

10 Year Life Cycle Cost Comparison - 1" Mini Blinds vs. EcoSmart Insulating Shades - UVM Res Life - South Quad

Assumptions:							
Added capital costs of EcoSmart Shades	\$	69,500	(\$79,500 less \$10,000 credit on mini blinds)				
Replacement Cost (labor & blind) per mini blind	\$	40.00	in the first year, increasing by COL each year				
Workorder & Purchase Order Overhead Cost	\$	125.00	in the first year, increasing by COL each year				
Replacement Work Orders - 1 multi blind replacement in Dec and 1 in June with rest emergencies - max 20 based on 30 weeks of school							
Cleaning: 5 minutes/shade @ \$12/hr =	\$	765	in the first year, increasing by COL each year				
Replacement mini blinds: Assumed a 5 year life cycle for min blinds rising gradually in first 5 years, then steady state of 20% per year.							
Energy Savings per Berekeley Labs Study	\$	148,389	(9,132 sf @ \$16.30/sf - copy of study attached)				
COL annual increase =		3%	per year				
Annual Operating Cost Detail with Mini Blinds							
Year	Replacement Blinds %	Blinds Replaced	Work orders	Replaced Blinds Cost	PO & WO Cost	Cleaning Blinds Cost	Total Added Maintenance Cost
1	5%	38	6	\$ 1,530	\$ 750	\$ 765	\$ 3,045
2	15%	115	10	\$ 4,728	\$ 1,288	788	\$ 6,803
3	20%	153	15	\$ 6,487	\$ 1,988	812	\$ 9,286
4	25%	191	20	\$ 8,339	\$ 2,725	836	\$ 11,899
5	30%	230	20	\$ 10,282	\$ 2,800	861	\$ 13,943
6	20%	153	20	\$ 7,038	\$ 2,875	887	\$ 10,800
7	20%	153	20	\$ 7,222	\$ 2,950	913	\$ 11,085
8	20%	153	20	\$ 7,405	\$ 3,025	941	\$ 11,371
9	20%	153	20	\$ 7,589	\$ 3,100	969	\$ 11,658
10	20%	153	20	\$ 7,772	\$ 3,175	998	\$ 11,946
Added Maintenance Costs (10 yrs) =				\$ 68,391	\$ 24,675	\$ 8,770	\$ 101,836
10 Year Financial Impact Using EcoSmart Shades vs. Mini Blinds:							
Added Capital Cost EcoSmart Shades				\$ (69,500)			
Financial Cost of EcoSmart Shades				\$ (34,750)	5% of \$69,500 = \$3,475/yr for 10 years		
Energy Savings -				\$ 148,389			
Maintenance Savings				\$ 101,836			
Net 10 year Financial Impact =				\$ 145,975	savings on a \$69,500 investment		