

TABLE 322.31-1

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value ⁱ	Floor R-Value	Basement Wall R-Value ^b	Crawl Space Wall R- Value ^b	Heated Slab R- Value ^c	Unheated Slab R- Value ^d
1	0.35	0.60	49 ^e	20 ^f or 13+5 ^g	15/19	30 ^h	15/19	10/13	10/15	10
2	0.35	0.60	49 ^e	21 ^f	19/21	38 ^h	15/19	10/13	10/15	10

^a R-values are minimums. U-factors are maximums.

^b “15/19” means R-15 continuous insulated sheathing on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. “15/19” shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulated sheathing on the interior or exterior of the home. “10/13” means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

^c The first R-value applies under the entire slab, regardless of depth below grade. The second R-value applies to the slab edge where the bottom of the slab is less than 12 inches below adjacent grade. Slab edge insulation shall extend downward from the top of the slab for a minimum of 48 inches or downward to at least the bottom of the slab and then horizontally to the interior or exterior for a minimum total distance of 48 inches. Also, see s. SPS 321.16 for protection against frost for slabs with supports less than 4 feet below grade.

^d The R-value applies to any slab, the bottom of which is less than 12 inches below adjacent grade. Also, see s. SPS 321.16 for protection against frost for slabs with supports less than 4 feet below grade.

^e See s. SPS 322.32 (1) for application and permitted reduced R-value.

^f R-20 and R-21 may be compressed into a 2X6 cavity.

^g “13+5” means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25% or less of the exterior, insulating sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25% of the exterior, structural sheathing shall be covered with insulated sheathing of at least R-2.

^h Or insulation sufficient to fill the framing cavity with a minimum of R-19.

ⁱ The second R-value applies when more than half of the insulation is on the interior of the mass wall.