

Table 3.1.1.3.A (IP)
ZONE 2 - Compliance Packages for Space Heating Equipment with AFUE ≥ 92%
 Forming Part of Sentence 3.1.1.3.(1)

Component	Thermal Values ⁽⁸⁾	Compliance Package					
		A1	A2	A3	A4	A5	A6
Ceiling with Attic Space	Min. Nominal R ⁽¹⁾	60	50	60+HH	60	60	50
	Max. U ⁽²⁾	0.017	0.020	0.016	0.017	0.017	0.020
	Min. Effective R ⁽²⁾	59.22	49.23	59.90	59.22	59.22	49.23
Ceiling Without Attic Space	Min. Nominal R ⁽¹⁾	31	31	31	31	31	31
	Max. U ⁽²⁾	0.036	0.036	0.036	0.036	0.036	0.036
	Min. Effective R ⁽²⁾	27.65	27.65	27.65	27.65	27.65	27.65
Exposed Floor	Min. Nominal R ⁽¹⁾	31	35	31	31	31	35
	Max. U ⁽³⁾	0.034	0.031	0.034	0.034	0.034	0.031
	Min. Effective R ⁽³⁾	29.80	32.02	29.80	29.80	29.80	32.02
Walls Above Grade	Min. Nominal R ⁽¹⁾	19 + 5 ci	19 + 10 ci	22 + 5 ci	22 + 7.5 ci	19 + 10 ci	22 + 7.5 ci
	Max. U ⁽³⁾	0.049	0.040	0.047	0.042	0.040	0.042
	Min. Effective R ⁽³⁾	20.32	25.32	21.40	23.90	25.32	23.90
Basement Walls ⁽⁶⁾	Min. Nominal R ⁽¹⁾	20 ci	20 ci	20 ci	20 ci	20 ci	20 ci
	Max. U ⁽⁴⁾	0.047	0.047	0.047	0.047	0.047	0.047
	Min. Effective R ⁽⁴⁾	21.12	21.12	21.12	21.12	21.12	21.12
Below Grade Slab Entire Surface > 600 mm Below Grade	Min. Nominal R ⁽¹⁾	—	—	5	—	10	7.5
	Max. U ⁽⁴⁾	—	—	0.163	—	0.090	0.116
	Min. Effective R ⁽⁴⁾	—	—	6.13	—	11.13	8.63
Heated Slab or Slab ≤ 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10	10	10	10	10	10
	Max. U ⁽⁴⁾	0.090	0.090	0.090	0.090	0.090	0.090
	Min. Effective R ⁽⁴⁾	11.13	11.13	11.13	11.13	11.13	11.13
Edge of Below Grade Slab ≤ 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10	10	10	10	10	10
Windows and Sliding Glass Doors	Max. U ⁽⁵⁾	0.21	0.28	0.28	0.21	0.25	0.25
	Energy Rating	34	25	25	34	29	29
Skylights	Max. U ⁽⁵⁾	0.49	0.49	0.49	0.49	0.49	0.49
Space Heating Equipment	Min. AFUE	96%	96%	98%	96%	94%	92%
HRV	Min. SRE	81%	70%	65%	65%	65%	75%
Domestic Water Heater ⁽⁷⁾	Min. EF	0.70	0.80	0.80	0.67	0.67	0.70
Column 1	2	3	4	5	6	7	8

Notes to Table 3.1.1.3.A (IP):

The following definition applies:

HH = 10 inch high heel

- (1) The values listed are minimum Nominal RSI-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) 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·ft²·F)/Btu. U-Values are expressed in Btu/(h·ft²·F).

Table 3.1.1.3.B (IP)
ZONE 2 - Compliance Packages for Space Heating Equipment with 84% ≤ AFUE < 92%
 Forming Part of Sentence 3.1.1.3.(2)

Component	Thermal Values ⁽⁸⁾	Compliance Package					
		B1	B2	B3	B4	B5	B6
Ceiling with Attic Space	Min. Nominal R ⁽¹⁾	50	60	60 + HH	60 + HH	50	60
	Max. U ⁽²⁾	0.020	0.017	0.016	0.016	0.020	0.017
	Min. Effective R ⁽²⁾	49.23	59.22	59.90	59.90	49.23	59.22
Ceiling Without Attic Space	Min. Nominal R ⁽¹⁾	31	31	31	31	31	31
	Max. U ⁽²⁾	0.036	0.036	0.036	0.036	0.036	0.036
	Min. Effective R ⁽²⁾	27.65	27.65	27.65	27.65	27.65	27.65
Exposed Floor	Min. Nominal R ⁽¹⁾	35	31	31 + 10 ci	31	35	31
	Max. U ⁽³⁾	0.031	0.034	0.025	0.034	0.031	0.034
	Min. Effective R ⁽³⁾	32.02	29.80	39.80	29.80	32.02	29.80
Walls Above Grade	Min. Nominal R ⁽¹⁾	22 + 7.5 ci	22 + 7.5 ci	22 + 10 ci	22 + 10 ci	22 + 10 ci	22 + 10 ci
	Max. U ⁽³⁾	0.042	0.042	0.038	0.038	0.038	0.038
	Min. Effective R ⁽³⁾	23.90	23.90	26.40	26.40	26.40	26.40
Basement Walls ⁽⁶⁾	Min. Nominal R ⁽¹⁾	20 ci	12 + 10 ci	20 + 10 ci	20 + 10 ci	20 + 12 ci	20 + 12 ci
	Max. U ⁽⁴⁾	0.047	0.048	0.040	0.040	0.037	0.037
	Min. Effective R ⁽⁴⁾	21.12	20.84	25.15	25.15	26.69	26.69
Below Grade Slab Entire Surface > 600 mm Below Grade	Min. Nominal R ⁽¹⁾	—	5	10	10	5	5
	Max. U ⁽⁴⁾	—	0.163	0.090	0.090	0.163	0.163
	Min. Effective R ⁽⁴⁾	—	6.13	11.13	11.13	6.13	6.13
Heated Slab or Slab ≤ 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10	10	10	10	10	10
	Max. U ⁽⁴⁾	0.090	0.090	0.090	0.090	0.090	0.090
	Min. Effective R ⁽⁴⁾	11.13	11.13	11.13	11.13	11.13	11.13
Edge of Below Grade Slab ≤ 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10	10	10	10	10	10
Windows and Sliding Glass Doors	Max. U ⁽⁵⁾	0.21	0.28	0.25	0.25	0.25	0.21
	Energy Rating	34	25	29	29	29	34
Skylights	Max. U ⁽⁵⁾	0.49	0.49	0.49	0.49	0.49	0.49
Space Heating Equipment	Min. AFUE	90%	90%	87%	87%	84%	84%
HRV	Min. SRE	75%	81%	70%	75%	81%	81%
Domestic Water Heater ⁽⁷⁾	Min. EF	0.66	0.66	0.66	0.62	0.66	—
Column 1	2	3	4	5	6	7	8

Notes to Table 3.1.1.3.B (IP):

The following definition applies:

HH = 10 inch high heel

- (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) 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·ft²·F)/Btu. U-Values are expressed in Btu/(h·ft²·F).

Table 3.1.1.3.C (IP)
ZONE 2 - Compliance Packages for Electric Space Heating
 Forming Part of Sentence 3.1.1.3.(3)

Component	Thermal Values ⁽⁸⁾	Compliance Package	
		C1	C2
Ceiling with Attic Space	Min. Nominal R ⁽¹⁾	60 + HH	50
	Max. U ⁽²⁾	0.016	0.020
	Min. Effective R ⁽²⁾	59.90	49.23
Ceiling Without Attic Space	Min. Nominal R ⁽¹⁾	31	31
	Max. U ⁽²⁾	0.036	0.036
	Min. Effective R ⁽²⁾	27.65	27.65
Exposed Floor	Min. Nominal R ⁽¹⁾	31 + 10 ci	35
	Max. U ⁽³⁾	0.025	0.031
	Min. Effective R ⁽³⁾	39.80	32.02
Walls Above Grade	Min. Nominal R ⁽¹⁾	24 + 10 ci	22 + 7.5 ci
	Max. U ⁽³⁾	0.037	0.042
	Min. Effective R ⁽³⁾	27.02	23.90
<i>Basement Walls</i> ⁽⁶⁾	Min. Nominal R ⁽¹⁾	20 + 12 ci	20 ci
	Max. U ⁽⁴⁾	0.037	0.047
	Min. Effective R ⁽⁴⁾	26.69	21.12
Below Grade Slab Entire Surface > 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10.0	—
	Max. U ⁽⁴⁾	0.090	—
	Min. Effective R ⁽⁴⁾	11.13	—
Heated Slab or Slab ≤ 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10	10
	Max. U ⁽⁴⁾	0.090	0.090
	Min. Effective R ⁽⁴⁾	11.13	11.13
Edge of Below Grade Slab ≤ 600 mm Below Grade	Min. Nominal R ⁽¹⁾	10	10
Windows and Sliding Glass Doors	Max. U ⁽⁵⁾	0.21	0.28
	Energy Rating	34	25
Skylights	Max. U ⁽⁵⁾	0.49	0.49
Space Heating Equipment	Min.	—	ASHP: 7.1 HSPF
HRV	Min. SRE	81%	70%
Domestic Water Heater ⁽⁷⁾	Min. EF	—	—
Column 1	2	3	4

Notes to Table 3.1.1.3.C (IP):

The following definition applies: HH = 10 inch high heel

- (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) 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·ft²·F)/Btu. U-Values are expressed in Btu/(h·ft²·F).