

# Alterations Worksheet 2015 Washington State Energy Code

## Project Information

Vanderwall Residence
7179 Holly Hill Dr
Mercer Island, WA 98040

## Contact Information

Conard Romano Architects
514 28th Ave E. Seattle 98112
Erik Voris erik@conardromano.com

The Washington State Energy Code requirements for alterations are located in Chapter 5

### Alterations (remodels) do not need to obtain energy credits from Table R406.2

Additions must meet the requirements for new construction. This includes nonconditioned space that is altered to become conditioned space.

**Will the wall cavities be exposed?**  Yes  No

**If yes:** Exposed wall cavities must be insulated -  
2 X 4 wall studs require **R-15** insulation  
2 X 6 wall studs require **R-21** insulation

**Will the roof/ceiling framing cavities or attic be exposed?**  Yes  No

**If yes:** Exposed roof/ceiling assemblies must be insulated -  
Vaulted ceilings: Insulate to the full depth of the framing member while allowing for the minimum 1" ventilated space.  
Flat ceilings: Install R-49 insulation or what the attic space can accommodate based on the roof pitch

**Will the floor framing cavities be exposed?**  Yes  No

**If yes:** Exposed floor cavities must be insulated to R-30

**Are the windows and/or doors being replaced?**  Yes  No

(includes both window or door and frames)

**If yes:** New windows and doors must have an area weighted average U-factor of  $\leq 0.3$

**Will the heating or cooling system be replaced?**  Yes  No

**If yes:** New equipment must meet current requirements and ducts need to be tested

**Will the hot water system be altered?**  Yes  No

**If yes:** New water heating equipment must meet current code requirements

**Are more than 50% of the light fixtures being changed?**  Yes  No

**If yes:** 75% of all lamps must be high efficacy (LED or CFL)