

D.R. Nelson & Associates, Inc.

Building Science – *Delivered*

Waterside Homes Energy Star® *Plus* Performance¹ Plan Analysis Summary

	“Typical House” Predicted performance of plan built to “Prescriptive” values ² of Ohio Basic Building Code	Waterside Homes The dimensionally identical home built with the Waterside energy package	
Plan/Model	Annual Energy Costs ³	Annual Energy Costs ³	Savings
Bay Harbour I	\$1,662	\$ 1,159	\$503
Bay Harbour II	\$1,888	\$ 1,292	\$596
Captiva	\$2,230	\$1,440	\$790
Catalina	\$2,186	\$1,400	\$786
Catawba	\$1,521	\$1,048	\$473
Nantucket	\$2,155	\$1,430	\$725
Sandpiper	\$1,546	\$1,060	\$486
Sanibel	\$1,666	\$1,129	\$537
Schooner	\$1,658	\$1,121	\$537
Windjammer	\$1,840	\$1,240	\$600

The Waterside Homes energy saving construction package includes;

Ceiling = R-38
Walls = R-18
Windows = U-.34
Foundation Walls=R-10
Crawl Space Walls=R-19
Furnace= +90%AFUE
A/C= 13SEER
and
Nelson Energy Seal® to reduce air leakage.

1. Energy Star *Plus* Homes have a HERS rating of 70 points or less and are at least 25% more energy efficient than an Energy Star Home. For more information go to: www.energystar.gov.
2. Built to values of the Ohio Basic Building Code (OBBC) - International Energy Conservation Code 2003; Table 602.1
3. Predicted Annual Heating/Cooling and Water Heating costs based on 20 year average climate data and:
Electricity – Toledo Edison @ 0.094 \$/kWh
Natural Gas – Columbia Gas @ 1.289 \$/CCF

This information does not constitute any warranty of energy costs or savings.

This analysis was conducted using REMRate v12.4, the computer software program developed for the Energy Star® home program by the United States Environmental Protection Agency and the Department of Energy.

D.R. Nelson & Associates, Inc. is a licensed, certified Rater/Provider for the for the Energy Star® Program.

The energy costs above were calculated by comparing dimensionally identical homes with the values as expressed under worst case solar orientation. Your actual costs may be more or less depending upon such factors as; number of occupants, occupant behavior, temperature settings, window coverings and more.