

May 2023









This page intentionally blank

Table of Contents	
AIA Information Course Description & Objectives	1
Welcome About Energy Code Ace	3
Energy Code Basics 2022 Energy Code Schedule Energy Code Compliance Overview of Nonresidential Forms Ace Tools: The Virtual Compliance Assistant Climate Zones Important Definitions Important Organizations Check Your Understanding	
Opaque Features Important Definitions Prescriptive Requirements Roof New Construction: Cool Roof New Construction: Insulation Alteration: Low-Sloped Roofing Product Alteration: Low-Slowed Roof Insulation	17
Wall New Construction: Insulation Alteration: Insulation Check Your Understanding	
Air Barrier New Construction & Additions Alterations	
Fenestration & Doors Prescriptive Requirements Fenestration Types Fenestration Efficiency Measures New Construction: Nonresidential Architectural Window.	

-

New Construction: Multifamily	. 32
Fenestration Area	. 33
Alteration: Nonresidential	. 33
Opaque Exterior Doors	34
Check Your Understanding	

Next Steps

Next Steps	57
VCA & the NRCI/LMCI	
Walk-Through Example: Window Alteration	
Other Training	
Fact Sheets	
Reference Ace	

Contact Information & Evaluation

45

27

LEGAL NOTICE

This program is funded by California utility customers and administered by Pacific Gas and Electric Company (PG&E), San Diego Gas & Electric Company (SDG&E®), and Southern California Edison Company (SCE) under the auspices of the California Public Utilities Commission.

© 2017 – 2023 PG&E, SDG&E, and SCE. All rights reserved, except that this document may be used, copied, and distributed without modification. Neither PG&E, SDG&E, nor SCE — nor any of their employees makes any warranty, express or implied; or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any data, information, method, product, policy or process disclosed in this document; or represents that its use will not infringe any privately owned rights including, but not limited to patents, trademarks or copyrights. Images used in this document are intended for illustrative purposes only. Any reference or appearance herein to any specific commercial products, processes or services by trade name, trademark, manufacturer or otherwise does not constitute or imply its endorsement, recommendation or favoring.

ABOUT THE STATEWIDE CODES AND STANDARDS PROGRAM

The Statewide Codes and Standards Program (C&S Program) is jointly managed by PG&E, SDG&E, and SCE. The C&S Program saves energy on behalf of ratepayers by directly influencing standards and code-setting bodies to strengthen energy efficiency regulations, by improving compliance with existing codes and standards, and working with local governments to develop ordinances that exceed statewide minimum requirements.

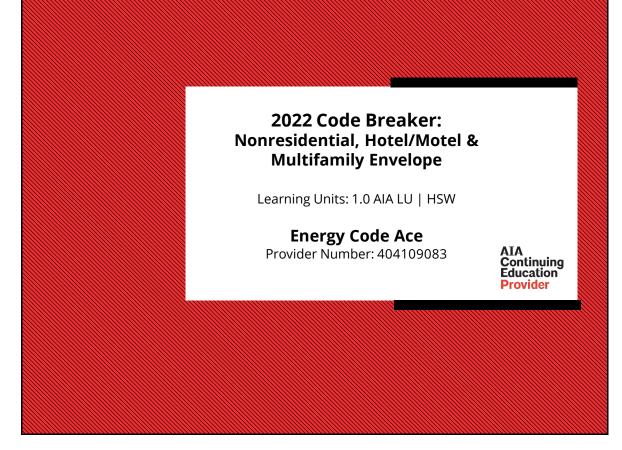
This class is one of many free courses, tools, and resources that the C&S Program offers. Please visit <u>http://energycodeace.com/</u> or contact <u>info@energycodeace.com</u> to find out more about all program offerings.







AIA Information



Course Description

The 2022 Energy Code (Title 24, Part 6) requirements for Nonresidential, Hotel/Motel and Multifamily envelope features, including roofing products and insulation, wall, raised floor, fenestration, and solid door for all scopes of work (new construction, additions and alterations), have been revised. We will review these requirements in addition to how the Energy Code has been reorganized to support Multifamily buildings.

Course Objectives

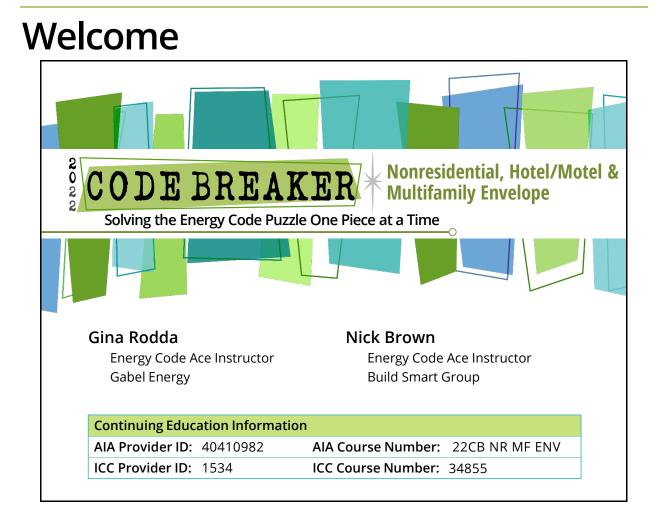
- Determine which section(s) of the 2022 Energy Code apply to Nonresidential, Hotel/Motel and Multifamily buildings
- Discuss the envelope (roof, walls, floors, fenestration, solid doors) requirements under the 2022 Energy Code for both Nonresidential, Hotel/Motel and Multifamily buildings
- Recognize how the Energy Code requirements for newly built spaces differs from the requirements for altered spaces
- Discover where and how to document compliance with the Certificate of Compliance (NRCC), Certificate of Installation (NRCI) and Certificate of Acceptance (NRCA)
 AIA Continuing

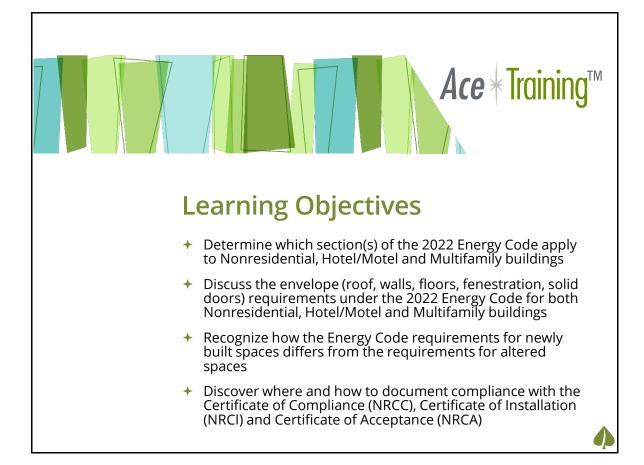
Credit(s) earned on completion of this course will be reported to AIA CES for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request. This course is registered with AIA CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

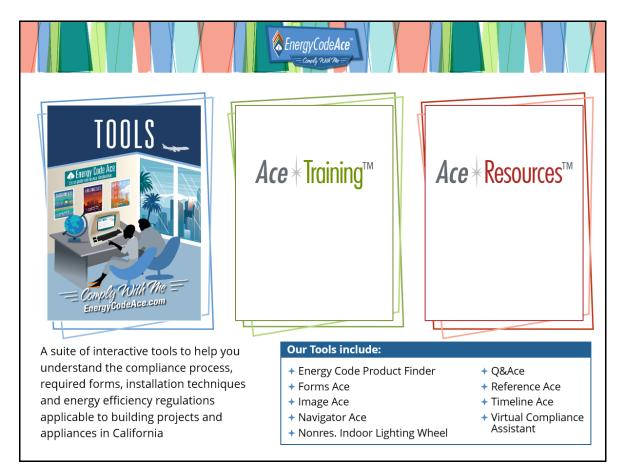
Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



Education Provider





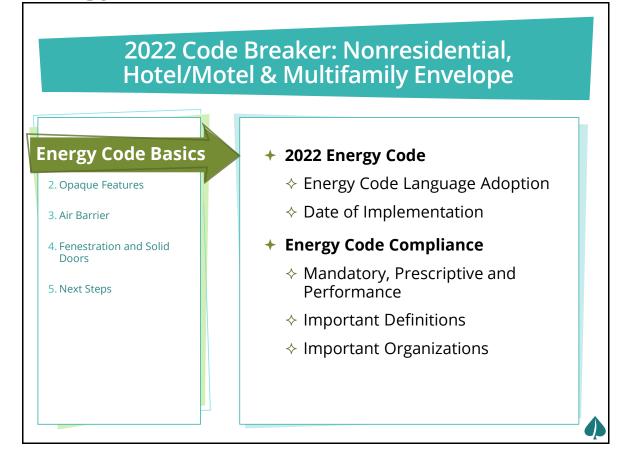


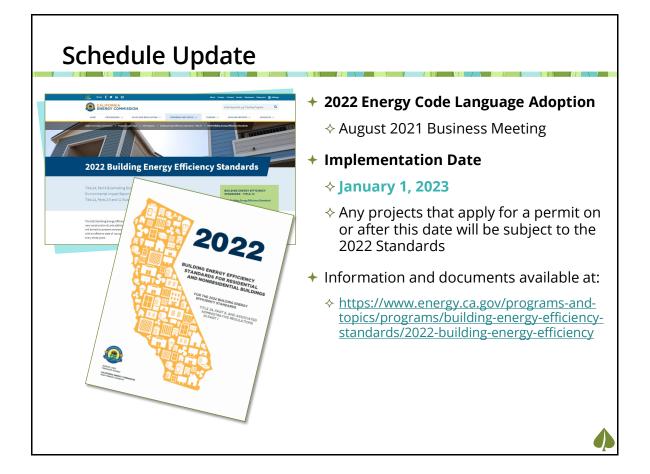


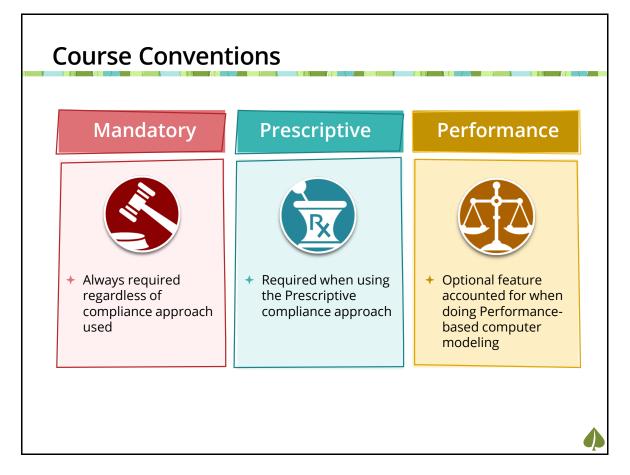


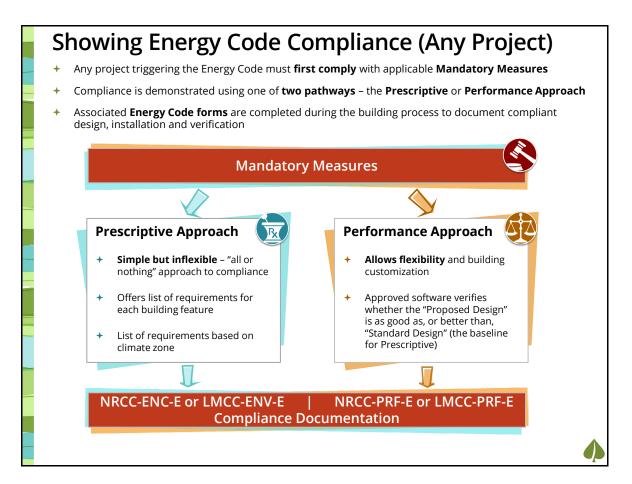


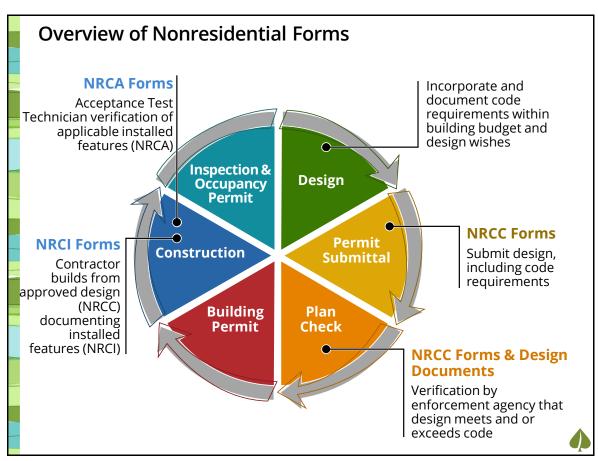
Energy Code Basics

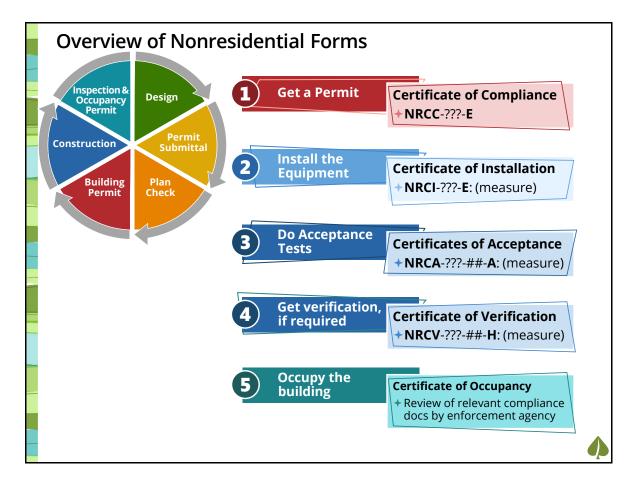


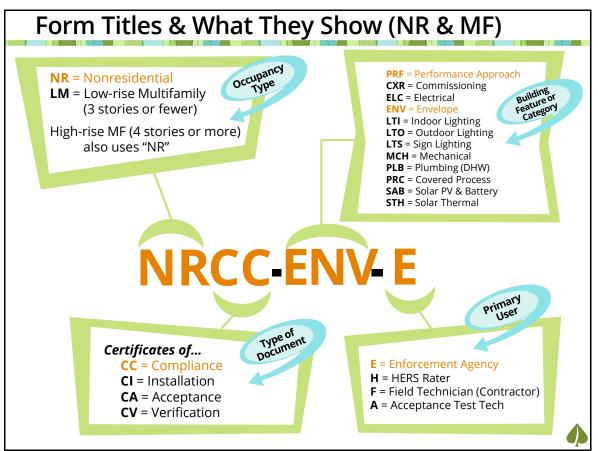


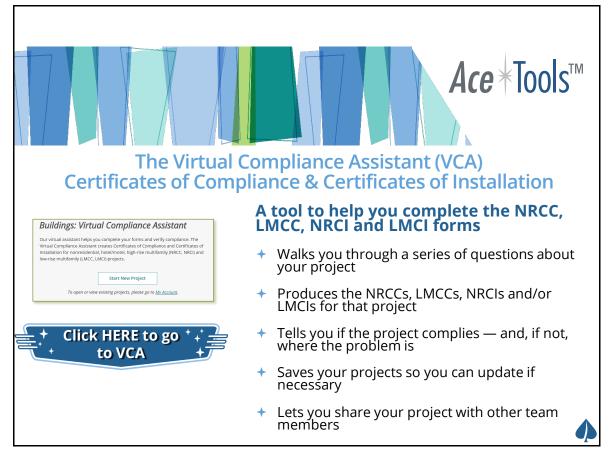




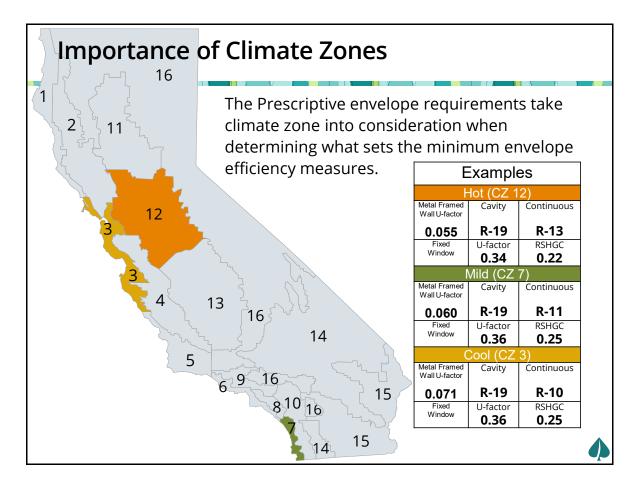








Try the Virtual Compliance Assistant here: <u>https://energycodeace.com/content/project-tool</u>



<section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item>

Important Definitions



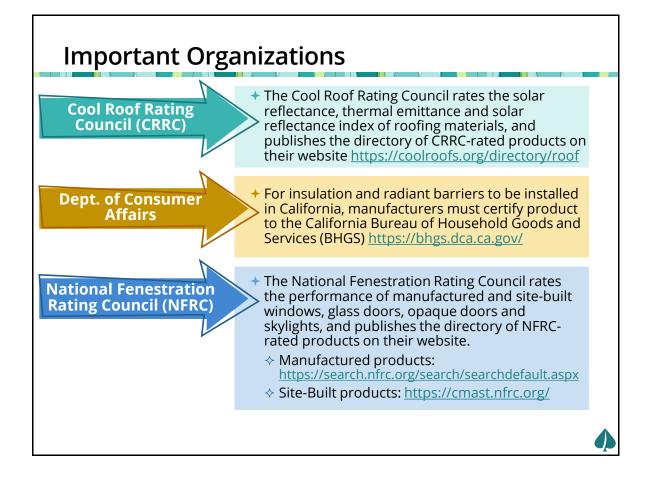
§100.1

- + DEMISING PARTITION is a wall, fenestration, floor, or ceiling that separates conditioned space from enclosed unconditioned space or a controlled environment horticulture space.
- **EXTERIOR PARTITION** is an opaque, translucent, or transparent solid barrier that separates conditioned space from ambient air or space.

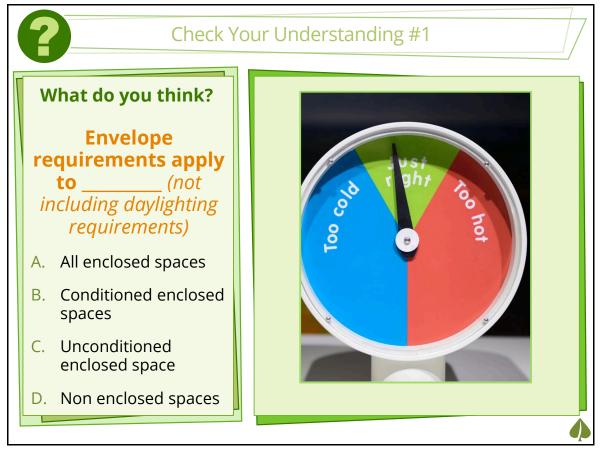
Important [Definitions
New Construction Addition & Alteration	Repair
Will require compliance to the Energy Code for applicable envelope features	Will <i>not require</i> compliance to the Energy Code

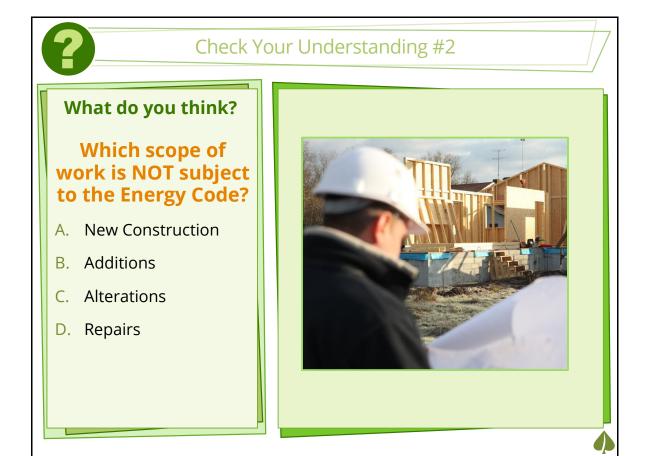
§100.1

- ADDITION is any change to a building that increases conditioned floor area and conditioned volume. See also "newly conditioned space." Addition is also any change that increases the floor area and volume of an unconditioned building of an occupancy group or type regulated by Part 6. Addition is also any change that increases the illuminated area of an outdoor lighting application regulated by Part 6.
- + **REPAIRS** shall not increase the preexisting energy consumption of the repaired component, system, or equipment.

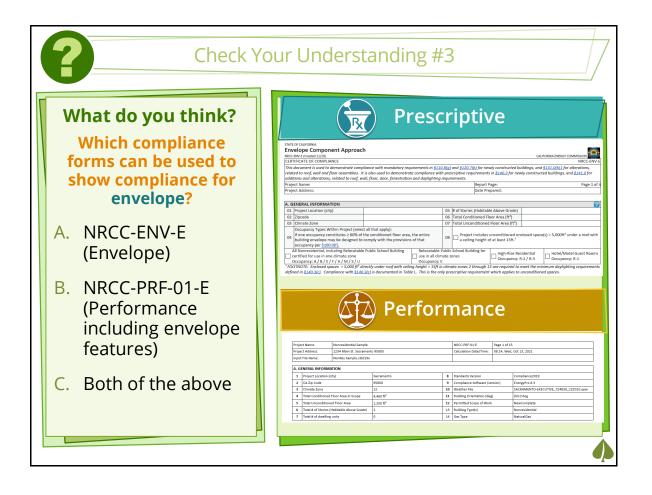


Check Your Understanding



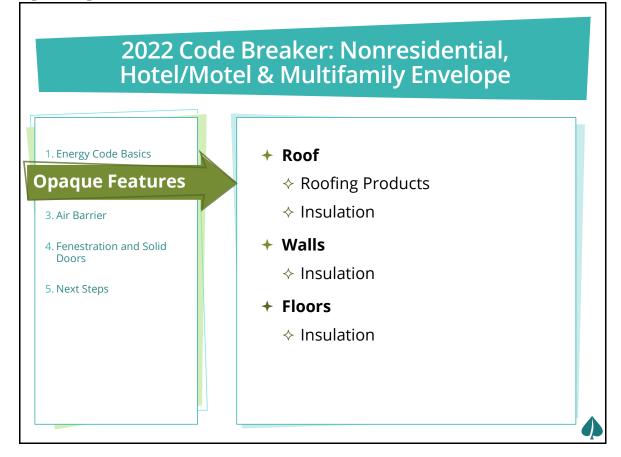


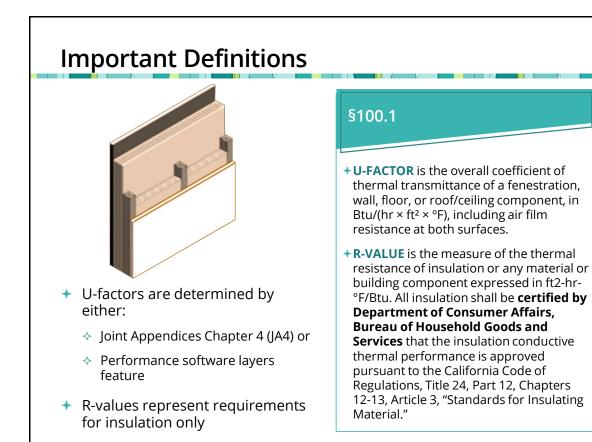
2022 Code Breaker: Nonresidential, Hotel/Motel & Multifamily Envelope

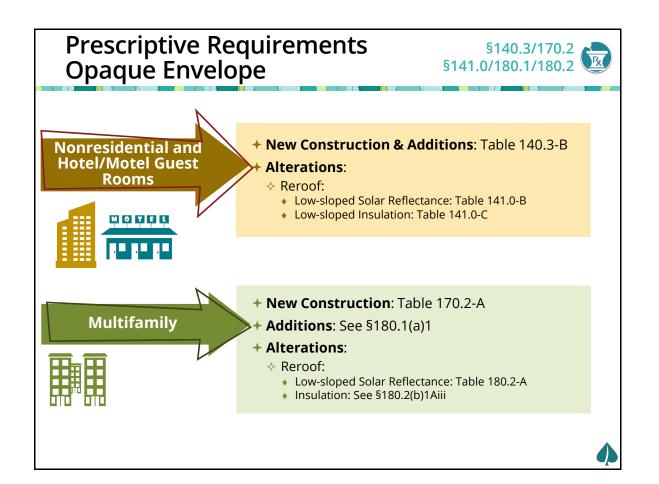


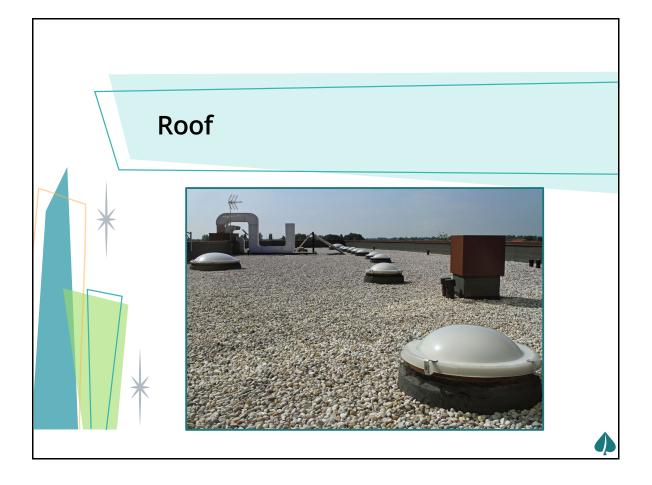
This page intentionally blank

Opaque Features









2022 Nonresidential Envelope Fact Sheet



EnergyCodeAce

Constraints of the second second

Roof Recoat is not defined in the Energy Code, but typical industry use of "recoat" is when a new layer is applied to the outer surface of the existing roofing material and the existing roofing material is not being replaced and recovered. (See definitions below.)

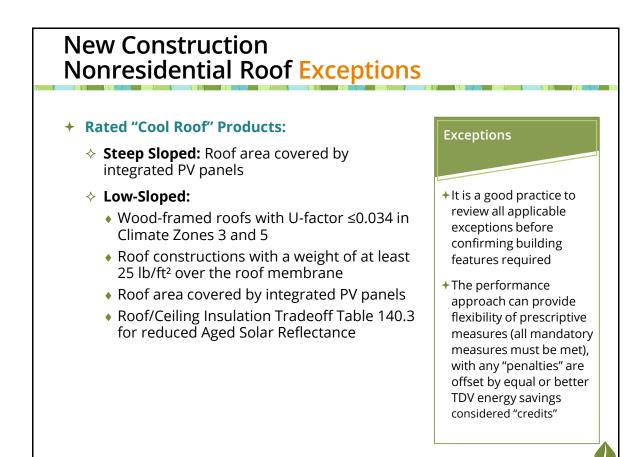
Roof Recover is the process of installing an additional roof covering over a prepared existing roof covering without removing the existing roof covering.

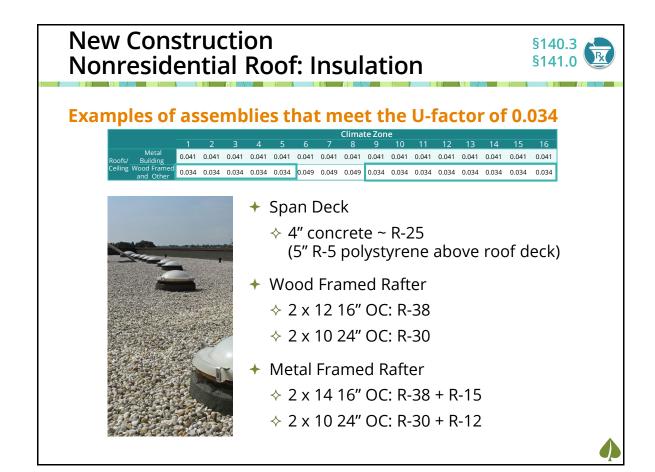
Roof Recover Board is a rigid type board, installed directly below a low-sloped roof membrane, with or without above deck thermal insulation, to: (a) improve a roof system's compressive strength, (b) physically separate the roof membrane from the thermal insulation, or (c) physically separate a new roof covering from an underlying roof membrane as part of a roof overlay project.

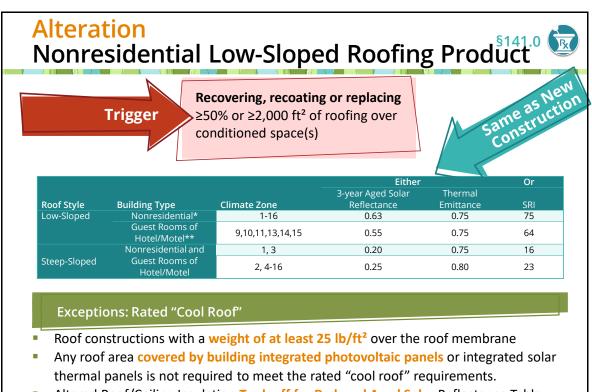
Roof Replacement is the process of removing the existing roof covering, repairing any damaged substrate and installing a new roof covering.



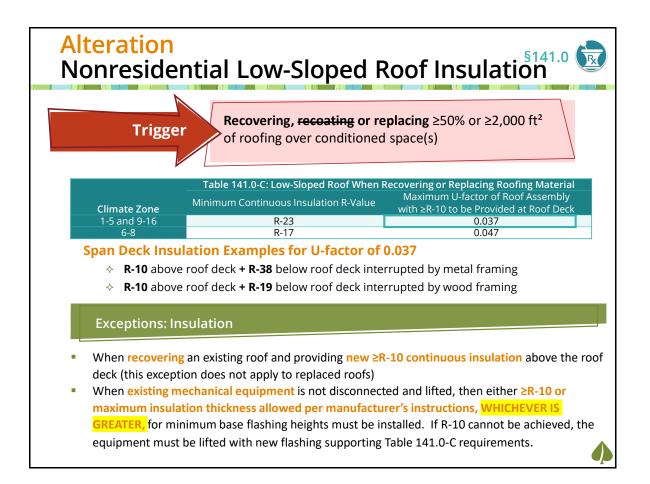
New Construction §140.3/170.2 Roof: Rated "Cool Roof" Product **Examples of Products that meet Aged Solar Reflectance 0.63** Fither Or 3-year Aged Solar Thermal Reflectan SRI Roof Style **Building Type Climate Zone** Emittance Nonresidential* Low-Sloped 0.63 0.75 1-16 75 Guest Rooms of 9,10,11,13,14,15 0.55 0.75 64 Hotel/Motel** Nonresidential and 16 1, 3 0.20 0.75 Steep-Sloped Guest Rooms of 2.4-16 0.25 0.80 23 Hotel/Motel Rated Roof Products SOLAR RE BRAND AND MODE PRODUCT TYPE Duro-Eleece Plus White Single-Plv Bright White Topps Products TS Commercial WB Bright White 0.86 0.67 Coating 0.71 Coating Bright White 0.88 Partial List 0.73 Bright White 0.86 Over ~900 certified products 0.69

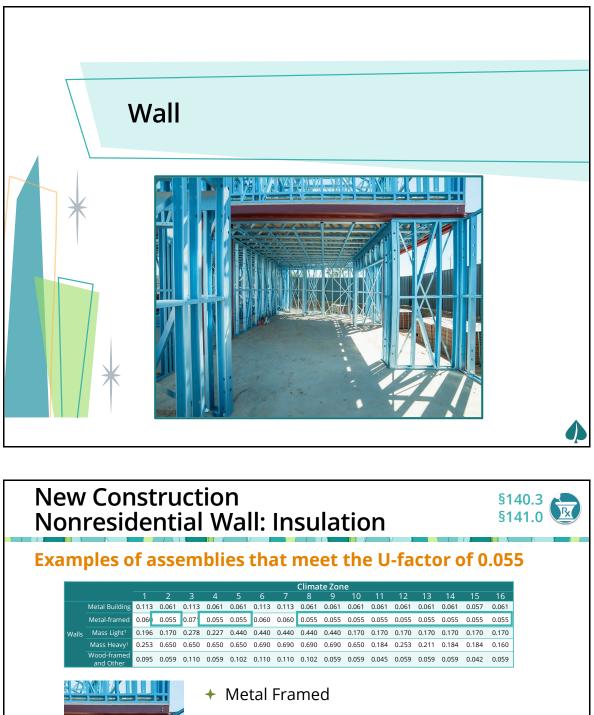






 Altered Roof/Ceiling Insulation Tradeoff for Reduced Aged Solar Reflectance Table 141.0-B

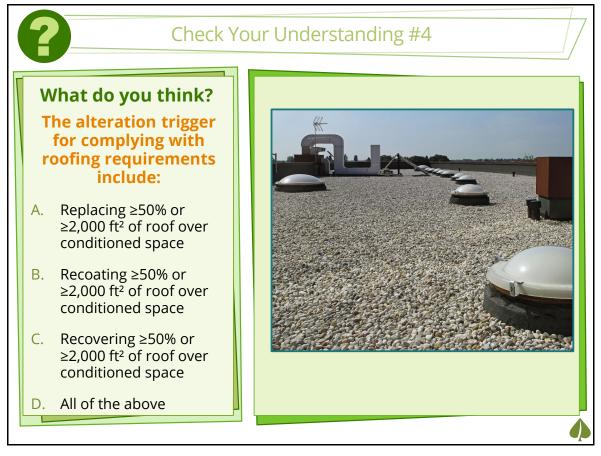


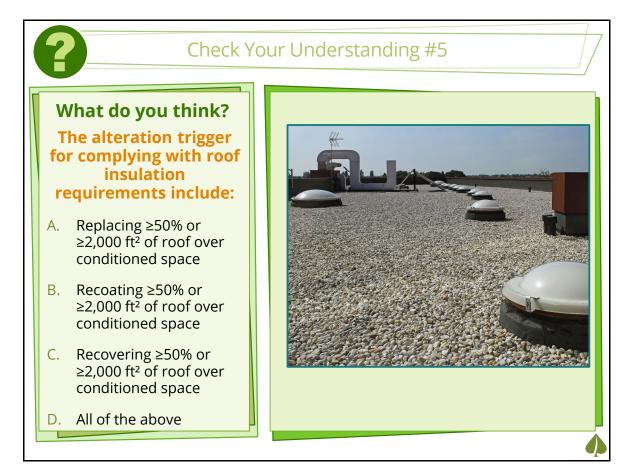


Note: Z-clips will be considered metal framing if spaced 24" OC or less and will increase the wall U-factor

Alteration Nonresidential	Wall Insulati	§141.0											
rigger		nade accessible , or rebuilding n (and type) as a replaced wall											
Altered Walls													
Wall Type	Minimum Cavity Insulation R-Value	Maximum U-factor											
Metal Building	R-13	0.113											
Metal Framed	R-13	0.217											
Spandrel Panels/Glass Curtain Walls	R-4	0.280											
Wood framed and all others not listed*	R-11	0.110											
Demising Walls for all Building Types Wood Framed	See U-factor	0.099											
Metal Framed		0.151											
•	 Metal Framed \$ 2 x 4 16" OC: F \$ 2 x 6 16" OC: F 	R-19 + R-2											
		R-19 + 2 layer 5/8" gypboard s of the wall (fire rated wall)											

Check Your Understanding

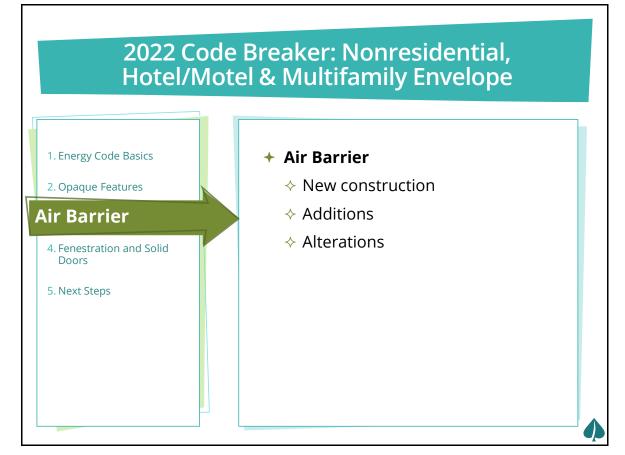


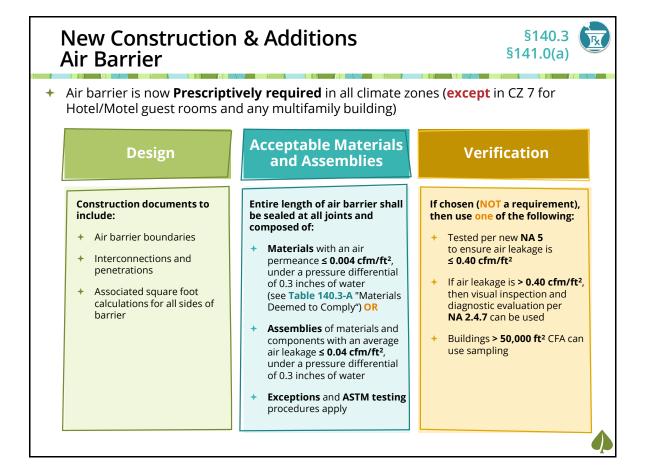


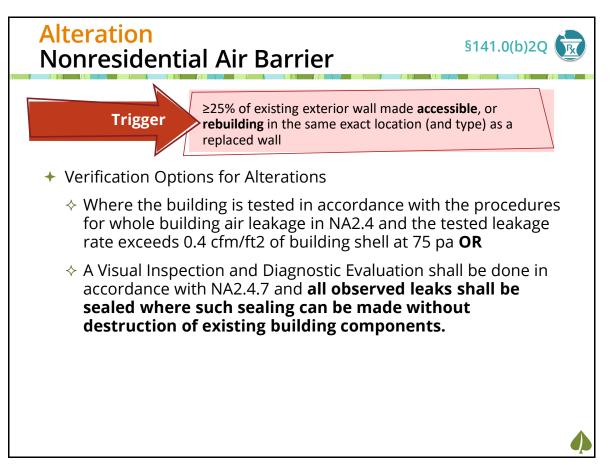
2022 Code Breaker: Nonresidential, Hotel/Motel & Multifamily Envelope

This page intentionally blank

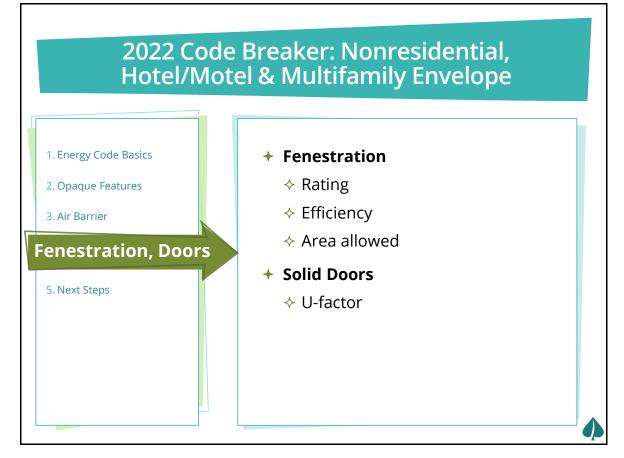
Air Barrier

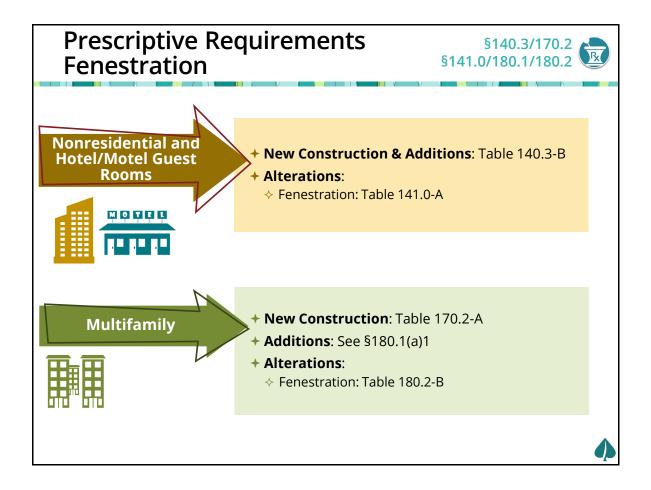


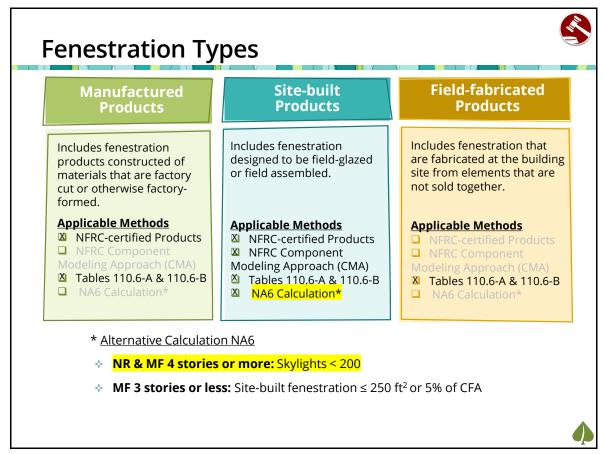


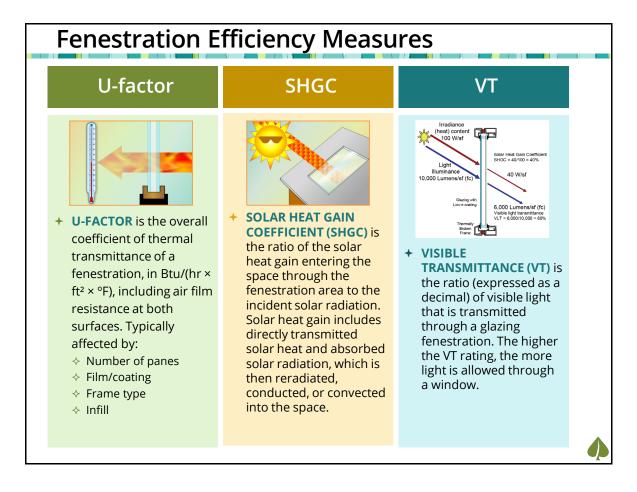


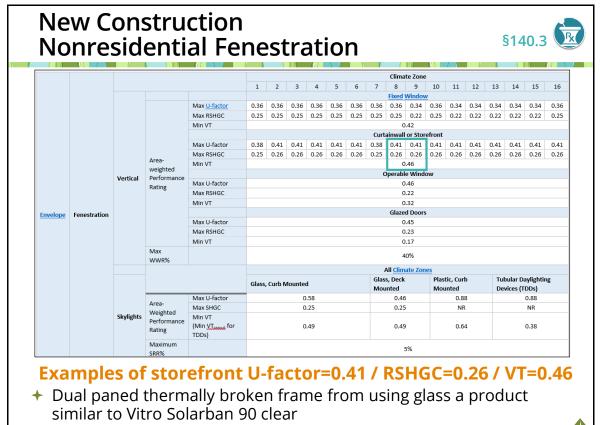
Fenestration & Doors











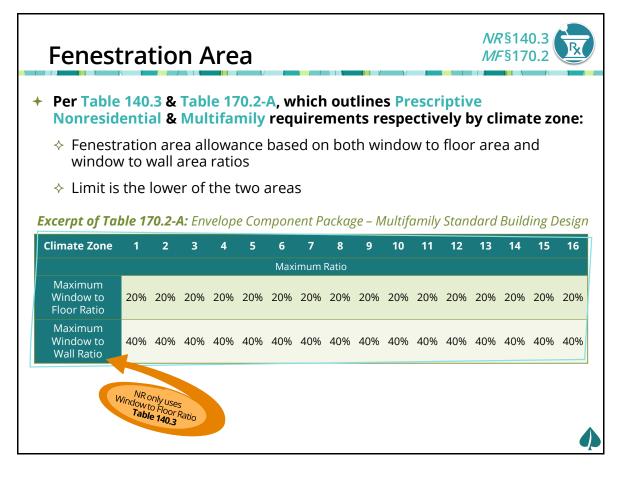
<section-header><section-header><section-header><image><image><image><image>

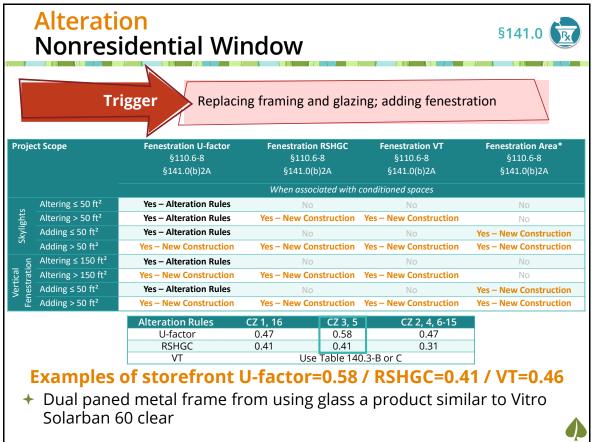
New Construction Multifamily Fenestration

Excerpt of Table 170.2-A: Envelope Component Package – Multifamily Standard Building Design

							/		0							0	<u> </u>
Multifamily		Climate Zone															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Maximum U-factor	0.38	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.38
- Curtain Wall/	Maximum RSHGC, three or less habitable stories	NR	0.26	NR	0.26	NR	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.26	NR
Storefront	Maximum RSHGC, four or more habitable stories	0.35	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.26	0.25
Product	Minimum VT, four or more habitable stories	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
	Maximum U-factor	0.38	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.38
NAF5 2017	Maximum RSHGC, three or less habitable stories	NR	0.24	NR	0.24	NR	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	NR
Perform- ance Class AW*	Maximum RSHGC, four or more habitable stories	0.35	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Floors	Minimum VT, four or more habitable stories	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
.ours	Maximum U-factor	0.30	0.30	0.30	0.30	0.30	0.30	0.34	0.34	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
All Other Fenestra- tion***	Maximum RSHGC, three or less habitable stories	NR	0.23	NR	0.23	NR	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	NR
-	Maximum RSHGC, four or more habitable stories	0.35	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
						,	*North A	merica	n Fenest	ration S	tandard	/Specific	ation fo	r an Aro	hitectur	al Wind	ow (AW)

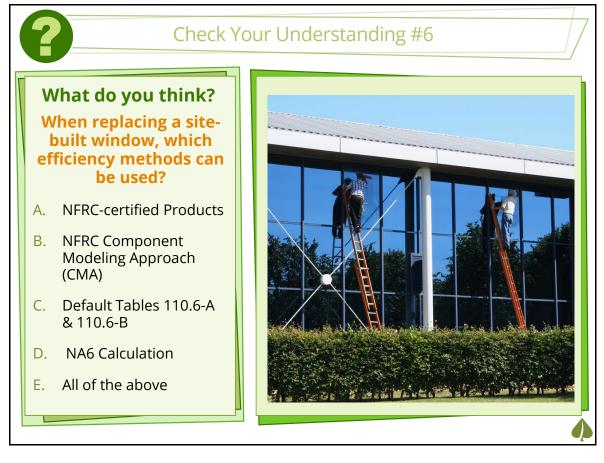
MF §170.2

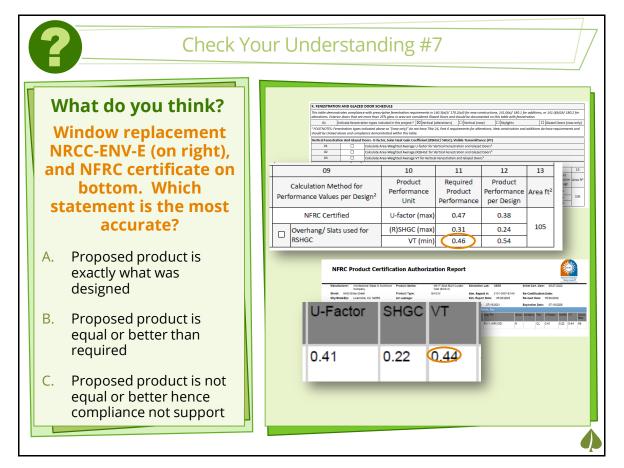




Opaqu	Opaque Exterior Doors											R _x				
xcerpt of Tab	le 17									-	-		dard	Build		
Climate Zone	1	2	3	4	5	6 Maxin	7	8 -factor	9	10	11	12	13	14	15	16
Dwelling Unit Entry	0.20	0.20	0.20	0.20						0.20	0.20	0.20	0.20	0.20	0.20	0.20
Common Use Area Entry Non-swinging	0.50	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	0.50
Common Use Area Entry Swinging Door type Ontron Use International Common Use Common Use Ufactors Common Use Ufactors									0.70							
D	oor ty	pe				comm arr	on use L ethe san able 140	J-facto ne for .3 (NR)								
 ♦ Type o ♦ For e ♦ Solic ♦ Meta 	exam I woo	nple: od de	entr oors	y do : U-fa	ors acto	are F r of (R-5 ir					-fact	or of	f 0.2(C	

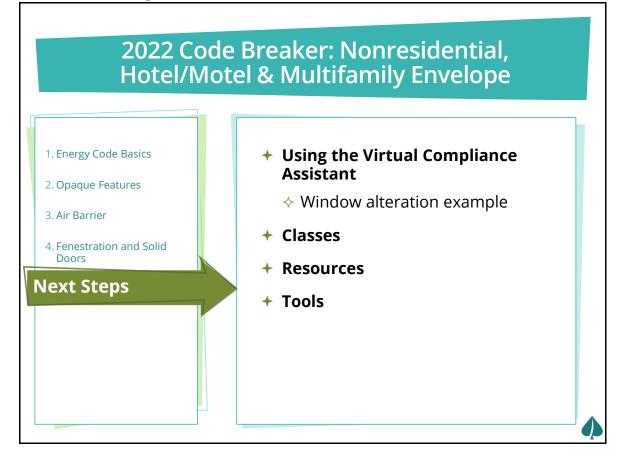
Check Your Understanding

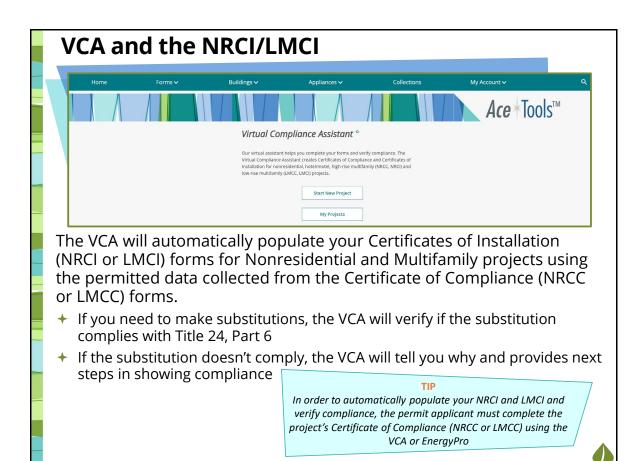


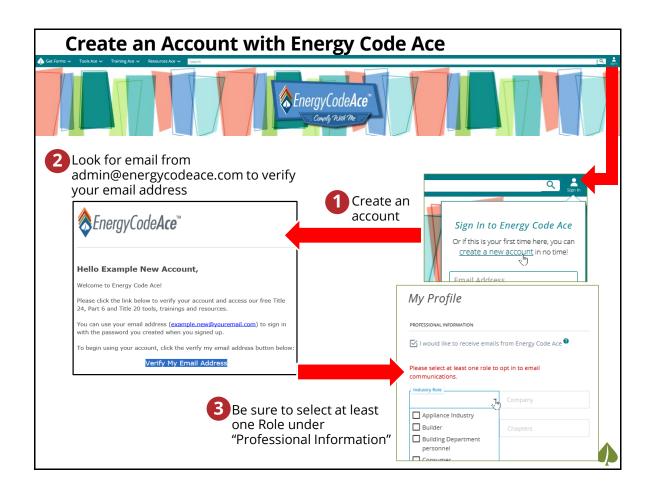


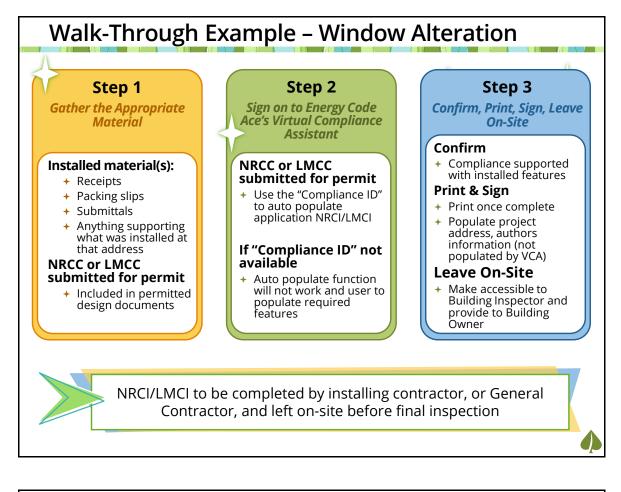
This page intentionally blank

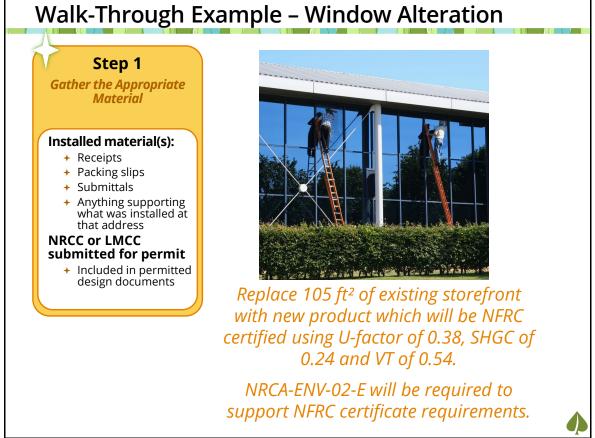
Next Steps

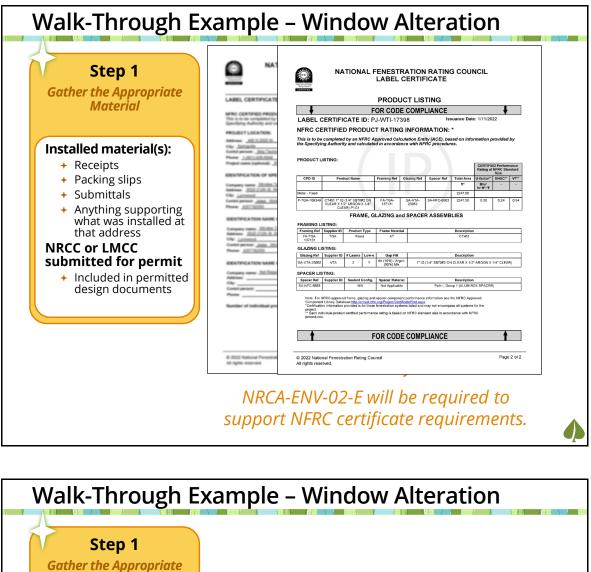












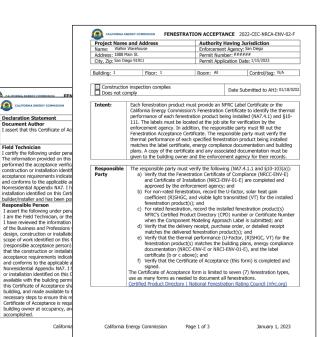
Installed material(s):

Material

- Receipts
- Packing slips
- + Submittals
- Anything supporting what was installed at that address

NRCC or LMCC submitted for permit

 Included in permitted design documents



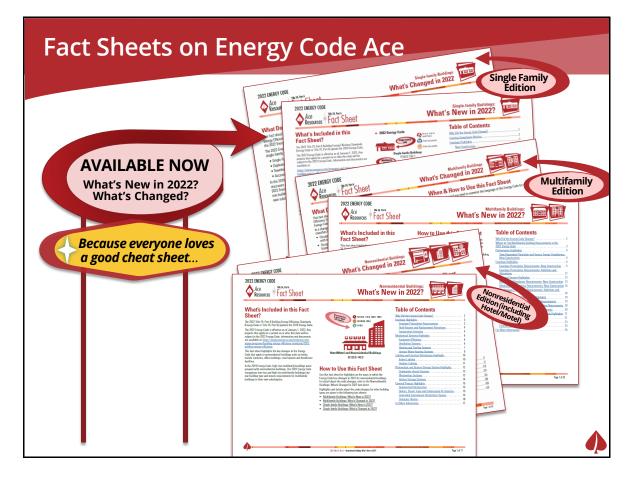
Walk-Through E	xample – Window Alteration
Step 1 Gather the Appropriate Material	Institut of OutForma Envelope Component Approach Control Approach Project Autors Project Autors Data Prepared. 2022 INC Video (Paper Tage: Project Autors) Data Prepared. 2022 INC Video (Paper Tage: Project Autors) Data Prepared.
Installed material(s): + Receipts + Packing slips	start or customas Constraints or customas Constraints or customas Constraints
 Submittals Anything supporting what was installed at that address 	A. GENERAL INFORMATION 01 project location (city) San Diego 05 # of Stories (Habitable Above Grade) 1 02 Zipcode 91911 06 Total Conditioned Floor Area (h ⁺) 5398 03 Gimate Zone 7 07 Total Unconditioned Floor Area (h ⁺) 5398 04 Company Types Within Project: (select all that appli) if one occupany of the conditioned floor area, the entire building entire on the disease of the conditioned encoused space(s) > 5,000 ft ² under a roof with a celling here may be designed to comply with the provision of that occupany of the location of the conditioned floor Area (h ²) Project includes unconditioned encosed space(s) > 5,000 ft ² under a roof with a celling here area (here (here area (here area (here area (here (here area (h
NRCC or LMCC submitted for permit + Included in permitted	per 100.01/f = unique to otherp interce portained or unicocounted programment of the cocounter of the cocou
design documents	B. PROJECT SCOPE By PROJECT SCOPE Project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3/170.2 and 141.0(a)/170.2 a
	□ Addition of conditioned space □ Walls □ Exterior Opaque Doors □ One or more mediced spaces > 5,000 ft ² directly under roof with ceiling height > 15th □ Roof □ Walls □ Exterior Opaque Doors □ Addition is ~700 ft ² □ Addition is ~700 ft ² □ Floors □ Fenestration/ Glazed Doors ¹ ☑ Addition of conditioned space □ Roof Assembly □ Walls Exterior Opaque Doors NA. for Alts.
	Che for more readicates spaces > 3.000 ff: directly under root with ceining heights 131 a Poors
	•

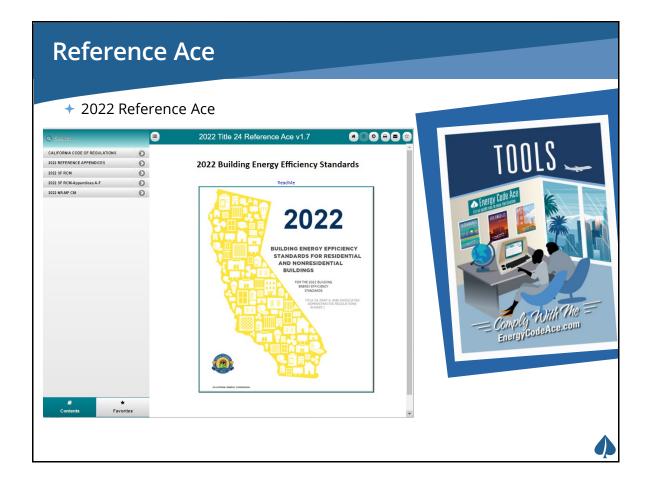
Walk-Through	Example	e – Winde	0	w A	Ite	ra	tio	n	
Step 2									
Sign on to Energy Code Ace's Virtual Compliance	STATE OF CALIFORNIA Envelope Component App CERTIFICATE OF COMPLIANCE	roach							CALIFORNIA ENERGY COMMISSION
Ace's Virtual Compliance Assistant	This document is used to demonstrate mixed-use buildings, and 141.0(b)1/ 1	e compliance with mondatory requirements 80.2 for alterations, related to roof, wall an , and 141.0/ 180.1/ 180.2 for additions and 2022	d floor altera	assemblies. It i	s also used to den roof, wall, floor, a e:	onstrate	compliance v	vith pre	hotel/ motel, multifamily and escriptive requirements in 140.3/
				baterrepe	i cui				2020 02 0112117100 00100
NRCC or LMCC	A. GENERAL INFORMATION 01 Project Location (city)	San Diego	05 4	t of Stories (Hal	oitable Above Gra	(a)		-	1
submitted for permit	02 Zipcode	91911			ed Floor Area (ft ²)				5398
+ Use the "Compliance ID"	03 Climate Zone	7			oned Floor Area (fl	2)			0
to auto populate application NRCI/LMCI	constitutes >= 80% of the condit	(select all that apply): If one occupancy oned floor area, the entire building nply with the provisions of that occupancy	08	Project incl height of at	udes uncondition : least 15 ft. ¹	d enclos	sed space(s) >	5,000 1	it ² under a roof with a ceiling
	Warehouse								
If "Compliance ID" not available	defined in 140.3(c)/ 170.2(b). Compli B. PROJECT SCOPE This table specifies project envelope of	(t ² directly under roof with ceiling height > nce with 140.3(c)/ 170.2(b) is documented in omponents within the permit application de	in Tabl	e L. This is the c	only prescriptive re	quireme	nt which appli	ies to u	nconditioned spaces.
Auto populate function	and 141.0(b)1 and 2/ 180.2 for additi My project	consists of (check all that apply)					Componer	nt Type	5
will not work and user to		01					02		
populate required	New Construction or Newly Con				Roof		Walls		Exterior Opaque Doors
	One or more enclosed spa Addition of conditioned space	ces > 5,000 ft ² directly under roof with ceilir	ng heig	ght > 15ft			Floors		Fenestration/ Glazed Doors ¹
features	One or more enclosed space	es > 5,000 ft ² directly under roof with ceiling	g heigh	it > 15ft	Roof		Walls		Exterior Opaque Doors
	Addition is <=700 ft ² Addition is >700 ft ²						Floors		Fenestration/ Glazed Doors ¹
	Alteration of conditioned space						Walls	Ext	erior Opaque Doors NA. for Alts.
	and lighting system installed	es > 5,000 ft ² directly under roof with ceiling I for the first time	; heigh	It > 15ft	Roofing Mc orial ²		Floors	⊠	Fenestration
	Registration Number:		Ger	nerated Date/Tirr	Ne:			Docur	nentation Software: Energy Code Ace
	CA Building Energy Efficiency Standards	2022 Nonresidential Compliance		oort Version: 202 ema Version: rev					Compliance ID: 77362-0123-0002

ID Type Method Assembly Area (tt) Certification Permitted NRCC?	Scope Vindox Summary	Forms 🗸	Buildings 🗸	A	Appliances 🗸	Collection
Vertical Fenestration, Skylights, and Glazed Doors Evaluate the Vertical Fenestration, Skylights, and Glazed Doors and indicate if installed features EXACTLY match the permitted NRCC. Installed Fenestration Calculation Fenestration Frame Type Ufactor SHGC VT NFRC Certification Permitted NRCC? Installed Fenestration Calculation Fenestration Frame Type Ufactor SHGC VT Certification Permitted NRCC? Installed Fenestration Calculation Fenestration Frame Type Ufactor SHGC VT Certification Permitted NRCC? Installed Fenestration Calculation Fenestration Frame Type Ufactor SHGC VT Certification Permitted NRCC? Installed Fenestration Calculation Fenestration Frame Type Ufactor SHGC VT Certification Permitted NRCC? Installed Fenestration Calculation Fenestration Frame Type Ufactor SHGC VT Certification Permitted NRCC? Installed Fenestration Installed Fenestration Assembly Area Certification Installed Fenestration Rating Council (NFRC) Certification ID #1	Vertical Fenestration, Skylights, and Glazed Doors Evaluate the Vertical Fenestration, Skylights, and Glazed Doors and indicate if installed features EXACTLY match the permitted NRCC. Tag/Plan Detail Fenestration Calculation Calculation Fenestration Assembly Area Control Stress NA Pepiaced Scorefront NFRC Certified 105 NA Assembly Area Control NFRC Certified 105 NA Assembly		Ware	house Job WIND	OWS	
Evaluate the Vertical Fenestration, Skylights, and Glazed Doors and indicate if installed features EXACTLY match the permitted NRCC. Tag/Plan Detail Fenestration Calculation Frame Type Ufactor SHGC VT NFRC Tag/Plan Detail Fenestration Calculation Frame Type Ufactor SHGC VT NFRC Permitted NRCC2 N 0.38 0.24 0.54 NA 0.38 0.24 0.54 VI Storefront NERC Certified 105 NA 0.38 0.24 0.54 V34234234 Please enter the revised installation details below. National Fenestration Rating Council (NFRC) Certification ID #1	Evaluate the Vertical Fenestration, Skylights, and Glazed Doors and indicate if installed features EXACTLY match the permitted NRCC. Tag/Plan Detail Fenestration Calculation Restands Area of the Assembly Area (t) Frame Type Urfactor SHGC VT NFRC Certification Permitted NRCC? VD Replaced Storefront Storefront NFRC Certified 105 NA 0.38 0.24 0.54 NA Image: VFS ON ON ON TO IN SCOPE Ar-Built Storefront NFRC Certified 105 NA 0.38 0.24 0.54 NA Image: VFS ON ON TO IN SCOPE Ar-Built Storefront NFRC Certified 105 NA 0.38 0.24 0.54 234234234 VE Please enter the revised installation details below. National Fenestration Rating Council (NFRC) Certification ID #1 Mational Fenestration Rating Council (NFRC) Certification ID #1		Scope	Windows	Summary	
Evaluate the Vertical Fenestration, Skylights, and Glazed Doors and indicate if installed features EXACTLY match the permitted NRCC. Tag/Plan Detail Fenestration Calculation Fenestration Frame Type Ufactor SHGC VT NFRC Permitted NRCC? 10 Type Method Assembly Area Frame Type Ufactor SHGC VT NFRC Permitted NRCC? Replaced Storefront NFRC Certified 105 NA 0.38 0.24 0.54 NA Image: Storefront NFRC Certified 105 NA 0.38 0.24 0.54 234234234 Image: Storefront NFRC Certified 105 NA 0.38 0.24 0.54 234234234 Image: Storefront NFRC Certified 105 NA 0.38 0.24 0.54 234234234 Image: Storefront Please enter the revised installation details below. National Fenestration Rating Council (NFRC) Certification ID #1	Evaluate the Vertical Fenestration, Skylights, and Glazed Doors and Indicate if installed features EXACTLY match the permitted NRCC. Tag/Plan Detail Fenestration Calculation Calculation Fenestration Network of the the termitted NRCC Permitted NRCC (the termitted NRCC) of the termitted NRCC entities of the termitted NRCC of the termitted NRCC entities of the termitted NRCC of the termitted NRCC of the termitted NRCC of the termitted NRCC entities of t	Vertical Fenestr	ation, Skylights, and G	lazed Doors		
Tag/Plan Detail Fenestration Type Calculation Method Fenestration Assembly Area (t) Frame Type U-factor SHGC VT NFRC Certification Installed Exactly as Permitted NRCC	Tag/Plan Detail Fenestration Type Calculation Method Fenestration Assembly Area (t) Frame Type U factor SHGC VT NFRC Certification Installed Exactly as Permitted NRCC Image: Storefront Storefront NFRC Certified 105 NA 0.38 0.24 0.54 NA Image: Storefront VT VT VT VT Permitted NRCC Ar-Built Storefront NFRC Certified 105 NA 0.38 0.24 0.54 NA Image: Storefront VT VT VT VT VT Permitted NRCC Ar-Built Storefront NFRC Certified 105 NA 0.38 0.24 0.54 234234234 VT Please enter the revised installation details below. National Fenestration Rating Council (NFRC) Certification ID #1 VT				features EXACTLY match	the permitted NRCC
ID Type Method Assembly Area Certification Permitted NRC? Replaced Scorefront Scorefront NFRC Certified 105 NA 0.38 0.24 0.54 NA 9/E5 0/0 0/	ID Type Method Assembly Area (rt) Certification Permitted NRC? Replaced Storefront Ar-Built Storefront NFRC Certified 105 NA 0.38 0.24 0.54 NA 0.38 0.24 0.54 NA 0.38 0.24 0.54 NA 0.38 0.24 0.54 234234234 Please enter the revised installation details below. National Fenestration Rating Council (NFRC) Certification ID #1					
Replaced Storefront NFRC Certified 105 NA 0.38 0.24 0.54 NA Image: Certified	Replaced Storefront NFRC Certified 105 NA 0.38 0.24 0.54 NA 0.54 NA 0.50 ONO ONO		Method Assembly Area	rame Type U-factor	SHGC VT	
Please enter the revised installation details below. National Fenestration Rating Council (NFRC) Certification ID #1	Please enter the revised installation details below. National Fenestration Rating Council (NFRC) Certification ID #1			NA 0.38	0.24 0.54	O NO
National Fenestration Rating Council (NFRC) Certification ID #1	National Fenestration Rating Council (NFRC) Certification ID #1	Storefront				
-	-	As-Built Storefron			0.24 0.54	
234234234	234234234	As-Built Storefron			0.24 0.54	
		As-Built Storefron Ple	ase enter the revised installation det	tails below.		
		As-Built Storefron Ple Na	case enter the revised installation det tional Fenestration Rating Council (I	tails below.		
		As-Built Storefron Ple Na	case enter the revised installation det tional Fenestration Rating Council (I	tails below.		
Image: Second	🕒 in 🔮	As-Built Storefron Ple Na	case enter the revised installation det tional Fenestration Rating Council (I	tails below.	1	
Image: Contract of the second seco	E III. Ø	As-Built Storefron Ple Na	case enter the revised installation det tional Fenestration Rating Council (I	tails below.	1	

Walk-Through Step 3 Confirm, Print, Sign, Leave On-Site Confirm	Statt or Cultroma Excelone Component Approach State or Cultroma Envelope Component Approach State or Cultroma Envelope Component Approach ErtreFroatEinstalLation Project Address: Van	ehouse Job WINDOWS Report Page: Date Prepared:	CALEODINA ENERGY COMMISSION CALEODINA ENERGY COMMISSION CALIFORNIA ENERGY COMMISS INCLEIV (Page 3) 2023-01-1370-27
 Compliance supported with installed features 	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	accurate and complete.	
 Print & Sign Print once complete Populate project address, authors information (not populated by VCA) Leave On-Site Make accessible to Building Inspector and provide to Building 	 The energy features and performance specification, materials, componen of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this C plans and specifications submitted to the enforcement apents for approv 1 will ensure that a completed signed coay of this Certificate of Compliance. 	rect. pt responsibility for the building design or system design identified on this d ts, and manufactured devices for the building design or system design ident retificate of Compliance are consistent with the information provided on oth	Certificate of Compliance (responsible designer) Election on this certificate of Compliance conform to the require ner applicable compliance documents, worksheets, calculation and made woalable to the enforcement acquery of all applicable
Öwner	Registration Number:	Generated Date/Time:	Documentation Software: Energy Code



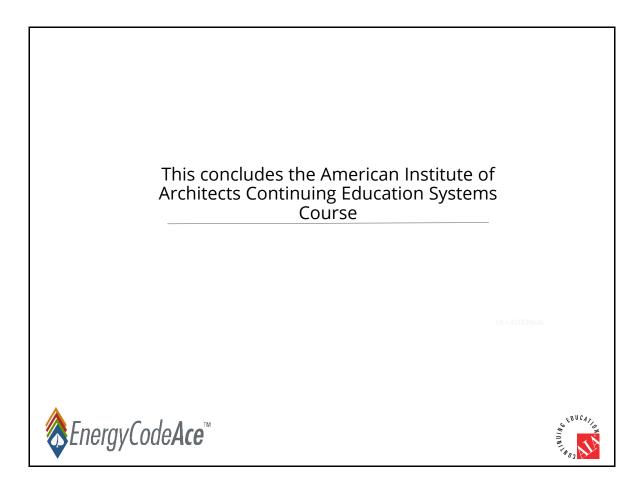




			ation & Evalua EnergyCodeAce [®]	ation
ſ		se feel free to reach o	nank you ut to us with your questions and cor	
	Contact	Role	Email	Phone
	Gina Rodda	Instructor	Decoding.request@energycodeace.com	
	Dave Intner	Senior Advisor Building Electrification & Codes and Standards	Dave.Intner@sce.com	(626) 995-7431
	Jill Marver	Energy Code Ace Program Manager	Jill.Marver@PGE.com	(925) 415-6844
	Energy Code Ace	Multiple	http://energycodeace.com/content/conta	<u>ct</u>
	Our Surv	ey Monkey wants	Course Evaluation to hear from you! 2022cb-nr-hm-mf-envelope	

Please complete our course evaluation: <u>https://www.surveymonkey.com/r/2022cb-nr-hm-</u> <u>mf-envelope</u>





This page intentionally blank