

MECHANICAL INSPECTION MATRIX

				Residential Project ¹											
Inspection Code	Inspection Type	When an inspection is required ³	What is being inspected	House	Townhouse	Addition	Garage	Carport	Deck/Porch	Screened Porch ³	Sunroom ³	Shed	Finishing Attic/Basement	In-ground Pool & Enclosure	Above-ground pool & Enclosure
200	Mechanical Rough-in	Prior to concealment of walls, ceiling or floors	Exhaust fan, dryer vents and all ducts. Duct register openings in floors must be covered.	●	●	●	▲				▲	▲	●		
205	Gas Piping Rough-in ^{1, 2, 3, 4}	Prior to concealment with earth for lines below grade. Prior to concealment of walls, ceiling, floors, Earth backfill	Location, type of piping material, sizing, installation, depth of piping, and pressure test for all gas pipes	●	●	●	●		▲	▲	▲	▲	▲	▲	▲
210	Tank Inspection ⁶	Post setting tank above ground. Prior to backfilling below grade gas line	Installation of fuel tanks, corrosion protection, tank construction and support, location and size	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲
211	Tank Abandonment ⁶	Below grade and above grade fuel tank removal or abandonment. In place for below grade tank	Capturing PC # from DEQ, tank removal, tank has been opened, vacuumed and inert material (sand, foam or flowable fill) placed in tank	●	●	●	●	●	●	●	●	●		●	●
215	Gas Piping Final ^{3, 5, 6}	Prior to final plumbing and building inspection. After appliances are placed into service and operational. Appliance Installation Instructions left on site.	All equipment installed, hooked-up and in working condition. Gas meter installed, exposed exterior gas pipes that are not galvanized or copper must be protected against corrosion (painted). All copper gas pipes must be marked. Shut off valve location. Bonding/CSST	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲	▲
220	Chimney Liner ⁶	Masonry flue replaced with stainless steel liner system for fuel gas/liquid, or wood burning appliance	Liner system, debris trap, appliance connection, cap on termination. Pictures are allowed - call for details	●	●	●	●						●		
221	Prefabricated Fireplace ^{3, 5}	New and replacement of gas logs, insert, wall heater	Clearances to combustibles. Flue/vent connection, location of termination, make-up air	●	●	●	●			●	●	●	●	▲	▲
290	Final Mechanical ⁶	Prior to building inspection. After all appliances are installed and operational.	All heating, ventilation and air conditioning, grills and equipment installed and operational. Gas pipes connected to all gas appliances. All flue vents and openings from exhaust fans installed. All thermostats installed. Outdoor terminations.	●	●	●	●				●	●	●	●	●
295	Other Mechanical ⁶	Unique equipment/appliances, pool heaters, outdoor heaters, log lighters	Other mechanical equipment or appliances such as gas pumps, gas logs, fireplaces. Clearances to combustibles. Flue/vent connecting, location of termination, make-up air.	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲	▲

Revised October 25, 2023 Complies to 2018 VRC

● Required Inspection ▲ Inspection may be required. Obtain clarification on required inspections from inspector at initial inspection.

To schedule, reschedule or cancel an inspection go to the "Inspections" tab in your customer portal at Henrico.us/build or by calling the Automated Phone System at (804) 501-7770.

Footnotes:

¹ Permit Applicant may obtain either a mechanical permit or a plumbing permit to install gas piping or appliances, depending on DPOR credentials of permit applicant (Homeowners are exempt with restrictions).

² Spot backfilling is not allowed. Inspection on the entire length of installed piping is required. If unique situations exist call the inspector to discuss situation.

³ All gas appliances, new or replacement require permits and inspections.

⁴ Pressure test is required on all new piping. Test is to be on a 30 psi gauge with a test pressure of 15 psi minimum (half the face of the gauge).

⁵ Inspection can be done at the same time as the final mechanical. Final mechanical takes precedence. Exception: New gas fireplace needs rough-in prior to concealment for final.

⁶ A final mechanical inspection is required on all mechanical permits, and is needed prior to the final Building Inspection. Completing the Inspections in this order will close out the Mechanical Permit.

For questions regarding Inspections call (804) 501-4360. This inspection matrix is intended as a general guideline and may not be all inclusive. Other trades and County Agency's approvals are required prior to issuance of the Certificate of Occupancy.

The Permits Listed Below May Also Be Required

Building	A separate Building Permit and Inspections are required for new construction or demolition of a building or structure, installations or alterations involving the removal or addition of any wall, partition or portion thereof, any structural component, the repair or replacement of any component of a fire or smoke rated assembly, the alteration of any required means of egress system, the removal or disturbing of any asbestos containing materials during the construction or demolition of a building or structure, including additions.
Plumbing	A separate Plumbing Permit and Inspections are required for new construction. Additions or alterations in a plumbing/gas piping system also require permits and inspections. Examples of work that requires permits, but not limited too are: addition of new kitchen sink, water and dryer hookup, new bathroom. All gas appliances wheather new or replaced require permits and inspections, see footnotes #1 and #3.
Electrical	A separate Electrical Permit and Inspections are required when installing electrical fixtures/equipment.

Refer to previous page for footnotes

DPOR = Department of Professional and Occupational Regulation. It is an agency in Virginia that issues professional licenses, certificates, or registrations to those qualified to practice in regulated professions.

DEQ = Department of Environmental Quality