

Cost Comparison 2009 AECC to 2009 IECC
7/7/2011

ATTACHMENT B

Item	IECC 2009 requirement	AECC 2009 requirement	Qty	Unit	Delta Unit	Total Delta
<u>25000 SF Warehouse or Factory Concrete Tilt or CMU (Mass Wall)</u>						
Roof Insulation	R-20 above deck	R-25 above deck	25000	SF	\$ 0.49	\$ 12,250.00
Wall Insulation	R-9.5 ci	R-12.5 ci	15600	SF	\$ 0.20	\$ 3,120.00
Perimeter Floor Insulation	F-0.73	R-10	1300	SF	\$ 0.12	\$ 156.00
Interior Reflectance	None	Required	25000	SF	\$ 0.75	\$ 18,750.00
Vertical Fenestration Glazing	U-0.50	U-0.42	750	SF	\$ 3.00	\$ 2,250.00
Skylights	None	5% of Roof Area	39	EA	\$ 500.00	\$ 19,500.00
Vertical Fenestration Projection Factor	None	PF= 0.50	120	LF	\$ 60.00	\$ 7,200.00
Mechanical			1	EA	Negligible	\$ -
Electrical			1	EA	\$ 7,200.00	\$ 7,200.00
Sub Total Cost						\$ 70,426.00
General Conditions and Design					10%	\$ 7,042.60
Overhead and Profit					10%	\$ 7,746.86
GRT					7.00%	\$ 5,965.08
Total Increased Cost AECC over IECC			25000 SF		\$	91,180.54
					PSF	\$ 3.65
Average Building Cost			25000	SF	\$ 75.00	\$ 1,875,000.00
Increase Percentage AECC over IECC						5%

25000 SF 2 Story Office Steel Framed

Roof Insulation	R-20 above deck	R-25 above deck	12500	SF	\$ 0.49	\$ 6,125.00
Wall Insulation	R-13+ R-7.5 ci	R19+R5ci	14400	SF	\$ 0.15	\$ 2,160.00
Perimeter Floor Insulation	F-0.73	R-10	900	SF	\$ 0.12	\$ 108.00
Vertical Fenestration Glazing	U-0.50	U-0.42	2250	SF	\$ 3.00	\$ 6,750.00
Vertical Fenestration Projection Factor	None	PF= 0.50	325	LF	\$ 60.00	\$ 19,500.00
Interior Reflectance	None	Required	25000	SF	Negligible	\$ -
Electrical			1	EA	\$ 8,500.00	\$ 8,500.00
Mechanical		Disallows electric re-heat, Thus requiring Boiler, Piping,Pumps				\$ 81,000.00
Sub Total Cost						\$ 124,143.00
General Conditions and Design					10%	\$ 12,414.30
Overhead and Profit					10%	\$ 13,655.73
GRT					7.00%	\$ 10,514.91
Total Increased Cost AECC over IECC			25000 SF		\$	160,727.94
					PSF	\$ 6.43
Average Building Cost			25000	SF	\$ 95.00	\$ 2,375,000.00
Increase Percentage AECC over IECC						7%