

**Table 3.1.1.2.A (IP)**  
**ZONE 1 - Compliance Packages for Space Heating Equipment with AFUE ≥ 92%**  
 Forming Part of Sentence 3.1.1.2.(1)

| Component  | Thermal Values <sup>(6)</sup>   | Compliance Package |            |             |           |           |           |
|--|---------------------------------|--------------------|------------|-------------|-----------|-----------|-----------|
|  |                                 | A1                 | A2         | A3          | A4        | A5        | A6        |
| Ceiling with Attic Space                                   | Min. Nominal R <sup>(1)</sup>   | 60                 | 60         | 50          | 60        | 50        | 60        |
|  | Max. U <sup>(2)</sup>           | 0.017              | 0.017      | 0.020       | 0.017     | 0.020     | 0.017     |
|  | Min. Effective R <sup>(2)</sup> | 59.22              | 59.22      | 49.23       | 59.22     | 49.23     | 59.22     |
| Ceiling Without Attic Space                                | Min. Nominal R <sup>(1)</sup>   | 31                 | 31         | 31          | 31        | 31        | 31        |
|  | Max. U <sup>(2)</sup>           | 0.036              | 0.036      | 0.036       | 0.036     | 0.036     | 0.036     |
|  | Min. Effective R <sup>(2)</sup> | 27.65              | 27.65      | 27.65       | 27.65     | 27.65     | 27.65     |
| Exposed Floor  | Min. Nominal R <sup>(1)</sup>   | 31                 | 31         | 35          | 31        | 35        | 31        |
|  | Max. U <sup>(3)</sup>           | 0.034              | 0.034      | 0.031       | 0.034     | 0.031     | 0.034     |
|  | Min. Effective R <sup>(3)</sup> | 29.80              | 29.80      | 32.02       | 29.80     | 32.02     | 29.80     |
| Walls Above Grade  | Min. Nominal R <sup>(1)</sup>   | 22                 | 19 + 5 ci  | 14 + 7.5 ci | 22 + 5 ci | 19 + 5 ci | 22 + 5 ci |
|  | Max. U <sup>(3)</sup>           | 0.059              | 0.049      | 0.054       | 0.047     | 0.049     | 0.047     |
|  | Min. Effective R <sup>(3)</sup> | 17.03              | 20.32      | 18.62       | 21.40     | 20.32     | 21.40     |
| Basement Walls <sup>(6)</sup>                              | Min. Nominal R <sup>(1)</sup>   | 20 ci              | 12 + 10 ci | 20 ci       | 20 ci     | 12 + 5 ci | 20 ci     |
|  | Max. U <sup>(4)</sup>           | 0.047              | 0.048      | 0.047       | 0.047     | 0.063     | 0.047     |
|  | Min. Effective R <sup>(4)</sup> | 21.12              | 20.84      | 21.12       | 21.12     | 15.96     | 21.12     |
| Below Grade Slab<br>Entire Surface > 600 mm<br>Below Grade | Min. Nominal R <sup>(1)</sup>   | —                  | —          | —           | —         | —         | —         |
|  | Max. U <sup>(4)</sup>           | —                  | —          | —           | —         | —         | —         |
|  | Min. Effective R <sup>(4)</sup> | —                  | —          | —           | —         | —         | —         |
| Heated Slab or<br>Slab ≤ 600 mm Below<br>Grade             | Min. Nominal R <sup>(1)</sup>   | 10                 | 10         | 10          | 10        | 10        | 10        |
|  | Max. U <sup>(4)</sup>           | 0.090              | 0.090      | 0.090       | 0.090     | 0.090     | 0.090     |
|  | Min. Effective R <sup>(4)</sup> | 11.13              | 11.13      | 11.13       | 11.13     | 11.13     | 11.13     |
| Edge of Below Grade Slab<br>≤ 600 mm Below Grade           | Min. Nominal R <sup>(1)</sup>   | 10                 | 10         | 10          | 10        | 10        | 10        |
| Windows and Sliding<br>Glass Doors                         | Max. U <sup>(5)</sup>           | 0.28               | 0.28       | 0.25        | 0.28      | 0.28      | 0.28      |
|  | Energy Rating                   | 25                 | 25         | 29          | 25        | 25        | 25        |
| Skylights  | Max. U <sup>(5)</sup>           | 0.49               | 0.49       | 0.49        | 0.49      | 0.49      | 0.49      |
| Space Heating Equipment                                    | Min. AFUE                       | 96%                | 96%        | 94%         | 96%       | 94%       | 92%       |
| HRV  | Min. SRE                        | 75%                | 75%        | 81%         | 75%       | 70%       | 65%       |
| Domestic Water Heater <sup>(7)</sup>                       | Min. EF                         | 0.80               | 0.70       | 0.67        | 0.67      | 0.80      | 0.80      |
| Column 1   | 2                               | 3                  | 4          | 5           | 6         | 7         | 8         |

**Notes to Table 3.1.1.2.A (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•ft<sup>2</sup>•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) If an EF of a water tank is not indicated in a compliance package, there is no EF requirement for water tank for that specific compliance package.
- (8) Nominal and effective R values are expressed in (h•ft<sup>2</sup>•F)/Btu. U-Values are expressed in Btu/(h•ft<sup>2</sup>•F).