





ALL ELECTRIC

2021 IECC Residential Energy Compliance Path for New Construction

All new residential one- and two-family dwellings must comply with the residential provisions of the 2021 IECC unless the building is considered a "Low Energy Building" as defined in Section R402.1

Applicants must select **one** compliance path option from page 1 and applicable additional energy features from tables on Page 2 as required by Section R401.2.5. Additional compliance documentation must be submitted with this form for the Total UA Alternative, Total Building Performance or Energy Rating Index Compliance Alternative path options.

	Table R402.1.2 Maximum Assembly <i>U</i> -Factors and Fenestration Requirements (2021 IECC)								ECC)			
	Prescriptive Compliance Option	Climate Zone	Fenestration U-Factor	Skylight <i>U-Fact</i>	Glazed Fenestration	0.111	Wood Fr Wall <i>U-Fa</i>	ame Ma	ss Wall		Basement Wall	Crawl Space Wall
Ш	R402.1.2	4 Except Marine	0.30	0.55	0.40	0.024	0.045	0.0	098	0.047	0.059	<i>U-Factor</i> 0.065
		Must se	lect at least	t one feat	ure from Ta	ible 1						
			Table R402	2.1.3 Insula	ation minimu	ım R-values ar	nd Fenes	tration Req	uiremen	ts by Com	ponent (2	2021 IECC)
	Prescriptive R-Value Alternative R402.1.3	Climate Zone	Fenestration <i>U-Factor</i>	11 54	Glazed Fenestra- ion SHGC	Ceiling R-value	Wood Frame V R-valu	Vall Wall	Floor	Basement Wall	Slab R-value & Depth	Crawl Space Wall
		4 Except Marine	0.30	0.55	0.40	R-value 60	30 or 20 & 5ci 13 & 10c 0 & 20	or 8/13	R-value	R-value	10 ci	R-value
		Must select at least one feature from Table 1										
	Total UA Alternative R402.1.5	Mu	st select at	least on	e feature fr	om Table 1		RESchec	c or sin	nilar repo	ort	
		Table R402.1.3 Insulation minimum R-values and Fenestration Requirements by Component (2021 IECC)										
	MD Prescriptive R–Value Alternative R402.1.3.1	Climate Zone			Glazed Fenestra- ion SHGC	Ceiling R-value	Wood Frame V R-valu	Vall Wall	Floor R-value	Basement Wall R-value	Slab R-value & Depth	Crawl Space Wall R-value
		4 Except Marine	0.30	0.55	0.40	49	20 or 13 & 5	8/13	19	10 ci or 1	3 10 ci, 4ft	10ci or 13
		Must select one feature from Table 1				Must	Must select features from Table 2					
	Total Building Performance R405	Select	one optior	ı from Ta	ble 3							
	Energy Rating Index Compliance Alternative R406	than	y Rating I or equal ted in Tablo	to the				Addition	al com	pliance r	eport re	quired.

Table 1 Option 1 Enhanced Envelope Performance. (R408.2.1) More Efficient HVAC Equipment Option 2 Performance. Greater than or equal to 10 HSPF/16 SEER air source heat pump. Option 3 More Efficient HVAC Equipment Performance. Greater than or equal to 3.5 COP ground source heat pump. Reduced energy use in service water-Option 4 heating. Greater than or equal to 2.0 EF electric service water-heating system. Reduced energy use in service water-Option 5 heating. Greater than or equal to 0.4 solar fraction solar water-heating system. Option 6 More efficient duct thermal distribution system option.100% of ductless thermal distribution system or hydronic thermal distribution system located completely inside the building thermal envelope. Option 7 More efficient duct thermal distribution system option. 100%of duct thermal distribution system located in conditioned space as defined by Section R403.3.2. Improved air sealing and Efficient Option 8 Ventilation System option. (R408.2.5)

Table 3					
Select Only 1 Option - R405					
Option 1	One of the additional efficiency package options in Table 1 shall be selected without including such measures in the proposed design under Section R405.				
Option 2	The proposed design of the building under Section R405.3 shall have an annual energy cost that is less than or equal to 95 percent of the annual energy cost of the standard reference design.				

MUST NOT DUPLICATE OPTIONS SELECTED ON TABLE 1

□1 ≥ 2.5% reduction in total UA 1% 2% 25% reduction in total UA 2% 2% 25% reduction in total UA 2% 2% 3 > 7.5% reduction in total UA 2% 2% 3 > 7.5% reduction in total UA 3 > 2% 3 > 7.5% reduction in total UA 3 > 3 > 7.5% reduction in total UA 3 > 3 > 3 > 7.5% reduction in total UA 3 > 3 > 3 > 7.5% reduction in total UA 3 > 3 > 3 > 3 > 7.5% reduction in total UA 3 > 3 > 3 > 3 > 3 > 3 > 3 > 3 > 3 > 3	М	Table 2 MD Alternative Additional Packages ust select one or more options to meet or exceed 6%. R402.1.3	3.1
3 > 7.5% reduction in total UA 2½			
4 0.22 U-factor windows 3% 3% 4 16 16 16 16 16 16 16	2	≥ 5% reduction in total UA	2%
□ 5 High performance cooling system (Greater than or equal to 18 SEER and 14 EER air conditioner) 3% □ 6 High performance cooling system (Greater than or equal to 16 SEER and 12 EER air conditioner) 3% □ 7 High performance gas furnace (Greater than or equal to 96 AFUE natural gas furnace) 5% □ 8 High performance gas furnace (Greater than or equal to 92 AFUE natural gas furnace) 4% □ 9 High performance heat pump system (Greater than or equal to 10 HSPF/18 SEER air source heat pump.) 6% □ 10 High performance heat pump system (Greater than or equal to 9 HSPF/16 SEER air source heat pump.) 6% □ 11 Ground source heat pump (Greater than or equal to 3.5 COP ground source heat pump.) 6% □ 12 Fossil fuel service water heating system (Greater than or equal to 82 EF fossil fuel service water-heating system (Greater than or equal to 8.2 EF fossil fuel service water-heating system.) 3% □ 13 High performance heat pump water heating system.) 6% □ 14 High performance heat pump water heating system.) 67 □ 15 Solar hot water heating system (Greater than or equal to 3.2 UEF electric service water-heating system.) 6% □ 15 Solar hot water heating system (Greater than or equal to 0.4 solar fraction solar water-heating system.)	3	> 7.5% reduction in total UA	2%
conditioner) High performance cooling system (Greater than or equal to 16 SEER and 12 EER air conditioner) High performance gas furnace (Greater than or equal to 96 AFUE natural gas furnace) 5% High performance gas furnace (Greater than or equal to 92 AFUE natural gas furnace) 4% High performance gas furnace (Greater than or equal to 10 HSPF/16 SEER air source heat pump.) 100 High performance heat pump system (Greater than or equal to 9 HSPF/16 SEER air source heat pump.) 110 High performance heat pump (Greater than or equal to 9 HSPF/16 SEER air source heat pump.) 12 Fossil fuel service water heating system (Greater than or equal to 82 EF fossil fuel service water-heating system) 12 High performance heat pump water heating system option (Greater than or equal to 2.9 12 UEF electric service water heating system.) 14 High performance heat pump water heating system. (Greater than or equal to 3.2 UEF electric service water-heating system.) 15 Solar hot water heating system (Greater than or equal to 3.2 UEF electric service water-heating system) 16 More efficient HVAC distribution system (Greater than or equal to 0.4 solar fraction solar water-heating system) 17 More efficient HVAC distribution system located completely inside the building thermal envelope.) 17 100% of ducts in conditioned space, (100 percent of duct thermal distribution system located in conditioned space as defined by Section R403.3.2.) 18 Reduced total duct leakage. (When ducts are located outside conditioned space, the total leakage of the ducts, measured in accordance with R403.3.5, shall be in accordance with one of the following: a. Where air handler is not installed at the time of testing, 2.0 cubic feet per minute per 100 square feet of conditioned floor area. 18 December 1 19 2 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 2.0 ACH50, with either an Energy Recovery Ventilator (ERV) or Heat Recovery Ventilator (HRV) inst		0.22 U-factor windows	3%
conditioner) 7 High performance gas furnace (Greater than or equal to 96 AFUE natural gas furnace) 8 High performance gas furnace (Greater than or equal to 92 AFUE natural gas furnace) 9 High performance heat pump system (Greater than or equal to 10 HSPF/18 SEER air source heat pump.) 10 High performance heat pump system (Greater than or equal to 9 HSPF/16 SEER air source heat pump.) 11 Ground source heat pump (Greater than or equal to 9 HSPF/16 SEER air source heat pump.) 12 Fossil fuel service water heating system (Greater than or equal to 82 EF fossil fuel service water-heating system.) 13 High performance heat pump water heating system option (Greater than or equal to 2.9 Water-heating system.) 14 High performance heat pump water heating system. (Greater than or equal to 3.2 UEF electric service water-heating system.) 15 Solar hot water heating system (Greater than or equal to 0.4 solar fraction solar water-heating system.) 16 More efficient HVAC distribution system (100 percent of ductiess thermal distribution system or hydron- ic thermal distribution system located completely inside the building thermal envelope.) 17 100% of ducts in conditioned space. (100 percent of duct thermal distribution system located or in conditioned space as defined by Section R403.3.2.) 18 Reduced total duct leakage. (When ducts are located outside conditioned space, the total leakage of the ducts, measured in accordance with R403.3.5, shall be in accordance with one of the following: a. Where air handler is not installed at the time of testing, 2.0 cubic feet per minute per 100 square feet of conditioned floor area. b. Where air handler is not installed at the time of testing, 1.75 cubic feet per minute per 100 square feet of conditioned floor area. b. Where air handler is not installed at the time of testing, 1.75 cubic feet per minute per 100 square feet of conditioned floor area. b. Where air handler is not installed at the time of testing, 1.75 cubic feet per minute per 100 square feet of conditioned floor	5		3%
8 High performance gas furnace (Greater than or equal to 92 AFUE natural gas furnace) 4%	□ 6	High performance cooling system (Greater than or equal to 16 SEER and 12 EER air	3%
9 High performance heat pump system (Greater than or equal to 10 HSPF/18 SEER air source heat pump.) High performance heat pump system (Greater than or equal to 9 HSPF/16 SEER air source heat pump.) 6%	- 7	High performance gas furnace (Greater than or equal to 96 AFUE natural gas furnace)	5%
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UEF electric service water -heating system.) □14 High performance heat pump water heating system. (Greater than or equal to 3.2 UEF electric service water-heating system.) □15 Solar hot water heating system (Greater than or equal to 0.4 solar fraction solar water-heating system.) □16 or hydron-ic thermal distribution system (100 percent of ductless thermal distribution system or hydron-ic thermal distribution system located completely inside the building thermal envelope.) □17 100% of ducts in conditioned space. (100 percent of duct thermal distribution system located in conditioned space as defined by Section R403.3.2.) □18 Reduced total duct leakage. (When ducts are located outside conditioned space, the total leakage of the ducts, measured in accordance with R403.3.5, shall be in accordance with one of the following: □19 a. Where air handler is installed at the time of testing, 2.0 cubic feet per minute per 100 square feet of conditioned floor area. □19 b. Where air handler is not installed at the time of testing, 1.75 cubic feet per minute per 100 square feet of conditioned floor area. □19 2 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 2.0 ACH50, with either an Energy Recovery Ventilator (ERV) or Heat Recovery Ventilator (HRV) installed.) □20 2 ACH50 air leakage rate with balanced ventilation. (Less than or equal to 2.0 ACH50, with balanced ventilation as defined in Section 202 of the 2021 International Mechanical Code.) □21 1.5 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 1.5 ACH50, with either an ERV or HRV installed.) □22 1 ACH50 air leakage rate with ERV or HRV installed. (Less than equal to 1.0 ACH50, with either an ERV or HRV installed.) □23 Energy Efficient Appliances (Minimum 3 appliances not to exceed 1 form each type with follow efficien- cies. Refrigerator - Energy Star Program Requirements, Product Specification for Clothes Dryer - Energy Star Program Requirements for Residential Dishwashers, Version 6.0 (01/29/2016), Clothes Dryer - Ener	1 2		3%
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System.) □ 16 More efficient HVAC distribution system. (100 percent of ductless thermal distribution system or hydron- ic thermal distribution system located completely inside the building thermal envelope.) □ 17 100% of ducts in conditioned space. (100 percent of duct thermal distribution system located in conditioned space as defined by Section R403.3.2.) □ 18 Reduced total duct leakage. (When ducts are located outside conditioned space, the total leakage of the ducts, measured in accordance with R403.3.5, shall be in accordance with one of the following: □ a. Where air handler is installed at the time of testing, 2.0 cubic feet per minute per 100 square feet of conditioned floor area. □ Where air handler is not installed at the time of testing, 1.75 cubic feet per minute per 100 square feet of conditioned floor area. □ 19 2 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 2.0 ACH50, with either an Energy Recovery Ventilator (ERV) or Heat Recovery Ventilator (HRV) installed.) □ 20 2 ACH50 air leakage rate with balanced ventilation. (Less than or equal to 2.0 ACH50, with balanced ventilation as defined in Section 202 of the 2021 International Mechanical Code.) □ 21 1.5 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 1.5 ACH50, with either an ERV or HRV installed.) □ 22 1 ACH50 air leakage rate with ERV or HRV installed. (Less than equal to 1.0 ACH50, with either an ERV or HRV installed.) □ 23 Energy Efficient Appliances (Minimum 3 appliances not to exceed 1 form each type with follow efficien- cies. Refrigerator - Energy Star Program Requirements, Product Specification for Consumer Refrigeration Products, Version 5.1 (08/05/2021), Dishwasher - Energy Star Program Requirements for Residential Dishwashers, Version 6.0 (01/29/2016), Clothes Dryers, Version 5.1 (08/05/2017) and Clothes Washer - Energy Star Program Requirements, Product Specification for Clothes Dryers, Version 1.1 (05/05/2017) and Clothes Washer - Energy Star Program Requirements, Product	□14		8%
or hydron- ic thermal distribution system located completely inside the building thermal envelope.) 17	□ 15		6%
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leakage of the ducts, measured in accordance with R403.3.5, shall be in accordance with one of the following: a. Where air handler is installed at the time of testing, 2.0 cubic feet per minute per 100 square feet of conditioned floor area. b. Where air handler is not installed at the time of testing, 1.75 cubic feet per minute per 100 square feet of conditioned floor area. 19 2 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 2.0 ACH50, with either an Energy Recovery Ventilator (ERV) or Heat Recovery Ventilator (HRV) installed.) 20 2 ACH50 air leakage rate with balanced ventilation. (Less than or equal to 2.0 ACH50, with balanced ventilation as defined in Section 202 of the 2021 International Mechanical Code.) 1.5 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 1.5 ACH50, with either an ERV or HRV installed.) 1.4 ACH50 air leakage rate with ERV or HRV installed. (Less than equal to 1.0 ACH50, with either an ERV or HRV installed.) 22 In ACH50 air leakage rate with ERV or HRV installed. (Less than equal to 1.0 ACH50, with either an ERV or HRV installed.) 3 Energy Efficient Appliances (Minimum 3 appliances not to exceed 1 form each type with follow efficiencies. Refrigerator - Energy Star Program Requirements, Product Specification for Consumer Refrigeration Products, Version 5.1 (08/05/2021), Dishwasher - Energy Star Program Requirements for Residential Dishwashers, Version 6.0 (01/29/2016), Clothes Dryer - Energy Star Program Requirements, Product Specification for Clothes Washer - Energy Star Program Requirements, Product Specification for Clothes Washer - Energy Star Program Requirements, Product Specification for Clothes Washers, Version 8.1 (02/05/2018)	□ 17		12%
with either an Energy Recovery Ventilator (ERV) or Heat Recovery Ventilator (HRV) installed.) 20	□18	leakage of the ducts, measured in accordance with R403.3.5, shall be in accordance with one of the following: a. Where air handler is installed at the time of testing, 2.0 cubic feet per minute per 100 square feet of conditioned floor area. b. Where air handler is not installed at the time of testing, 1.75 cubic feet per minute per	1%
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□ 21 1.5 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 1.5 ACH50, with either an ERV or HRV installed.) 12% □ 22 1 ACH50 air leakage rate with ERV or HRV installed. (Less than equal to 1.0 ACH50, with either an ERV or HRV installed.) 14% □ 23 Energy Efficient Appliances (Minimum 3 appliances not to exceed 1 form each type with follow efficiencies. Refrigerator - Energy Star Program Requirements, Product Specification for Consumer Refrigeration Products, Version 5.1 (08/05/2021), Dishwasher - Energy Star Program Requirements for Residential Dishwashers, Version 6.0 (01/29/2016), Clothes Dryer - Energy Star Program Requirements, Product Specification for Clothes Washer - Energy Star Program Requirements, Product Specification for Clothes Washers, Version 8.1 (02/05/2018)	□ 20	with balanced ventilation as defined in Section 202 of the 2021 International	4%
□ 22 1 ACH50 air leakage rate with ERV or HRV installed. (Less than equal to 1.0 ACH50, with either an ERV or HRV installed.) □ 23 Energy Efficient Appliances (Minimum 3 appliances not to exceed 1 form each type with follow efficien- cies. Refrigerator - Energy Star Program Requirements, Product Specification for Consumer Refrigeration Products, Version 5.1 (08/05/2021), Dishwasher - Energy Star Program Requirements for Residential Dishwashers, Version 6.0 (01/29/2016), Clothes Dryer - Energy Star Program Requirements, Product Specification for Clothes Dryers, Version 1.1 (05/05/2017) and Clothes Washer - Energy Star Program Requirements, Product Specification for Clothes Washers, Version 8.1 (02/05/2018)	□21	1.5 ACH50 air leakage rate with ERV or HRV installed. (Less than or equal to 1.5 ACH50,	12%
Energy Efficient Appliances (Minimum 3 appliances not to exceed 1 form each type with follow efficien- cies. Refrigerator - Energy Star Program Requirements, Product Specification for Consumer Refrigeration Products, Version 5.1 (08/05/2021), Dishwasher - Energy Star Program Requirements for Residential Dishwashers, Version 6.0 (01/29/2016), Clothes Dryer - Energy Star Program Requirements, Product Specification for Clothes Dryers, Version 1.1 (05/05/2017) and Clothes Washer - Energy Star Program Requirements, Product Specification for Clothes Washers, Version 8.1 (02/05/2018)	□22	1 ACH50 air leakage rate with ERV or HRV installed. (Less than equal to 1.0 ACH50, with either	14%
□ 24 Renewable Energy Measure. 11%	□23	Energy Efficient Appliances (Minimum 3 appliances not to exceed 1 form each type with follow efficiencies. Refrigerator - Energy Star Program Requirements, Product Specification for Consumer Refrigeration Products, Version 5.1 (08/05/2021), Dishwasher - Energy Star Program Requirements for Residential Dishwashers, Version 6.0 (01/29/2016), Clothes Dryer - Energy Star Program Requirements, Product Specification for Clothes Dryers, Version 1.1 (05/05/2017) and Clothes Washer - Energy Star Program Requirements, Product Specification for	7%
- " " " " " " " " " " " " " " " " " " "	□ 24	Renewable Energy Measure.	11%

I hereby certify that the building design represented in the attached construction documents has been designed to meet or exceed the requirements of 2021 Edition International Energy Conservation Code (IECC)

Project Address:		
Applicant Signature:	Date:	