet (1219 mm), the trimmer joists and the header joist shall be doubled and of sufficient cross section to support the floor joists framing into the header. R502.10

Draftstopping and fireblocking per R302.11 and R302.12



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PLUMBING ROUGH-IN INSPECTION CHECKLIST

The International Plumbing Code is referenced standard with Ga. Amendments
Proper pipe materials, fittings and slope. Support shall be per table 308.5. Cleanouts per 708
Water pressure-reducing valve per 604.8 and water hammer arrestors shall be installed at all quick-closing valves per 604.9 Provide bsckflow protection per 608.14.
Drain systems shall be tested by water with no evidence of leaking. Fill to the highest flood level rim. A 5psi air test may be used during freezing conditions. Water piping shall be tested and not less that the operating pressure-(80-100 psi) (312.2 and 312.5)
3/4" minimum main water service required with a minimum of 160psi working pressure. (603.1 and 605.3) Water fixture supply piping per table 604.5
Where pipe in installed through holes in plates or studs less than 1.25 inches from the edge of the member, shield pates shall be installed and extend 2" above the bottom plate and 2" below top plate. (305.6)
Use anti-scald shower valves□U□r□u□b□A□t
Vent terminals min. 6 inches above the roof. Roof boots should be installed. (903.1, 903.3).
Vent terminals shall not be within 10 feet horizontally of openings into the building unless it is at least 3 feet higher than the opening. (903.5)
Each plumbing fixture shall be separately trapped. The trap shall be placed as close as possible to the fixture outlet. The vertical distance from the fixture outlet to the trap weir shall not exceed 24 inches (610 mm). The distance of a clothes washer standpipe above a trap shall conform to Section 802.4.3. A fixture shall not be double trapped. Standpipes shall extend not less than 18 inches (457 mm) but not greater than 42 inches (1066 mm) above the trap weir. Access shall be provided to standpipes and drains for rodding(802.4.3)

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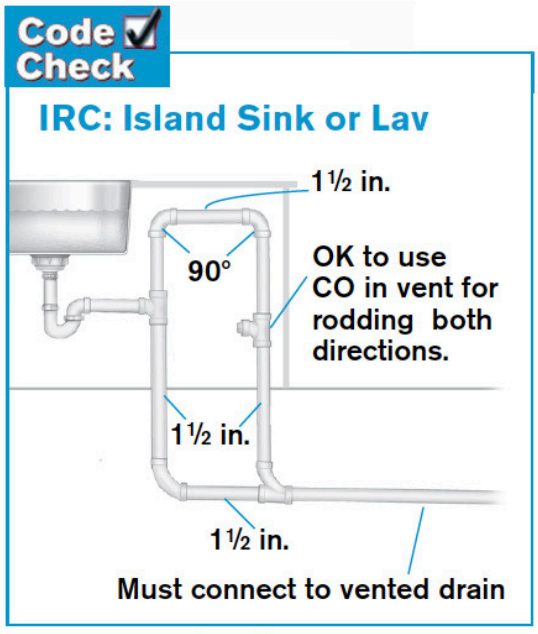

MECHANICAL ROUGH-IN INSPECTION CHECKLIST

Gas pipe shall be run to all locations and pressure tested. Test must be gauged from the location of the meter through the foundation to the approximate location of all appliances. A minimum test of 10 psi and the gauge must be calibrated to discern any leak. Mechanical gauges used to measure test pressure shall have a range such that the highest end of the scale is not more than five times the test pressure. A tag allowing connection to utility will be placed on the system once the rough-in inspection has passed. (G2417.4, G2417.1).
Use only appropriate piping materials (copper, CSST, black steel and wrought iron). Properly size and support gas piping. No unions, couplings, bushings and flared fittings shall be in concealed locations. Protect copper or CSST piping through wood membe3rs with shield plates. Protect piping against corrosion when passing through foundation walls and exposed to exterior locations. (G2411-G2417, M1308.2)
Fireplaces, vented or un-vented, must be installed. If gas is to be used in such fireplaces, the gas lines must be run and tested. (G2417.1)
The vent termination for a mechanical draft system shall not be mounted directly above or within 3 feet horizontally from an oil tank vent or a gas meter and shall not be closer than 3 feet of an interior corner formed by two walls perpendicular to each other. (M1804.2.6.3-M1804.2.6.5).
Fueled fired appliances are restricted in sleeping rooms, bathrooms and storage closets. See manufacturer's guidelines for exceptions. (G2406.2).
Air returns must be installed. Prohibited in kitchens, bathrooms, garages and within 10 feet of a fueled fired appliance. (M1602.2)
Supply boots must be installed and insulated in non-conditioned spaces conductive to condensation. (M1602.2).
Condensate and HVAC line sets should be installed and fire-stopped. (M1411, M1412).
All chimneys and vents shall be inspected for proper size and clearances. A mechanical draft venting system shall terminate at least 2 feet higher than any air inlet with 10 feet. (G2427.6.5)
Clothes dryer exhaust shall be roughed-in. Maximum length shall not exceed 25 feet. (G2439.5.1)
Bathroom exhaust fans must be installed in every bathroom and water closet and duct run to outside air. (R303.3)
The *International Mechanical Code* and the *International Fuel Gas Code* are referenced standards and may be used in conjunction with the IRC.

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ELECTRICAL ROUGH-IN INSPECTION CHECKLIST

The panel box needs to have the grounds and neutrals made up. No breakers are required. Service entrance must be run.
Wiring must be run to all locations. (R109.1.2)
Service loads shall be computed in accordance with the code. Services over 400 amps require a design professional. (E3502)
Unless the meter base and the service panel are located back-to-back or next to adjacent stud cavity, a four wire system with an exterior service disconnect is required. The sub-panel must isolate neutrals from the grounds. (NEC 230.70a and 230.91a)
A grounding electrode system is required at each structure served. Each electrode specified in section E3508 shall be bonded together to form the grounding electrode system. (E3508)
A four wire service is required for stoves and dryers. (NEC 400.5 or 250.59b)
Panel box locations must meet clearance (30 inches wide and 36 inches deep by 6'-6" high) and cannot be located in a bathroom or clothes closet. (E3305)
Receptacle spacing on walls shall not be more than 12 feet apart, within 6 feet of a door and on any wall over 2 feet in length. (E3801.2.1)
A minimum two 20-amp circuits are required in the kitchen, one in the laundry and one for the bathrooms. All must be wired with 12-gauge wire size. (E3603)
Kitchen countertop receptacle spacing is basically every 2 feet on center, with one receptacle required in any island or peninsula countertop over a certain size. (E3801.4)
Wiring shall be protected from abrasion and from physical damage. (E3805.1.2, Table E3701.4)
Holes closer than 1 ¼" from edge of member shall be protected with nail guards. (E3702.3.2)
Bond all metal water pipes. (E3509.6)
Bond each portion of a gas piping system that is likely to become energized. (G2411.1)
Use UL listed fixtures as designed or tested. (ceiling fans, wet and damp locations, recessed can lights, etc.) (E3903)
Luminaries in clothes closets must meet the required clearances from the fixture to the nearest point of storage space. Fixtures designed for candescent bulbs must meet the required clearances for candescent luminaries. Inserting a fluorescent bulb in a candescent luminary will not reduce the clearances required. (E3903.11)
Smoke detector wiring must be installed. One is required inside each sleeping room, immediately outside the sleeping room and each floor level of habitable spaces. They must be hard wired, interconnected and have battery backup. Refer to manufacture's installation instructions for specific application but in general, they must be located within 12 inches of the ceiling and 3 feet from any source of air movement (returns, registers, ceiling fans, etc).
Where installed in or attached to a building or structure, metal piping systems, including gas piping capable of becoming energized, shall be bonded to the service equipment enclosure or one or more of the grounding electrodes used. The points of attachment of the bonding jumper(s) must be accessible. (E3509.7)
The *National Electrical Code* is referenced standard and may be used in conjunction with the IRC.

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