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Residential Plan Review Checklist

2015 IECC Commercial Provisions as amended by the 2016 Energy Code Supplement

_____Name of Evaluator(s):_____

Building Contact: Name:			Phone:	Email:					
Building Nan	ne & Address:								
Subdivision: Lot #:				Conditioned Floor Area:ft ²					
Climate Zone: County: Jurisdiction				1:					
Compliance	Approach: Prescriptive Tra	ade-Off	Performance] Com	pliance	Software		
Compliance	Software Used:			Green Building/Above-Code Program? ☐ Yes ☐ No					
Building Type: 1- and 2-Family, Detached: Single Family				Modular					
Multifamily: ☐ Apartment ☐ Cor						m			
Project Type: New Building					☐ Existing Building Renovation				
Special Cons	siderations:	listoric Buildir	ng	☐ Commercial Space					
Provisions I	Highlighted in Blue are Mandatory,	Regardless	of Complian	ce Pa	th				
IECC		Code	Verified	Complies			(1) [1] 中国《西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西		
Section #	Pre-Inspection/Plan Review	Value	Value	Y	N	N/A	Comments/Assumptions ¹		
R103.2	Construction drawings and documentation available. Documentation sufficiently demonstrates energy code compliance.	Stores							
Insulation ma	aterials and their R-values	American and a second	A						
Fenestration									
Area-weighte									
	system design criteria								
Mechanical and service water heating system and equipment types, sizes and efficiencies									
Equipment and systems controls									
Duct sealing, duct and pipe insulation and location									
Lighting fixture schedule with wattage									
Air sealing			,						
R403.7	HVAC loads calculations: Heating system size(s): Cooling system size(s):	200	kBtu: kBtu:						
Written Statement of Compliance from Design Professional									

¹ Use Comments/Assumptions to document code requirements that pass due to exceptions, and specify the exception. Also use Comments/Assumptions to document multiple values observed for a given code requirement, such as multiple equipment efficiencies.



IECC	:		Verified	Complies		es	
Section #	Requirement	Code Value	Value	Y	N	N/A	Comments/Assumptions
R401.3	Certificate Posting	In furnace/ utility room or approved location	Identify location				
Table R402.1.2	Slab edge insulation R-value.	Unheated: R-10 Heated: R-15	R ☐ Unheated ☐ Heated				
Table R402.1.2	Slab edge insulation depth/length.	2 ft. Z-4 & 5 4 ft. Z-6	ft.				
Table R402.1.2	Basement wall insulation R-value ¹ .	Continuous: R-10 Z-4 R-15 Z-5, Z-6 Cavity: R-13 Z-4 R-19 Z-5, Z-6	R				
R402,2.9	Basement wall insulation depth.	10 ft. or to basement floor	ft,				
Table R402.1.2 And R402.2.11	Crawl space wall insulation R-value. From floor to finished grade, plus 2' vertical or horizontal	Continuous: R-10 Z-4 R-15 Z-5, Z-6 Cavity: R-13 Z-4 R-19 Z-5, Z-6	R				
R402.2.11	Crawl space continuous vapor retarder	Required Class I					
R303.2.1	Exposed foundation insulation protection.	6" below grade					
R403,9	Snow melt controls.	Automatic controls over 50°F					
Table R402.1.2	Fenestration U-factor ⁱⁱ	Max: U-0.35 Z-4 U-0.32 Z5, Z-6	U				
R402.5	Maximum Fenestration U-factor, Area weighted average (trade-offs)	Max: U-0.48 Z-4, Z-5 U-0.40 Z-6	U				
Table R402.1.2	Glazed Fenestration SHGC	Max: 0.40 Z-4 NR Z-5, Z-6	SHGC				
R402.4.3	Glazed fenestration air leakage.	0.3 cfm/ft² max	cfm/ ft ²				
	Window Manufacturer						
R402.4.3	Sliding door air leakage.	0,3 cfm/ft² max	cfm/ ft ²				
R402.4.3	Swinging door air leakage	0.5 cfm/ft² max	cfm/ ft ²				
	Door Manufacturer	_	-				
Table R402.1.2	Floor insulation R-value.	Wood: R-19 Z-4 R-30 Z-5 & 6 ^{it} Steel: ^{lv} See footnote	R Wood Steel				
Table R402.1.2	Wall insulation R-value	Wood: Z-4 and Z-5 = R-20 or R-13+5 Z-6 = R-20+5 or 13+10 Steel; ^v See footnote	R Wood Steel				

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IECC		To the second	Verified	C	ompl	ies	
Section #	a system of the	Code Value	Value	Y	N	N/A	Comments/Assumptions
Table R402.1.2	Ceiling insulation R-value	Wood: R-49 (All Zones)	R				•
		Steel Truss ^{vi} R-38+5	☐ Wood ☐ Steel				
R402.2.3	Eave Baffle	For air- permeable insulation					
Table R402.1.2	Mass wall insulation R-value.	R-8/13 Z-4 ^{vii} R-13/17 Z-5 ^{vii} R-15/20 Z6 ^{vii}					
R402.2.13	Sunroom wall insulation (Enclosing conditioned space)	Per Table R402.1.2	R				
R402.2.13	Sunroom wall insulation (Thermally isolated and conditioned)	R-13 All climate zones	R				
R402.2.13	Sunroom ceiling insulation (Enclosing conditioned space)	Per Table R402.1.2	R				
R402.2.13	Sunroom ceiling insulation (Thermally isolated and conditioned)	R-19 Z-4 R-24 Z-5, Z-6	R				
R402.3.5	Sunroom glazing U-factor (Enclosing conditioned space)	Per Table R402.1.2	U				
R402.3.5	Sunroom glazing U-factor (Thermally isolated and conditioned)	U-0.45 max. (All Zones)	U				
R402.3.5	Sunroom skylight U-factor (Enclosing conditioned space)	Per Table R402.1.2	U				
R402.3.5	Sunroom skylight U-factor (Thermally isolated and conditioned)	U-0.70 max. (All Zones)	U				
	Skylight Manufacturer			Accessed to the second			
R402.2.4	Attic access hatch and door (insulation)	R-49 (All Zones)	R				
R402.2.4	Attic access hatch and door (weather-stripping)	Wood frame or equivalent insul. retainer					
R402.4.6	Tenant separation walls	R-10 w/ air seal	R				10 10 10 10 10 10 10 10 10 10 10 10 10 1
R402.4	Air Leakage (Building Thermal Envelope)	All building materials installed per Table R402.1.1					
R402.4.1.2		3 air changes per hour (All zones) Blower door test	☐ Stated				
R402.4.5	fixtures meet infiltration criteria.	≤ 2.0 cfm air leakage	☐ Stated				
R402.4.4		Sealed Outside as	Stated			_	
	appliances	Outside or enclosed in a room	☐ Meets exceptions				
R402.1.1		Class I or II (Zones 5 and 6 only)					
R403.1.1	Thermostat	Programmable					

IECC	Requirement	Code Value	Verified Value	Complies			
Section #				Y	N	N/A	Comments/Assumptions
R403.3.1	Duct insulation.	Supply & Return in Attics: R-8 for ≥3" Dia. R-6 for <3" Dia. Other: R-6 for ≥3" Dia. R-4.2 for <3" Dia.	☐ Inside building thermal envelope exception				
R403.3.2	Duct sealing complies with listed sealing methods.	All joints and seams	☐ Meets exception				
R403,3.3	Duct Testing	0.1 inch w.g. pressure differential	☐ Stated				
		Rough-in test required	☐ Stated				
		Post construction test required	☐ Stated				
September 1988			☐ Exception				
R403.3.5	Building cavities NOT used as ducts or plenums	Stated? Shown?					
R403.4	HVAC piping insulation.	R-3 (>105°For <55°F)	R				
R403.5.1	Heated water circulation and temperature maintenance system	Per requirements of Section R403.5.1.1 or R403.5.1.2	☐ Circulation System ☐ Heat Trace System				
R403.5.3	Hot water pipe insulation	R-3 per specified locations					
R404.1	Lighting – Minimum 75% of lamps are high efficacy.						
R402.4.2	Wood burning fireplace	Tight-fitting flue damper or doors					
R403.10	Pool heaters, covers, and automatic or accessible manual controls.	Accessible on/off switch. Time Switch					

ii One side-hinged door up to 24 ft² can be exempted from the prescriptive door U-factor requirements.
iii Or insulation sufficient to fill the cavity, R-19 minimum.
iv Floor steel frame equivalent: See Table R402.2.6
v Wall steel frame equivalent: See Table R402.2.6
vi Steel truss equivalent: See Table R402.2.6
vii The second R-value applies when more than half the insulation is on the interior of the mass wall.