

Table 3.1.1.11. (IP)
Thermal Performance Requirements for Additions to Existing Buildings⁽³⁾
 Forming Part of Sentence 3.1.1.11.(2)

Component	Thermal Values ⁽⁷⁾	Compliance Package		
		Zone 1	Zone 2	Electric Space Heating
		Less than 5000 Degree Days	5000 or more Degree Days	Zones 1 and 2
Ceiling with Attic Space	Min. Nominal R ⁽¹⁾	60	60	60
	Max. U ⁽²⁾	0.017	0.017	0.017
	Min. Effective R ⁽²⁾	59.22	59.22	59.22
Ceiling Without Attic Space	Min. Nominal R ⁽¹⁾	31	31	31
	Max. U ⁽²⁾	0.036	0.036	0.036
	Min. Effective R ⁽²⁾	27.65	27.65	27.65
Exposed Floor	Min. Nominal R ⁽¹⁾	31	31	31
	Max. U ⁽³⁾	0.034	0.034	0.034
	Min. Effective R ⁽³⁾	29.80	29.80	29.80
Walls Above Grade	Min. Nominal R ⁽¹⁾	19 + 5 ci	22 + 7.5 ci	22 + 10 ci
	Max. U ⁽³⁾	0.049	0.042	0.038
	Min. Effective R ⁽³⁾	20.32	23.90	26.40
<i>Basement Walls</i> ⁽⁶⁾	Min. Nominal R ⁽¹⁾	20 ci	20 ci	20 ci
	Max. U ⁽⁴⁾	0.047	0.047	0.047
	Min. Effective R ⁽⁴⁾	21.12	21.12	21.12
Heated Slab or Slab ≤ 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10	10	10
	Max. U ⁽⁴⁾	0.090	0.090	0.090
	Min. Effective R ⁽⁴⁾	11.13	11.13	11.13
Edge of Below Grade Slab ≤ 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10	10	10
Windows and Sliding Glass Doors	Max. U ⁽⁵⁾	0.28	0.25	0.25
	Energy Rating	25	29	29
Column 1	2	3	4	5

Notes to Table 3.1.1.11 (IP):

- (1) The values listed are minimum Nominal R values for the thermal insulation component only.
- (2) U-Value and effective R value shall include entire ceiling assembly components, from interior air film to vented space air film above insulation.
- (3) U-Value and effective R value shall include entire exposed floor or above grade wall assembly components, from interior air film to exterior air film.
- (4) U-Value and effective R value shall include entire *basement* wall or slab assembly components and interior air film.
- (5) U-Value is the *overall coefficient of heat transfer* for a window assembly, sliding glass door assembly or skylight assembly expressed in Btu/(h·ft²·F).
- (6) In the case of *basement* wall assemblies, where R20 ci is required R12 + 10 ci is permitted to be used or vice versa; or where R12 + 5 ci is required, R15 ci is permitted to be used or vice versa.
- (7) Nominal and effective R values are expressed in (h·ft²·F)/Btu. U-Values are expressed in Btu/(h·ft²·F).