

Energy-Control Window Film - Energy Audit Request Form

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

Pages 1 and 2: Information provided by Building Contact

Building Information	Building Name:	Building Contact Name:	
	Building Address:	Building Contact Phone and E-mail: Ph: E-mail:	
	City – State – Zip Nearest Large City (1):	Name of Person Completing Form (if different from Building Contact above): Ph: E-mail:	
General	Type of Building (choose from list at bottom of page 5):		Approx year building was built:
	Total Building Floorspace Area (sqft): (total of all floors)		Number of Stories/Floors:
	Building Rotation from North/South/East/West: degrees (2)		
Utility Rates And Annual Energy Costs Choose Method A or B (*)	Method A (*) Annual Average Electricity Cost per kilowatt hour (total annual electricity \$, including taxes and surcharges, divided by total annual kwhr): \$		Method B (*) Electricity Cost per kilowatt hour: \$ Electricity Cost per KW Demand : \$
	Optional information (Elec. Company and Rate Schedule): Electric Utility Company: Electric Rate Schedule:		
	Natural Gas Cost per therm: \$		Fuel Oil Cost per gallon: \$
Annual Costs for: Electricity: \$ Natural Gas: \$ Fuel Oil: \$			
Thermostat Settings	Heating Season Temperature: Day °F Night °F		
	Cooling Season Temperature: Day °F Night °F		

Energy-Control Film Energy Analysis Input Form

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

Pages 3 and 4: Information Gathered by TGC

Window Information	Exposure / Orientation Choose only one box per column. Use additional sheets if needed (3)	N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/>	N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/>	N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/>	N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/>
	Windows Shaded by an Adjacent Building (4)	Yes <input type="checkbox"/> / No <input type="checkbox"/>	Yes <input type="checkbox"/> / No <input type="checkbox"/>	Yes <input type="checkbox"/> / No <input type="checkbox"/>	Yes <input type="checkbox"/> / No <input type="checkbox"/>
	Window Area (Show value even if film is not to be applied) (5)	Sqft Film applied to this exposure ? Yes <input type="checkbox"/> / No <input type="checkbox"/>	Sqft Film applied to this exposure ? Yes <input type="checkbox"/> / No <input type="checkbox"/>	Sqft Film applied to this exposure ? Yes <input type="checkbox"/> / No <input type="checkbox"/>	Sqft Film applied to this exposure ? Yes <input type="checkbox"/> / No <input type="checkbox"/>
	Window Setback (6)	Overhang: _____ ft - or - Recess: _____ ft	Overhang: _____ ft - or - Recess: _____ ft	Overhang: _____ ft - or - Recess: _____ ft	Overhang: _____ ft - or - Recess: _____ ft
	Interior Window Shading (7)	Yes <input type="checkbox"/> / No <input type="checkbox"/>	Yes <input type="checkbox"/> / No <input type="checkbox"/>	Yes <input type="checkbox"/> / No <input type="checkbox"/>	Yes <input type="checkbox"/> / No <input type="checkbox"/>
	If blinds or drapes are used, indicate approximate color: Light <input type="checkbox"/> / Medium <input type="checkbox"/> / Dark <input type="checkbox"/>				
	Window Glass Information (8)	<input type="checkbox"/> 1/8 <input type="checkbox"/> 3/16 <input type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2	<input type="checkbox"/> 1/8 <input type="checkbox"/> 3/16 <input type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2	<input type="checkbox"/> 1/8 <input type="checkbox"/> 3/16 <input type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2	<input type="checkbox"/> 1/8 <input type="checkbox"/> 3/16 <input type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2
	No. of Panes	Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/>	Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/>	Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/>	Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/>
Glass Color	Clear <input type="checkbox"/> Gray <input type="checkbox"/> Bronze <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/>	Clear <input type="checkbox"/> Gray <input type="checkbox"/> Bronze <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/>	Clear <input type="checkbox"/> Gray <input type="checkbox"/> Bronze <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/>	Clear <input type="checkbox"/> Gray <input type="checkbox"/> Bronze <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/>	
	Reflective? Yes <input type="checkbox"/> No <input type="checkbox"/>	Reflective? Yes <input type="checkbox"/> No <input type="checkbox"/>	Reflective? Yes <input type="checkbox"/> No <input type="checkbox"/>	Reflective? Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Low-E <input type="checkbox"/> Hi Perf Low-E <input type="checkbox"/>	Low-E <input type="checkbox"/> Hi Perf Low-E <input type="checkbox"/>	Low-E <input type="checkbox"/> Hi Perf Low-E <input type="checkbox"/>	Low-E <input type="checkbox"/> Hi Perf Low-E <input type="checkbox"/>	

Energy-Control Film Energy Analysis Input Form

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Pages 3 and 4: Information Gathered by TGC

<p>Film Types, Project Options, and Quote</p>	<p>List the films or options to include in the report (9) (For example Film A All Sides, Film B All Sides, Film A South Only, Film B South and West Only, etc.)</p> <p>Total Film Square Footage for each option:</p> <p>Price per square foot for each option:</p> <p>List the Total Quote for each option:</p>
<p>Are there utility company rebates for window film in your area? Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know <input type="checkbox"/></p>	

Additional Comments:

NOTES:

- (1) Energy Simulation Program requires the use of detailed hourly weather information. Only a limited number of large cities collect this necessary information, so enter the name of a nearby large city.
- (2) For example, if the "North" side of building actually faces NE, rotation is 45 degrees, if NW -45 deg
- (3) Use additional pages if more than 4 exposures. Only check one box in each column.
- (4) If there is a building that shades one or more of the exposures for the building in question, mark Yes where appropriate. For example, if there is a building to the East that shades all or most of the building being analyzed, then you would mark Yes for East. To shade all or most of an exposure, the adjacent building should be about of equal height, and no more than about a street width's distance away (about 100 ft), depending on the height of the buildings involved. Mark Yes only if more than 1/2 of the building in question exposure is substantially shaded for more than 1 hour during the day. Usually Building Engineering personnel will be able to assist with this question.
- (5) 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 marking Yes or No.
- (6) The "window setback" indicates either: (1) an overhang at the top of the window that shades the window (indicate how far the overhang extends out from the window), or (2) a four-sided recess where the window is recessed in from the building face on all four sides of the window. Indicate the type of "setback" and dimension by completing the appropriate boxes.
- (7) Indicate whether interior window shading is used (drapes, curtains, or blinds) for each exposure. Light color means white; medium is beige, light gray, or tan; dark would be dark brown, dark gray, or black.
- (8) For the windows on each exposure, indicate as closely as possible what type of windows exist by marking the appropriate: pane thickness, number of panes, color of glass, whether reflective, and if a standard low-e coating or high performance solar-control low-e or is present. Use a Low-e detector (available from www.edtm.com) to determine the presence of a low-e coating, if the windows appear clear but have a faint purple, green, orange, or red reflectance from the outside at different angles, which usually indicates the presence of a low-e coating on the glass. Determine the type of low-e coating by using a BTU meter and noting the reduction in incoming solar heat on a sunny day. A high performance low-e window will block 50% or more of the incoming solar heat, a standard low-e window (no tinted glass involved) will block less than 40%.
- (9) Indicate which films or options are to be used in the energy analysis. Try to limit to no more than 3 films. Use a second sheet if necessary to describe options.

Building types:

1. Large Office - Floor space greater than 50,000 square feet
2. Small Office - Floor space 5,000 to 50,000 square feet
3. College
4. High School
5. Primary School
6. Hospital
7. Nursing Home
8. Hotel / Large Lodging
9. Motel / Small Lodging
10. Large Retail - Floor space greater than 50,000 square feet
11. Small Retail - Floor space 1,000 to 50,000 square feet
12. Sit-Down Restaurant
13. Fast Food Restaurant
14. Grocery Store
15. Warehouse