

# Minimum Insulation R-value Requirements

## Non-Residential, Above Roof Deck

	STATE		APPLICABLE CODE	ASHRAE ZONE	MINIMUM R-VALUE
STATE & LOCAL	AL	Alabama	2015 Alabama Commerical Energy 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 The major jurisdictions in the state have adopted either the 2015 or 2018 versions of the IECC.	2	R-25
				3	R-25
				4	R-30
				5	R-30
STATE ONLY	AR	Arkansas	2014 Arkansas Energy Code	3	R-20
				4	R-20
STATE ONLY	CA	California	California 2022 Energy Code	2	R-30
				3	R-30
				4	R-30
				5	R-30
				6	R-20
STATE & LOCAL	CO	Colorado	2021 International Energy Conservation Code	4	R-30
				5	R-30
				6	R-30
				7	R-35
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 <sup>th</sup> 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	2021 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 International Energy Conservation Code	5	R-25
				6	R-30
STATE & LOCAL	KS	Kansas	No State-Wide Energy Code – Refer to most current version of International Energy Conservation Code	4	R-30
				5	R-30
STATE ONLY	KY	Kentucky	2013 Kentucky Building Code, 4 <sup>th</sup> Edition	4	R-25
STATE & LOCAL	LA	Louisiana	Louisiana State Uniform Construction Code	2	R-25*
STATE ONLY	ME	Maine	Maine Uniform Building and Energy Code (MUBEC)	6	R-30
				7	R-35
STATE ONLY	MD	Maryland	Maryland Building Performance Standards	4	R-30
				5	R-30
STATE ONLY	MA	Massachusetts	10 <sup>th</sup> Edition of the Massachusetts State Building Code 780	5	R-30
STATE ONLY	MI	Michigan	2021 Michigan Energy Code – Commercial	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 & 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			APPLICABLE ENERGY	ASHRAE ZONE	MINIMUM R-VALUE
STATE ONLY	NE	Nebraska	Nebraska Energy Code	5	R-30
STATE ONLY	NV	Nevada	2024 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
STATE ONLY	NJ	New Jersey	Uniform Construction Code - Energy Subcode	6	R-30
				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	2021 International Energy Conservation Code – 90% of all jurisdictions	6	R-30
				7	R-35
STATE ONLY	OH	Ohio	2024 Ohio Building Code, Chapter 13	4	R-30
				5	R-30
STATE & LOCAL	OK	Oklahoma	Oklahoma Uniform Building Code	3	R-15
				4	R-15
STATE ONLY	OR	Oregon	2025 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 Road 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-Wide Energy Code – Refer to most current version of International Energy Conservation Code	5	R-30
				6	R-30
STATE & LOCAL	TN	Tennessee	2012 International Energy Conservation Code	3	R-25
				4	R-30
STATE & LOCAL	TX	Texas	2015 International Energy Conservation Code	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-Wide Energy Code – Refer to most current version of International Energy Conservation Code	6	R-30
				6	R-30
				7	R-35
US Territories					
American Samoa			No State-Wide Energy Code – Refer to most current version of International Energy Conservation Code	1	R-20
Guam			Tropical Energy Code	1	R-30
Northern Mariana Islands			2014 Tropical Energy Code	1	R-15
Puerto Rico			2018 International Energy Conservation Code	2	R-20
US Virgin Islands			2018 International Energy Conservation Code	1	R-20

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

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

SC has adjusted the R-value for climate zone 3 to R-20 from the ASHRAE standard of R-25.

VT has adjusted the R-value for climate zone 6 to R-45 from the ASHRAE standard of R-30.

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

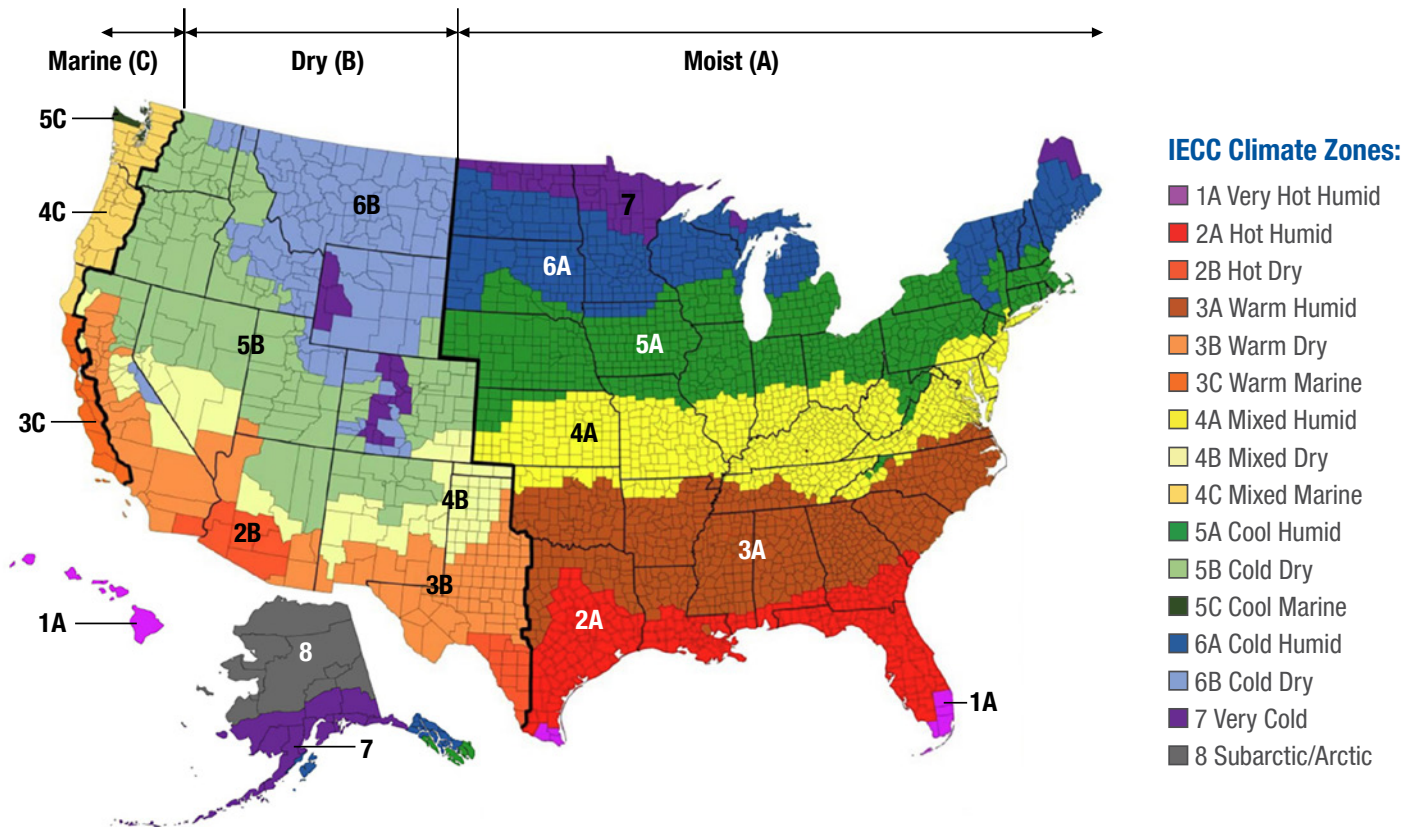
\*\* New Mexico has adopted state-specific amendments to Table 301.2 that change the Climate Zones for several cities. As a result, a minimum of R-35 is required in the towns of Angel Fire, Eagle Nest, Red River, Sandia Crest and Taos Ski Valley (Climate Zone 7). A minimum of R-30 is required in Mescalero and Cloudcroft (Climate Zones 5 and 6, respectively).

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

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

IBC – International Building Code – References IECC for Energy Tables

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 the Polyisocyanurate Manufacturers Association (PIMA). Final verification of actual insulation levels required for a specific project should be verified with the Local Authority Having Jurisdiction (AHJ) before construction.