



GAF Savings Report

Project: Jambo's BBQ - Arlington, TX

Prepared By: Titan Contractors
Date: 6/2/2020

PROJECT SUMMARY

Customer Data

Customer: Jambo's BBQ (Dick Brink)
Address: 1724 W. Division, Arlington, TX, 76012

Phone Number:
Email Address: glenn_e_kendall@msn.com

Project Information

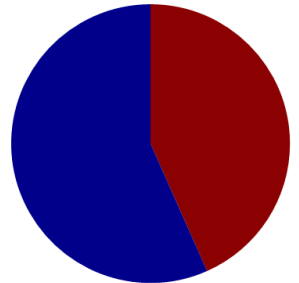
Building Type: Commercial
Location: Arlington, TX
Term of Analysis: 20 Years
Roof Area: 3,200 sq.ft.
Roof Type: Low Slope



Regional Information

ASHRAE Station: Grand Prairie, Grand Prairie Municipal Airport, TX, US (97.05W, 32.70N),

■ Heating Degree Days: 2,314
■ Cooling Degree Days: 3,022
Climate Zone: 3
Electric Company: Sempra - ONCOR
Gas Company: ATMOS ENERGY CORPORATION

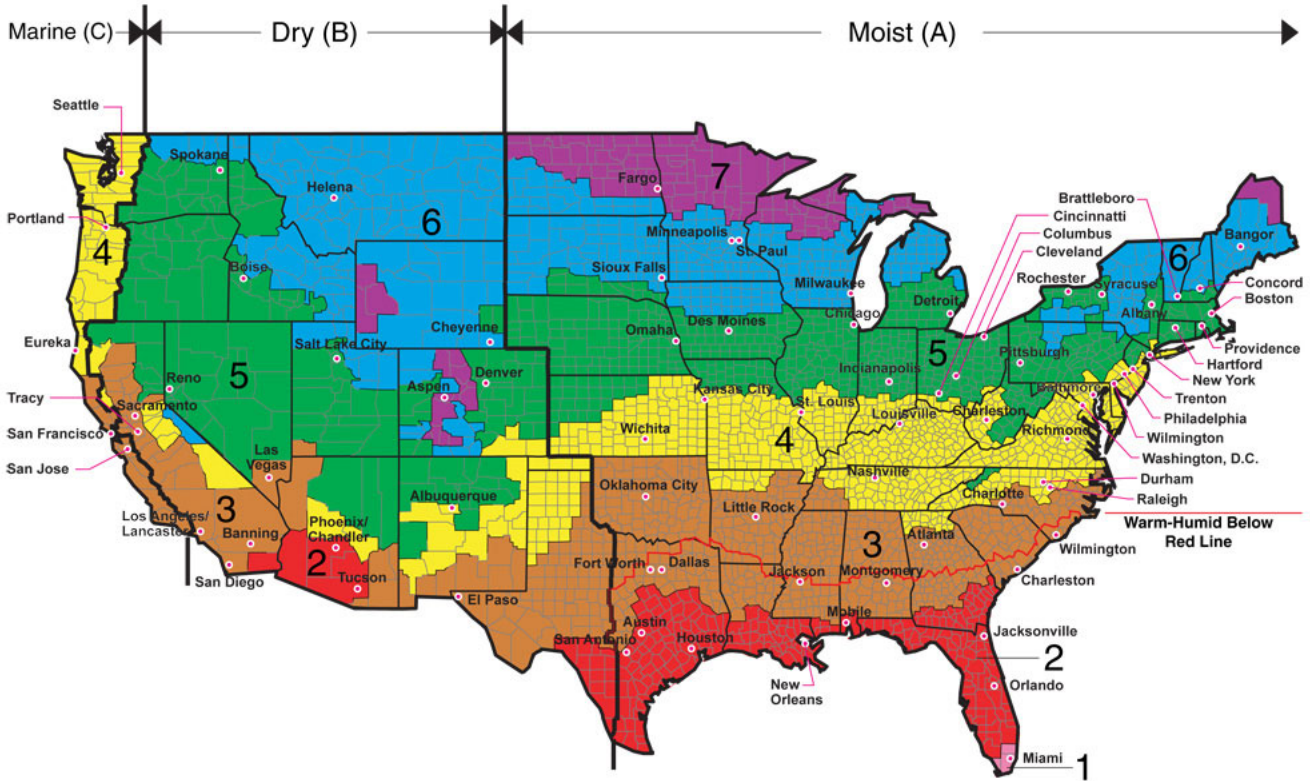




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All of Alaska in Zone 7 except for the following Boroughs in Zone 8: Bethel, Dellingham, Fairbanks, N. Star, Nome North Slope, Northwest Arctic, Southeast Fairbanks, Wade Hampton, and Yukon-Koyukuk

Zone 1 includes: Hawaii, Guam, Puerto Rico, and the Virgin Islands

ASHRAE Alert

Minimum Insulation Levels:

The ASHRAE 90.1 standard (2013) contained updated R-values for commercial roofs. This new updated value mandates a minimum roof insulation level of R-38 in climate zone 3. Requirements in your jurisdiction may vary.

EXISTING EQUIPMENT AND ROOF

Energy Costs and Equipment Efficiencies

Cost of electricity:	\$0.13/kWh
Age of air conditioner:	>10 years
Air conditioner efficiency:	7.80 SEER
Demand charge:	\$10.00/kW
Months charged for peak demand:	12 months
Energy source for heating:	Electricity
Heating energy cost:	\$0.13/kWh
Type of heating system:	Furnace
Age of heating system:	>10 years
Heating system efficiency:	90% AFUE

Current Roof

Roof area:	3,200 sq. ft.
Insulation level:	R-10



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Roof material: Modified Bitumen - With mineral surface capsheet (SBS, APP)
Solar reflectance (SR): 0.15
Infrared emittance (IE): 0.85

PROPOSED ROOF DESIGNS

Proposed Roof Design 1 - TPO Re-roof

Description for Roofing Design TPO Re-roof

Options:

Price \$48,000.00

Total insulation level: R-25 (Additional R-15)

Roof material: Single-Ply-Thermoplastic - Bright White - GAF EverGuard TPO (White)

Solar reflectance (SR): 0.76

Infrared emittance (IE): 0.90



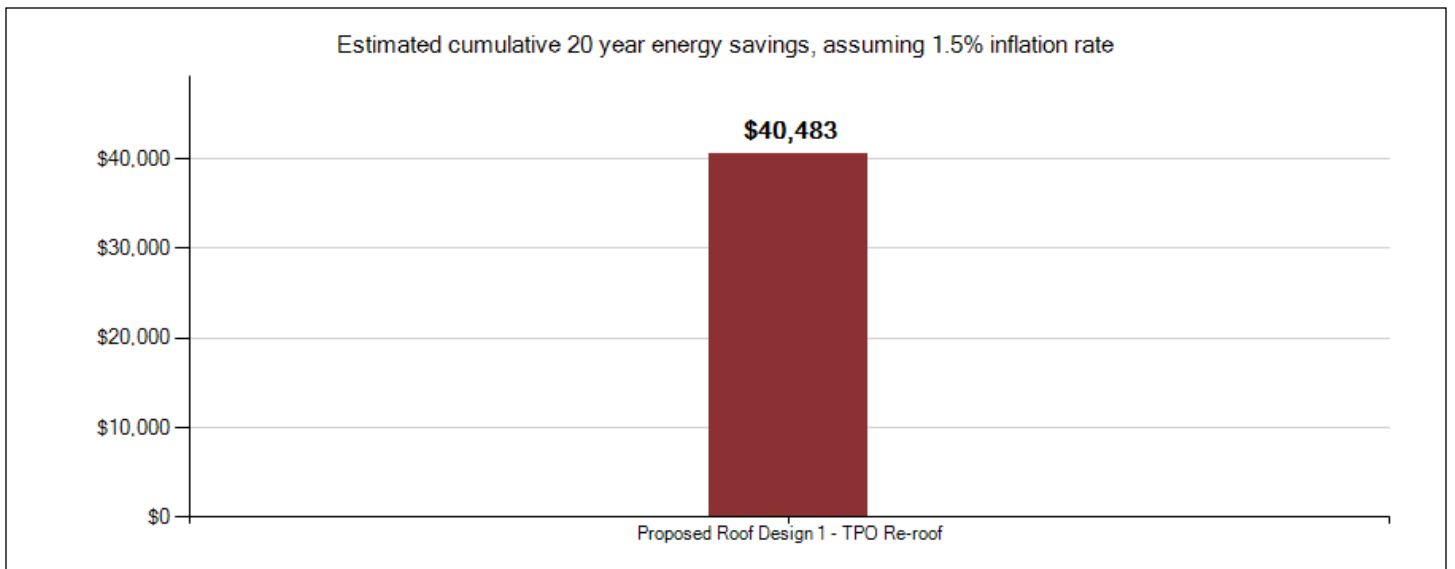
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ENERGY SAVINGS COMPARISON

Roofing Energy Savings

	Proposed Roof Design 1 - TPO Re-roof
Project Cost	\$48,000
Less Total Roofing Rebates	\$0
Net Upfront Cost	\$48,000
Annual Utility Cost Savings	\$1,751
Details of Energy Savings Comparison:	
Total Annual Energy Savings	\$1,751
Cooling energy savings	\$693
Heating energy savings	\$609
Demand savings	\$449
Details of Comparison:	
Solar load for location chosen [Annual Average Btu/ft ² per day]	1,558.8
Cooling load - current roof [Btu/ft ² per day]	13,104
Heating load - current roof [Btu/ft ² per day]	8,685
Cooling load - proposed roof [Btu/ft ² per day]	1,734
Heating load - proposed roof [Btu/ft ² per day]	4,190
Average heat load reduction during cooling season [Btu/ft ² each month]	8.0
Maximum heat load reduction during cooling season [Btu/ft ²]	9.1



The calculations in this report are derived based on user inputted values using the US Dept. of Energy's CoolCalc and CoolCalcPeak and are for comparison purposes only



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The following rebates and incentives are available for your customer. Make sure to include all applicable rebate and incentive programs in your proposal and to highlight the reduced payback period and the increased ROI that these rebates and incentives will provide.

No applicable rebates found.