

2006 I-Code Update Mech/Plumb/Electric Fuel Gas



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2006 IMC

- IRC R408.3 – Unvented crawlspaces continuously exhausted or supplied with conditioned air (1 CFM/50 sq. ft.)
- HVAC design conditions spelled out in Section 312.
 - Indoors Max 72F in winter/Min 75 in summer
 - Outdoors per ASHRAE Fundamentals weather data
- NJ requirements spelled out in Section 301 of IECC
 - Indoors Max 72F in winter/Min 75 in summer
 - Outdoors 6-11F winter/89-90F summer, depending on climate zone
- IRC R1501.1 – Specifically prohibits building exhaust discharge to attic, soffit vent, ridge vent or crawl space.

2006 IMC

- IRC M1502.2 – Dryer vent termination no closer than 3 feet to the nearest building opening. Not in the Mechanical code, so only applicable for 1 and 2 family.
- IMC 603.9 – “All joints, longitudinal and transverse seams, and connections in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems or tapes.” Tapes and mastics shall be listed and labeled in accordance with UL 181A for the appropriate sealant and duct material. Unlisted tape is not permitted.
- IECC 403.2.1 – Supply and return ducts outside the thermal envelope must be insulated with R-8. Ducts in floor trusses must be insulated with R-6.



2006 IFGC

- IFGC 303 - Combustion appliances cannot be located in, or draw combustion air from, or open only into a sleeping room, bathroom, toilet, storage closet or surgical room unless the appliance is a direct vent appliance.
- IFGC 304 – Combustion, Ventilation and Dilution Air
 - Standard method for providing indoor combustion air is having 50 cubic feet of indoor volume/1000 Btu/hr total input with indoor high/low openings to connect spaces.
 - Buildings with “known air-infiltration-rate” as low as 0.30 ACH and fan assisted appliances do not need more than the standard amount of indoor combustion air (typical Energy Star Home)
 - Outdoor air required only if sufficient indoor air cannot be obtained.

2006 IFGC

- IFGC 404.1 – Fuel gas piping installed downstream of the point of delivery shall not extend through any townhouse unit other than the unit served by such piping.
- A townhouse is defined in 2006 IRC as “A single-family dwelling unit constructed in a group of three or more attached units in which each unit extends from foundation to roof and with open space on at least two sides.”



2006 IPC

- IPC 424.5 – All bathtubs and whirlpool tubs shall be equipped with temperature control valves set to 120F maximum, except where protection is provided by combination tub/shower valve (single handle).
- IRC P2801.7 – Water heaters in townhouses in Seismic Design Category C (includes portions of northeastern NJ and southern NY) shall be anchored and strapped to resist horizontal forces.
- IPC 917.3 – Air admittance valves can be used at the top of up a vent stack for up to 6 branch intervals. At least one vent to atmosphere is required for each drainage system.

2006 NSPC

- NSPC 3.4.2.1 – Water piping used for combination domestic/fire water services must be rated at 200 psig at 73F. Copper or ductile iron will be required.
- NSPC Table 5.2 – The minimum trap size for a single head shower stall has been reduced from 2” to 1 ½”.
- NSPC 5.4.13 – A readily removable trap no more than 1 size smaller than the drain served can be used as a cleanout, i.e. kitchen sink, bar sink, lav.

2006 NSPC

- NSPC 7.23 – NJ has replaced the entire section addressing Safety Features for Spas and Hot Tubs and included Swimming Pools
- NSPC 11.3 – 1/8” per foot pitch can now be used for 3” and larger drain lines. Previously, 1/8” pitch could be used only for 4” and larger.
- NSPC 12.5, 12.8.2 – NJ has deleted sections addressing Frost Closure and Provision for Venting Future Fixtures (carry over from 2003)



Missing ceiling insulation

2006 IEC/2005 NEC

- IRC R303.6.1 – Lighting outlets in interior stairs with 6 or more risers must have a switch at each floor level.
- IRC E3801.4.2 – Arc fault protection is required for bedrooms. Including smoke detectors on bedroom circuits can eliminate the need for an additional AFCI breaker.
- NEC 210.8 – All receptacles within 6 feet of any sink must be GFI. Remember bar and laundry sinks.
- NEC 422.51 - GFI receptacles are required for plug connected venting machines.

2006 IEC/2005 NEC

- NEC 210.52(D) – Permits bathroom GFI outlets to be installed in the side or face of the base cabinet no more than 12” below the counter top. GFI’s previously had to be installed above the counter.
- NEC 210.52(E) – Required outdoor receptacle for tenant at grade level in a multi-family building must be installed no more than 2 feet above grade. Can no longer be installed in the light fixture.
- NEC 210.8 – All receptacles within 6 feet of any sink must be GFI. Remember bar and laundry sinks.
- NEC 408.4 – Completed circuit identification labels are required in all panel boards.