



Inspection Checklist – Mechanical Final

Property Owner Name:

Property Address:

Property Parcel Number:

Inspectors Name:

Review Date:

Permits and Plans			
	Yes	No	Comments
1. Job address is posted in a visible location. (R319.1)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Permit and approved plans, and mechanical construction documents are on site and accessible to the inspector. (R105.7) (R106.3.1)	<input type="checkbox"/>	<input type="checkbox"/>	
3. A permanent factory applied nameplate is affixed to appliances and includes all required information. (M1302.1)	<input type="checkbox"/>	<input type="checkbox"/>	
4. Manufacture’s installation instructions are available and onsite. (R106.1.2)	<input type="checkbox"/>	<input type="checkbox"/>	
5. Prior required mechanical rough-in inspections are approved. (R109.1.2)	<input type="checkbox"/>	<input type="checkbox"/>	
6. Air leakage testing has been performed and documented. (N1102.4)	<input type="checkbox"/>	<input type="checkbox"/>	

Garage			
	Yes	No	Comments
1. Source of ignition on gas appliances (water heaters, furnaces, & electronic air cleaners) must be a minimum of 18" above the floor. (M1307.3) (G2408.2)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Exposed ducts to be a minimum of 26 gauge sheet metal with no openings into garage. (R302.5.2)	<input type="checkbox"/>	<input type="checkbox"/>	
3. All ducts in attic, garage, crawl space, or other unconditioned spaces, insulated with minimum R-6. (N1103.2.1)	<input type="checkbox"/>	<input type="checkbox"/>	
4. Bollard or wheel stop required if equipment is subject to mechanical damage. (M1307.3.1)	<input type="checkbox"/>	<input type="checkbox"/>	
Gas Piping			
	Yes	No	Comments
1. Drip legs installed at each appliance or where condensation could collect. (G2419.2)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Sediment trap shall be installed downstream of the appliance shutoff valve as close to the inlet of the appliance as practical. (G2419.4)	<input type="checkbox"/>	<input type="checkbox"/>	
3. Unions or flex connectors are installed between shut-off valve and appliance. (G2422.1.4)	<input type="checkbox"/>	<input type="checkbox"/>	
4. Unions or flex connectors cannot be concealed within or extend through a wall, floor, partition or appliance housing. (G2422.1.2.3)	<input type="checkbox"/>	<input type="checkbox"/>	
5. One flex connector up to 6" long is allowed on each appliance. (G2422.1.2.1)	<input type="checkbox"/>	<input type="checkbox"/>	
6. A shut-off valve is required in for each appliance, upstream of union and accessible. (G2420.5)	<input type="checkbox"/>	<input type="checkbox"/>	
7. Steel pipe shall be supported at correct spacing intervals. (G2424.1)	<input type="checkbox"/>	<input type="checkbox"/>	

<p>8. Piping cannot be installed in or through a ducted supply, return, supply or exhaust, or clothes chute, chimney or gas vent, ventilating duct, dumbwaiter or elevator shaft. (G2415.3)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>9. Vent piping for relief vents and breather vents must be vented directly and independently to the outdoors. (G2421.3) (G2321.3.1)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
Appliance Vents			
	Yes	No	Comments
<p>1. Gravity venting system of equivalent area to the vent collar on the appliance. Performance standards can reduce the vent size. (G2428.2.2)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>2. Single wall vents or B vents connecting to flue collars or draft hoods can be screwed or riveted as recommended by the manufacturer. (G2427.10.6)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>3. Vents connected to common vent system within the same story require inlets to be at the highest level consistent with headroom and clearance to combustibles. Vent system area cannot be less than the area of the largest vent plus 50% of the smaller flue collar added. (M1801.11) (G2427.10.3.4)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>4. Offsets in gravity vents installed with as many offsets as required that do not exceed 45 degrees from vertical, except no more than one of 60 degrees is allowed and horizontal runs do not exceed 75% of the vertical height of the venting system. (G2427.6.8.2)</p>	<input type="checkbox"/>	<input type="checkbox"/>	

<p>5. Vent connectors serving Category 1 appliances are not connected to any portion of a mechanical draft system operating under positive pressure. (G2427.10.4)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>6. Gas vents less than 12" in diameter in roofs with pitches less than or equal to 6/12 can terminate a minimum of 12" above the roof as long as such vents are at least 8,, from a vertical wall or similar obstruction. (G2427.6.3)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>7. Vent clearances to combustibles are per manufacture's listing or performance standards. (M1803.3.4) (M1306.2) (G2427.7.7)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>8. Single wall vents cannot penetrate a wall, floor or ceiling without a thimble and piping limited to the space the equipment is located to the roof or exterior wall. (M1803.3.1) (G2427.7.7)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>9. Direct vent terminations installed per the manufacturer's listing. (M1804.2.5)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>10. Mechanical draft venting systems shall be installed in accordance with their listing, and: terminate not less than 4" below or 4" horizontally from, and not less than 1" above a door, an operable window or a gravity air inlet into a building, nor within 10" of a forced air intake nor within 12" above grade. (M1804.2.6)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>11. Where vents extending into an attic pass through insulated assemblies, an insulation shield of 26 gage sleeve not less than 2 inches above the insulation to be secured in place and maintain required clearances to combustibles. (G2426.4)</p>	<input type="checkbox"/>	<input type="checkbox"/>	

12. Vent connector clearance to combustibles installed per Table G2427.10.5.	<input type="checkbox"/>	<input type="checkbox"/>	
13. Single wall connectors cannot originate in an attic or concealed space or pass through an attic, inside a wall or concealed space. (G2427.7.6)	<input type="checkbox"/>	<input type="checkbox"/>	
14. When a vent connector of a gas appliance with a draft hood is located within or passes through a cold area, that portion of the connector is a type B or type L vent. (G2427.10.2.2)	<input type="checkbox"/>	<input type="checkbox"/>	
15. B vent chimneys supported above the roof per manufacturer's requirements. (G2427.6.9)	<input type="checkbox"/>	<input type="checkbox"/>	
16. Type B or L vents terminate at least 5 feet in vertical height above the highest connected equipment draft hood or flue collar. (G2427.6.4)	<input type="checkbox"/>	<input type="checkbox"/>	
17. Plastic vent joints require primer of a contrasting color per appliance manufacturer's installation instructions. (G2427.4.1.1)	<input type="checkbox"/>	<input type="checkbox"/>	
Gas Water Heaters			
	Yes	No	Comments
1. Seismic strapping installed at proper locations. (M1307.2)	<input type="checkbox"/>	<input type="checkbox"/>	
2. A water heater when installed in the normal path of a vehicle requires protection. (M1307.3.1)	<input type="checkbox"/>	<input type="checkbox"/>	
3. Fuel fired water heaters can not be installed in a room used as a storage closet. A water heater installed in a bedroom or bathroom needs to be installed in a sealed enclosure so that combustion air will not be taken from the living space. Direct-vent water heaters are not required to be installed within an enclosure. (M2005.2) (G2406.2)	<input type="checkbox"/>	<input type="checkbox"/>	

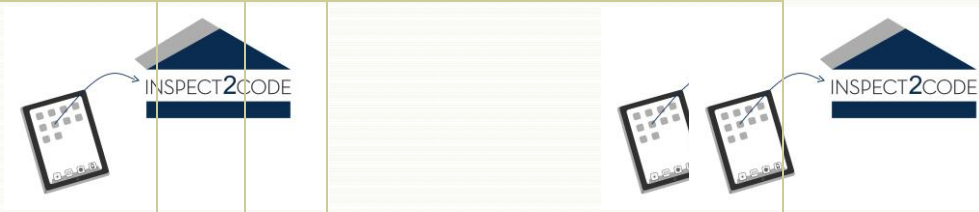
Furnaces			
	Yes	No	Comments
1. Furnace and Air Handler have working space clearance – sides min. 3”; total min. 12” bigger than appliance, except replacement appliances. (M1305.1.1)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Maintain required clearances to combustible construction as specified in the listing. (M1402.2) (M1306.1)	<input type="checkbox"/>	<input type="checkbox"/>	
3. Equipment supported on concrete pad or approved material extending not less than 3” above the adjoining ground. (M1305.1.4.1)	<input type="checkbox"/>	<input type="checkbox"/>	
4. Condensate lines are required to drain by gravity to an approved drain or condensate pump. (G2427.9) (M1411.3)	<input type="checkbox"/>	<input type="checkbox"/>	
5. Condensing Appliances: Vent per installer’s instruction. (G2427.8)	<input type="checkbox"/>	<input type="checkbox"/>	
Whole House Ventilation Systems			
	Yes	No	Comments
1. Exhaust air from bathrooms and toilet rooms is not recirculated within the residence. Exhausted directly to outdoors and not discharged into attic, crawlspace. (M1507.2)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Whole-house mechanical ventilation provided with controls for manual override. (M1507.3.2)	<input type="checkbox"/>	<input type="checkbox"/>	
3. Whole-house mechanical ventilation provides outdoor air at a continuous rate of not less than Table [M1507.3.3 (1)]. (M1507.3)	<input type="checkbox"/>	<input type="checkbox"/>	

4. Exhaust system is designed to have minimum exhaust capacity in accordance with Table [M1507.4] (M1507.4)	<input type="checkbox"/>	<input type="checkbox"/>	
Range Cooktop			
	Yes	No	Comments
1. Combustibles installed not less than 24" from open top broilers. See manufacturer's installation instructions. (M1505.1) (G2447.5)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Distance above top of cooking top to unprotected combustible material not less than 30". (M1901.1) (G2447.5)	<input type="checkbox"/>	<input type="checkbox"/>	
3. Clearance to adjacent combustibles surfaces per the manufacturer's installation instructions. (M1901.2) (G2447.4)	<input type="checkbox"/>	<input type="checkbox"/>	
4. Make-up air is required when the range exhaust fan exceeds 400 cfm. Such make-up air systems shall operate simultaneously with the exhaust fan. (M1503.4)	<input type="checkbox"/>	<input type="checkbox"/>	
Fireplace			
	Yes	No	Comments
1. Factory built fireplaces certified, listed and labeled. (R1004.1)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Hearth extensions are to be readily distinguishable from the surrounding floor and in accordance with the fireplace listing. (R1004.2)	<input type="checkbox"/>	<input type="checkbox"/>	
3. Decorative gas fireplace installed per manufacturer's installation instructions when installed in a solid fuel burning fireplace. (G2432.1)	<input type="checkbox"/>	<input type="checkbox"/>	

<p>4. Appliance shutoff valves shall be located in the same room, and within 6" of the appliance. Appliance shutoff valves located in fireplace firebox shall be installed per the appliance manufacturer's instructions. (G2420.5.1)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>5. Shutoff valves for vented decorative appliances and room heaters shall be permitted to be installed in a remote area from the appliance where such valves are provided with: ready access; permanent identification; and serve no other appliance. (G2420.5.2)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>6. Shutoff valve installed at a manifold. (G2420.5.3)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>7. Decorative shrouds used at chimney terminations are to be listed and labeled for use with specific chimney system. (R1004.3) (R1005.2)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>8. Gas logs in solid fuel burning fireplace are installed per manufacturer's instructions. (G2420.5.1) (G2433.1)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>9. Gas logs, when equipped with a pilot, have a listed safety shutoff valve. (G2420.5) (G2432.2)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
Laundry Room			
	Yes	No	Comments
<p>1. A 4" metal dryer exhaust duct is installed with smooth interior. Install per the manufacturer's instructions. (G2439.5) (M1502.2) (M1502.4.4.2)</p>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>2. A permanent label identifying the length of effective length of the duct shall be installed when the duct is concealed within the building</p>	<input type="checkbox"/>	<input type="checkbox"/>	

construction. (M1502.4.5)			
3. Approved flexible listed metal duct connector up to 8" long, may connect the dryer to the vent, but may not extend into wall, floor or ceiling. (G2439.5.4) (M1502.4.3)	<input type="checkbox"/>	<input type="checkbox"/>	
4. Minimum 100 square inches of make up air for closets designed for the installation of gas clothes dryers or other approved means. (G2439.4)	<input type="checkbox"/>	<input type="checkbox"/>	
5. Dryer duct is the correct length. (M1502.4.4) (G2439.5.5)	<input type="checkbox"/>	<input type="checkbox"/>	
Crawl Space and Attic			
	Yes	No	Comments
1. Flex duct is supported per manufacturer's installation instructions (M16011.4.3)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Metal ducts shall be supported by ½ inch wide 18-gage metal straps or 12-gage galvanized wire at intervals not exceeding 10 feet. (M1601.4.3)	<input type="checkbox"/>	<input type="checkbox"/>	
3. Ducts in crawl spaces are supported at least 4" above the ground. (1601.4.7)	<input type="checkbox"/>	<input type="checkbox"/>	
4. Cooling supply ducts that pass through unconditioned space require a vapor barrier or aluminum foil on the exterior of insulation. (M1601.4.5)	<input type="checkbox"/>	<input type="checkbox"/>	
5. When equipment is installed in a crawl or attic space r a light switch and outlet is required at or near appliance (M1305.1.4.3) (M1305.1.3.1)	<input type="checkbox"/>	<input type="checkbox"/>	
6. Verify the correct access and passageway dimensions for appliances in attic. (M1305.1.3)	<input type="checkbox"/>	<input type="checkbox"/>	
7. Verify the correct access and passageway dimensions for appliance in crawl space. (M1305.1.4)	<input type="checkbox"/>	<input type="checkbox"/>	

General			
	Yes	No	Comments
1. Weather protect exterior gas line. (G2415.9)	<input type="checkbox"/>	<input type="checkbox"/>	
2. Appliances installed in outdoor locations – listed or protected from outdoor environmental factors. G2406.3)	<input type="checkbox"/>	<input type="checkbox"/>	
3. Louvers and grills are to be sized to account for the net free area of the grill. Wood louvers will be assumed to have 25% free areas and metal louvers and grills will have a 75% free area. Screens are not to have a mesh size smaller than ¼". (G2407.10)	<input type="checkbox"/>	<input type="checkbox"/>	



Inspection Checklist – Mechanical Final Core Checklist

Property Owner Name:
 Property Address:
 Property Parcel Number:
 Inspectors Name:
 Review Date:

Property Owner Name:
 Property Address:
 Property Parcel Number:
 Inspectors Name:
 Review Date:

Permits and Plans

Permits and Plans

	Yes	No	Comments	Yes	Yes	Comments
Job address is posted in a visible location. (R319.1)	<input type="checkbox"/>	<input type="checkbox"/>	Job address is posted in a visible location. (R319.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permit and approved plans, and mechanical construction documents are on site and accessible to the inspector. (R105.7) (R106.3.1)	<input type="checkbox"/>	<input type="checkbox"/>	Permit and approved plans, and mechanical construction documents are on site and accessible to the inspector. (R105.7) (R106.3.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A permanent factory applied nameplate is affixed to appliances and includes all required information. (M1302.1)	<input type="checkbox"/>	<input type="checkbox"/>	A permanent factory applied nameplate is affixed to appliances and includes all required information. (M1302.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer's installation instructions are available and onsite. (R106.1.2)	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer's installation instructions are available and onsite. (R106.1.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prior required mechanical rough-in inspections are approved. (R109.1.2)	<input type="checkbox"/>	<input type="checkbox"/>	Prior required mechanical rough-in inspections are approved. (R109.1.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air leakage testing has been performed and documented. (N1102.4)	<input type="checkbox"/>	<input type="checkbox"/>	Air leakage testing has been performed and documented. (N1102.4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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4. All appliances secured in place per manufacturer's listing. (M1307.2) (M1401.1)	<input type="checkbox"/>	<input type="checkbox"/>	
5. Confirm that there is a heat source in each habitable room (R303.9)	<input type="checkbox"/>	<input type="checkbox"/>	

General Comments: