



STATE OF WASHINGTON

**STATE BUILDING CODE COUNCIL**

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November 2012 Motions for Rule Making Actions

Main Motion: Adopt 2012 Energy Code as proposed in WAC 51-11R and 51-11C; repeal WAC 51-11

Amendment to the main motion:

Adopt Option 1 for Mass Walls with the following modification:

**Table C402.1.2**  
**Opaque Thermal Envelope Assembly Requirements<sup>a</sup>**

CLIMATE ZONE	5 AND MARINE 4		6	
	All Other	Group R	All Other	Group R
<b>Roofs</b>				
Insulation entirely above deck	U-0.034	U-0.031	U-0.032	U-0.031
Metal buildings	U-0.031	U-0.031	U-0.029	U-0.031
Attic and other	U-0.021	U-0.021	U-0.021	U-0.021
<b>Walls, Above Grade</b>				
Mass	<del>U-0.078</del> U-0.090	U-0.078	U-0.078	U-0.071
Metal building	U-0.052	U-0.052	U-0.052	U-0.044
Steel framed	U-0.055	U-0.055	U-0.049	U-0.044
Wood framed and other	U-0.054	U-0.054	U-0.051	U-0.044
<b>Walls, Below Grade</b>				
Below-grade wall <sup>b</sup>	Same as above grade	Same as above grade	Same as above grade	Same as above grade
<b>Floors</b>				
Mass	U-0.031	U-0.031	U-0.031	U-0.031
Joist/framing	U-0.029	U-0.029	U-0.029	U-0.029

### Slab-on-Grade Floors

Unheated slabs	F-0.528	F-0.510	F-0.434	F-0.424
Heated slabs <sup>c</sup>	F-0.55	F-0.55	F-0.55	F-0.55

<sup>a</sup> Use of opaque assembly *U*-factors, *C*-factors, and *F*-factors from Appendix A is required unless otherwise allowed by Section C402.1.2.

<sup>b</sup> Where heated slabs are below grade, below-grade walls shall comply with the *F*-factor requirements for heated slabs.

<sup>c</sup> Heated slab *F*-factors shall be determined specifically for heated slabs. Unheated slab factors shall not be used.

**Rationale:** Correlates with national standards for mass wall U-values. Eliminates a special exemption for one building type, perceived as giving them industry an unfair advantage. Option 2 would allow single-wythe CMU walls in areas of the state where not currently allowed.