

Minimum Insulation R-value Requirements

Non-Residential, Above Roof Deck

STATE		APPLICABLE CODE	ASHRAE ZONE	MINIMUM R-VALUE	
STATE & LOCAL	AL	Alabama	2021 International Building Code	2	R-25
				3	R-25
STATE & LOCAL	AK	Alaska	No State-Wide Energy Code – Refer to most current version of International Energy Conservation Code	7	R-35
				8	R-35
LOCAL ONLY	AZ	Arizona	No statewide mandated R values Phoenix – 2018 IECC Flagstaff – 2018 IECC	2	R-25
				3	R-25
				4	R-30
STATE ONLY	AR	Arkansas	2014 Arkansas Energy Code	5	R-30
				3	R-20
STATE ONLY	AR	Arkansas	2014 Arkansas Energy Code	4	R-20
				2	R-30
STATE ONLY	CA	California	California 2022 Energy Code	3	R-30
				4	R-30
				5	R-30
				6	R-20
				4	R-30
STATE & LOCAL	CO	Colorado	2021 International Energy Conservation Code	5	R-30
				6	R-30
				7	R-35
				5	R-30
STATE ONLY	CT	Connecticut	2022 Connecticut State Building Code	5	R-30
STATE & LOCAL	DE	Delaware	Regulations for State Energy Conservation Code	4	R-30
STATE ONLY	DC	District of Columbia	District of Columbia Energy Conservation Code (2017)	4	R-33
STATE ONLY	FL	Florida	2023 8 th Edition Florida Building Code, Energy Conservation	1	R-20
				2	R-25
STATE ONLY	GA	Georgia	2020 Georgia State Minimum Standard Energy Code	2	R-25
				3	R-25
				4	R-30
STATE ONLY	HI	Hawaii	2018 International Energy Conservation Code	1	R-20
STATE & LOCAL	ID	Idaho	Idaho Energy Conservation Code (2020 Edition)	5	R-30
				6	R-30
STATE & LOCAL	IL	Illinois	2018 Illinois Energy Conservation Code	4	R-30
				5	R-30
STATE ONLY	IN	Indiana	2010 Indiana Energy Conservation Code	4	R-20
				5	R-20
STATE & LOCAL	IA	Iowa	2012 IECC	5	R-25
				6	R-30
STATE & LOCAL	KS	Kansas	No State Mandate (Refer to most current version of IECC)	4	R-30
				5	R-30
STATE ONLY	KY	Kentucky	2013 Kentucky Building Code, 4 th Edition	4	R-25
STATE & LOCAL	LA	Louisiana	Louisiana State Uniform Construction Code	2*	R-25
STATE ONLY	ME	Maine	Maine Uniform Building Code	6	R-30
				7	R-35
STATE ONLY	MD	Maryland	Maryland Building Performance Standards	4	R-30
				5	R-30
STATE ONLY	MA	Massachusetts	9 th Edition of the Massachusetts State Building (Code 780)	5	R-30
STATE ONLY	MI	Michigan	Commercial Michigan Energy Code	5	R-30
				6	R-30
				7	R-35
STATE ONLY	MN	Minnesota	2024 Minnesota Commercial Energy Code.	6	R-30
				7	R-35

STATE			APPLICABLE ENERGY	ASHRAE ZONE	MINIMUM R-VALUE
STATE & LOCAL	MS	Mississippi	No State-Wide Energy Code – Refer to most current version of International Energy Conservation Code	2	R-25
				3	R-25
STATE & LOCAL	MO	Missouri	No State-Wide Energy Code – Refer to most current version of International Energy Conservation Code	4	R-30
				5	R-30
STATE ONLY	MT	Montana	2021 International Energy Conservation Code	6	R-30
STATE ONLY	NE	Nebraska	Nebraska Energy Code	5	R-30
STATE ONLY	NV	Nevada	2021 International Energy Conservation Code	3	R-25
				4	R-30
				5	R-30
STATE ONLY	NH	New Hampshire	New Hampshire State Building Code	5	R-30
				6	R-30
STATE ONLY	NJ	New Jersey	Uniform Construction Code - Energy Subcode	4	R-30
				5	R-30
STATE ONLY	NM	New Mexico	2021 New Mexico Commercial Energy Code	3	R-25
				4	R-30
				5	R-30
STATE ONLY	NY	New York	2020 Energy Conservation Construction Code of New York State	4	R-30
				5	R-30
				6	R-30
STATE ONLY	NC	North Carolina	2018 North Carolina Energy Conservation Code	3	R-25
				4	R-30
				5	R-30
STATE & LOCAL	ND	North Dakota	No State-Wide Energy Code – Refer to most current version of International Energy Conservation Code	6	R-30
				7	R-35
STATE ONLY	OH	Ohio	2024 Ohio Building Code, Chapter 13	4	R-25
				5	R-25
STATE & LOCAL	OK	Oklahoma	Oklahoma Uniform Building Code	3	R-15
				4	R-15
STATE ONLY	OR	Oregon	2021 Oregon Energy Efficiency Specialty Code	4	R-30
				5	R-30
STATE ONLY	PA	Pennsylvania	2018 International Energy Conservation Code	4	R-30
				5	R-30
				6	R-30
STATE ONLY	RI	Rhode Island	RISBC-8 State of Rhode Island Energy Conservation Code	5	R-30
STATE & LOCAL	SC	South Carolina	2009 South Carolina Energy Standard	3	R-20
STATE & LOCAL	SD	South Dakota	No State Mandate (Refer to IECC 2015 & 2018)	5	R-30
				6	R-30
STATE & LOCAL	TN	Tennessee	2012 IECC	3	R-20
				4	R-25
STATE & LOCAL	TX	Texas	2015 IECC	2	R-25
				3	R-25
				4	R-30
STATE ONLY	UT	Utah	Commercial Energy Conservation Code 2021 of Utah	3	R-25
				5	R-30
				6	R-30
STATE ONLY	VT	Vermont	2024 Commercial Building Energy Standards	6	R-45
STATE ONLY	VA	Virginia	2021 Virginia Existing Building Code (VEBC) and 2021 Virginia Energy Conservation Code (VECC)	3	R-25
				4	R-30
STATE ONLY	WA	Washington	2021 Washington State Energy Code	4	R-38
				5*	R-38
STATE ONLY	WV	West Virginia	West Virginia State Building Code	4	R-30
				5	R-30
STATE ONLY	WI	Wisconsin	2015 Wisconsin Commercial Building Code	6	R-20
				7	R-25
LOCAL ONLY	WY	Wyoming	No State Mandate (Refer to IECC 2015 & 2018)	6	R-30
				6	R-30
				7	R-35

*LA and WA utilize modified climate zones that differ from the ASHRAE map below.

LA has adjusted to climate zone 2 for the whole state.

WA has adjusted to climate zones 4 and 5. Please reference state specific maps for county requirements.

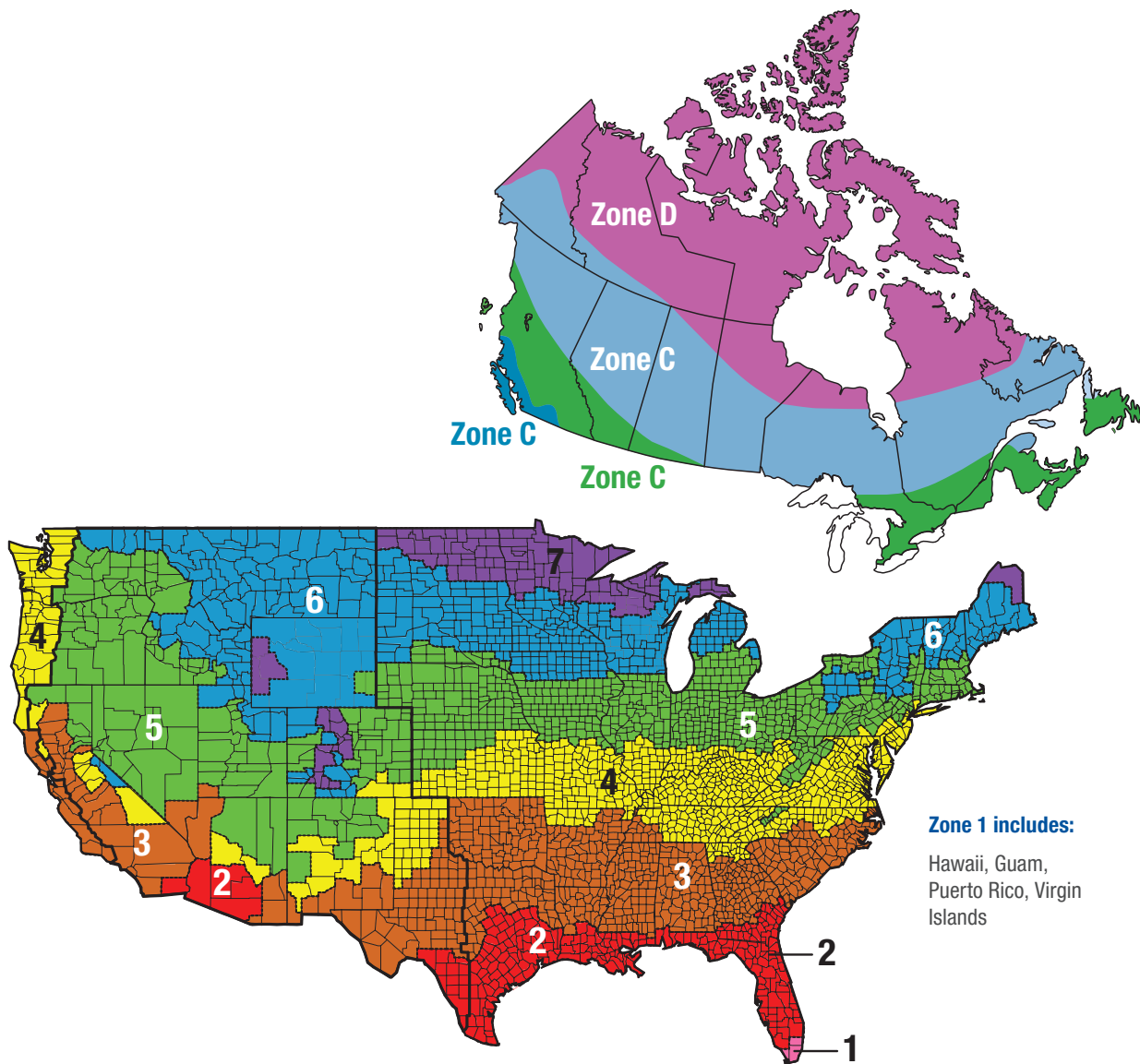
Minimum R-Value (Non-Residential, Above Roof Deck)

Zones	ASHRAE 90.1						IBC – IECC				
	2004	2007	2010*	2013*	2016*	2019*	2009*	2012*	2015*	2018*	2021
0	-	-	-	-	25	25	-	-	-	-	20
1	15	15	15	20	20	20	15	20	20	20	20
2	15	20	20	25	25	25	20	20	25	25	25
3	15	20	20	25	25	25	20	20	25	25	25
4	15	20	20	30	30	30	20	25	30	30	30
5	15	20	20	30	30	30	20	25	30	30	30
6	15	20	20	30	30	30	20	30	30	30	30
7	15	20	20	35	35	35	25	35	35	35	35
8	20	20	20	35	35	35	25	35	35	35	35

IBC – International Building Code – References IECC for Energy Tables

***Continuous Insulation**

IECC – International Energy Conservation Code – References using ASHRAE 90.1 OR IECC Tables



Disclaimer: The information contained in this document is meant to be used as a quick reference guide for insulation levels across the United States. The information was gathered from state and local websites which are periodically updated and may not contain the latest data. Final verification of actual insulation levels required for a specific project should be verified with the Local Authority Having Jurisdiction (AHJ) before construction.