

Energy Code

The State of Minnesota has adopted Energy Codes that applies to both commercial and residential buildings. There are requirements that must be followed with alterations of buildings, including window and door replacement, insulation, etc. The below table breaks down these requirements (Crookston falls into the Northern Zone):

Residential

Table N1102.1

Insulation and Fenestration Requirements by Component ^(a)						
Climate Zone	Fenestration ^(b) U-Factor	Skylight U-Factor	Ceiling R-Value	Wood Frame Wall R-Value		
Southern	0.35	0.60	38	19 or 13 + 5 ^(e)		
Northern	0.35	0.60	44	19		
Climate Zone	Mass Wall R-Value ^(f)	Floor R-Value	Foundation Wall and Rim Joist R-Value	Slab ^(c) R-Value & Depth	Crawl Space Wall R-Value	
Southern	15	30 ^(d)	10	10, 3.5 ft	10	
Northern	15	30 ^(d)	10	10, 5 ft	10	

^(a) R-values are minimums. U-factors and SHGC are maximums. R-19 shall be permitted to be compressed into a 2x6 cavity.

^(b) The fenestration U-factor column excludes skylights.

^(c) R-5 shall be added to the required slab edge R-values for heated slabs.

^(d) Or insulation sufficient to fill the framing cavity, R-19 minimum.

^(e) "13 + 5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, R-5 sheathing is not required where structural sheathing is used. If structural sheathing

Commercial

The requirement for Commercial Energy Code depends on what is altered in the project. There are several requirements in the building code, and those requirements will be reviewed during the plan review phase.