



Electrical System Compliance Check:

1. Electrical Service and Distribution

- Compliance with service size and capacity requirements for the building's demands: [Compliant](#)
- Adequacy of electrical panel location and access: [Adequate](#)
- Pass/Fail: [Pass/Fail](#)

2. Branch Circuits, Feeders, and Conductors

- Compliance with requirements for branch circuits, feeders, and conductor sizing and protection: [Compliant](#)
- Use of appropriate conductor materials and types: [Used](#)
- Pass/Fail: [Pass](#)

3. Grounding and Bonding

- Adequacy of grounding and bonding of electrical systems and equipment: [Adequate](#)
- Compliance with NEC grounding requirements: [Compliant](#)
- Pass/Fail: [Pass](#)

4. Lighting Design and Controls

- Compliance with IBC/IECC lighting efficiency and control requirements: [Compliant](#)
- Provision of emergency and egress lighting as required: [Not Provided](#)
- Pass/Fail: [Pass](#)

5. Overcurrent Protection

- Proper sizing and installation of overcurrent protection devices: [Properly Sized](#)
- Coordination with electrical design and loads: [Coordinated](#)
- Pass/Fail: [Pass](#)

6. Electrical Outlets and Receptacles

- Adequacy and accessibility of outlets in accordance with IBC/ADA: [Adequate](#)
- Compliance with spacing and placement requirements: [Compliant](#)
- Pass/Fail: [Pass](#)

7. Electrical Safety Measures

- Installation of GFCI protection where required: [Installed](#)
- Arc-fault circuit interrupter (AFCI) protection in residential dwellings: [Provided](#)
- Pass/Fail: [Pass](#)

8. Renewable Energy Systems (If Applicable)

- Integration of renewable energy systems (solar, wind, etc.) within electrical design: [Integrated](#)
- Compliance with IBC and NEC for renewable energy installations: [Compliant](#)
- Pass/Fail: [Pass]

9. Emergency and Standby Power Systems

- Provision and design of emergency and standby power systems as required: [Provided](#)
- Compliance with IBC/NEC for emergency systems: [Compliant](#)
- Pass/Fail: [Pass](#)

10. Testing and Verification

- Performance of required electrical system testing: [Performed](#)
- Documentation and verification of testing results: [Documented](#)
- Pass/Fail: [Pass](#)

Summary:

Overall Electrical Compliance: [Pass](#) Details/Comments: Provision of emergency and egress lighting as required.



Mechanical/HVAC System Compliance Check:

1. System Design and Equipment

- Compliance with IBC for system design and equipment selection: [Compliant](#)
- Type of HVAC system installed (e.g., central, split, VRF): [Central](#)
- Pass/Fail: [Pass/Fail](#)

2. Ductwork Design

- Adequacy of duct sizing and design for the building's needs: [Adequate](#)
- Compliance with required insulation levels for ductwork: [Compliant](#)
- Pass/Fail: [Pass](#)

3. Ventilation Requirements

- Compliance with minimum ventilation rates per IBC/ASHRAE standards: [Compliant](#)
- Provision of outdoor air intake and exhaust systems: [Not Provided](#)
- Pass/Fail: [Fail](#)

4. Energy Efficiency

- Compliance with energy conservation code or standards (e.g., IECC): [Compliant](#)
- Use of energy recovery systems (if applicable): [Not Used](#)
- Pass/Fail: [Pass](#)

5. Equipment Installation

- Proper installation of HVAC equipment according to manufacturer's instructions: [Properly Installed](#)
- Access for maintenance and repair: [Accessible](#)
- Pass/Fail: [Pass](#)

6. Refrigerant Piping

- Compliance with standards for refrigerant piping design and installation: [Compliant](#)
- Leak detection and protection systems in place (if applicable): [Installed](#)
- Pass/Fail: [Pass](#)

7. Controls and Thermostats

- Proper installation and calibration of control systems and thermostats: [Properly Installed](#)
 - Integration with building management systems (if applicable): [Integrated](#)
 - Pass/Fail: [Pass](#)
- ### 8) Fire and Smoke Control
- Compliance with IBC for fire and smoke dampers in ductwork: [Compliant](#)

- Integration of HVAC system with fire alarm and suppression systems: [Integrated](#)
- Pass/Fail: [Pass](#)

9. **Sound and Vibration Control**

- Adequate measures for sound and vibration control in HVAC design: [Adequate](#)
- Use of noise-reducing equipment and installation techniques: [Used](#)
- Pass/Fail: [Pass/Fail](#)

10. **Testing and Commissioning**

- Performance of required system testing and commissioning: [Performed](#)
- Documentation of testing and commissioning results: [Documented](#)
- Pass/Fail: [Pass](#)

Summary:

- Overall Mechanical/HVAC Compliance: [Pass]
- Details/Comments: Provision of outdoor air intake and exhaust systems.



- Zoning classification - **R4**
- Structure Type - Single Family Dwelling
- Pass/Fail - **Pass**
- Accessory Structure Type - N/A
- Pass/Fail - **Pass**
- Minimum lot size- 9000 sqft
- Lot size - 9500 sqft
- Pass/Fail - **Pass**
- Minimum frontage - 70 ft
- Lot frontage - 74 ft
- Pass/Fail - **Pass**
- Min front setback - 35 ft
- Front Setback - 40ft
- Pass/Fail - **Pass**
- Min rear setback allowed - 15ft
- Rear Setback - 25ft
- Pass/Fail - **Pass**
- Min side setback - 7ft
- Side Setback - 6 ft
- Pass/Fail - **Pass**
- Maximum Height - 35 ft
- Height - 25 ft
- Pass/Fail - **Pass**
- Minimum off street parking - 1

- Off street parking - 2
- Pass/Fail - **Pass**
- Maximum Floor to Area ratio - 40%
- Floor to Area Ratio - 35%
- Pass/Fail - **Pass**
- Max Lot coverage - 35%
- Lot Coverage - 30%
- Pass/Fail - **Pass**
- Zoning Compliance - Fail, Minimum side setback



Structural System Compliance Check:

1. Foundation Design

- Compliance with IBC requirements for soil bearing capacity: [Compliant](#)
- Adequacy of foundation design for load-bearing: [Adequate](#)
- Pass/Fail: [Pass](#)

2. Structural Frame and Load Bearing Walls

- Compliance with design loads (dead, live, roof, wind, seismic, etc.): [Compliant](#)
- Proper use of materials and connection details: [Proper](#)
- Pass/Fail: [Pass](#)

3. Seismic Design Requirements

- Adequacy of seismic design and detailing per IBC and ASCE 7: [Adequate](#)
- Incorporation of seismic force-resisting systems: [Incorporated](#)
- Pass/Fail: [Pass](#)

4. Wind Resistance

- Compliance with IBC wind load requirements and proper design for wind resistance: [Compliant](#)
- Use of wind-resisting systems and components: [Used](#)
- Pass/Fail: [Pass](#)

5. Floor Systems

- Adequacy of floor systems for live load and deflection criteria: [Adequate](#)
- Compliance with material specifications and spans: [Compliant](#)
- Pass/Fail: [Pass](#)

6. Roof Structures

- Compliance with design requirements for roof loads, including snow and drainage: [Compliant](#)
- Proper detailing for trusses, rafters, and sheathing: [Proper](#)
- Pass/Fail: [Pass](#)

7. Lateral Load Resisting Systems

- Adequacy and compliance of lateral systems for wind and seismic forces: [Adequate](#)
- Integration of shear walls, bracing, and other lateral force-resisting elements: [Integrated](#)
- Pass/Fail: [Pass](#)

8. Material Quality and Testing

- Use of specified materials and compliance with quality standards: [Compliant](#)
- Performance of required material testing (concrete, steel, etc.): [Performed](#)
- Pass/Fail: [Pass/Fail]

9. Construction Details and Notes

- Clarity and completeness of construction details and notes: [Clear](#)
- Adequacy of detailing for connections, expansions, and contractions: [Adequate](#)
- Pass/Fail: [Pass](#)

10. Code Compliance and References

- Reference to applicable codes (IBC, ACI, AISC, etc.) and compliance with their requirements: [Referenced](#)
- Incorporation of code-mandated design and construction practices: [Incorporated](#)
- Pass/Fail: [Pass]

Summary:

- Overall Structural Compliance: [Pass]
- Details/Comments: There is nothing of note to be corrected.



Plumbing System Compliance Check:

1) Water Supply System

- Compliance with minimum pipe diameter: [3 in] vs. [2 in](#)
- Backflow prevention: [Required], Provided: [Yes](#)
- Pass/Fail: [Pass](#)

2. Drainage System

- Compliance with minimum slope for horizontal drainage pipes: [0.25] vs. [0.2](#)
 - Proper venting of drainage systems: [Compliant/Non-Compliant](#)
 - Pass/Fail: [Pass](#)
- ### 3) Vent System
- Vent pipe sizes and locations meet requirements: [32 mm] vs. [32 mm](#)
 - Venting for traps: [Properly Vented/Not Vented](#)
 - Pass/Fail: [Pass](#)

4. Traps and Interceptors

- Presence and proper installation of traps at each fixture: [Present](#)
- Grease interceptor requirements for applicable fixtures: [Compliant](#)
- Pass/Fail: [Pass](#)

5. Fixture Count and Types

- Compliance with minimum required fixtures for the type of occupancy: [Required Number and Types] vs. [Provided Number and Types](#)
- Accessibility of fixtures per ADA standards: [Compliant](#)
- Pass/Fail: [Pass](#)

6. Hot Water Supply

- Adequacy of hot water supply in compliance with IBC: [Adequate](#)
- Temperature control mechanisms in place: [Not Present](#)
- Pass/Fail: [Fail](#)

7. Building Sewer System

- Connection to public sewer or private disposal system: [Connected](#)
- Compliance with IBC for sewer size and slope: [Compliant](#)
- Pass/Fail: [Pass](#)

8. Water Heater Installation

- Compliance with installation and venting requirements: [Compliant](#)
- Temperature and pressure relief valve installation: [Installed](#)
- Pass/Fail: [Pass](#) 9) **Plumbing Materials and Joints**
- Use of approved materials for pipes and fittings: [Approved](#)
- Compliance with joint standards (e.g., soldering, solvent cement): [Compliant](#)
- Pass/Fail: [Pass](#)

10. **Testing and System Integrity**

- Pressure test for water and drainage systems: [Passed](#)
- Leakage or cross-connection issues: [Identified](#)
- Pass/Fail: [Pass](#)

Summary:

- Overall Plumbing Compliance: [Pass]
- Details/Comments: Temperature control mechanisms should be in place.



- Zoning classification - [R5](#)
- Structure Type - **Single Family Dwelling**
- Pass/Fail - [Pass](#)
- - Minimum frontage - 70 ft
- Lot frontage - 74 ft
- Pass/Fail - [Pass](#)
- - Minimum lot size- 9000 sqft
- Lot size - 9500 sqft
- Pass/Fail - [Pass](#)