

RESIDENTIAL ENERGY CHART COMPARISON

CLIMATE ZONE 5B	2009 RESIDENTIAL	2018 RESIDENTIAL
FENESTRATION U-FACTOR	0.35	0.30
SKYLIGHT U-FACTOR	0.60	0.55
CEILING R-VALUE	38	49*
WOOD FRAMED (b) WALL R-VALUE	R-20 OR R-13 + 5 ci (a)	R-20 OR R-13 + 5 ci (a)
MASS WALL R-VALUE	R-13/R-17, R-17 WHEN MORE THEN 50% OF THE INSULATION IS IN THE INTERIOR	R-13/R-17, R-17 WHEN MORE THEN 50% OF THE INSULATION IS IN THE INTERIOR
FLOOR R-VALUE	R-19	R-19
BASEMENT WALL R-VALUE	R-10 ci/R-13	R-15 ci/R-19
SLAB R-VALUE AND DEPTH	R-10, 2' BELOW	R-10, 2' BELOW
ci = CONTINUOUS INSULATION		
2' BELOW = 2' FROM TOP OF SLAB DOWN, MINIMUM		
*R-38 MAY BE SUBSTITUTED WHEN UNCOMPRESSED INSULATION EXTENDS TO OUTSIDE EDGE OF EXTERIOR ENVELOPE		
(a) WE HAVE BEEN ALLOWING R-19 IN PLACE OF R-20 SINCE 2011. R-20 SHOULD BE USED FROM NOW ON OR PROVIDE ANOTHER ALTERNITIVE		
(b) CLASS 2 VAPOR BARRIER SHOULD BE USED ON THE CONDITIONED SIDE OF INSULATED WALLS. EXAMPLE: FACED INSULATION BATTS, SPRAY FOAM INSULATION, OR 30# FELT W/BLOWN IN INSULATION ARE CONSIDERED CLASS 2 VAPOR BARRIERS/RETARDERS. CLASS 1 & 2 ARE SHOWN IN THE CODE (R702.7) DO NOT USE CLASS 1, MAY INCREASE MOLD PROBLEMS.		
(c) <u>BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLUNUMS.</u>		