Alterations Worksheet 2015 Washington State Energy Code

Project Information	0.44 4 6=	Contact Inform	nation		
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_	State Energy Code requirement odels) do not need to obtain			-	D
	eet the requirements for new of conditioned space.	construction. This in	ncludes noncor	oditioned space being	
Will the wall cavi	ties be exposed? Ye	s No		CITY OF MERCER ISL	
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					SKO
Will the roof/ceili	ing framing cavities or attic	be exposed?	□ Yes	₽ No	
If yes:	Exposed roof/ceiling assemi Vaulted ceilings:	blies must be insula Insulate to the full while allowing for t	depth of the fra	-	
	Flat ceilings:	Install R-49 insulat accommodate bas		•	
Will the floor fra	ming cavities be exposed?	┌ Yes	1	No	
If yes: Exposed floor cavities must be insulated to R-30					
Are the windows and/or doors being replaced? (includes both window or door and frames) If yes: New windows and doors must have an are				No e U-factor of ≤0.30	
Will the heating	or cooling system be replac	ed? Γ Yes	7	No	
If yes:	New equipment m ducts need to be t	nust meet current retested	equirements ar	d	
Will the hot water system be altered?					
If yes:	New water heating	g equipment must n	neet current co	de requirements	
Are more than 5	0% of the light fixtures bein	g changed?		 No	
If yes:	75% of all lamps	must be high efficac	СУ		

R503.1.1 Building envelope. Building envelope assemblies that are part of the alteration shall comply with Section R402.1.1 or R402.1.4. Sections R402.2.1 through R402.2.11, R402.3.1, R402.3.2, R402.4.3 and R402.4.4.

Exception: The following alterations need not comply with the requirements for new construction provided the energy use of the building is not increased:

- 1. Storm windows installed over existing fenestration.
- 2. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation, 2x4 framed walls shall be insulated to a minimum of R-15 and 2x6 framed walls shall be insulated to a minimum of R-21.
- 3. Construction where the existing roof, wall or floor cavity is not exposed.
- 4. Roof recover.
- 5. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
- 6. Surface-applied window film installed on existing single pane fenestration assemblies to reduce solar heat gain provided the code does not require the glazing fenestration to be replaced.
- R503.1.1.1 Replacement fenestration. Where some or all of an existing fenestration unit is replaced with a new fenestration product, including sash and glazing, the replacement fenestration unit shall meet the applicable requirements for *U*-factor and SHGC in Table R402.1.1.
- R502.1.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the addition shall comply with Sections R403.1, R403.2, R403.3, R403.5 and R403.6.

Exception: The following need not comply with the testing requirements of Section R403.3.3:

- L. Additions of less than 750 square feet.
- 2. Duct systems that are documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in WSU RS-33.
- 3. Ducts with less than 40 linear feet in unconditioned spaces.
- 4. Existing duct systems constructed, insulated or scaled with asbestos,
- R503.1.3 Service hot water systems. New service hot water systems that are part of the alteration shall comply with Section R403.4.
- R503.1.4 Lighting. New lighting systems that are part of the alteration shall comply with Section R404.1.

Exception: Alterations that replace less than 50 percent of the luminaires in a space, provided that such alterations do not increase the installed interior lighting power.

R503.2 Change in space conditioning. Any nonconditioned or low-energy space that is altered to become conditioned space—shall be required to be brought into full compliance with this code.