

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 |
| Basement Walls ⁽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).