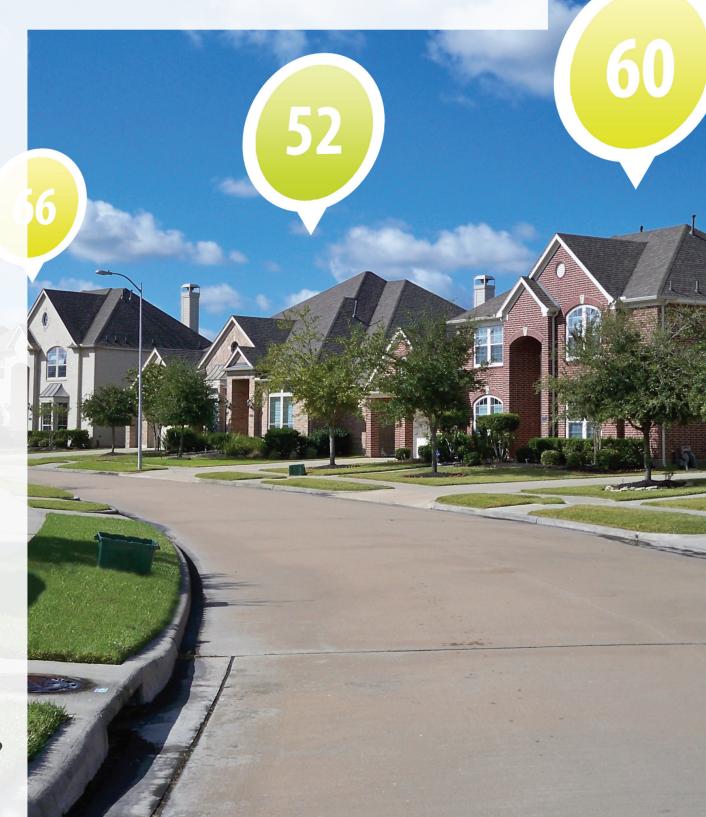


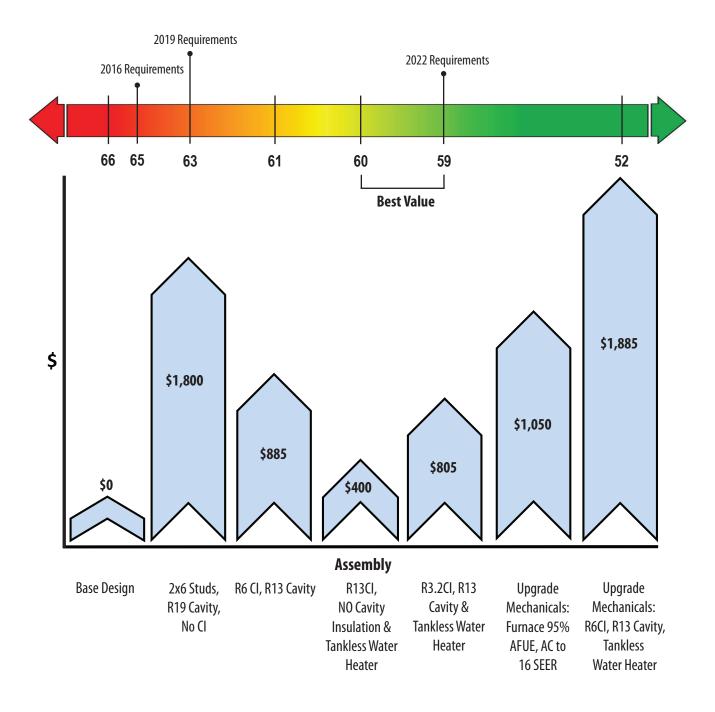
Rmax Envelope First Residential Energy Solution | HERS® Savings Comparison





Building Performance. Energy Savings. Rmax Envelope First. HERS® Savings Comparison

Changes in the residential building codes are driving home builders to re-think their approach to improving HERS® performance. Our experience and analysis show that the Envelope First approach is the most cost effective way to meet current and future codes.



Achieving HERS® of 60 and Below Case Study — Model Homes in Texas using REM/Rate™

Base House: 2800 Sqft - Climate Zone 3

- Walls: 2x4, Grade 1 R13 FG Batt, 70 sheets of structural sheathing (fiber board)
- · Attic: R38 blown FG
- HVAC: Programmable thermostat, sealed ducts, 4CFM/100sf
- Appliances: High efficiency

- · Lighting: 75% CFL
- Mechanicals: 80% AFUE furnace, 14 seer AC, 50 gallon water heater, mechanical ventilation 110W
- Orientation: Worst case Air Leakage: 4 ACH

• HERS® Score: 66

Model	Description	Cost Estimation
	Upgrade furnace to 95% AFUE	\$650
I	Upgrade AC to 16 seer	\$100
	Strategic air sealing, 3 ACH	\$300 \$4.050
	HERS: 59	\$1,050
II	Replace sheathing with R3.2 Rmax	\$555
	Replace water heater with tankless	\$250
	Minimal air sealing, 3 ACH	<u>\$0 </u>
	HERS: 59	\$805
	Remove all stud cavity insulation	(\$2,120)
III	Install 2" (R13) foam sheathing	\$2,270
	Replace water heater with tankless	\$250
	Minimal air sealing, 3 ACH	\$0
	HERS: 60	\$400
	Replace sheathing with R6 foam sheathing	\$885
IV	Minimal air sealing, 3 ACH	<u>\$0 </u>
	HERS: 61	\$885
	Increase studs to 2x6	\$800
	Add FG Batt, R19	\$450
V	Replace water heater with tankless	\$250
	Strategically air seal, 3 ACH	<u>\$300</u>
	HERS: 63	\$1,800

The three lowest cost solutions to approach a HERS® score of 60 include using continuous insulation with structural Polyiso. Cost effective ways to achieve below 60 must include continuous insulation because mechanicals alone are too expensive, see below example. This scenario meets 2022 requirements.

	Replace sheathing with R6 foam sheathing Upgrade AC to 16 seer	\$885 \$100
	Opgrade AC to 16 Seer	\$100
VI	Upgrade furnace to 95% efficiency	\$650
	Replace water heater with tankless	\$250
	Minimal air sealing	<u>\$0</u>
	HERS: 52	\$1,885



Improving Your Design.

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