

vPanel Lightweight Insulation Panel COMPARISON WITH HOLLOW CORE PANEL

Electricity Price

0.2365 \$/kWh

Energy Efficiency Alternatives

Simulation Ref.	Simulation Description	Building Annual Energy Use																						
		LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECTION	PUMPS & AUX	VENT FANS	Total Building Energy Use	Total Building Energy Cost	Total Building Energy Cost/Area	Annual Energy Savings			Floor Area	Additional Cost of Variation	Electricity Saving	Cost Saving	Cost Saving per Area	Payback Period	Chiller Size	AC Load, ft ² /TR	Reduction in Chiller Size	
		kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	\$	\$/ft ²	Wall Area, ft ²	Wall Cost, \$/ft ²	Total Wall Cost, \$	ft ²	\$	kWh	\$	\$/ft ²	Years	TR		%	
SIM 01	Hollow Core Panel	104,499	112,553	0	190,086	36,617	61,914	72,928	578,597	136,838	2.637	21,008	1.000	21,008	51,887		-					148.5	349.4	
SIM 02	vPanel 100 mm	104,499	112,553	0	185,491	35,255	58,772	72,249	568,820	134,526	2.593	21,008	1.376	28,914	51,887	7,906	9,777	2,312	0.045	3.4	140.9	368.2	5.1%	
SIM 02	vPanel 150 mm	104,499	112,553	0	181,322	34,004	55,917	71,698	559,994	132,439	2.552	21,008	2.271	47,708	51,887	26,700	18,603	4,400	0.085	6.1	134.1	387.0	9.7%	
SIM 04	vPanel 200 mm	104,499	112,553	0	179,093	33,327	54,393	71,416	555,282	131,324	2.531	21,008	2.959	62,165	51,887	41,157	23,315	5,514	0.106	7.5	130.4	397.9	12.2%	
SIM 05	vPanel 250 mm	104,499	112,553	0	177,726	32,913	53,461	71,245	552,398	130,642	2.518	21,008	3.647	76,622	51,887	55,614	26,199	6,196	0.119	9.0	128.3	404.6	13.6%	