

Clear-Wall Corporation Phone: (831) 247-9656 Fax: (415) 520-1119

Energy-Control Window Film - Energy Audit Request Form

(Numbers in parentheses refer to Notes at end of form)

Clear-Wall Representative:

Pages 1 and 2: Information provided by Building Contact

	Name of Building	Building Contact Name				
Building Information	Building Address	Building Contact Phone				
	City – State – Zip	Building Contact Email				
DOE-2 Model	Nearest Large City Arcata Bakersfield Daggett Fresno Long Beach Los Angeles Sacramento San Diego San Francisco Santa Maria					
	Type of Building (choose from list at bottom of page 2):	Approx year building was built:				
General	Total Building Floorspace Area (sqft): (total of all floors)	Number of Stories/Floors: <u>Approximate Bldg. Dimensions:</u>				
	Building Rotation from True North/South/East/West: degrees (for example, if "North" side of building actually faces NE, rotation is 45 degrees, if NW - 45 deg) East - West (FT) North - South (FT)					
	Method A (*)	Method B (*)				
Choose Method A or B (*)	Annual Average Electricity Cost per kilowatt hour:	Electricity Cost per kilowatt hour : Electricity Cost per KW Demand :				
Utility Rates	Electric Utility Company Electric Rate Schedule					
And Annual Energy Costs	Natural Gas Cost per therm :	Fuel Oil Cost per gallon :				
	Annual Costs for: Electricity \$ Natural Gas \$	Fuel Oil \$				
Temperatures	Heating Temperature: Day Night Cooling	Temperature: Day Night				
	Heating Times: Day Night Cooli	ing Times: Day Night				
General Comments:						



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Energy-Control Window Film Energy Analysis Request Form

(Numbers in parentheses refer to Notes at end of form)

Pages 1 and 2: Information provided by Building Contact

	Check appropriate air distribution system type (check one only) (if more than one type of system, check most prevalent)					
HVAC System	☐ Variable Volume ☐ Constant Volume with reheat ☐ Powered Induction Units					
	Estimate of ventilation rate: cfm per person	☐ Check box if air-side economizer is in use				
_ 	Check appropriate equipment types:					
11		tric Boilers				
Heating System		e ☐ Room Heat Pump				
	☐ Central Heat Pump ☐ Gas Heat Pump Hot water reset used? Yes / No					
	(check one only)	procating or Screw				
Cooling System		☐ Double Bundle ☐ Gas Absorption ☐ Central Direct Expansion (DX) Units				
-,o.cm	☐ Packaged Terminal Units (Rooftd	op Units)				
	Cooling Towns Form	ollor				
	Cooling Tower Fans None Centrifugal Prop (check one only)	eller				
	Number & Size (tons) of Chiller(s) Estimate of Cl	hiller kw/ton (full load)				
	Chilled water reset used? Yes ☐ / No ☐ Thermal	Storage in Use? Yes ☐ / No ☐				
System	n Comments:					
Building ty	types:					
	Large Office - Floor space greater than 50,000 square	8. Hotel / Large Lodging				
	feet, more than 2 floors. Small Office - Floor space 5 000 to 50 000 square feet	9. Motel / Small Lodging 10. Large Retail - Floor space greater than 50 000 square.				
2.	Small Office - Floor space 5,000 to 50,000 square feet, 1 or 2 floors	 Large Retail - Floor space greater than 50,000 square feet 				
	College	11. Small Retail - Floor space 1,000 to 50,000 square feet				
	High School	12. Sit-Down Restaurant				
	Primary School	13. Fast Food Restaurant				
	Hospital Nursing Home	14. Grocery Store15. Warehouse				
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Energy-Control Film Energy Analysis Input Form

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Page 3: Complete as much as possible. To be confirmed by Clear-Wall or Local Contractor prior to installation.

		North (2)	East (2)	South (2)	West (2)			
Envelope	Windows Shaded by an Adjacent Building (3)	Yes ☐ / No ☐	Yes ☐ / No ☐	Yes ☐ / No ☐	Yes ☐ / No ☐			
	Window Area (Show value even if film is not to be applied) (4)	Sq Ft	Sq Ft	Sq Ft	Sq Ft			
	Film to be applied to this exposure? (Check Yes or No)(4)	Yes ☐ / No ☐	Yes ☐ / No ☐	Yes ☐ / No ☐	Yes ☐ / No ☐			
	Amount of overhang shading window or amount window is recessed in from Building Exterior (5)	Ft	Ft	Ft	Ft			
	Window Shading Used (Drapes or Blinds) (6)	Yes 🗌 / No 🗌	Yes 🗌 / No 🗌	Yes 🗌 / No 🗌	Yes □ / No □			
		If blinds or drapes are used, indicate approximate color						
	Window Glass Type (7) (Check appropriate pane thickness, number of panes, glass color, if reflective, and if Low-e windows - Check Low-E type)	□1/8 □ 3/16 □1/4 □3/8 □1/2	□1/8 □ 3/16 □1/4 □3/8 □1/2	□1/8 □ 3/16 □1/4 □3/8 □1/2	□1/8 □ 3/16 □1/4 □3/8 □1/2			
		☐ Single ☐ Double ☐ Triple	☐ Single ☐ Double ☐ Triple	☐ Single ☐ Double ☐ Triple	☐ Single ☐ Double ☐ Triple			
		☐ Clear☐ Gray☐ Bronze☐ Green☐ Blue	Clear Gray Bronze Green Blue	☐ Clear ☐ Gray ☐ Bronze ☐ Green ☐ Blue	☐ Clear☐ Gray☐ Bronze☐ Green☐ Blue			
		Reflective? No Yes	Reflective? No Yes	Reflective? No Yes	Reflective? No Yes			
		☐ Low-E ☐ Hi Perf Low-E	☐ Low-E ☐ Hi Perf Low-E	☐ Low-E ☐ Hi Perf Low-E	☐ Low-E ☐ Hi Perf Low-E			
		VLT	VLT	VLT	VLT			
			<u> </u>	<u> </u>	<u> </u>			
Concerns to be addressed & other comments:								



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NOTES:

- (1) DOE-2 requires the use of detailed hourly weather information. Only a limited number of cities collect this necessary information, so weather data from a nearby city may need to be used. Enter the name of the nearest large city so that the person creating the model of the building will know which weather data file to use from the limited list of cities available.
- (2) For exposures that do not face true N, S, E or W divide the window square footage evenly between the appropriate adjacent N, S, E or W exposures. For example, for a SW exposure, include half of the SW square footage in the S column and half of the SW square footage in the W column.
- (3) If there is a building that shades one or more of the exposures for the building being analyzed, check yes where appropriate. For example, if there is a building to the East that shades all or most of the modeled building, then you would check yes under East. To shade all or most of an exposure, the adjacent building will need to be of equal height (number of floors). Check yes only if more than 1/2 of the modeled building's exposure is substantially shaded during the day.
- (4) Enter the area for all windows on each exposure, even if film is not to be applied to a particular exposure. Indicate which exposures are to have film applied by circling Yes or No.
- (5) The "window setback" indicates that the window is either setback into the building from the building exterior (recessed into the building) or that there is an overhang above the window that shades the window.
- (6) Indicate whether interior window shading is used (drapes, curtains, or blinds) for each exposure.
- (7) For the windows on each exposure, indicate precisely what type of windows exist by circling the appropriate: pane thickness, number of panes, whether clear or tinted (and color of tint), whether reflective, and if high performance solar control lower or standard low-e coating is used.
- (8) Indicate which films are to be used in the energy analysis, such as N1020, R20, R35 etc.
- (9) Indicate the total amount of film to be installed. This area should match the window area that is to be filmed for all exposures from page 3 of the form. Check to make sure both totals match.
- (10) Indicate the installed price per square foot for each film. Be sure to include the effect of any utility rebate in this cost. For example, if your quote is \$3.50 per square foot, but a utility rebate of \$0.50 per square foot will be in effect, show \$3.00.
- (11) Indicate the total quote for each film, installed. Multiply the total film square footage by the film cost per square foot for each film.