

				original estimate	bid price		model	saved energy costs / yr	payback, yr	future maintenance by	future replacement by					
<u>envelope</u>																
windows	casement upgrades	2 story avg		\$ 4,000	\$ 4,206.40	/unit, avg	Acadia	N/A	N/A	GHI	GHI for std window only					
		1st floor avg		\$ 2,004.20	/unit, avg											
		kitchen only avg		\$ 513.70	/unit, avg											
	6-over-6 for doublehung, 2x3 for horizontal sliders & casements	between-the-glass grids	1-opening		\$ 16.50	/ea		N/A	N/A	N/A	N/A					
			2-opening	N/A	\$ 33.00	/ea										
		3-opening		\$ 49.50	/ea											
doors	entry	color on outside (burgundy is available), white on inside,		\$ -	\$ -	/ea	Therma-Tru									
	fullview upcharge	2/10x6/8		\$ 100	\$ 79.20	/ea	Provia 397 Provia 399	no data	N/A	member	member					
		3/0x7/0		\$ 100	\$ 90.20	/ea										
		peephole		\$ 10	\$ 15.40	/ea										
	door knocker		\$ 35	\$ 15.40	/ea											
	mailslot		\$ 125	\$ 80.30	/ea											
	kickplate		\$ 65	\$ 116.60	/ea											
	custom opening size	storm doors	fullview		\$ 500	\$ 628.10						/ea				
			self-storing		\$ 500	\$ 929.50						/ea				
	<u>siding & insulation</u>															
	block: siding & 2" polyisocyanurate insulation			max \$ 11,307	\$ 8,961.70	/unit						CertainTeed	\$ 235.50	38.1	GHI	GHI
	frame: 1" polyisocyanurate insulation	end	max	\$ 3,986	\$ 1,438.80	/unit	GHI	\$ 84.90	14.9	GHI	GHI					
min			\$ 1,320.00	/unit												
middle		max	\$ 1,210.00	/unit												
		min	\$ 1,100.00	/unit												
	1-story	end	\$ 1,993	\$ 993.30	/unit	\$ 42.45	19.5									
		middle	\$ 660.00	/unit												
	close existing through-wall A/C opening			\$ 300	\$ 611.60	/ea		no data	N/A							
	insulate trash closet & side over			\$ -	\$ 143.00	/ea		no data	N/A							
<u>HVAC</u>	minisplit heat pump	2 air handlers	e.g. 1BR	\$ 7,915	\$ 6,178.70	/unit	Carrier 38MGQC18-3, (2)40MAQB09B-3	\$ 34.20	180.7	GHI	GHI					
		3 air handlers	e.g. 2-3BR		\$ 6,884.90	/unit	Carrier 38MGQD27-3, (2)40MAQB09B-3, (1)40MAQB12B-3					201.3				
		4 air handlers	e.g. 2-3BR w/addn		\$ 7,982.70	/unit	Carrier 38MGQF36-3, (3)40MAQB09B-3, (1)40MAQB12B-3					233.4				
								average savings above ^ for heating only over 8 pilot units using TD30 methodology								
			HDD methodology, based on average of 3 Heat pump cost bids		\$ 7,015.43	/unit, avg	average	\$ 58.53	119.9							
							minimum	\$ 27.26	257.4							
							maximum	\$ 173.30	40.5							
							savings in end block unit prior to any improvements, based upon experience in one home only	\$ 471.00	14.9							
	subpanel	upgrade to existing electrical panel, if req'd: determined later & added to cost of HVAC		\$ -	\$ 676.50	/unit			N/A							
	main panel			\$ -	\$ 1,100.00	/unit		N/A	N/A							
<u>electrical</u>	digital thermostat		min	\$ 911	\$ 365.42	/unit	Honeywell YTL9160AR1000/U	no data	N/A	GHI	GHI					
	radiant heater & thermostat	bath	brick, frame		\$ 553.30	/ea	Enerjoy 22RPH-4MW-300	no data	N/A	GHI	GHI					
			block	\$ 583	\$ 599.50	/ea	Enerjoy 22RPH-4DMW-300									
		kitchen	brick, frame		\$ 633.60	/ea	Enerjoy 24RPH-4MW-500	no data	N/A	member	member					
			block	\$ 720.50	/ea	Enerjoy 24RPH-4DMW-500										
	exhaust fan & timer or switch	bath		\$ 700	\$ 661.10	/ea	block: American Aldes TTW-110, brick & frame: Broan LP80	no data	N/A	member	member					
		kitchen			\$ 690.80	/ea	Broan 509									
	permits	PGCounty & City		\$ 100	\$ 220.00	/unit		N/A	N/A							