

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with mandatory requirements in §110.8(g) and §120.7(b)/§160.1 for newly constructed nonresidential, hotel/motel, multifamily and mixed-use buildings, and §141.0(b)1/§180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in §140.3/§170.2 for newly constructed buildings, and §141.0/§180.1/§180.2 for additions and alterations, related to roof, wall, floor, door, fenestration, and daylighting requirements.

Projec	t Name:			Eı	nforcement	t Agency	' :			
Dwelli	ing Address:	Permit Number:								
City ar	nd Zip Code:	Permit Application Date:								
A. GEN	ERAL INFORMATION									
01	Project Location (city)			05	# of Storie	es (Habita	able Ab	ove Grad	de)	
02	Zipcode			06	Total Con	ditioned	Floor <i>A</i>	Area (ft²)		
03	Climate Zone			07	Total Unc	ondition	ed Floc	r Area (f	t²)	
04	1	>= 8	select all that apply): 0% of the conditioned floor area, ed to comply with the provisions o			08		space(s) > 5,0	es unconditioned enclosed 00ft ² under a roof with a ceiling ast 15ft. ¹
	Office		Retail		Warehouse	e			Gro	ocery
□ н	lotel/ Motel		School or Classroom		Healthcare	facility			Fina	ancial Institution
□ н	ligh-Rise Residential	Relocatable Public School		All Other C	ccupanc	у Туре	s 🗆	Unl	eased Tenant Space	
□ A	uditorium	Library	☐ Restaurant				Par	king Garage		
□ с	onvention Center	Medical Office Bldg/ Clinic		☐ Theater ☐ Reli			igious Facility			
□ с	ommercial Industrial		Data Center		Gymnasiur	n			Sup	pport Area

¹ FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c)/§170.2(b). Compliance with §140.3(c)/§170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in §140.3/§170.2, and §141.0(a)1/§180.1 and §141.0(b)1 and 2/§180.2 for additions and alterations.

	My project consists of (check all that apply):			Compoi	nent Types
	01				02
New	Construction or Newly Conditioned Space		□Wa	alls	☐ Exterior Opaque Doors
	One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft	☐ Roof	□ Flo	oors	☐ Fenestration/ Glazed Doors ¹
Add	ition of conditioned space		l □ wa	alle	☐ Exterior Opaque Doors
	Addition is <= 700 ft ²		l □ w	3115	Exterior Opaque Doors
	Addition is > 700 ft ²	☐ Roof			
	One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft		□ Flo	oors	☐ Fenestration/ Glazed Doors¹
Alte	ration of conditioned space	☐ Roof Assem	nbly	☐ Walls	Exterior Opaque Doors NA for Alts.
	One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐ Roofing Ma	aterial ²	☐ Floors	☐ Fenestration

¹ FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on Table K with fenestration.

² Roof recovers and replacements must also check the "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable Table referenced below.

	Opaque Enve	lope Componen	ts		Fenestration	Daylighting	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors	renestration	Spaces > 5,000ft ²	Compliance Results
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES - COMPLIES
YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	COMPLIES or COMPLIES with Exceptional Conditions or DOES NOT COMPLY

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
E. ADDITIONAL REMARKS
This table includes remarks made by the installer to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive roof assembly requirements in §140.3(a)1B/§170.2(a)1B for new construction, §141.0(a)/§180.1 for additions and §141.0(b)2Biii/§180.2 for alterations.

Framed Roof Assemblies

01			Include F	ramed Roof Ass	emblies in Are	ea-Weighted Av	erage U-factor	· Calculation ¹			
02			03		04			05			06
Tag/Plan Detail ID		Name/I	Description	Status			Exception to Roof Insulation Requirements in §141.0(b)2Biii (Alts. Only)			Occupancy Type	
07		08	09	10	11	12	13	14	15		16
Tag/Plan Detail ID	U-fa	v Design ector was ermined	Roof Type & Frame Material	Frame Spacing & Depth	Cavity Insulation per Design ²	Continuous Insulation per Design ²	Thermal Performanc e Unit	Required Thermal Performance ³	U-factor pe	r Design	Net Area ⁴ (ft²)
									per Software/ Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

² For alterations using U-factor as the Thermal Performance Unit, at least R-10 insulation must be above deck.

³ If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.

⁴ Roof area minus any fenestration/ skylight area.

Structural Insulated Panels (SIPs) Roof/Ceiling Assemblies

01			Include SIPs Ro	oof ass	emblie	es in Area-Weight	ted Average U-f	actor Calculation ¹	L			
02) -		03			04			05		06	
Tag/Plan [Detail ID		Name/Description		Status			Exception to Ro §141		Occupancy Type		
07	07 08 09			1	0	11	12	13	14	15		16
Tag/Plan Detail ID	How Desi U-factor v determin	vas	ras Framing		nel (ness n.)	Core Insulation per Design ²	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance ³	U-factor Pe	r Design	Net Area ⁴ (ft²)
deterr										per Software/ Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

² For alterations using U-factor as the Thermal Performance Unit, at least R-10 insulation must be above deck.

³ If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.

⁴ Roof area minus any fenestration/ skylight area.

Span Deck & Concrete Roof Assemblies

01		Include S	pan Deck & Con	ncrete Roof assemblie	es in Area-Wei	ghted Average U-	factor Calculation ¹						
02	0	3		04		05							
Tag/Plan Detail ID	Name/De	escription	,	Status	Exception to	Exception to Roof Insulation Requirements in §141.0(b)2Biii (Alts. Only)							
07	0	8	09	10	11	12	13	14		15			
Tag/Plan Detail ID	How De factor deterr	r was	Fireproofing	Concrete Topping Thickness (in)	Continuous Insulation per Design ²	Thermal Performance Unit	Required Thermal Performance ³	U-factor per Des	ign	Net Area ⁴ (ft ²)			
								per JA4					
								per Software/					
								Other					

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

² For alterations using U-factor as the Thermal Performance Unit, at least R-10 insulation must be above deck.

³ If "R-value" is shown in cell 12 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.

⁴ Roof area minus any fenestration/ skylight area.

Metal Panel Assemblies

01		Include Metal Panel	Roof asse	emblie	es in Area-Weighte	d Ave	rage U-factor Calc	ulation¹		
02		03		04					06	
Tag/Plan D	etail ID	Name/Description	on		Status		·	oof Insulation Require 1.0(b)2Biii (Alts. Only)	ements in	Occupancy Type
07		08	09)	10	11		12		13
Tag/Plan D	etail ID	How Design U- Panel factor was Thickness determined (in)		ness	Thermal Performance Unit	Performance Requir		U-factor per D	esign	Net Area ² (ft ²)
								per JA4		
								per Software/		
								Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

² Roof area minus any fenestration/ skylight area.

Metal Building Roof Assemblies

01		Calcu	late Area-Weight	ed Average U	-factor for Meta	l Building Roof¹					
02	03		04			05		06			
Tag/Plan Detail ID	Name/Description Status			S	•	oof Insulation Red .0(b)2Biii (Alts. O	•	Occupancy Type			
07	07 08 09 10				11	12	13	14		15	
Tag/Plan Detail ID	factor wa	factor was determined Insulation		Cavity Insulation per Design ²	Continuous Insulation per Design ²	Thermal Performance Unit	Required Thermal Performand	U-factor p	er	Net Area ⁴ (ft²)	
							per JA4				
							per				
								Software/			
								Other			

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

² For alterations using U-factor as the Thermal Performance Unit, at least R-10 insulation must be above deck.

³ If "R-value" is shown in cell 12 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.

⁴ Roof area minus any fenestration/ skylight area.

Multifamily Framed Roof Assemblies

New construction multifamily occupancies with attic roofs may choose between U-factor or R-value to demonstrate compliance with Table 170.2-A or Section 180.2(b)1 for alterations. New construction non-attic roofs must comply with U-factors per Table 170.2-A.

01		Include Framed Roc	of Assemblies in A	Area-Weighted Averag	e U-factor Calculation ¹	
02		03	04	05	06	07
Tag/Plan Deta	il ID	Name/Description	Status	Roof Type ²	Exception to Roof Insulation Requirements in §180.2(b)1 (Alts. Only)	Compliance Unit

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. The area-weighted compliance option is not available for assemblies demonstrating compliance with R-value requirements.

Assemblies Using U-factor as Compliance Unit

08	09	10	11	12	13	14	15	16	17
Tag/Plan Detail ID	How Design U- factor was determined	Frame Material	Frame Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design	Net Area ³ (ft ²)
								per JA4	
								per Software/ Other	

³ Roof area minus any fenestration/ skylight area.

Assemblies Using R-value as Compliance Unit

18	19	20	21		22
Tag/Plan Detail ID	Radiant Barrier Req?	Thermal Performance Unit	Minimum R-val	ue Required³	R-value per Design
			Below Roof Deck ⁴		
			At Ceiling		

³ When R-value is used for low-sloped roof alterations, the value shown here is for continuous insulation per §180.2(b)1Aiii.

² Option B: insulation installed between the roof rafters in contact with the roof deck and an additional layer of ceiling insulation located between the attic and the conditioned space; Option C: ceiling insulation located between the attic and the conditioned space.

⁴ Install the specified R-value with an air space present between the roofing and the roof deck. Such as standard installation of concrete or clay tile.

R-values shown are for wood-frame construction with insulation installed between the framing members. Alternatives including insulation above rafters or above roof deck shall comply with the performance standards.

G. RATED ROOFING MATERIAL (COOL ROOF)

This table demonstrates compliance with prescriptive roof material requirements in \$140.3(a)1A/\$170.2(a)1A for new construction, \$141.0(a)/\$180.1 for additions and \$141.0(b)2B/\$180.2 for alterations.

Roof recovers and replacements must also document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

01	02	03	04	05	06	07	08	09	10
Tag/Plan Detail ID	Name/ Description / Location	Status	Occupancy Type	Roof Slope	Roof Material	Compliance Method	Required Minimum Material Performance	Designed Material Performance	U-factor/ R- value of Assembly
							Reflectance	Reflectance ¹	
							Emittance	Emittance	
							SRI	SRI	

¹ FOOTNOTE: If Solar Reflectance (Initial) is indicated in column 07, enter the Initial Reflectance here and the form will convert it to a "Calculated Aged Solar Reflectance" when determining compliance.

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in \$140.3(a)/\$170.2(a) for new construction, \$141.0(a)/\$180.1 for additions and \$141.0(b)1B/\$180.2 for alterations.

01	Indicate wall types included in the	☐ Framed	☐ Mass (new only)	☐ Concrete Sandwich Panel (new only)	□ SIPs	☐ ICF (new only)
01	project:1	☐ Metal	☐ Metal	☐ Spandrel/ Curtain	☐ Straw Bale	☐ Log Home (new
		Panel	Building	Wall		only)

¹ FOOTNOTE: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.



Framed Walls

01		Calculate Area	-Weighted	Average U-fac	ctor for Metal	Framed Walls ¹								
02		Include Wood	Framed Wa	lls in Area-W	eighted Avera	ge U-factor Cal	lculation ¹							
03	04	05	06 07 08 09 10 11 12 13											
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location / Fire Rating	Material, Insulation Insulation Performance Thermal Design Ar										
									per JA4					
			per Software / Other											

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other wall types. Wood framed walls are combined with SIPs, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

² If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per §141.0(b)1B.

³ Wall area minus any fenestration area.

Mass Walls (new walls only)

01		Calculate Area	a-Weighted	Average U	-factor for N	lass Walls ¹					
02	03	04	05	06	07	08	09	10	11		12
	How Design Occupancy U-factor Mass Informatio				tion	Additional Inform		Maximum			
Tag/Plan Detail ID	Occupancy Type	U-factor was determined	Mass Material	Fill Options	Thickness (in)	Frame Material & Thickness (in)	Cavity Insulation per Design	Maximum U-factor Allowed ²	U-factor per Design		Net Area ³ (ft ²)
									per JA4		
									per Software/		
									Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Mass walls are combined with concrete sandwich panel, log & ICF wall types. Mass walls must meet mandatory insulation requirements in §120.7(b), but may area-weight to comply with prescriptive requirements in Table 140.3 for new construction.

² Mass walls are defined as "light" or "heavy" depending on their Heat Capacity. Heat Capacity is determined in Tables 4.3.5 and 4.3.6 in Joint Appendix 4. Walls with Heat Capacity of 15 or greater are "heavy" while walls with Heat Capacity from 7 to less than 15 are "light". Walls with heat capacity less than 7 would be categorized as "Wood framed and Other" for compliance purposes.

³ Wall area minus any fenestration area.



Concrete Sandwich Panel Walls (new walls only)

01		Calculate Area	a-Weighted	Average U-facto	or for Concret	e Sandwich Pane	el Walls¹			
02	03	04	05	06	07	08	09	10	11	12
		How Design	Mass Ir	Mass Information Percent Steel Thickness Concrete Penetrates R-value Web Insulation?		Additional I Informa		Maximum		Not
Tag/Plan Detail ID	Occupancy Type	U-factor was determined	Concrete			Frame Material & Cavity Thickness (in) Cavity Insulation per Design		Maximum U-factor Allowed ²	U-factor per Design	Net Area ³ (ft²)
									per JA4	
									per Software/ Other	

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Concrete sandwich panels are combined with mass, log & ICF wall types. Concrete Sandwich Panel walls must meet mandatory insulation requirements in §120.7(b), but may area-weight to comply with prescriptive requirements in Table 140.3 for new construction.

² Concrete Sandwich Panel walls are defined as "heavy" since their Heat Capacity is 15 or greater as determined in Table 4.3.7 in Joint Appendix 4.

³ Wall area minus any fenestration area.

Structural Insulated Panels (SIPs) Walls

01		Include SIPs W	Valls in Area-We	eighted Avera	ge U-factor Ca	alculation ¹					
02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Wood Framing Connection Type (Spline)	Panel Thickness (in.)	Core Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performa nce ²	U-factor per Design		Net Area ³ (ft²)
									per JA4		
									Per		
									Software/		
									Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. SIP walls are combined with wood framed, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in §141.0(b)1B3.

² If "R-value" is shown in cell 09 as the Thermal Performance Unit, the R-value shown here is for core insulation per §141.0(b)1B3.

³ Wall area minus any fenestration area.

Spandrel & Curtain Walls

01		Include Spandre	el/ Curtain	Walls in A	Area-Weighte	ed Average U-fac	tor Calculation ¹			
02	03	04	05	06	07	08	09	10		11
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Type	Finish	Insulation R-value	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area² (ft²)
								per JA4		
								per Software/		
								Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Spandrel/ Curtain walls are combined with wood framed, SIPs, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in §141.0(b)1B4.

Metal Building Walls

01		Calculate Area	-Weighted Av	erage U-facto	or for Metal Bu	ıilding Walls ¹				
02	03	04	05	06	07	08	09	10		11
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Insulation System	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance ²	U-factor per Design		Net Area ³ (ft²)
								per JA4 per Software/ Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal Building walls may not be combined with other wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-value in §141.0(b)1B1.

² Wall area minus any fenestration area.

² If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per §141.0(b)1B1.

³ Wall area minus any fenestration area.

Metal Panel Walls

01		Include Metal Pa	nel Walls in Area-Weigl	nted Average U-fact	or Calculation ¹			
02	03	04	05	06	07	08		09
Tag/Plan Detail ID	Name/ Description	Occupancy & Status	How Design U-factor was determined	Panel Thickness (in.)	Maximum U-factor Allowed	U-factor per Design		Net Area ² (ft ²)
						per JA4		
						per Software/		
		Other						

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal Panel walls are combined with wood framed, spandrel & curtain, SIPs and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in §141.0(b)1B3.

Log Home Walls (new walls only

01		Calculate Area-\	Weighted Average	U-factor for Log H	ome Walls ¹						
02	03	04	05	05 06 07 08 09							
		How Dosign		Additional Insula	tion Information	Maximum					
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Log Diameter (in)	Frame Material & Thickness (in)	Cavity Insulation per Design	U-factor Allowed ²	U-factor per De	esign	Net Area ³ (ft²)		
							per JA4				
							per				
							Software				

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Log walls are combined with concrete sandwich panel, mass & ICF wall types. Log Home walls must meet mandatory insulation requirements in §120.7(b), but may area-weight to comply with prescriptive requirements in Table 140.3 for new construction.

² Wall area minus any fenestration area

² Log Home walls are defined as "wood framed and other" or "light" depending on their Heat Capacity. Heat Capacity is determined in Table 4.3.11 in Joint Appendix 4. Walls with Heat Capacity from 7 to less than 15 are "light". Walls with heat capacity less than 7 would be categorized as "Wood framed and Other" for compliance purposes.

³ Wall area minus any fenestration area

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Straw Bale Walls

01		Include Straw Bale	e Walls in Area-We	eighted Average U	J-factor Calculatio	on¹		
02	03	04	05	06	07	08	09	10
Tag/Plan Detail ID	Name/ Description	Occupancy & Status	How Design U- factor was determined	Insulation per Design	Thermal Performance Unit	Required Thermal Performance ²	U-factor per Desig	n Net Area ³ (ft ²)
							per JA4	
							per Software/	
							Other	

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Straw bale walls are combined with wood framed, spandrel & curtain, metal panel and SIPs wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in §141.0(b)1B3.

² If "R-value" is shown in cell 07 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per §141.0(b)1B3.

³ Wall area minus any fenestration area.

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Insulated Concrete Form Walls (new walls only)

01		Ca	lculate Area-\	Weighted Aver	age U-factor fo	r ICF Walls ¹				
02	03	04	05	06	07	08	09	10		11
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	ICF Type	Concrete Core Thickness (in)	Insulation Type	Insulation Thickness (in)	Maximum Allowed U- factor ²	U-factor per Design		Net Area ³ (ft²)
								per JA4		
								per Software/ Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. ICF walls are combined with concrete sandwich panel, log & mass wall types. ICF walls must meet mandatory insulation requirements in §120.7(b), but may area-weight to comply with prescriptive requirements in Table 140.3 for new construction.

I. FLOOR ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive floor assembly requirements in §140.3(a)4/§170.2(a)5 for new construction, §141.0(a)/§180.1 for additions or mandatory floor assembly requirements in §141.0(b)1C/§180.2 for alterations.

01	Indicate floor types included in the	□ Eramod	☐ SIPs (new	□ Paiced Mass	☐ Heated Slab-on-grade	☐ Slab-on-grade (New Low-rise
01	project: ¹	☐ Framed	only)	☐ Raised Mass	(new only)	MF only)

² ICF walls are defined as "light" or "heavy" depending on their Heat Capacity. Heat Capacity is determined in Table 4.3.13 in Joint Appendix 4. Walls with Heat Capacity of 15 or greater are "heavy" while walls with Heat Capacity from 7 to less than 15 are "light".

³ Wall area minus any fenestration area.

¹ FOOTNOTE: Floor types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above, and compliance demonstrated within this table.

Framed Floors

01		Include Frame	d Floors in Are	a-Weighted	Average L	J-factor Calcula	ation ¹			
02	03	04	05	06	07	08	09	10	11	12
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Crawlspace	Frame Material, Spacing & Depth	Cavity Insulati on per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance ²	U-factor per Design	Area (ft²)
									per JA4	
									per Software / Other	

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Framed floors are combined with SIPs floors. The area-weighted compliance option is not available for assemblies demonstrating compliance with R-values.

² If "R-value" is shown in cell 09 as the Thermal Performance Unit, the R-value shown here is for cavity insulation.

Structural Insulated Panels (SIPs) Floors (new floors only)

01		Include SIPs F	loors in Area-V	Veighted Aver	age U-factor	Calculation ¹					
02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Crawlspace	Wood Framing Connection Type (Spline)	Panel Thickness (in.)	Core Insulation per Design	Continuous Insulation per Design	Maximum U- factor Allowed	U-factor per Design		Area (ft²)
									per JA4		
									per		
									Software		
									/ Other		

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. SIPs floors are combined with Framed floors.

Raised Mass Floors

01		Calculate Are	lculate Area-Weighted Average U-factor for Raised Mass Floors ¹											
02	03	04	05	06	07	08	09	10	10					
Tag/Pla n Detail ID	Name/ Description	Occupancy & Status	How Design U-factor was determined	Insulation Location	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance ²	U-factor per Design		Area (ft²)				
								per JA4						
								per Software/						
								Other						

¹ FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Raised Mass floors may not be combined with other floor types. The area-weighted compliance option is not available for assemblies demonstrating compliance with R-values.

Heated Slab-on-Grade Floors (new floors only)

01	02	03	04	05	06	07	08
Tag/Plan Detail ID	Name/ Description	Insulation Location	Insulation Orientation	Min. R-value required	R-value per Design	Insulation Materials & Install	Location in Construction Documents
			Vertical		R-	Materials & install requirements	
			Horizontal		R-	meeting §110.8(g) have been included in the construction documents.	

² If "R-value" is shown in cell 08 as the Thermal Performance Unit, the R-value shown here is for continuous insulation.

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Low-rise Multifamily Slab-on-Grade Floors (new floors in Climate Zone 16 only)

01	02	03	04	05	06	07	08
Tag/Plan	Nama/	Insulation	Thermal	Required	Thermal		Location in
Detail ID	•	Location	Performance	Thermal	Performance per	Insulation Depth	Construction
Detail ID	Description	Location	Unit	Performance	Design		Documents
						The minimum depth of concrete	
						slab floor perimeter insulation	
						shall be 16 inches or the depth of	
						the footing of the building,	
						whichever is less.	

J. EXTERIOR DOOR SCHEDULE

This table demonstrates compliance with prescriptive exterior door requirements in §140.3(a)7/§170.2(a)4 for new construction or additions. Doors which are being replaced (alterations) do not need to be documented in this table because there are no Title 24, Part 6 requirements that apply. Exterior doors separate conditioned space from unconditioned space or from ambient air. Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on Table K with fenestration per Table B.

01	02	03	04	05	06		07
Tag/Plan Detail ID	Name/Description	Occupancy Type	Door Type	Door Insulation	Maximum Allowed U-factor		U-factor per Design
						per JA4	

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in §140.3(a)5/§170.2(a)3 for new construction, §141.0(a)/§180.1 for additions, or §141.0(b)2A/§180.2 for alterations. Exterior doors that are more than 25% glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in	☐ Vertical	☐ Vertical	☐ Multifamily Vertical/Glazed	□ Clouliabte	☐ Glazed Doors
01	the project:1	(alteration)	(new)	Door (new)	∐ Skylights	(new only)

Vertical Fenestration and Glazed Doors- Total Building & West Facing Area (New Construction & Additions Only)

	01	02		0	3	04	05	
Elevation Item Tag/ Description		Orientation (Azimuth) ¹		Wall	Exterior Area ² t ²)	Display Perimeter Length ² (ft)	Vertical Fenestration Area per Design ³ (ft ²)	
				_				
06	Maximum Allowed Verti			07	Total Vertical Fenestration (ft ²) p All Or	er Design- rientations		
08	Maximum Allowed Vertical Fenestration (ft²)- West Facing				09	Total Vertical Fenestration (ft²) per Design- West Facing		

¹ FOOTNOTE: Orientation between 226 deg and 315 deg are considered "West Facing". A diagram has been provided in the Nonresidential Compliance Manual for visual reference.

¹ FOOTNOTE: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

² Do not include demising walls per §140.3(a)5.

³ Includes glazed door fenestration area.

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Multifamily Exterior Vertical Fenestration and Glazed Doors- Total Building Area (New Construction & Additions Only)

	01	02	03	04		05	
Elevation Item Tag/ Description		Orientation (Azimuth) ¹	Gross Exterior Wall Area ² (ft²)	Multifamily Conditioned Floor Area (ft²)		Vertical Fenestration Area per Design ³ (ft²)	
06	06 Maximum Allowed Vertical Fenestration (ft²)- All Orientations			07	Total Vertical Fenestration (ft	t²) per Design- All Orientations	

¹ FOOTNOTE: Orientation between 226 deg and 315 deg are considered "West Facing". A diagram has been provided in the Nonresidential Compliance Manual for visual reference.

² Do not include demising walls per §170.2(a)3Ai.

³ Includes glazed door fenestration area but does not include fenestration in demising walls.



Vertical Fenestration and Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/SHGC), Visible Transmittance (VT)

01		Calculate Are	a-Weighted	Average U-fa	acto	r for Vertical Fe	nestration and	Glazed D	oors ¹				
02		Calculate Are	a-Weighted	Average (R)S	SHG	C for Vertical Fe	nestration and	Glazed D	oors ¹				
03		Calculate Are	a-Weighted	Average VT f	for V	/ertical Fenestra	ation and Glaze	d Doors¹					
04	05	06	07	08		09		10		11	12		13
Tag/Plan ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design ²			Produ Perform Unit	ance	Required Product Performance	Produ Performa per Des	ance	Area (ft²)
								U-factor	(max)				
								(R)SHGC	(max)				
					••	Overhang/Slats	used for RSHGC	VT	(min)				
	14	15)		1	L 6	17		18				19
					N	A6 Default Cal	culation						
Is the Wind	s the Window Projecting? ⁴ Frame Type		G	Glazing Type		Product Performance Co		Center of Glass (COG) Performance			Prod	duct Performance per NA6	
							U-factor						
								SHGC					
								VT					



21		21		1 22			24	25		25
§110.6 Default Tables										
Is the Window Projecting? ⁴		ecting? ⁴ Frame Type		pe	Glazing Tint	Product Performance per Default 110.6 Tables		ce per Default 110.6 Tables		
						U-factor				
						SHGC				
						VT				
27		28	29		30	3	1	32		
	Ove	rhang Details fo	r RSHGC per §140	0.3/§	170.2					
Overhang or Horizontal Slats?	Azimuth	of Fenestration (deg)	•		Spacing per Eq. 140.3-C/ 170.2-A	Projectio	n Factor	RSHGC		
	Is the Window Projecting	Is the Window Projecting? ⁴ 27 Ove	Is the Window Projecting? ⁴ Frame Type 27 28 Overhang Details fo Azimuth of Fenestration	\$110.6 Default Tables Is the Window Projecting? ⁴ Frame Type Glazing Type 27 28 29 Overhang Details for RSHGC per §14 Overhang or Horizontal Slats? Azimuth of Fenestration Projection per Education Projection Per	\$110.6 Default Tables Is the Window Projecting? ⁴ Frame Type Glazing Type 27 28 29 Overhang Details for RSHGC per §140.3/ § Azimuth of Fenestration Projection per Eq.	\$110.6 Default Tables Is the Window Projecting? ⁴ Frame Type Glazing Type Glazing Tint 27 28 29 30 Overhang Details for RSHGC per §140.3/ §170.2 Azimuth of Fenestration Projection per Eq. Spacing per Eq.	Sthe Window Projecting?4 Frame Type Glazing Type Glazing Tint Production	\$110.6 Default Tables Is the Window Projecting? Frame Type Glazing Type Glazing Type Glazing Tint U-factor SHGC VT 27 28 29 30 31 Overhang Details for RSHGC per §140.3/ §170.2 Projection per Eq. Spacing per Eq. Projection Factor		

Skylights-Total Area

	Multifamily adding up to 16ft2 of skylight per dwelling unit?					
01	02	03	04			
Bulding has Atria > 55ft?	Gross Exterior Roof Area (ft²)	Maximum Allowed Skylight Area ¹ (ft²)	Total Skylight Area per Design (ft²)			

¹ FOOTNOTE: 5% of total roof area allowed for areas other than atria > 55ft. 10% allowed for atria > 55ft.



Skylights- U-factor, Solar Heat Gain Coefficient (SHGC), Visible Transmittance (VT)

01		Calculate Area-V	Calculate Area-Weighted Average U-factor for Skylights ¹								
02		Calculate Area-V	alculate Area-Weighted Average SHGC for Skylights¹								
03		Calculate Area-V	lculate Area-Weighted Average VT for Skylights ¹								
04	05	06	07	08	09	10	0	11	12		
Tag/Pla n ID	Fenestration Type	Occupancy & Status	Calculation Method for Performance Values per Design ²	Glaze/ Diffuser with Haze Value > 90%?	Compliance Method for Multifamily Alterations	Product Performance Unit	Required Product Performance	Product Performance per Design	Area (ft²)		
						U-factor (max)					
						SHGC (max)					
						VT (min)					
	13 14			15				16			
				NA6 D	efault Calcul	ation					
	Frame Type		Product Performance Unit Center o			Center of Glass (COG) Product Performance			Product Performance per NA6		
			U-factor								
			SHGC								
			VT								
	17	18		19		20		2	21		
				§110.	6 Default Ta	bles					
Opera	Operable/Fixed Frame Type			Glazing Type	Glaz	ing Tint	Prod	uct Performance p	per Default 110.6 Tables		
							U-factor				
							SHGC				
							VT				



L. DAYLIGHT IN LARGE ENCLOSED SPACES

This table demonstrates compliance with prescriptive daylight zone requirements in §140.3(c)/§170.2(b) for new construction, additions, or alterations which install a new lighting system within climate zones 2-15. Enclosed spaces greater than 5,000ft2 and under a roof with at least a 15ft ceiling height must be included in the table.

01	Pla	n Sheet Sh	nowing Dayli	t Zones:							
02	03	04	05	06	07	08	09	10			11
Spac		Total	Skylit Daylit	Primary Sidelit	§140.3(c)1	nce with /§170.2(b)	Total Skylight	Compliance with §140.3(c)4/§170.2(b)			e Compliance with 3(c)4/§170.2(b)
e Na me	Compliance Method	Area of Space (ft ²)	Zone Area per Design (ft²)	Daylit Zone Area per Design ¹ (ft ²)	Required Minimum Daylit Area (ft²)	Daylit Area per Design (ft²)	Area per Design ² (ft ²)	Skylight Area to Skylit Daylit Zone Area Ratio ³ (%)	OR	Skylight Weighted Average VT ²	Skylight AreaxVT to Skylit Daylit Zone Area Ratio ⁴ (%)

¹ FOOTNOTE: Any area which falls within the Skylit Daylit Zone may not be double counted for the Primary Sidelit Daylit Zone.

² May be calculated by Table K Fenestration Schedule.

³ Must be at least 3% to comply with §140.3(c)4/§170.2(b).

⁴ Must be at least 1.5% to comply with §140.3(c)4/§170.2(b).

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Nonresidential, Hotel/Motel, and High-rise Multifamily and Multifamily Mixed-use Certificates of Installation

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

VEC	NO	Form/Title	Field Inspector	
1123	INO	Formy rice		
•	0	NRCI-ENV-E - Must be submitted for all buildings.		

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation to be added to Table D Exceptional Conditions. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1.

YES	NO	Form/Title	System to be Field Verified	Field Inspector		
YES	NO	Form/Title	System to be Field Verified	Pass	Fail	
•	0	NRCA-ENV-02-F - Must be submitted for all new, added or altered site-built fenestration.				
		NRCA-ENV-03-F - Daylighting design indoor lighting power adjustment factors (PAF). Note: The requirement for this NRCA is indicated on the NRCC-LTI (prescriptive) or NRCC-PRF (performance) because it is only relevant if a PAF is used for clerestories, daylight redirection devices or horizontal slats.				



DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

· · · · · · · · · · · · · · · · · · ·	
Documentation Author Name:	Documentation Author Signature:
Documentation Author Company Name:	Date Signed:
	-
Address:	CEA Certification Identification (If applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

- 2. I certify the following under penalty of perjury, under the laws of the State of California:
 - 1. The information provided on this Certificate of Compliance is true and correct.
 - 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 - 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 - 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 - 5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.

6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

provides to the same of the sa	promise to the daman of the state of the sta						
Responsible Designer Name:	Responsible Designer Signature:						
Company:	Date Signed:						
Address:	License:						
City/State/Zip:	Phone:						

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
Envelope Component Approach	(Page 1 of 16)

A. General Information

- 1. Enter the City the project is located in.
- 2. Enter the Zipcode.
- 3. Climate Zone: Select from dropdown.
- 4. Select the applicable Occupancy Types within the Project.
- 5. Enter the Number of Stories Above Grade.
- 6. Enter the Total Conditioned Floor Area.
- 7. Enter the Total Unconditioned Floor Area.
- 8. Check to Indicate if the project includes unconditioned enclosed spaces(s) greater than 5,000 square feet under a roof with a ceiling height of at least 15 ft.

B. Project Scope

- 1. Select the Scope of Work.
- 2. Select the Component Types included in the project.

C. Compliance Results

1. Results in this table are automatically calculated from data input and calculations in Tables F through L.

D. Exceptional Conditions

1. This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. Additional Remarks

1. Enter any notes or comments for the AHJ.

F. Roof Assembly Schedule

1. Select the roof types included in the project.

Framed Roof Assemblies

- 1. Check to include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description.
- 4. Status: Select from dropdown.
- 5. Exception to Roof Insulation Requirement: Select from dropdown.

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
Envelope Component Approach	(Page 2 of 16)

- 6. Occupancy Type: Select from dropdown.
- 7. This field is filled out automatically.
- 8. How Design U-factor was determined: Select from dropdown.
- 9. Roof Type & Frame Material: Select from dropdown or user input.
- 10. Frame Spacing & Depth: Select from dropdown or user input.
- 11. Cavity Insulation per Design: Select from dropdown or user input.
- 12. Continuous Insulation per Design: Select from dropdown or user input.
- 13. Thermal Performance Unit: Select from dropdown.
- 14. Required Thermal Performance: Select from dropdown.
- 15. U-factor per Design: Select from dropdown or user input.
- 16. Enter the Net Area.

Structural Insulated Panels (SIPs) Roof/Ceiling Assemblies

- 1. Check to include SIPs Roof Assemblies in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description
- 4. Status: Select from dropdown.
- 5. Exception to Roof Insulation Requirement: Select from dropdown.
- 6. Occupancy Type: Select from dropdown.
- 7. This field is filled out automatically.
- 8. How Design U-factor was determined: Select from dropdown.
- 9. Wood Framing Connection Type: Select from dropdown or user input.
- 10. Panel Thickness: Select from dropdown or user input.
- 11. Core Insulation per Design: Select from dropdown or user input.
- 12. Continuous Insulation per Design: Select from dropdown or user input.
- 13. Thermal Performance Unit: Select from dropdown.
- 14. Required Thermal Performance: Select from dropdown.
- 15. U-factor per Design: Select from dropdown or user input.
- 16. Enter the Net Area.

Span Deck & Concrete Roof Assemblies

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
Envelope Component Approach	(Page 3 of 16)

- 1. Check to include Span Deck & Concrete Roof Assemblies in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description.
- 4. Status: Select from dropdown.
- 5. Exception to Roof Insulation Requirement: Select from dropdown.
- 6. Occupancy Type: Select from dropdown.
- 7. This field is filled out automatically.
- 8. How Design U-factor was determined: Select from dropdown.
- 9. Fireproofing: Select from dropdown or user input.
- 10. Concrete Topping Thickness: Select from dropdown or user input.
- 11. Continuous Insulation per Design: Select from dropdown or user input.
- 12. Thermal Performance Unit: Select from dropdown.
- 13. Required Thermal Performance: Select from dropdown.
- 14. U-factor per Design: Select from dropdown or user input.
- 15. Enter the Net Area.

Metal Panel Assemblies

- 1. Check to include Metal Panel Roof Assemblies in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description
- 4. Status: Select from dropdown.
- 5. Exception to Roof Insulation Requirement: Select from dropdown.
- 6. Occupancy Type: Select from dropdown.
- 7. This field is filled out automatically.
- 8. How Design U-factor was determined: Select from dropdown.
- 9. Panel Thickness: Select from dropdown or user input.
- 10. Thermal Performance Unit: Select from dropdown.
- 11. Required Thermal Performance: Select from dropdown.
- 12. U-factor per Design: Select from dropdown or user input.
- 13. Enter the Net Area.

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
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Metal Building Roof Assemblies

- 1. Check to calculate Area-Weighted Average U-factor for Metal Building Roofs.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description.
- 4. Status: Select from dropdown.
- 5. Exception to Roof Insulation Requirement: Select from dropdown.
- 6. Occupancy Type: Select from dropdown.
- 7. This field is filled out automatically.
- 8. How Design U-factor was determined: Select from dropdown.
- 9. Insulation System: Select from dropdown or user input.
- 10. Cavity Insulation per Design: Select from dropdown or user input.
- 11. Continuous Insulation per Design: Select from dropdown or user input.
- 12. Thermal Performance Unit: Select from dropdown.
- 13. Required Thermal Performance: Select from dropdown.
- 14. U-factor per Design: Select from dropdown or user input.
- 15. Enter the Net Area.

Multifamily Framed Roof Assemblies

- 1. Check to include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description
- 4. Status: Select from dropdown.
- 5. Roof Type: Select from dropdown.
- 6. Exception to Roof Insulation Requirement: Select from dropdown.
- 7. Compliance Unit: Select from dropdown.

Assemblies Using U-factor as Compliance Unit

- 8. This field is filled out automatically.
- 9. How Design U-factor was determined: Select from dropdown.
- 10. Frame Material: Select from dropdown or user input.
- 11. Frame Spacing & Depth: Select from dropdown or user input.

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
Envelope Component Approach	(Page 5 of 16)

- 12. Cavity Insulation per Design: Select from dropdown or user input.
- 13. Continuous Insulation per Design: Select from dropdown or user input.
- 14. Thermal Performance Unit static text.
- 15. Required Thermal Performance: Select from dropdown.
- 16. U-factor per Design: Select from dropdown or user input.
- 17. Enter the Net Area.

Assemblies Using R-value as Compliance Unit

- 18. This field is filled out automatically.
- 19. This field is filled out automatically.
- 20. Thermal Performance Unit static text.
- 21. This field is filled out automatically.
- 22. Enter the R-value per Design.

G. Rated Roofing Material (Cool Roof)

- 1. Enter the Tag/Plan Detail ID.
- 2. Enter the Name/Description/Location.
- 3. Status: Select from dropdown.
- 4. Occupancy Type: Select from dropdown.
- 5. Roof Slope: Select from dropdown.
- 6. Roof Material: Select from dropdown.
- 7. Compliance Method: Select from dropdown.
- 8. This field is filled out automatically.
- 9. Enter the Designed Material Performance values.
- 10. U-factor/R-value of Assembly: Select from dropdown.

H. Wall Assembly Schedule

1. Select the wall types included in the project.

Framed Walls

- 1. Check to calculate Area-Weighted Average U-factor for Metal Framed Walls.
- 2. Check to include Wood Framed Walls in Area-Weighted Average U-factor Calculation.

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
Envelope Component Approach	(Page 6 of 16)

- 3. Enter the Tag/Plan Detail ID.
- 4. Occupancy & Status: Select from dropdown.
- 5. How Design U-factor was determined: Select from dropdown.
- 6. Location/Fire Rating: Select from dropdown.
- 7. Frame Material, Spacing & Depth: Select from dropdown.
- 8. Cavity Insulation per Design: Select from dropdown or user input.
- 9. Continuous Insulation per Design: Select from dropdown or user input.
- 10. Thermal Performance Unit: Select from dropdown.
- 11. This field is filled out automatically.
- 12. U-factor per Design: Select from dropdown or user input.
- 13. Enter the Net Area.

Mass Walls (new walls only)

- 1. Check to calculate Area-Weighted Average U-factor for Mass Walls.
- 2. Enter the Tag/Plan Detail ID.
- 3. Occupancy Type: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.
- 5. Mass Material: Select from dropdown.
- 6. Fill Options: Select from dropdown.
- 7. Thickness: Select from dropdown.
- 8. Frame Material & Thickness: Select from dropdown or user input.
- 9. Cavity Insulation per Design: Select from dropdown or user input.
- 10. This field is filled out automatically.
- 11. U-factor per Design: Select from dropdown or user input.
- 12. Enter the Net Area.

Concrete Sandwich Panel Walls (new walls only)

- 1. Check to calculate Area-Weighted Average U-factor for Concrete Sandwich Panel Walls.
- 2. Enter the Tag/Plan Detail ID.
- 3. Occupancy Type: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
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- 5. Percent Concrete Web: Select from dropdown.
- 6. Steel Penetrates Insulation: Select from dropdown.
- 7. Insulation Thickness/R-value: Select from dropdown.
- 8. Frame Material & Thickness: Select from dropdown or user input.
- 9. Cavity Insulation per Design: Select from dropdown or user input.
- 10. This field is filled out automatically.
- 11. U-factor per Design: Select from dropdown or user input.
- 12. Enter the Net Area.

Structural Insulated Panels (SIPs) Walls

- 1. Check to include SIPs Walls in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Occupancy & Status: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.
- 5. Wood Framing Connection Type: Select from dropdown or user input.
- 6. Panel Thickness: Select from dropdown or user input.
- 7. Core Insulation per Design: Select from dropdown or user input.
- 8. Continuous Insulation per Design: Select from dropdown or user input.
- 9. Thermal Performance Unit: Select from dropdown.
- 10. This field is filled out automatically.
- 11. U-factor per Design: Select from dropdown or user input.
- 12. Enter the Net Area.

Spandrel & Curtain Walls

- 1. Check to include Spandrel/Curtain Walls in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Occupancy & Status: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.
- 5. Type: Select from dropdown or user input.
- 6. Finish: Select from dropdown or user input.
- 7. Insulation R-value: Select from dropdown or user input.

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
Envelope Component Approach	(Page 8 of 16)

- 8. Thermal Performance Unit: Select from dropdown.
- 9. This field is filled out automatically.
- 10. U-factor per Design: Select from dropdown or user input.
- 11. Enter the Net Area.

Metal Building Walls

- 1. Check to calculate Area-Weighted Average U-factor for Concrete Sandwich Panel Walls.
- 2. Enter the Tag/Plan Detail ID.
- 3. Occupancy & Status: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.
- 5. Insulation System: Select from dropdown or user input.
- 6. Cavity Insulation per Design: Select from dropdown or user input.
- 7. Continuous Insulation per Design: Select from dropdown or user input.
- 8. Thermal Performance Unit: Select from dropdown.
- 9. This field is filled out automatically.
- 10. U-factor per Design: Select from dropdown or user input.
- 11. Enter the Net Area.

Metal Panel Walls

- 1. Check to include Metal Panel Walls in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description.
- 4. Occupancy & Status: Select from dropdown.
- 5. How Design U-factor was determined: Select from dropdown.
- 6. Panel Thickness: Select from dropdown or user input.
- 7. This field is filled out automatically.
- 8. U-factor per Design: Select from dropdown or user input.
- 9. Enter the Net Area.

Log Home Walls (new walls only)

- 1. Check to calculate Area-Weighted Average U-factor for Log Home Walls.
- 2. Enter the Tag/Plan Detail ID.

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ENV-E
Envelope Component Approach	(Page 9 of 16)

- 3. Occupancy Type: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.
- 5. Log Diameter: Select from dropdown or user input.
- 6. Frame Material & Thickness: Select from dropdown or user input.
- 7. Cavity Insulation per Design: Select from dropdown or user input.
- 8. This field is filled out automatically.
- 9. U-factor per Design: Select from dropdown or user input.
- 10. Enter the Net Area.

Straw Bale Walls

- 1. Check to include Straw Bale Walls in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description.
- 4. Occupancy & Status: Select from dropdown.
- 5. How Design U-factor was determined: Select from dropdown.
- 6. Insulation per Design: Select from dropdown or user input.
- 7. Thermal Performance Unit: Select from dropdown.
- 8. This field is filled out automatically.
- 9. U-factor per Design: Select from dropdown or user input.
- 10. Enter the Net Area.

Insulated Concrete Form Walls (new walls only)

- 1. Check to calculate Area-Weighted Average U-factor for ICF Walls.
- 2. Enter the Tag/Plan Detail ID.
- 3. Occupancy Type: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.
- 5. ICF Type: Select from dropdown.
- 6. Concrete Core Thickness: Select from dropdown.
- 7. Insulation Type: Select from dropdown.
- 8. Insulation Thickness: Select from dropdown.
- 9. This field is filled out automatically.

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- 10. U-factor per Design: Select from dropdown or user input.
- 11. Enter the Net Area.

I. Floor Assembly Schedule

1. Select the floor types included in the project.

Framed Floors

- 1. Check to include Framed Floors in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Occupancy & Status: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.
- 5. Crawlspace: Select from dropdown.
- 6. Frame Material, Spacing & Depth: Select from dropdown or user input.
- 7. Cavity Insulation per Design: Select from dropdown or user input.
- 8. Continuous Insulation per Design: Select from dropdown or user input.
- 9. Thermal Performance Unit: Select from dropdown.
- 10. This field is filled out automatically.
- 11. U-factor per Design: Select from dropdown or user input.
- 12. Enter the Net Area.

Structural Insulated Panels (SIPs) Floors

- 1. Check to include SIPs Floors in Area-Weighted Average U-factor Calculation.
- 2. Enter the Tag/Plan Detail ID.
- 3. Occupancy Type: Select from dropdown.
- 4. How Design U-factor was determined: Select from dropdown.
- 5. Crawlspace: Select from dropdown.
- 6. Wood Framing Connection Type: Select from dropdown or user input.
- 7. Panel Thickness: Select from dropdown or user input.
- 8. Core Insulation per Design: Select from dropdown or user input.
- 9. Continuous Insulation per Design: Select from dropdown or user input.
- 10. This field is filled out automatically.

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- 11. U-factor per Design: Select from dropdown or user input.
- 12. Enter the Net Area.

Raised Mass Floors

- 1. Check to calculate Area-Weighted Average U-factor for Raised Mass Floors.
- 2. Enter the Tag/Plan Detail ID.
- 3. Enter the Name/Description.
- 4. Occupancy & Status: Select from dropdown.
- 5. How Design U-factor was determined: Select from dropdown.
- 6. Insulation Location: Select from dropdown or user input.
- 7. Continuous Insulation per Design: Select from dropdown or user input.
- 8. Thermal Performance Unit: Select from dropdown.
- 9. This field is filled out automatically.
- 10. U-factor per Design: Select from dropdown or user input.
- 11. Enter the Net Area.

Heated Slab-on-Grade Floors

- 1. Enter the Tag/Plan Detail ID.
- 2. Enter the Name/Description.
- 3. Insulation Location: Select from dropdown.
- 4. Insulation Orientation static text.
- 5. This field is filled out automatically.
- 6. Enter the R-value per Design.
- 7. Insulation Materials & Install static text.
- 8. Enter the Location in Construction Documents.

Low-rise Multifamily Slab-on-Grade Floors (new floors in Climate Zone 16 only)

- 1. Enter the Tag/Plan Detail ID.
- 2. Enter the Name/Description.
- 3. This field is filled out automatically.
- 4. Thermal Performance Unit: Select from dropdown.

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- 5. This field is filled out automatically.
- 6. Enter the Thermal Performance per Design.
- 7. Insulation Depth static text.
- 8. Enter the Location in Construction Documents.

J. Exterior Door Schedule

- 1. Enter the Tag/Plan Detail ID.
- 2. Enter the Name/Description.
- 3. Occupancy Type: Select from dropdown.
- 4. Door Type: Select from dropdown.
- 5. Door Insulation: Select from dropdown.
- 6. This field is filled out automatically.
- 7. This field is filled out automatically.

K. Fenestration Schedule

1. Select the fenestration types included in the project.

Vertical Fenestration and Glazed Doors- Total Building & West Facing Area

- 1. Enter the Elevation Item Tag/Description.
- 2. Orientation (Azimuth): Select from dropdown.
- 3. Enter the Gross Exterior Wall Area.
- 4. Enter the Display Perimeter Length.
- 5. Enter the Vertical Fenestration Area per Design.
- 6. This field is filled out automatically.
- 7. This field is filled out automatically.
- 8. This field is filled out automatically.
- 9. This field is filled out automatically.

Multifamily Exterior Vertical Fenestration and Glazed Doors- Total Building Area

- 1. Enter the Elevation Item Tag/Description.
- 2. Orientation (Azimuth): Select from dropdown.
- 3. Enter the Gross Exterior Wall Area.

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- 4. Enter the Multifamily Conditioned Floor Area.
- 5. Enter the Vertical Fenestration Area per Design.
- 6. This field is filled out automatically.
- 7. This field is filled out automatically.

Vertical Fenestration and Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/SHGC), Visible Transmittance (VT)

- 1. Check to calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors.
- 2. Check to calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors.
- 3. Check to calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors.
- 4. Enter the Tag/Plan ID.
- 5. Fenestration Type: Select from dropdown.
- 6. Occupancy & Status: Select from dropdown.
- 7. U-factor/ (R)SHGC Compliance Method: Select from dropdown.
- 8. VT Compliance Method: Select from dropdown.
- 9. Calculation Method for Performance Values per Design: Select from dropdown.
- 10. Product Performance Unit static text.
- 11. This field is filled out automatically.
- 12. Enter the Product Performance per Design.
- 13. Enter the Area.

NA6 Default Calculation

- 14. Is the Window Projecting?: Select from dropdown.
- 15. Frame Type: Select from dropdown.
- 16. Glazing Type: Select from dropdown.
- 17. Product Performance Unit static text.
- 18. Enter the Center of Glass (COG) Product Performance.
- 19. This field is filled out automatically.

§110.6 Default Tables

- 20. Greenhouse/Garden Window?: Select from dropdown.
- 21. Is the Window Projecting?: Select from dropdown.

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- 22. Frame Type: Select from dropdown.
- 23. Glazing Type: Select from dropdown.
- 24. Glazing Tint: Select from dropdown.
- 25. This field is filled out automatically.

Overhang Details for RSHGC per §140.3/§170.2

- 26. Enter the SHGC of Window.
- 27. Overhang or Horizontal Slats?: Select from dropdown.
- 28. Enter the Azimuth of Fenestration.
- 29. Enter the Projection per Eq. 140.3-C/ 170.2-A.
- 30. Enter the Spacing per Eq. 140.3-C/170.2-A.
- 31. This field is filled out automatically.
- 32. This field is filled out automatically.

Skylights - Total Area

Check if Multifamily adding up to 16ft2 of skylight per dwelling unit.

- 1. Building has Atria > 55ft?: Select from dropdown.
- 2. Enter the Gross Exterior Roof Area.
- 3. This field is filled out automatically.
- 4. Enter the Total Skylight Area per Design.

Skylights – U-factor, Solar Heat Gain Coefficient (SHGC), Visible Transmittance (VT)

- 1. Check to calculate Area-Weighted Average U-factor for Skylights.
- 2. Check to calculate Area-Weighted Average SHGC for Skylights.
- 3. Check to calculate Area-Weighted Average VT for Skylights.
- 4. Enter the Tag/Plan ID.
- 5. Fenestration Type: Select from dropdown.
- 6. Occupancy & Status: Select from dropdown.
- 7. Calculation Method for Performance Values per Design: Select from dropdown.
- 8. Glaze/ Diffuser with Haze Value > 90%?: Select from dropdown.
- 9. Compliance Method for Multifamily Alterations: Select from dropdown.

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- 10. This field is filled out automatically.
- 11. Enter the Product Performance per Design.
- 12. Enter the Area.

NA6 Default Calculation

- 13. Frame Type: Select from dropdown.
- 14. Product Performance Unit static text.
- 15. Enter the Center of Glass (COG) Product Performance.
- 16. This field is filled out automatically.

§110.6 Default Tables

- 17. Operable/Fixed: Select from dropdown.
- 18. Frame Type: Select from dropdown.
- 19. Glazing Type: Select from dropdown.
- 20. Glazing Tint: Select from dropdown.
- 21. This field is filled out automatically.

L. Daylight in Large Enclosed Spaces

- 1. Enter the Plan Sheet Showing Daylit Zones.
- 2. Enter the Space Name.
- 3. Compliance Method: Select from dropdown.
- 4. Enter the Total Area of Space.
- 5. Enter the Skylit Daylit Zone Area per Design.
- 6. Enter the Primary Sidelit Daylit Zone Area per Design.
- 7. This field is filled out automatically.
- 8. This field is filled out automatically.
- 9. Enter the Total Skylight Area per Design.
- 10. This field is filled out automatically.
- 11. Enter the Skylight Weighted Average VT.
- 12. This field is filled out automatically.

M. Declaration of Required Certificates of Installation

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1. Selections have been automatically made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks.

N. Declaration of Required Certificates of Acceptance

1. Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks.

Documentation Declaration Statements

- 1. The person who prepared the NRCC will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature.
- 2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields for their name, company (if applicable), address, phone number, license number (if applicable), date and signature.