PERFORMANCE CERTIFICATE OF CO	MPLIANCE	(Pan	1 of 3)	PERF-10
Project Name				Date
BCSD School Building C Classrooms				1/5/2012
Project Address Bakersfield	Climate Zone  CA Climate Zone		nd. Floor Area 3,360	Addition Floor Area
GENERAL INFORMATION	OA Officiale 2016	70	7,000	170
	☐ High-Rise Reside	ntial 🗆	Hotel/Motel	Guest Room
	☐ specific climate z		all climates	about 1100m
	☐ Addition		Alteration	
STATEMENT OF COMPLIANCE This certificate of compliance lists the building features ar comply with Title 24, Parts 1 and 6 of the California Code certificate applies only to a Building using the performance. The documentation author hereby certifies that the documentation author hereby certifies that the	of Regulations. This e compliance approa	ch.		
Documentation Author	Tontalion is according	7 1	<u> </u>	
Name MARK BASKIN	Signature		Charles of the Contract of the	
Parada.		Date	4/6/0040	
Address Mechanical Design Concepts, Inc.		Phon	1/5/2012 e	
City/State/Zip			-	······································
any other calculations submitted with this permit application of the efficiency requirements contained in sections 110, 116 the check one:  ENV. LTG. MECH	rough 118, and 140 th	rough 149 of	Title 24, Par	t 6. Please
I hereby affirm that I am eligible unde	ponsible for its preparati	on; and that I a	ım licensed in	the State of
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Project Name BCSD School Buildin	a C Cle	eeroome								Date 1/5/
ANNUAL TOV ENERG	Y USE	SUMMARY	kBtu	saft-vr)	*****		<u> </u>			
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	ding C Classrooms						Date 1/5	/2012
ZONE INFORMATION	NC				·····	T		<del></del>
System Name	Zone Name	Occupancy Type	Floor Area (sqft.)	Inst. LPD (W/sf) <sup>1</sup>	Ctrl. Credits (W/sf) <sup>2</sup>	Allowed Area (W/sf) <sup>3</sup>	ed LPD Tailored (W/sf) <sup>4</sup>	Proc Load (W/sf
4P C-1	Classroom 100	Classroom, Lecture, Training	963	*0.470				
	Classroom 101	Classroom, Lecture, Training	963	*0 470				
······································	Classroom 102	Classroom, Lecture, Training	963	*0 470				
	Classroom 103	Classroom, Lecture, Training	963	*0 470				
	Work Room 108	Classroom, Lecture, Training	240	*0.470				
-IP C-2	Classroom 104	Classroom, Lecture, Training	963	*0.470				
	Classroom 105	Classroom, Lecture, Training	963	60.470				
	Classroom 106	Classroom, Lecture, Training	963	*0.470				
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	Work Room 109	Classroom, Lecture, Training	240	*0.470	······································			
CU/FC C-1, 2	Electrical Rooms	Electrical, Mechanical Room	176	*0.470				
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Notes: 1 See LTG-1C		2. See LTG-2C 3. See LTG-3C (by others)	4 Se	e LTG-4C	items at	ove require s	pecial docume	entation
	stensk, see LTG-1-C by others) NDITIONS COMPLIAN				***************************************	***************************************	CHARLES AND ADDRESS OF THE PARTY OF THE PART	*********
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special justification and The HVAC System HP C- The HVAC System PUHY The Roof R-0 Roof Cather  The exceptional feature:	2 includes Demand Control V -P192 Run as Standard Heal dral w/R-30 Sarna Therm Re s listed in this performance use have been provided by	/entilation per Standards Section  Pump includes a Variable Speed effectance = 0.72, Emiltance = 0.9	121 Il Drive an 100 shall be	rated and l				
special justification and The HVAC System HP C- The HVAC System PUHY The Roof R-0 Roof Cather  The Roof R-0 Roof Cather  The exceptional features	2 includes Demand Control V -P192 Run as Standard Heat draf w/R-30 Sarna Therm Re s illsted in this performance use have been provided by	/entilation per Standards Section Pump includes a Variable Speed Officiance = 0.72, Emiltance = 0.5  eapproach application have speed of the publicant.	121 I Drive on 10 shall be	rated and I	wed. Adeq		n justificatio	

Project N		*******				····	60000000000000000000000000000000000000		<u> </u>		D	ate 1/5/20	01
Project A	School Building C Cla	assroom	S		77	Climate Zo	ne	T	Total Co	nd Floor	Area   Addit	on Floo	
	ersfield					011111414	13			3,360		n/a	
GENER	AL INFORMATION						***			re and an impossible to the			
Building	Type: 🔽					☐ High	n-Rise Re	sidential		Hotel/M	otel Guest I	Room	
☐ Sch	nools (Public School) C	Reloca Bldg.	table	Public	School	⊠ C	onditioned	d Spaces			Incondition	ed Spac	ces
☐ Sky	rlight Area for Large Enclo		9 ≥ 80	00 ft <sup>2</sup> (	f checke	ed include	the ENV	-4C with s	submittal	1)	<del> </del>	*****	
	of Construction:	******					litìon			Alteration	ภา		
Approac	ch of Compliance C	Compo	nent			Ø Ove	rall Envel	оре	П	Uncond	itioned (file	affidavi	it)
Front O	rientation: N, E, S, W or in	Degrees	T	0 deg									
<del>)                                      </del>	**************************************	FIEL	D IN	SPE	TION	ENER	GY CH	ECKLI	ST	***************************************	<del></del>		
OPAQU	E SURFACE DETAILS	****		************************	•	ATION	***************						
		Area (ff²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring <sup>3</sup>	Interior R- Value	Interior Furring <sup>3</sup>	Joint Appendix 4	Condition	, a	
		Area	Š m	U-Fa	P-Vavi	Valu	Für	Valu	Fun	Join App	Stat	Pass	
Tag/ID	Assembly Type Roof	951	(N)	0.02	<del> </del>	<del> </del>	<del> </del>		}	2.2-A1	New		$\dagger$
2	Wall	334	(E)	0.02			710110			3.1-A6	New		t
3	Door	42	(E)	0.50	<del></del>	·}				.5 1-A3	New		†
4	Wall	360		0.06	<del></del>				4	3 1-A6	New	0	T
<u>.</u> 5	Slab	963	(N)	0.730	<del> </del>	-}			4	4.7-A1	New		T
6	Roof	951	(N)	0.02	<del> </del>	<del></del>	None		4	,2.2-A1	New		1
7	Wall	334	(E)	0.06	<del> </del>	1			4	.3 1-A6	New		T
8	Door	42	(E)	0.500	insu	/			4	.5 1-A3	New		T
9	Slab	963	(N)	0.73	None	>			4	47-A1	New		
10	Roof	951	(N)	0 025	None	30.6	None		4	2.2-A1	New		
	then describe on Page 2 of the TRATION SURFACE D		<del></del>							***************************************			
Tag/ID	Fenestration Type	i		Area (ft*)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Overhang	Conditions	Pass	
1	Skylight			12	(N)	0.550	NFRC	0.200	<del> </del>		New		1
2	Window			225	(E)	0.290	cog	0.270	<del> </del>		New	<u> </u>	1
3	Skylight		<u> </u>	12	(N)	0.550	NFRC	0.200	+		New	<u> </u>	-
4	Skylight			12	(N)	0.550	NFRC	0.200	<b>†</b>		New		-
5	Skylight		ļ	12	(N)	0.550	NFRC	0 200	·		New	1	╀-
6	Skylight		<del> </del>	12	(N)	0.550	NFRC	0.200	<del> </del>		New	<u>                                   </u>	-
~	Window			225	(W)	0.290	COG	0.270	<del> </del>		New		-
·	Skylight		-	12	(N)	0 550	NFRC	0.200			New		-
8			1	12	(N)	0.550	NFRC	0.200	NFF	(U) Lui	New	كسلا	1
7 8 9 10	Skylight Skylight		-	12	(N)	0.550	NFRC	0 200	NFF	2C 🗖	New		

Figure 2   Addition   Flower	Project N		assroon	1.5								D	ate 1/5/2	01
Building Type:			33310011			T	Olimate Zo	ne		Total	Cond. Floo	r Area   Additi		
Building Type:	Bake	rsfield						13			8,360		n/a	
Schools (Public School)	GENER	AL INFORMATION	************					***************************************	rational and a state of the sta		**********			
Skylight Area for Large Enclosed Space > 8000 ft² (if checked include the ENV-4C with submittat)   Phase of Construction	Building	Type:				5-1	☐ High	-Rise Re	sidential		~~~~		·	
Phase of Construction	□ Sch	nools (Public School) 🛚 🗀		atable	Public :	School	⊠ C	onditione	d Spaces	3		Unconditione	d Spa	ces
Approach of Compliance:	☐ Sky	light Area for Large Enclo	sed Spac	e ≥ 80	000 ft <sup>2</sup> (1	f checke	ed include	the ENV	-4C with	submit	tal)			
Front Orientation: N, E, S, W or in Degrees:   0 deg	Phase o	of Construction 🖸	I New C	onstr	uction		☐ Add	ition			Alterat	on		
Tag/ID   Assembly Type	Approac	ch of Compliance:	l Compo	onent			☑ Oye	rall Envel	ope		Uncon	ditioned (file	affidav	ıt)
Teg/ID	Front Or	rientation: N, E, S, W or in						******		****				
Tag/ID			FIEL	D IN	SPEC	TION	ENER	GY CH	<b>ECKL</b>	IST			************	
11   Wall   334   (E)   0.069   R-21     4 3.1-A6   New   12   Door   42   (E)   0.500   Insul     4 4.7-A1   New   13   14   Roof   951   (N)   0.029   None   30.6   None   4 2.2-A1   New   15   Wall   334   (E)   0.066   R-21     4 3.1-A6   New   16   Door   42   (E)   0.500   Insul     4 3.1-A6   New   16   Door   42   (E)   0.500   Insul     4 3.1-A6   New   17   Wall   360   (N)   0.066   R-21     4 3.1-A6   New   18   New   19   New   19   Roof   240   (N)   0.029   None   30.6   None   4 2.2-A1   New   19   None   19   Roof   240   (N)   0.029   None   30.6   None   4 3.1-A6   New   19   None   19   Roof   240   (N)   0.029   None   30.6   None   4 3.1-A6   New   19   None   19   Roof   240   (N)   0.029   None   30.6   None   4 3.1-A6   New   19   None   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   None   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   4 3.1-A6   New   19   Roof   240   (N)   0.730   None   3 0.6   None   4 3.1-A6   New   19   Roof   34.4-T-A1   New   19   Roof	OPAQU	E SURFACE DETAILS	·	<del>,</del>	çonomonomonom	INSUL	ATION			<del></del>				
11   Wall			Vrea (ff²)	Drientation	J-Factor	Savity R-Value	Exterior R-	Exterior Furring <sup>2</sup>	nterior R- falue	nterior Furring <sup>3</sup>	Joint Appendix 4	Sondition Status	ass	
12   Door			· <del> </del>		<del> </del>	<del> </del>	<del> </del>				<b></b>			+
13   Slab   963 (N)   0 730   None       4 4.7-A1   New		<del> </del>				<del> </del>	<del> </del>							$\dagger$
14   Roof		<del> </del>	·			<del> </del>	<del></del>		~~~~	<del> </del>				t
16   Door		<del></del>	ļ			···	<del></del>	None		<b>†</b>	42.2-A1	New		T
17	15	Wall	334	(E)	0.069	R-21					4.3 1-A6	New		T
18   Slab   963   (N)   0730   None	16	Door	42	(E)	0.500	Insul					4 5.1-A3	New	0	Ι
Roof   240 (N)   0.029   None   30.6   None   42.2-A1   New   1.2-A1   New   1.	17	Wall	360	(N)	0.069	R-21					4 3.1-A6	New	П	
See Instructions in the Nonresidential Compliance Manual, page 3-96.   1 See Instructions in the Nonresidential Compliance Manual, page 3-96.   2 If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct	18	Slab	963	(N)	0 730	None					4.4.7-A1	New		Ļ
1 See Instructions in the Nonresidential Compliance Manual, page 3-96. 2 If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.  FENESTRATION SURFACE DETAILS  Fenestration Type  Fenestration Type Synthetic Sy	19	Roof	240	(N)	0 029	None	30.6	None			4.2.2-A1	New		ļ.
Tag/ID Fenestration Type Fenestration Type Fenestration Fenestration Fenestration Fenestration Type Fenestration Type Fenestration Fenestration Fenestration Type Fenestration Fenestration Fenestration Fenestration Type Fenestration Fenestration Fenestration Fenestration Type Fenestration Fenest	20	Slab	240	(N)	0.730	None				L	4.4.7-A1	New		
Fenestration Tag/ID Fenestration Type Fenestrati	1 See ins	structions in the Nonresidents then describe on Page 2 of th	al Compliar e Inspectio	nce Ma on Che	inual, pa cklist Foi	ge 3-96. rm and ta	ike approp	nate action	to correc	t A fail	does not r	neet compliane	ce.	
In a september of Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary			***********		<del>,,,)  ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	**************************************			*************	****************		*****************	*******	****
In See Instructions in the Nonresidential Compliance Manual, page 3-96.  2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary	Taq/ID			·	Area (ft²)	Orientation N, E. S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source	Conditions Status	Pass	٠
La contractions in the Nonresidential Compliance Manual, page 3-96.  2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary											0			
1. See Instructions in the Nonresidential Compliance Manual, page 3-96.  2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary														
1. See Instructions in the Nonresidential Compliance Manual, page 3-96.  2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary				<u> </u>						ļ				
In See Instructions in the Nonresidential Compliance Manual, page 3-96.  2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary				ļ						<del> </del>		<b></b>		
1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary				-						-		-		L
1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary			<del></del>	-					••••					L
1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct Verify building plans if necessary										-		-		L
1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary				-					·	+	<del>.</del>		-	-
1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary				+						<del> </del>		-	-	
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary	1 Can les	trustings in the Manyanida-45	d Comples	100 110	nual as:	20 3.00				.1		_l	1 4	
							е арргоргі	ate action	to correct	Verify	building pl	ans if necessa	ry	
EnergyPro 5.1 by EnergySoft User Number: 5232 <b>RunCode: 2012-01-05T13:08:11</b> ID: 09091 Page 6.6		o 5 1 by EngraySoft Hea	r Number	5232		RunCodi	e: 2012-01	-05T13:08	:11	ID: 090	91	.,	Page 6	of

(Part 3 of 3) **ENV-1C** 

Date 1/5/2012

Ragin   Rasembly type   951 (N)   0.029   None   30.6   None   4.2.2-A1   New   1.22   New   1.22   New   1.23   Door   42 (W)   0.500   Insul   1.24   New   1.25   New   1.25   Slab   963 (N)   0.069   R-21   1.25   None   1.24   New   1.25   None   1		TIFICATE OF CO				ALTE	· ^   /	C) "I"	(	Part	1 of 3	3)	EN	٧-	1 (
1/5/201   School Building C Classrooms			HUNE	:NE	MUY	CHE	UNLI	<u> </u>	MC-000				Date	*****	
Bakers field	BCSD	School Building C Cl	assroom	s									1/5		
Sehotols (Public School)						(	Climate Zo			Total					ΑÎ
Building Type:			***************	*****	1 <del></del>			13			0,300		11)	d	667
Schools (Public School)		****	1 Nonre	ident	ıal	<del></del>	□ High	-Rise Re	sidential		Hotel/	Motel Gu	est Bana	n.	
Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)   Phase of Construction:		Type.	Doloor			School			~^***						~~
Addition			Blag.		2							Onconai	uoned SI	)acı	20
Approach of Compliance						checke			-4C with						
Front Orientation* N, E, S, W or in Degrees:   0 deg     FIELD INSPECTION ENERGY CHECKLIST   INSULATION					uction	·····	~~~~								
Teg/ID   Assembly Type   Ass						Ι	₩ Ove	rall Envel	ope		Uncor	nditioned	(file affici	avit	
Second   Set   Stab   Set	Front O	rientation: N, E, S, W or in					100 2 7 700 500				намения принажения принажения	22000000000000000000000000000000000000	×170-100/R42477444474		
Tag/ID   Assembly Type   V   Dipper   Assembly Type   Dipper   Dipp	~~~		FIEL	D IN	SPEC			GY CH	ECKL	151	r	**********************	000000000 <del>00000000000</del>		
1   Roof   951   (N)   0.029   None   30.6   None   4.2.2-A1   New	UPAQU	E SUMPACE DETAILS	***************************************	*********		INSUL			<del>077488447777488</del> 000	T					
22   Walf   334   W   0.069   R-21   4.31-A6   New   23   New   24   Walf   360   W   0.069   R-21   4.31-A6   New   25   Stab   963   W   0.730   None   4.4.7-A1   New   26   Roof   951   W   0.029   None   30.6   None   4.22-A1   New   27   Walf   334   W   0.069   R-21   4.31-A6   New   28   Door   42   W   0.500   Insul   4.51-A3   New   29   Stab   963   W   0.069   R-21   4.31-A6   New   20   None   30.6   None   4.22-A1   New   20   None   None   30.6   None   4.22-A1   New   20   None	Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring <sup>3</sup>	Interior R- Value	Interior Furring <sup>3</sup>	Joint Appendix 4	Condition	Status	rass	9
1   See Instructions in the Norresidential Compliance Manual, page 3-96.	21	Roof	951	(N)	0.029	None	30 6	None			4.2.2-A1	New	1	ב	
	22	Wall	334	(W)	0.069	R-21					4.3 1-A6	New	ī	ב	
See Instructions in the Nonresidential Compliance Manual, page 3-96.   Stab   963 (N) 0.730   None   30.6   None   4.2 2-A1   New	23	Door	42	(W)	0.500	Insul	1			-	4.5 1-A3	New	C	ב	
26	24	Wall	360	(N)	0 069	R-21			****************		4.3.1-A6	New	1	]	
27   Wall   334   W)   0.069   R-21   43.1-A6   New	25	Slab	963	(N)	0 730	None					4 4.7-A1	New	1	<u>ב</u>	
Door   42 (W) 0.500   Insul	26	Roof	951	(N)	0.029	None	30.6	None			4 2 2-A1	New			-
Slab 963 (N) 0.730 None 4.4.7-A1 New 1  30 Roof 951 (N) 0.029 None 30.6 None 4.2.2-A1 New 1  1. See Instructions in the Nonresidential Compliance Manual, page 3-96  2. If Fail, then describe on Page 2 of the Inspection Checklest Form and take appropriate action to correct. A fail does not meet compliance FENESTRATION SURFACE DETAILS  Fenestration Type	27	Wall	334	(W)	0.069	R-21					4 3.1-A6	New			
Roof 951 (N) 0 029 None 30 6 None 4.2 2-A1 New 1 1. See Instructions in the Nonresidential Compliance Manual, page 3-96 2. If Fall, then describe on Page 2 of the Inspection Checklest Form and take appropriate action to correct. A fail does not meet compliance FENESTRATION SURFACE DETAILS  Tag/ID Fenestration Type	28					<del> </del>					<del> </del>				
1. See Instructions in the Nonresidential Compliance Manual, page 3-96 2. If Fail, then describe on Page 2 of the Inspection Checklest Form and take appropriate action to correct. A fail does not meet compliance  FENESTRATION SURFACE DETAILS  Fenestration Tag/ID  Fenestration Type  Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration T	29	·					<del></del>				<del>}</del>				
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance  FENESTRATION SURFACE DETAILS  Tag/ID  Fenestration Type  Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenestration Type Fenest	30	Roof	951	(N)	0 029	None	30 6	None		L	4.2 2-A1	New		]	
	2. If Fail,	then describe on Page 2 of the	ne Inspectio				ike approp	riate action	to correc	t. A fai	l does not	meet com	phance		•••
	Tao/IO		1		Area (ft')	Orientation N. E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source	Conditions	Status	7455	?
			<del></del>							1		1	0	3	-
See Instructions in the Nonresidential Compliance Manual, page 3-96.												1		]	-
See Instructions in the Nonresidential Compliance Manual, page 3-96.												ı	E	3	Ī
See Instructions in the Nonresidential Compliance Manual, page 3-96.													ι	3	Ī
See Instructions in the Nonresidential Compliance Manual, page 3-96.				<u> </u>							C	1	[ [	3	Ī
See Instructions in the Nonresidential Compliance Manual, page 3-96.												1		]	آ
See Instructions in the Nonresidential Compliance Manual, page 3-96.														]	Ī
See Instructions in the Nonresidential Compliance Manual, page 3-96.												1	ľ	<b>1</b>	ĺ
1 See Instructions in the Nonresidential Compliance Manual, page 3-96.				<u> </u>						<u> </u>			C	]	-
				<u></u>				1				1		]	_
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	TIFICATE OF CO				CHE	CKU	ST	(	Part	1 of 3)		ENV
Project N	lame	AND DESCRIPTION OF THE PERSON		nai	VIII	VILLI		-K-21-10-10-10-10-10-10-10-10-10-10-10-10-10				Date 1/5/2
Project A	School Building C Cl	assroom	 	.,		limate Zo	ne		Total	Cond Floor	Area Add	tion Flo
	ersfield					nuncito 2.0	13		, , ,	8,360	1100	n/a
GENER	AL INFORMATION	1991 - Access A-centeriolecco	*************	**********			***************			~~~		
Building	Type:	1 Nonre				☐ High	-Rise Res	sidential		HoteVM	otel Guest	Room
☐ Sch	nools (Public School) [	J Bldg		Public 5			onditioned				ncondition	ed Spa
☐ Sky	dight Area for Large Enclo	sed Spac	e ≥ 80	100 ft <sup>2</sup> (If	checke	d include	the ENV-	4C with	submit	(al)		
Phase o	f Construction.	1 New C	onstri	uction		☐ Add	tion	·····		Alteratio	n	
Approac	ch of Compliance	1 Compo	onent			Ø Ove	rall Envelo	ре		Uncondi	tioned (file	affidav
Front Or	rientation: N, E, S, W or In	Degrees:		0 deg								
******************		FIEL	D IN	SPEC	TION	ENER	GY CH	ECKL	ST			
OPAQU	E SURFACE DETAILS				INSUL	ATION					****	******
		Area (#²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring <sup>3</sup>	Interior R- Value	Interior Furring <sup>3</sup>	Joint Appendix 4	Condition	Pass
Tag/ID	Assembly Type		<del> </del>		ļ					4.3 1-A6	New	+
31	Wall	334	(W)	0.069					<u> </u>	4.5 1-A3	New	+=
32	Door	42	(W)	0.500						4.5 T-A5	New	+=
33 '	Stab	963		0.730		30.6	None			4.2.2-A1	New	10
34	Roof	951	(N)			30.0	140116			4.3.1-A6	New	+=
35	Wall	334	<u> </u>	0.500 0.500					<b></b>	4.5.1-A3	New	
36 37	Door Wall	360	<u> </u>	0.069						4,3 1-A6	New	+=
38	Slab	963		0.730						4.4.7-A1	New	
39	Roof	240		0.029		30 6	None	·········	<b></b>	4.2 2-A1	New	
40	Slab	240		0.730					<u> </u>	4 4.7-A1	New	
2. If Fail,	structions in the Nonresident then describe on Page 2 of t TRATION SURFACE I	ne Inspectio	n Che	anual, pa cklist Fo	ge 3-96. rm and ta	ke approp	nate action	to correc	t Afail	does not m	eet complia	nce.
Tag/ID	Fenestratio Type	n		Area (ff)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source	Conditions Status	Pass
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1 See Ins	structions in the Nonresidenti	al Compha	тсе Ма	inual, pag	ge 3-96.					Securitaria e e e		
2. If Fail I	hen describe on Page 2 of th	e inspectio	n Chec	klist Forr	m and tak	e appropr	ate action	to correct	. venty	puliding pla	ns if necess	ary.

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OPAQU	IE SURFACE DETAILS	<del></del>			INSUL	ATION	T		7	<b></b>		T	T	T
Tag/ID	Assembly Type	Area (It²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring³	Interior R- Value	Interior Furring <sup>3</sup>	Joint	Appendix 4	Condition Status	Pass	Eall
41	Roof	176	(N)	0 029	None	30.6	None			4.2.2-4	11	New		C
42	Wall	118	(E)	0 069	R-21					4.3.1-4	16	New		E
43	Door	21	(E)	0 500	Insul		-			4.5 1-4	13	New		L
44	Door	21	(E)	0.500	Insul				ļ	4.5.1-4	13	New		1
45	Wall	160	(W)	0.069	R-21					431-1	~~~~	New		C
46	Wall	120	(S)	0.069					ļ	4.3.1-4		New	<u> </u>	
47	Well	120		0 069					ļ	431-4		New		ב
48	Slab	176	(N)	0.730	None					4 4.7-	11	New	-	
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AND FIELD			OMPL TION		E RGY CHECKLIS	Т	(P	art 2 of 3	3)		ENV	-1C
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ROOFING PRO						***************************************	~ <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>				17012	
	produc				is compliance approach o	cannot b	e used).	Go to Overal	l Env	/elope	Approac	h or
CHECK APPLICABL	E BOX	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	<del></del>	THE ROOFING PRODUCT			QUIREMENTS	<b>}:</b>	Pass	Fail <sup>1</sup>	N/A
					and16 with a Low-Sloped. 2			·····			<u> </u>	_
Roofing complia	nce <u>not</u>	required	in Climate	Zone 1 v	rith a Steep-Sloped with less and 5 are exempted, solar refl	than 5 lb	/It². Great	er than 2:12 pite	ch 		<u> </u>	
SRI that have a	U-facto	r of 0.039	or lower	See Opar	que Surface Details roof asse	embly, Co	lumn H of	ENV-2C				
that have a U-fa	ctor of (	3.048 or l	ower See	Opaque 5	nd 5 are exempted, solar rele Surface Details roof assembly	v below. (	Column H	of ENV-2C	SRI			
The roof area co	overed t	ov buildin	a integrate	ed photovo	oltaic panels and building inte or SRI, see spreadsheet calc	egrated so	olar therma	al panels are	.1/	а		
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The Cool Heor c	riteria be	elow. Idioas an	d hotels a	nd motels	with low-sloped roofs in Clim	nate Zone	s 1 throug	h 9, 12 and 16	are		<del> </del>	-
exempted from	the low-	sloped ro	ofing crite	па.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		L		
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CRRC Product ID Number <sup>1</sup>		Slope 2:12	Produc	t Weight ≥ 5lb/it²	Product Type <sup>2</sup>		i Solar ctance <sup>3</sup>	Thermal Emmitance		SRI <sup>S</sup>	Pass	Fail
R-0 Roof Cathedral w	[2]		[2]			□ <sup>4</sup>	0.72	0.90				
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This form is to be used by the designer and att Fenestrations system. The designer is required require an acceptance test. If all the site-built is products and the number of systems. The NA Manual describes the test. Since this form will party to budget for the scope of work appropria	d to check the accept fenestration of a cert 7 Section in the Appo be part of the plans,	tance tests and list a ain type requires a tr endix of the Nonresia	all the fenestration product est, list the different fenes dential Reference Append
Enforcement Agency: Systems Acceptance. Before Occupancy Per fenestration is installed in the building or space The ENV-2A form is not considered a complete boxes are checked and/or filled and signed. In enforcement agency that certifies plans, speci information meet the requirements of §10-103( out and signed forms before the building can re fenestration product line must be provided to the	e shall be certified as e form and is not to b a addition, a Certifical fications, installation b) of Title 24 Part 6. eceive final occupance	meeting the Accept be accepted by the e te of Acceptance for certificates, and ope The field inspector r by. A copy of the EN	ance Requirements.  nforcement agency unles:  ms shall be submitted to te  erating and maintenance  nust receive the properly
Test Description		ENV-2A	Test Performed By:
Fenestration Products Name or ID Requiring Testing or Verification	Area of like Products	Building Envelope Acceptance Test	•
Sola-Tube 750 DS	96	Ø	
PPG 70XL (2) Starphire Low E	450	Ø	
			W-V
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CERTIFICATE OF COMPLIANCE

Project Name
BCSD School Building C Classrooms
Required Acceptance Tests

AND FIELD INSPECTION ENERGY CHECKLIST

INDOC Installati Certifica A separa	School Building C Classrooms				<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	*******		
INDOC Installati Certifica A separa							Dat 1	e /5/20	112
installat Certifica A separa	OR LIGHTING SCHEDULE and FIELD INS	PECTIO	NENER	RGY CH	FCKLI	ST		OLU	
Certifica A separa		**************	***	*******************************	**************************************	1			~
A separa	ion Certificate, LTG-1- INST (Retain a copy and verify form					Field In			
M Separa	ate of Acceptance, LTG-2A and LTG-3A (Retain a copy at the Lighting Schedule Must Be Filled Out for Conditioned in	nd venfy form	i is complete	d and signe	d.) lad Lighti	Field In			
this Light	ting Schedule is only for:	and Osicone	mioneu opi	aces mistar	ieu Eigiti	ng rower	89160 01		
<b>I</b> ZI	CONDITIONED SPACE	<u> </u>	JNCONDIT	IONED SP	ACE				
Ø	The actual indoor lighting power listed below includes all with §146(a).	•		-		•			
図	Only for offices: Up to the first 0.2 watts per square foot calculation of actual indoor lighting power density in account 0.2 watts per square foot is totaled below.	of portable I ordance with	ighting sha n the Excep	II not be re stion to §14	quired to 16(a). All	be includ portable li	ed in the ighting ir	exce	ess
	Luminaire (Type, Lamps, Ballasts)			Ins	talled V	/atts			
Α	В	С	a		E	F	G		H
					vattage termined			Fi Insp	eld ecto
None or Item Tag	Complete Luminaire Description <sup>1</sup> (i e 3 lan.p lluorescent troffer, F3218, one dimmaole electronic ballasts)		Watts per Luminaire 1	CEC Default From NA8	According To §130 (d or e)	Number of Luminaires	Installed Watts (D X F)	Pass	ű
	Designed Allowance 176 sqft at 0.470 w/sf						83		C
	Designed Allowance: 240 sqft at 0.470 w/sf						113		ľ
,	Designed Allowance: 240 sqff at 0.470 w/sf						113		
	Designed Allowance: 963 sqft at 0.470 w/sf						453	O	Øľ.
	Designed Allowence: 963 sqft at 0.470 w/sf						453		ľ
	Designed Allowance <sup>,</sup> 963 sqft at 0.470 w/sf			0			453		
	Designed Allowance: 963 sqft at 0.470 w/sf						453		ľ
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	Building total number of pages:			installed V stalled Wa (S		ng Total	3,929		
			Ent	er into LTC	3-1C Pag	e 4 of 4	3,929		

CERTIFICATE OF COMPLIA	NCE	***************************************	(Part 2 of 3)		LT	G-1C
Project Name	* * *DF \$250		1, 41, 2, 0, 0,		Date	
BCSD School Building C Classrooms					1/5/	2012
INDOOR LIGHTING SCHEDULE and FIE	LD INSPECTION	I ENERGY CHECK	LIST			
Fill in controls for all spaces: a) area controls,	b) multi-level contro	ls, c) manual daylighti	ng controls for daylit a	areas > 2	250 It²,	
automatic daylighting controls for daylit areas general lighting controlled separately from dist	> 2,500 ft°, d) shut-o play, ornamental and	off controls, e) display d display case lighting	nantina contrale ti tai	naron na	กหกก กก	ntrois -
controls for retail stores > 50.000 ft2, in accord	ance with Section 1	31.				eld
MANDATORY LIGHTING CONTROLS -	FIELD INSPECT	ION ENERGY CHE	CKLIST			ector
Type/ Description	Number of Units	Location in Bu		ecial atures	Pass	Fail
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			***************************************	<u> </u>	<i>0034 00</i>	L-1
SPECIAL FEATURES INSPECTION CHI The local enforcement agency should pay spe justification and documentation, and special ve and may reject a building or design that other submitted.	cial attention to the	items specified in this	checklist. These item determines the adequ	lacy of the	ne iustifi	cation.
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WALLEY TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE T			W			
Field Inspector's Notes or Discrepancies:				······································		
EnergyPro 5 1 by EnergySoft User Number: 523	<del>(414   114 </del>	012-01-05T13:08:11	ID: 09091			13 of 25

	COMPLIANCE	*************************************	(Part 3 of 3)	<del> </del>
Project Name BCSD School Building C	Classrooms			Date 1/5/2012
CONDITIONED AND UNCO	ONDITIONED SPACE	LIGHTING MI	JST NOT BE COMBINED FOR C	
Indoor Lighting Pow	er for Conditioned Sp	aces	Indoor Lighting Power for Unc	onditioned Spaces
		Watts		Watts
Installed Lighting (from Conditioned LTG-1C, Page 2)			Installed Lighting (from Unconditioned LTG-1C, Page 2)	
Lighting Control Credit Conditioned Spaces (from LTG-2C)			Lighting Control Credit Unconditioned Spaces (from LTG-2C)	- (
Adjusted Installed == Lighting Power			Adjusted <b>installed</b> Lighting Power	= (
Complies if Installed ≤ Allowed		<b>1</b>	Complies if <b>installed ≤ Allowed</b>	\$
Allowed Lighting Power Conditioned Spaces (from LTG-3C or PERF-1)			Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	, (
Reference Appendices Manual esponsible party to budget for Enforcement Agency: Systems Acceptance. Before system with controls is installed	I describes the test. Sind the scope of work approx Cocupancy Permit is gr d in the building or spac	ce this form will b opriately. Forms ranted for a newly	e NA7 Section in the Appendix of the e part of the plans, completion of this can be grouped by type of Luminal y constructed building or space or whe	section will allow the re controlled.
he boxes are checked and/or lagency that certifles plans, spe of §10-103(b) of Title 24 Part 6 deceive final occupancy. A cop	ns are not considered co filled and signed. In add ecifications, installation of it. The field inspector mu by of the LTG-2A and L	omplete forms an dition, a Certificat certificates, and o ast receive the pro	of as meeting the Acceptance Negotied are not to be accepted by the enforce of Acceptance forms shall be submit perating and maintenance information operly filled out and signed forms befortifierent lighting luminaire control(s) m	ement agency unless ted to the enforcement meet the requirements to the building can
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BCSD School Building C Project Address Bakersfield GENERAL INFORMATION							Date 1/5/2012
Bakersfield	Classi	rooms	Clim	ate Zone	Total Co	ond Floor Area	Addition Floor Area
GENERAL INFORMATION				13			n/a
The second secon	***********						
Building Type:	lonresidential	nresidential   High-Rise Residen			Linconditioned Chases		
☐ Schools (Public School)		Relocatable Public	School Bldg	Conditione	d Spaces	uncon (affida	
Phase of Construction:	<b>₩</b>	lew Construction				Alteration	
Approach of Compliance:		Component		Overall Envelope	rov 🗖	Unconditione	d (file affidavit)
Front Orientation, N, E, S, W o	r in Dec	grees: 0 deg		catory			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
HVAC SYSTEM DETAIL		<u> </u>	************************		FIELD INS	PECTION ENE	RGY CHECKLIST
**************************************			***************************************		Meet	s Criteria or F	lequirements
Equipment <sup>2</sup>		,	nspection (	Criteria	Pass	·····	escribe Reason <sup>2</sup>
Item or System Tags		HP C-1					
(i.e. AC-1, RTU-1, HP-1)			<u> </u>				
Equipment Type <sup>3</sup> :		1	Packaged VAV				
Number of Systems  Max Allowed Heating Capacity <sup>1</sup>		200,000 Btu/	'hr				
Minimum Heating Efficiency <sup>1</sup>		3.20 COP					0
Max Allowed Cooling Capacity		192,000 Btu/	192,000 Btu/hr				
Cooling Efficiency <sup>1</sup>		10.6 EER	······································				
Duct Location/ R-Value		Attic, Roof In	s/4.2				
When duct testing is required, submit MECH-4A & MECH-4-HERS		No	No				
Economizer		Diff. Temp (I	Diff. Temp (Integrated)				
Thermostat		Setback Req	Setback Required				
Fan Control		Variable Spe	ed				
					FIELD INS	<del></del>	RGY CHECKLIST
		1	nspection (	Criteria	Pass	Fail - D	escribe Reason <sup>2</sup>
Equipment <sup>2</sup>			HP C-2				
Item or System Tags		HP C-2			1		
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		HP C-2 Packaged V	4V				
Item or System Tags (i.e. AG-1, RTU-1, HP-1) Equipment Type <sup>3</sup> :			4V				
Equipment <sup>2</sup> Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type <sup>3</sup> : Number of Systems Max Allowed Heating Capacity		Packaged V					<del></del>
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type <sup>3</sup> : Number of Systems Max Allowed Heating Capacity	,1	Packaged V			0		
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type <sup>3</sup> : Number of Systems Max Allowed Heating Capacity Minimum Heating Efficiency <sup>1</sup>		Packaged V. 1 200,000 Btu	'hr				
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type <sup>3</sup> : Number of Systems Max Allowed Heating Capacity Minimum Heating Efficiency <sup>1</sup> Max Allowed Cooling Capacity		Packaged V.  1 200,000 Btu 3.20 COP	'hr				0 0
Item or System Tags (i.e. AC-1, RTU-1, HP-1)  Equipment Type <sup>3</sup> :  Number of Systems  Max Allowed Heating Capacity  Minimum Heating Efficiency <sup>1</sup> Max Allowed Cooling Capacity  Cooling Efficiency <sup>1</sup> Duct Location/ R-Value	,1	Packaged V.  1 200,000 Btu 3.20 COP 192,000 Btu	thr thr				
Item or System Tags (i.e. AC-1, RTU-1, HP-1)  Equipment Type <sup>3</sup> :  Number of Systems  Max Allowed Heating Capacity  Minimum Heating Efficiency <sup>1</sup> Max Allowed Cooling Capacity  Cooling Efficiency <sup>1</sup> Duct Localion/ R-Value  When duct testing is required,	,1	Packaged V.  1  200,000 Btu  3.20 COP  192,000 Btu  10.6 EER	thr thr		0		0 0 0 0
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type <sup>3</sup> : Number of Systems Max Allowed Heating Capacity Minimum Heating Efficiency <sup>1</sup> Max Allowed Cooling Capacity Cooling Efficiency <sup>1</sup> Duct Location/ R-Value When duct testing is required,	,1	Packaged V.  1 200,000 Btu. 3.20 COP 192,000 Btu. 10.6 EER Attic, Roof In	/hr /hr /s / 4.2		0 0 0 0 0		
Item or System Tags (i.e. AC-1, RTU-1, HP-1) Equipment Type <sup>3</sup> : Number of Systems Max Allowed Heating Capacity Minimum Heating Efficiency <sup>1</sup> Max Allowed Cooling Capacity Cooling Efficiency <sup>1</sup> Duct Location/ R-Value When duct testing is required, and MECH-4A & MECH-4-HERS	,1	Packaged V.  1 200,000 Btu 3.20 COP 192,000 Btu 10.6 EER Attic, Roof In	thr thr s / 4.2 ntegrated) ruired		0 0 0 0		0 0 0 0 0





## ORDIZ MELBY

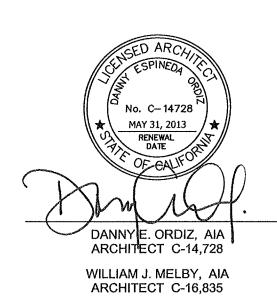
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PTN # 63321-112

NEW ELEMENTARY SCHOOL 9801 HIGHLAND KNOLLS DR BAKERSFIELD CALIFORNIA 93306

NEW MIDDLE SCHOOL 4115 VINELAND ROAD BAKERSFIELD CALIFORNIA 93306

FOF

BAKERSFIELD CITY SCHOOL DISTRICT 1300 BAKER STREET BAKERSFIELD CALIFORNIA

93305

	MARK	DATE	DESCRIPTION
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TITLE 24
BUILDING "C"

SHEET IDENTIFICATION NUMBER

M-518