

Energy Analysis Report

<http://www.cardinalcorp.com/application/energycalc.htm>

Details

Location:
Los Angeles, CA

House Type:
Two or More Floors

Vintage:
Built Before 1990

House Size:
3,000 sq. ft.

Orientation:
East/West

Exterior Shade:
None

Winter - Internal Shade:
1/2 Time

Summer - Internal Shade:
1/2 Time

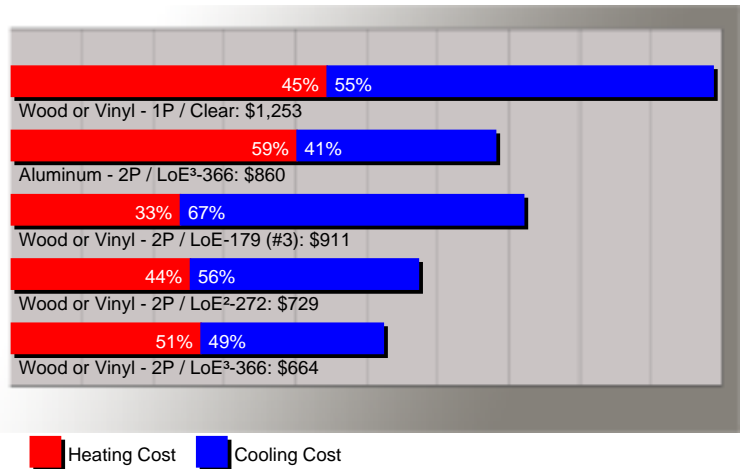
Winter Heating:
Gas

Summer Electric Price:
\$0.12

Winter Gas Price:
\$0.80

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Annual Energy Cost



Wood or Vinyl - 1P / Clear

HEAT: \$558 COOL: \$695 TOTAL: \$1,253 SAVINGS: ---

Aluminum - 2P / LoE³-366

HEAT: \$510 COOL: \$350 TOTAL: \$860 SAVINGS: 31%

Wood or Vinyl - 2P / LoE-179 (#3)

HEAT: \$297 COOL: \$614 TOTAL: \$911 SAVINGS: 27%

Wood or Vinyl - 2P / LoE²-272

HEAT: \$324 COOL: \$405 TOTAL: \$729 SAVINGS: 42%

Wood or Vinyl - 2P / LoE³-366

HEAT: \$341 COOL: \$323 TOTAL: \$664 SAVINGS: 47%

Disclaimers: Building details are consistent with the National Fenestration Rating Council (www.nfrc.org) draft procedure 901: "Guidelines to Estimate the Effects of Fenestration on Heating and Cooling Energy Consumption in Single Family Residences".

The house model assumes that 50% of the windows face to the rear, 30% face the front, and 10% are on each end of the building. Windows on the end are assumed to be shaded by adjacent buildings. Total window area is set to 18% of the conditioned floor area for new houses and 15% for existing.

The analysis uses a thermostat offset to accomplish equal comfort. For windows with clear double pane glass the heating setpoint is 2°F higher than for low-E windows. For windows with high solar gain glass (clear and LoE-178) the cooling setpoint needs to be lowered by 4°F to maintain the same comfort as windows using LoE² or LoE³.