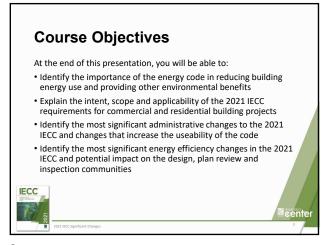
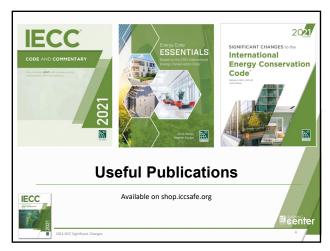
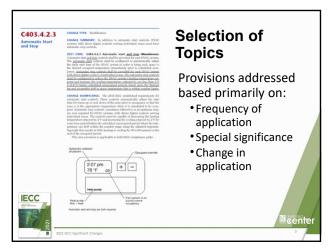


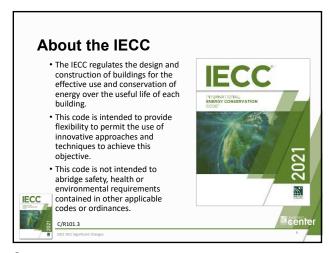
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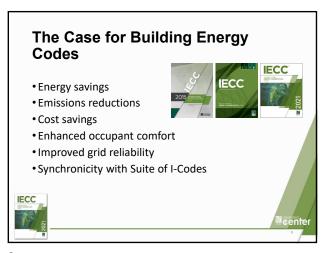
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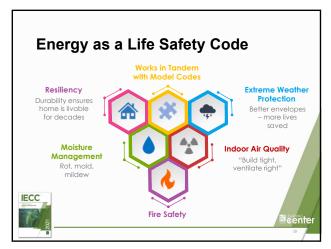


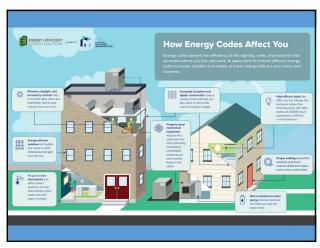




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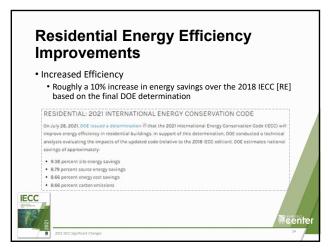




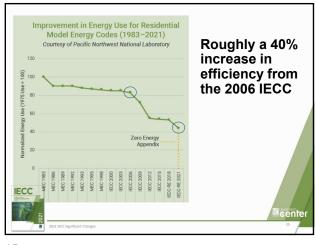
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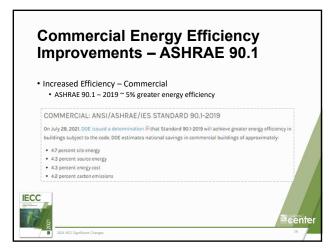


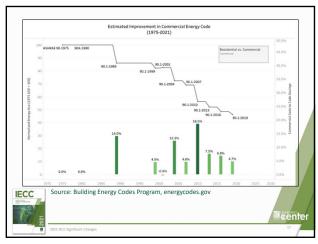




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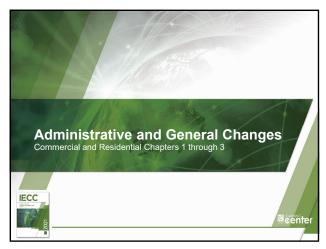


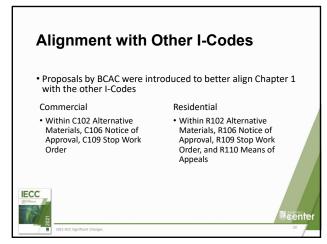




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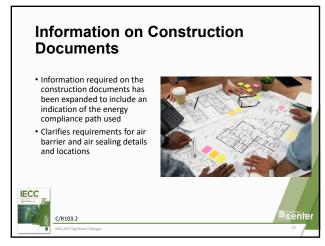
Commercial Energy Efficiency Improvements - IECC • September 2022 DOE • On a national weighted analysis of commercial average basis, the 2021 IECC provisions of the 2021 IECC is 6.5% more efficient for site energy use than • Site energy savings of 12.1% ASHRAE 90.1-2019 at the aggregate national • Full report available at level compared to the 2018 IECC edition energycodes.gov IECC

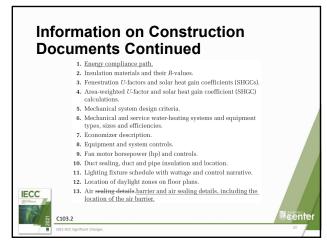


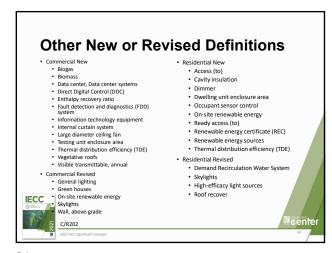


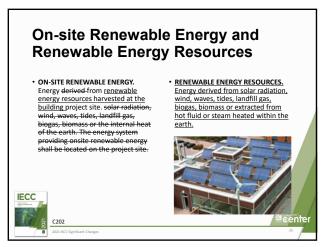
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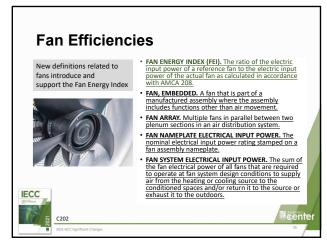






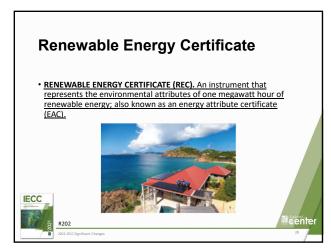


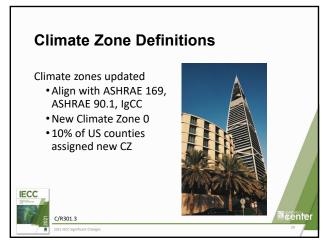




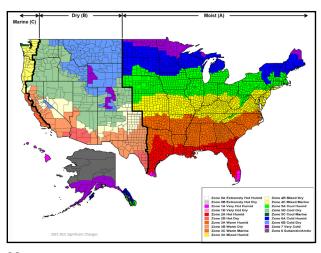
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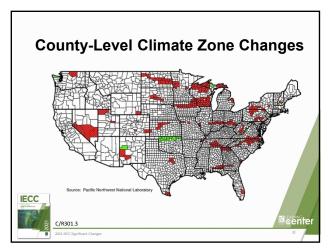


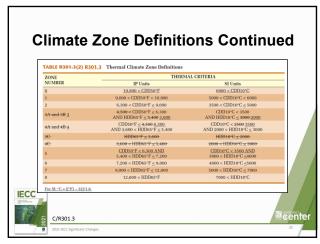




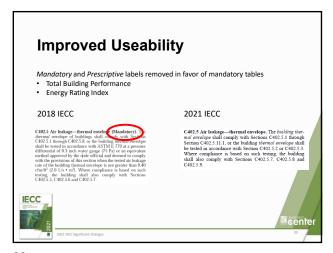
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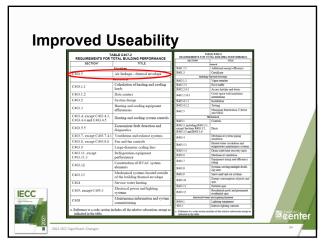






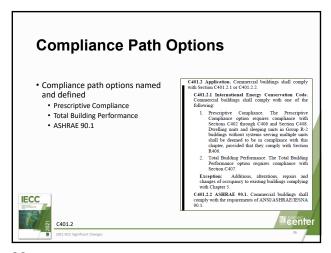
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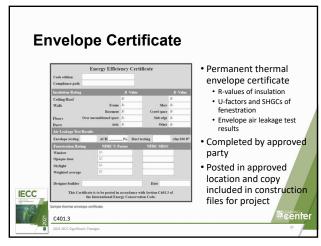


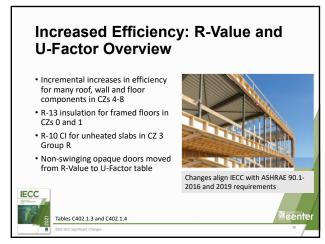




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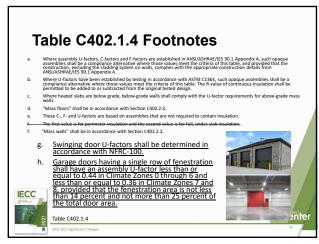




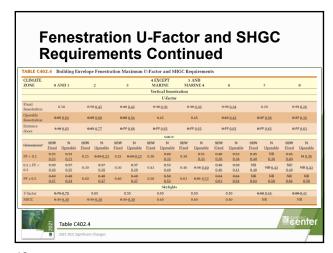
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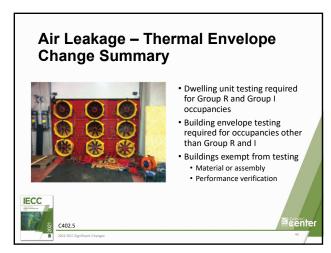
TABLE C40	2.1.3	Opaqu	e Ther	mal Env	relope I	nsulatio	n Compo	nent Min	imum Kequ	irements,	R-Value M	ethod				
	0 A2	(D 1		2		2	4 EXCEPT	MARINE	5 AND M.	ARINE 4		6	7			8
CLIMATE ZONE	All	Group R	All	Group R	All	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R
									Roofs							
Insulation entirely above roof deck	R-20ci	R-25ci	R-25ci	R-25ci	R-25ci	R-25ci	R-30ci	R-30ci	R-30ci	R-20ci	R-00ci	R-00ci	R-05ci	R-35ci	R-05ci	R-35ci
Metal buildings ^b	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-25 + R-11 LS	R-25 + R-11 LS R-30 + R11. LS	R-30 + R-11 LS	R-30 + R-11 LS	R-00 + R-11 + IS R-25 + R11 + R11 IS	R-00 + R-11-18 R-25 + R11+R-11-LS
Attic and other	R-38	R-04	R-ma	R-m	R-20	R-38	R-00 R-42	H-30 E-42	R-00 R-42	R-49	R-49	R-49	R-49 R-60	R-10 R-10	H-49 R-60	R-60
								H	alls, above grade	,						
Mass ^f	R-5.7cF	R-5.7ci*	R-5.7ci*	R-7.6ci	R-7.6ci	R-9.5ci	R-9.5ci	R-11.4ci	R-11.4ci	R-13.3ci	R-13.3ci	R-15.2ci	R-15.2ci	R-15.2ci	R-25ci	R-25ci
Metal building	R-13+ R-6.5ci	R-13 + R-6.5ci	R13 + R-6.5ci	R-13 + R-13ci	R-13 + R-6.5ci	R-13 + R-13ci	R-13+ R-13ci	R-10+ R-10ei R-13+R-14 gi	R-10 H-15ci R-13+R-14 ci	R-10+ R-10ei R-13+R-14 gi	8-10 R-13-E-14-ci	R-10 R-13-E-14-ci	R-10-+ R-13-E-17ci	R-13+ R-19.5ci	8-10 R-13ci E-13cR-19.5ci	R-13+ R-19.5ci
Metal framed	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13+R-10ci	R-19-4- R-7:5ci R-13+R-10ci	R-19-4- R-7-5ci R-13+R-12-5ci	R-13-e- R-13-R-12.5ci	R-10-4- H-7-5ci R-13+R-12-5ci	R-13 + R-15.6si	8-19-e- R-7-5ci E-13+R-18-8ci	R-10+ R17-5ei R-11+R-18-8ei
Wood framed and other	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	8-00-c R-00-c ce-8-20 R-13+R-7-5ci or R-20+R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-0.8ci	R10+ R-15.6ci or R-20 + R-10ci R-13+R18.6ci	R15-+ R-15-5ci or R-20 + R-10ci R-13+R18-8ci
								W	alls, below grade							
Below-grade wall ⁴	NR	NR	NR	NR	NR	NR	R-7.5ci	R-10ci	R-7.5ci	R-7:5ei R-10ci	R-roci R-10ci	R-15ci	R-15ci	8-10ci	R-10-i R-15ci	R-126ci
									Floors							
Mass*	NR	NR	R-6.2ci	R-0.3ci	R-t0ci	R-10ci	R-10ei R-14.6ei	R-10-1ci R-16.7ci	H-10ci R-14.6ci	R-16.7ci	R-12-5ei R-16-7ei	R-10.7ci	R-15ei R-20.9ei	R-16-7ei R20.9ei	R-23ci	R-16-7ei R-23ci
Joist/framing	NR R-12	NH E-13	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-10 R-28	R-00' R-28	R-36	R-28	R-00 ⁴ R-18	R-00 <u>R-38</u>
								Sli	ib-on-grade floor							
Unheated slabs ^g	NR	NR	NR	NR	NR	R-10 for 24" below	R-10-for- 24" below R-15 for 24" below	R-10-for- 24' below R-15 for 24' below	R-10-for-24"- below R-15 for 24" below	R-10-fee 24*below R-20 for 24* below	R-10-for-241- below R-20 for 24" below	R-15-for-24 ¹ - below R-20 for 48" below	R-15-for-24" below R-20 for 24" below	for 24"- below R-20 for 48" below	R-15-for 241- below R-20 for 48" below	it-20-for-24'- below R-25 for 48" below
Heated slabs ^b	R-7.5 for 12" below + R-5 full slab	R-7.5 for 12" below + R-5 full slab	R-7.5 for 12° bolow + R-5 full slab	R-7.5 for 12" below + R-5 full slab	R-10 for 24" below + R-5 full slab	R-10 for 24" below + R-5 full slab	R-15 for 24" below + R-5 full slab	R-15 for 24" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-20 for 48" below + R-5 full slab	R-20 for 48" below + R-5 full slab	R-20 for 48° below + R-5 full slab	R-20 for 48" below + R-5 full slab	R-20 for 48° below + R-5 full slab
									Opaque doces							
Nonswinging	R-4.75	R-4.75	R-4:75	R-4:75	H-4.75	8-4.75	R-4.75	84.75	8-4.75	R4.75	84.75	84.75	H-4:75	R-4.75	H-4:75	R-4.75

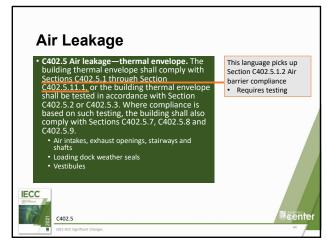
								4		5						
	0 AND 1		2		3			MARINE	AND MARINE 4		6		7			8
CLIMATE ZONE	All	Group R	All other	Group R	All	Group R	All	Group R	All	Group R	All	Group R	All	Group R	All	Group
								Roods								
Insulation entirely above roof deck	U-0.048	U-0.039	U-0.039	U-0.039	U-0.039	U-0.039	U-0.032	U-0.032	U-0.032	U-0.032	U-0.032	U-0.032	U-0.028	U-0.028	U-0.028	U-0.028
Metal buildings	U-0.035	U-0.035	U-0.035	U-0.035	U-0.035	U-0.035	U-0.035	U-0.035	U-0.035	U-0.035	U-0.031	U-0.029	U-0.029	U-0.029	U-0.029 U-0.026	U-0.026
Attic and other	U-0.027	U-0.027	U-0.027	U-0.027	U-0.027	U-0.027	U-0.027 U-0.021	U-0.027 U-0.021	U-0.027 U-0.021	U-0.021	U-0.021	U-0.021	U-0.017	U-0.017	U-0.017	U-0.017
Walls, above grade																
Massi	U-0.151	U-0.151	U-0.151	U-0.123	U-0.123	U-0.104	U-0.104	U-0.090	U-0.090	U-0.080	U-0.080	U-0.071	U-0.071	U-0.071	U-0.051 U-0.017	U-0.001 U-0.007
Metal building	U-0.079	U-0.079	U-0.079	U-0.079	U-0.079	U-0.052	U-0.052	U-0.050 U-0.050	U-0.050	U-0.050 U-0.050	U-0.050	U-0.050	U-0.052 U-0.044	U-0.039	U-0.052 U-0.039	U-0.039
Metal framed	U-0.077	U-0.077	U-0.077	U-0.054	U-0.064	U-0.064	U-0.064	U-0.054	U-0.055	U-0.055	U-0.049	U-0.004 U-0.049	U-0.064 U-0.049	U-0.052 U-0.042	U-0.054 U-0.017	U-0.007
Wood framed and other	U-0.064	U-0.064	U-0.064	U-0.064	U-0.064	U-0.064	U-0.064	U-0.064	U-0.051	U-0.051	U-0.051	U-0.051	U-0.051	U-0.061	U-0.016 U-0.012	U-0.002
Walls, below grade																
Below-grade wall ^c	C-1.140°	C-1.140°	C-1.140°	C-1.140°	C-1.140°	C-1.140°	C-0.119	C-0.092	C-0.119	G-0.119 C-0.092	G-0.119 C-0.092	G-0.119 G-0.053	G-0.002 C-0.063	G-0.092 G-0.063	C-0.063	G-0.092 C-0.063
							1	loors								
Mass ^d	U-0.322*	U-0.322°	U-0.107	U-0.087	U-0.074	U-0.076 U-0.074	U-0.057	U-0.074 U-0.051	U-0.057	U-0.051	U-0.051	U-0.051	U-0.042	U-0.042	U-0.038	U-0.038
Joint/framing	U-0.066*	U-0.066*	U-0.033	U-0.013	U-0.033	U-0.013	U-0.033	U-0.013	U-0.033	U-0.013	U-0.027	U-0.033 U-0.027	U-0.027	U-0.033 U-0.027	U-0.027	U-0.003 U-0.027
							Slab-on	grade floors								
Unheated slabs	F-0.73*	F-0.73*	F-0.73*	F-0.73*	F-0.73°	F-0.54	F-0.52	F-0.52	F-0.52	F-0.51	F-0.51	F-0.434	F-0.49 F-0.51	F-0.434	F-0.434	F-0.424
Heatod slabs ^e	P-1.02 0.74 F-0.69	F-1.02 0.74 F-0.69	F-1.02 0.74 F-0.60	F-1.02 0.74 F-0.69	F-0.66	F-0.00 0.74 F-0.66	F-0.62	F-0.65 0.64 F-0.62	F-0.79 0.64 F-0.62	F-0.79 0.64 F-0.62	F-0.79 0.55 F-0.62	F-0.60 0.55 F-0.602	F-0.602	P-0.60- 0.55- F-0.602	P-0.69 0.55 F-0.602	F-0.602 F-0.602
	2-92-013	1-0.00	2-200	1-000	2-0200	1-5002		que doors	1-0.02	2-22-04	1-000	PHARME	1-0.000	PHIME	1-0.004	PHIME
Nonawinging door	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31
Swinging door*	U-0.61 U-0.27	U-0.61 U-0.37	U-0.61 U-0.37	U-0.61 U-0.37	U-0.61 U-0.37	U-0.65 U-0.37	U-0.61 U-0.37	U-0.65 U-0.37	U-0.37	U-0.37	U-0.37	U-0.37	U-0.37	U-0.37	U-0.37	U-0.37
Garage door	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31	U-0.31



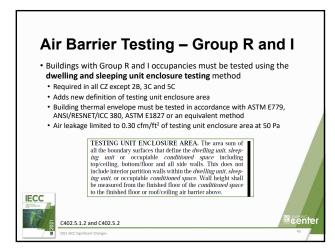
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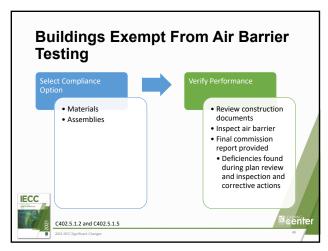
Air Barrier Testing – Group R and I Continued • Where multiple dwelling/sleeping units or other occupiable conditioned spaces are contained within one building thermal envelope, each unit must be tested separately with an unguarded blower door test • The building air leakage is the weighted average of all testing unit results, weighted by each testing unit's enclosure area • 8 or less units, test them all • 8 or more units, test them all • 8 or more units, test the greater of 7 units or 20 percent of all units • Top floor unit, ground floor unit, unit with largest area • For each unit that exceeds maximum air leakage rate (fails), test two more

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Air Barrier Testing - All Other **Occupancies** • Buildings or portions of buildings other than Group R and I occupancies must be tested using the building thermal envelope testing method • Tested in accordance with ASTM E779, ANSI/RESNET/ICC 380, ASTM E3158 or ASTM E1827 or an equivalent method $\bullet\,$ Air leakage limited to 0.40 cfm/ft² of building thermal envelope area at 75 Pa Alternatively, portions of the building can be tested and measured air leakage area weighted • Entire envelope area of all stories that have any spaces directly under a roof • Entire envelope area of all stories that have a building entrance, exposed floor, or loading dock, or are below grade Representative above-grade sections of the building totaling at least 25 percent of the wall area enclosing the remaining conditioned space IECC C402.5.1.2 and C402.5.3

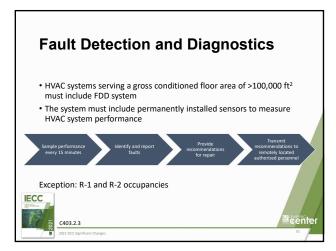
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Air Barrier Testing - All Other Occupancies Continued • If the building air leakage rate exceeds 0.40 cfm/ft² but does not exceed 0.60 cfm/ft² • Diagnostic evaluation using smoke tracer or infrared imaging while building is pressurized required along with a visual inspection of the air barrier • Any leaks noted must be sealed where such sealing can be made without destruction of existing building components • A report identifying corrective actions taken to seal leaks must submitted to the code official and building owner • Building is deemed to comply, no retest required Exceptions: • Buildings in CZ 2B, 3B, 3C and 5C • Buildings larger than 5,000ft² in CZ 0B, 1, 2A, 4B and 4C ECC Buildings between 5,000ft² and 50,000ft² in CZs 0A, 3A and 5B

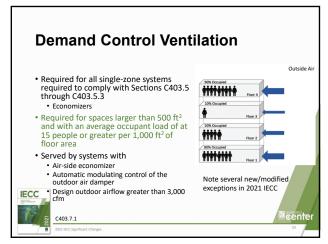




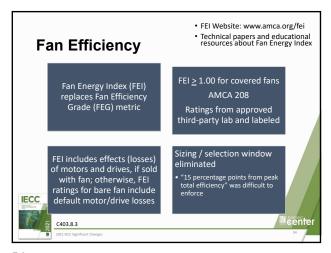
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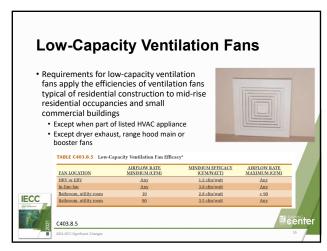


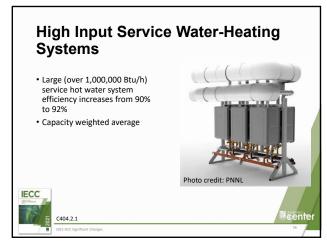




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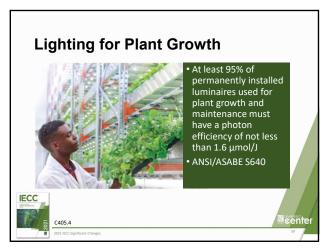




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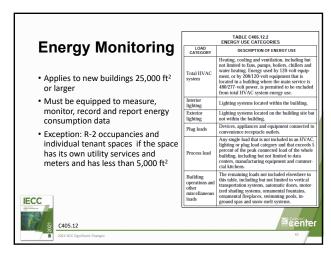






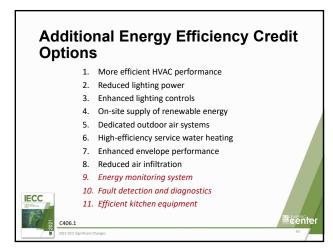
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	ADDI	TIONAL	ENER	SY EF			C406.1 REDIT		GROU	JP B C	OCCUP	ANCII	ES					1
SECTION		0B & 1B	2A	28	3A	38	3C	CLIMA	TE ZON	E 4C	5A	58	5C	6A	68		8	
C406.2.1: 5% heating efficiency improvement	NA NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	NA	1	1	NA	1	
C406.2.2: 5% cooling efficiency improvement	6	6	5	5	4	4	3	3	3	2	2	2	1	2	2	2	1	
C406.2.3: 10% heating efficiency improvement	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1	1	2	2	NA	1	
C406.2.4: 10% cooling efficiency improvement	11	12	10	9	7	7	6	5	6	4	4	5	3	4	3	3	3	
C406.3: Reduced lighting power	9	8	9	9	9	9	10	8	9	9	7	8	8	6	7	7	6	
C406.4: Enhanced digital lighting controls	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	1	
C406.5: On-site renewable energy	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
C406.6: Dedicated outdoor air	4	4	4	4	4	3	2	5	3	2	5	3	2	7	þ	5	3	ı
C406.7.2: Recovered or renewable water heating	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ı
C406.7.3: Efficient fossil fuel water heater	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ı
C406.7.4: Heat pump water heater	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
C406.8: Enhanced envelope performance	1	4	2	4	4	3	NA	7	4	5	10	7	6	11	10	14	16	
C406.9: Reduced air infiltration	2	1	1	2	4	1	NA	8	2	3	11	4	1	15	8	11	6	
C406.10: Energy monitoring	4	4	4	4	3	3	3	3	3	3	2	3	2	2	2	2	2	I
C406.11: Fault detection and Odiaministics where Chan	ges 2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	ŀ

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	•	71 (Ol	J۴)	R	6	ar	C	H	()	C	CL	ıμ)2	ar
	NDDTIO!	IAL ENE	DGV E	EEICI			406.1		OHE	2 AND	LOCC	HDAN	CIES		Ť		
SECTION								CUMA	TE ZON	E							
C406.2.1: 5% heating		0B & 1B		28	3A	3B	3C	4A	4B	4C	5A	5B	6C	6A	6B	7	8
efficiency improvement	NA	NA	NA	NA	1	NA	NA	1	NA	1	1	1	1	2	1	2	2
C406.2.2: 5% cooling efficiency improvement	3	3	2	2	1	1	1	1	1	NA	1	1	NA	1	1	1	NA
C406.2.3: 10% heating efficiency improvement	NA	NA	NA	NA	1	NA	NA	1	1	1	2	2	1	3	2	3	4
C406.2.4: 10% cooling efficiency improvement	5	5	4	3	2	3	1	2	2	1	1	1	1	1	1	1	1
C406.3: Reduced lighting power	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
C406.4: Enhanced digital lighting controls	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C406.5: On-site renewable energy	8	8	8	8	7	8	8	7	7	7	7	7	7	7	7	7	7
C406.6: Dedicated outdoor air system	3	4	3	3	4	2	NA	6	3	4	8	5	5	10	7	11	12
C406.7.2: Recovered or renewable water heating	10	9	11	10	13	12	15	14	14	15	14	14	16	14	15	15	15
C406.7.3: Efficient fossil fuel water heater	5	5	6	6	8	7	8	8	8	9	9	9	10	10	9	10	11
C406.7.4: Heat pump water heater	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
C406.8: Enhanced envelope performance	3	6	3	5	4	4	1	4	3	3	4	5	3	5	4	6	6
C406.9: Reduced air infiltration	6	5	3	11	6	4	NA	7	3	3	9	5	1	13	6	8	3
C406.10: Energy monitoring	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C406.11: Fault detection and diagnostics system	1	1	1	1	1	1	NA	1	1	NA	1	1	NA	1	1	1	1

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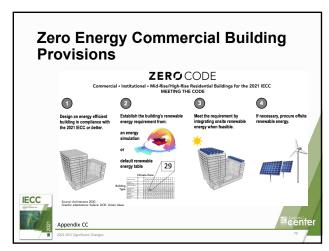
rformance	TABLE C407.2 REQUIREMENTS FOR TOTAL BUILDING PERFORMANCE					
	SECTION ²	TITLE				
	C402.5	Air leakage—thermal envelope				
		Mechanical				
st have an annual energy	C403.1.1	Calculation of heating and cooling loads				
t less than or equal to 80	C403.1.2	Data centers				
cent of the standard	C403.2	System design				
erence design	C403.3	Heating and cooling equipment efficiencies				
Standard reference design	C403.4, except C403.4.3, C403.4.4 and C403.4.5	Heating and cooling system controls				
valls to be the same as	C403.5.5	Economizer fault detection and diagnostics				
proposed	C403.7, except C403.7.4.1	Ventilation and exhaust systems				
st meet requirements of	C403.8, except C403.8.6	Fan and fan controls				
	C403.9	Large-diameter ceiling fans				
le C407.2	C403.11, except C403.11.3	Refrigeration equipment performance				
	C403.12	Construction of HVAC system elements				
	C403.13	Mechanical systems located outside of the building thermal envelope				
	C404	Service water heating				
	C405, except C405.3	Electrical power and lighting systems				
	C408	Maintenance information and syste				

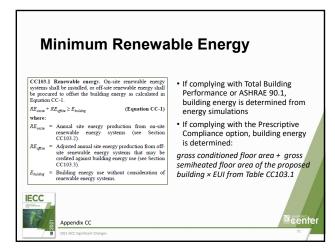




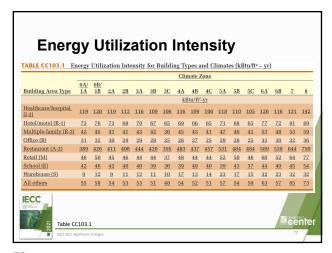
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Appendix CC: Zero Energy Commercial Building Provisions • Appendix CC provides a model • Supplemental definitions for states and jurisdictions to Adjusted off-site renewable require renewable energy systems capable of achieving energy Building energy net zero carbon • Energy Utilization Intensity (EUI) Off-site renewable energy system Applies to new buildings On-site renewable energy system Renewable energy system • Semiheated space Zero Energy Performance Index (ZEPI PB/EE) **IECC** Appendix CC





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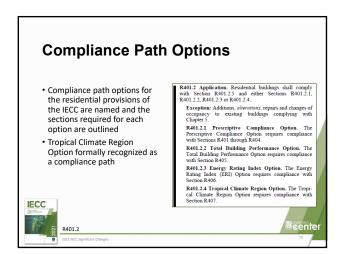


Qualifying Off-Site Procurement Methods 1. Community renewables: an off-site renewable energy system for which the owner has purchased or leased renewable energy capacity along with other subscribers. 2. Renewable energy investment fund: an entity that installs renewable energy capacity on behalf of the owner. 3. Virtual power purchase agreement: a power purchase agreement for off-site renewable energy where the owner agrees to purchase renewable energy output at a fixed price schedule. 4. Direct ownership: an off-site renewable energy system owned by the building project owner. 5. Direct access to wholesale market: an agreement between the owner and a renewable energy developer to purchase renewable energy. 6. Green retail tariffs: a program by the retail electricity provider to provide 100-percent renewable energy (critificates (RECs): certificates purchased by the owner representing the environmental benefits of renewable energy generation that are sold separately from the electric power.

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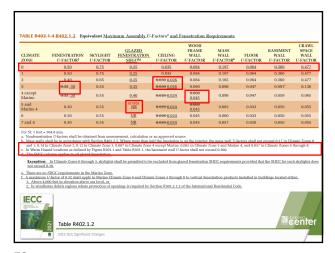
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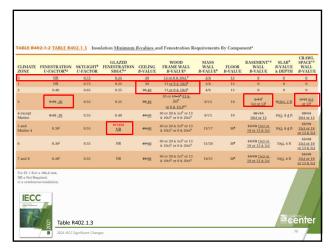


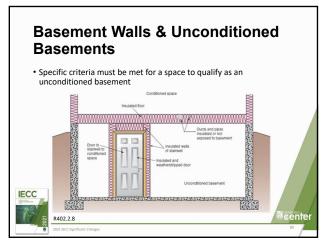
		Energy Effici	ency Certi	ficate	
	Code edition	_			
	Compliance path				
0 4161 4	Insulation Rating Ceiling Reof		R-Value R-		R Value
Certificate	Walls	France	Z.	Man	ă.
- Or timouto		Basement	Z-	Crawl space	R-
	Floors C	Over exconditioned space		Slab edge	A.
	Duces	Anie	Z-	Other	A-
	Air Leakage Test Re				
	Envelope testing	ACH	_Pa. Duct	_	cfm/100 ft
 Requirements for the 	Fenestration Rating	NFRC U-I	actor	NFRC SHGO	
	Opaque deor	D.			
certificate are expanded	Skylight	El-			
to include	Weighted average	U-			
	Equipment Perform	запсе Туре	Efficie		Stre
Code edition	Heating system Cooling system	_		AFUE SEER	_
. Camadianaa makk	Water heater			EF	
 Compliance path 	Indicate if the following	or have been installed (us	efficiency shall n	of be listed)	
 Additional energy efficiency 	electric furnace	gar-fire unvented to	om heater	basebaard ele	ctric beater
	Additional Energy I	Efficiency (check one)			
option		neo levans ne bed ngi	rgy cost ≤ 95%		
 PV system information 		reference design g Index score is at leas	r 5% less than	ERI rarget	
•	Additional eff	- ficiency package optio	n is installed (s	pecify option)	
 Energy Rating Index score 					
	Photovoltnic Panel S	System		nergy Rating In-	
	Array capacity			ith PV	
IECC	Inverter efficiency Panel tilt		**	ithout PV	
IECC	Orientation				
Marie and Allen	Designer-builder			Date	
		Scate is to be posted in			14
R401.3	Tab etta	the International Ene			
				76	
2021 IECC Significant Changes					



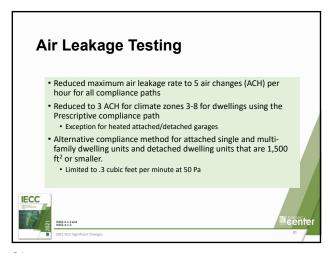
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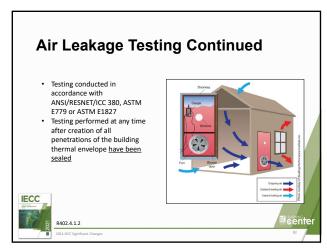


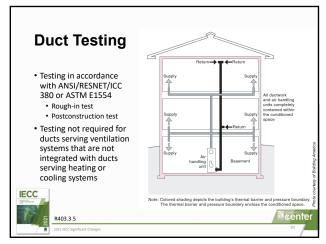




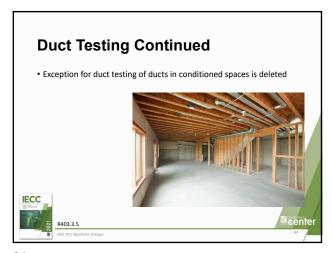
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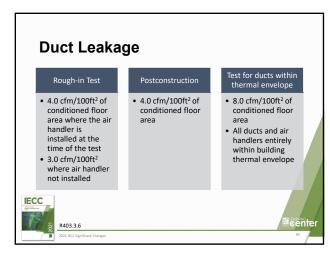


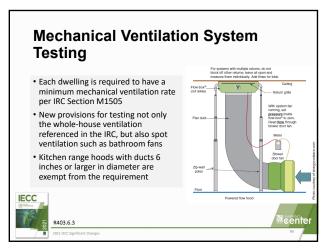




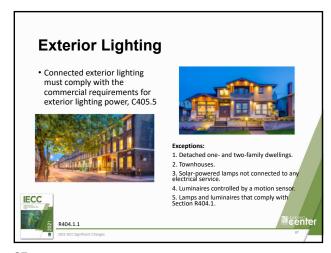
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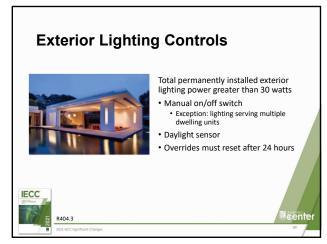




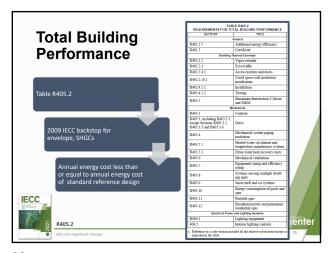
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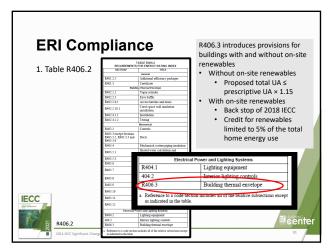


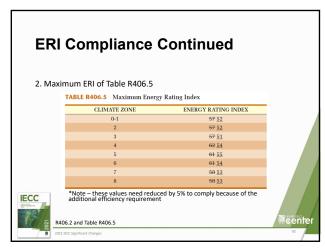




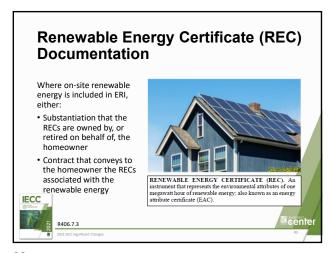
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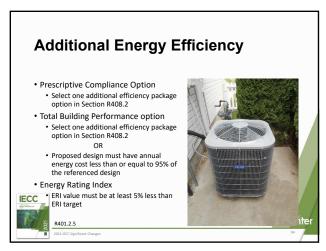


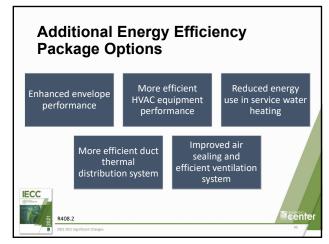




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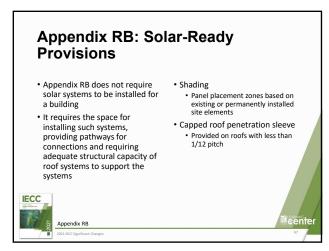


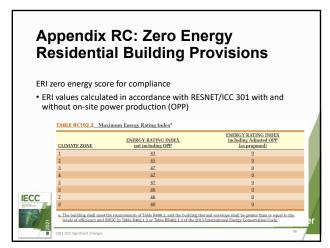




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