

TOWN OF ELLINGTON BUILDING DEPARTMENT

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

BUILDING INSULATION REQUIREMENTS

With the adoption of the 2021 International Residential Code, insulation values have increased. The following is the prescriptive envelope component criteria for new constructions, additions, and renovations to one- and two-family dwellings in the Town of Ellington, which is in Climate Zone 5. Please call with any questions you may have regarding these requirements.

N1102.1.3 R-Value Alternative

Window:	Fenestration U-Factor of .30
Ceiling:	R60
Wall:	R30 Cavity or R20 Cavity + R5 Insulated Sheathing or R13 Cavity + R10 Insulated Sheathing
Floor:	R30
Basement Wall:	R15 Continuous or R19 Cavity or R13 Cavity + R5 Insulated Sheathing
Slab Perimeter:	R10 for 4 Feet Deep, R5 Under Heated Slab
Crawl Space Wall:	R15 Continuous or R19 Cavity or R13 Cavity + R5 Insulated Sheathing
Reference:	2021 International Residential Code portion of 2022 Connecticut State Building Code – Chapter 11
Alternative:	Perform full home system analysis, Chapter 4 (Res-Check) which may reduce requirements
Alterations:	Existing ceiling, wall or floor cavities exposed during construction are exempt from these R-values as long as they are filled with insulation (N1111.1.1 Exc. #2)