

# TOWN OF ELLINGTON BUILDING DEPARTMENT

57 Main Street Ellington, CT 06029 (860) 870-3124

## Some notable changes with the adoption of the CT 2021 IRC

Note: this list does not contain all changes and options. Consult the code for further items and details.

### General:

- Vapor barrier to be 10 mil (R506.2.3)
- Deck section R507. Contains more guidance on footings, spans, cantilevers, and guards.
- 4”max on all riser openings (AMD R311.7.5.1)
- Tempered glass in bathroom within 60” from tub/shower. Wording changed from “facing” to “adjacent”. (R308.4.5)
- Pool codes changed to the 2021 ISPC. Onground pool ladders no longer required to have a self-closing latching gate. Ladder to be capable of being secured, locked, or removed. (ISPC 305.5(3)).

### Electrical:

- GFCI:
  - All exterior outlets up to 240V/ 50 amp like AC compressors, etc. Includes hardwired equipment. (210.8(F). Ct amended Exception 2 to exclude mini split compressors.
  - Anything within 6’ of the sink (including 240V). (210.8(A)(7))
  - Laundry rooms including 240V dryers. (210.8(A)(10))
  - Basements whether finished or not. Finished will now be combo afci/gfci. (210.8(A)(5))
  - All garages and accessory structure receptacles (includes 240V). (210.8(A)(2))
  - Pool motors now includes heaters, etc. Up to 240V/ 60 amp. (680.21(C))
- Island receptacles now 1 for the first 9sf of counter, then 1 every 18sf. Peninsula the same except one within 2’ of the end. (210.52(C)(2))
- Outdoor service disconnect on new homes only. (230.85amd)
- Surge protector on new services. Includes service changes. (230.67)
- Electric services now require barriers/terminal insulators placed on service panel main terminals. (230.62(C))
- Two family and IRC townhouse services may require separation. (230.71)

## **Energy/Mechanical:**

- R60 in ceiling. Walls to be R30 or R20cavity+5 continuous or R13cavity+R10continuous (Table N1102.1.3). If continuous insulation is chosen, then details of weather resistant barrier, window flashing, and interior vapor retarder will need to be discussed. Some insulation products are not listed as a WRB.
- If using continuous insulation, check vapor retarder. If continuous insulation choice is a type 1 retarder, then no interior plastic type 1 allowed. Kraft facing on batts okay. (R702.7)
- Meet all typical envelope requirements and now add 1 extra. Typical choices will be high efficiency HVAC, high efficiency water heater, have all ducts in conditioned space, install HRV/ERV (N1101.13.5)(N1108)
- The whole house ventilation fan is required to be tested. (N1103.6.3)
- Whole house ventilation updated rate calculation. (M1505.4.3)
- Whole house ventilation control to be marked/labeled. (M1505.4.2)
- Electrical boxes in thermal barrier walls to be labeled air sealed boxes. (N1102.4.6)
- Lighting on dimmers or sensors (N1104.2)
- Ducts now R8 in all non-conditioned space. Will require testing even if all located within thermal envelope. (N1103.3.6)(N1103.3.1)
- Ducts buried in attic insulation to have at least a combined R19 insulation above and below. (N1103.3.3)
- Make up air in kitchens need to fully match fan rate when over 400cfm. Not required if there are no gas fired appliances that are not direct vent. (M1503.6)