

WASHINGTON STATE BUILDING CODE COUNCIL
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT
TO THE WASHINGTON STATE BUILDING CODE

1. State Building Code to be Amended.

- | | |
|---|--|
| <input type="checkbox"/> International Building Code | <input type="checkbox"/> Ventilation and Indoor Air Quality Code |
| <input type="checkbox"/> International Residential Code | <input type="checkbox"/> International Mechanical Code |
| <input type="checkbox"/> ICC ANSI A117.1 Accessibility Code | <input type="checkbox"/> International Fuel Gas Code |
| <input type="checkbox"/> International Fire Code | <input type="checkbox"/> NFPA 54 National Fuel Gas Code |
| <input type="checkbox"/> Uniform Plumbing Code | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code |
| <input checked="" type="checkbox"/> State Energy Code | |

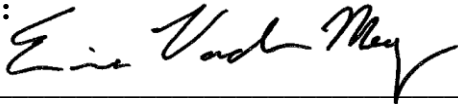
Section 2009 WSEC Section 1412.4.1

Page 97

2. Applicant:

Eric Vander Mey, PE, LEED AP

3. Signed:



Proponent

Principal
Title

2011-02-28
Date

4. Contact Person:

Eric Vander Mey
Name

Principal
Title

Address: 1725 Westlake Avenue N, Suite 300
Seattle, WA 98109

Phone: 206-285-7114 **Fax:** 206-285-7111

5. Proposed Code Amendment (Underline all added words, strike through deleted words) Additional pages may be attached.

Code 2009 WSEC **Section** Section 1412.4.1 **Page** 97

Amend section to read as follows:

1412.4.1 Dampers: Outside air intakes, exhaust outlets and relief outlets serving conditioned spaces shall be equipped with motorized dampers which close automatically when the system is off or upon power failure. Return air dampers shall be equipped with motorized dampers. Stair shaft and elevator shaft smoke relief openings shall be equipped with normally open (fails to open upon loss of power) dampers. These dampers shall remain closed until activated by the fire alarm system or other approved smoke detection system.

EXCEPTIONS:

1. Systems serving areas which require continuous operation.
2. Combustion air intakes.
3. Gravity (nonmotorized) relief dampers are acceptable in equipment with less than 5,000 cfm total supply flow when in buildings less than three stories in height.
4. Type 1 Grease hoods exhaust.
5. In Group R occupancies gravity (nonmotorized) exhaust dampers are acceptable in exhaust systems with less than 500 cfm of total exhaust flow.
6. In Group R occupancies gravity (nonmotorized) outside air intake dampers for wholehouse fan systems are acceptable where allowed by International Mechanical Code with Washington State Amendments Section 403.8.5.2.

Dampers installed to comply with this section, including dampers integral to HVAC equipment, shall have a maximum leakage rate when tested in accordance with AMCA Standard 500 of:

- a. Motorized Dampers: 10 cfm/ft² of damper area at 1.0 inch w.g.
- b. Nonmotorized Dampers: 20 cfm/ft² of damper area at 1.0 inch w.g., except that for nonmotorized dampers smaller than 24 inches in either dimension: 40 cfm/ft² of damper area at 1.0 inch w.g.

Drawings shall indicate compliance with this section.

6. Background information on amendment.

NOTE: State-wide and emergency state-wide amendments to the state building code should be based on one of the following criteria:

- (1) The amendment is needed to address a critical life/safety need.
- (2) The amendment is needed to address a specific state policy or statute.
- (3) The amendment is needed for consistency with state or federal regulations.
- (4) The amendment is needed to address a unique character of the state.
- (5) The amendment corrects errors and omissions.

This amendment is needed to correct errors and omissions from incorporating Group R occupancies into Chapter 14 of the 2009 WSEC. Change is needed to be consistent with the 2009 SMC requirements for dampers in Group R duct systems.

Economic Impact Worksheet

(Required for statewide amendment requests. Attach supporting documentation.)

Code References: 2009 WSEC Section 1412.4.1 Title: Principal

Proponent: Eric Vander Mey Phone: 206-285-7114 Date: 2011-02-28

Part I ❖ Amendment Benefit:

PROBLEM(S) ADDRESSED: Error and Omission in 2009 WSEC amendment clarifies the existing code language

PRIMARY REASON FOR AMENDMENT: (check one only)

- Protect public health, safety and welfare
- Reduce cost
- "Manage risk" for government
- Mandate from legislation or courts
- Code change
- Other Error and Omission in Existing Code Language

TYPE OF BENEFITS PROJECTED: (check all that apply)

- Saves lives/reduces injuries
- Protects/improves long-term health
- Reduces construction cost:
 - Over existing code requirement
 - Canceling new code requirement
 - Off-setting new code requirement
- Increases construction alternatives
- Saves energy
- Protects environment
- Increases accessibility
- Reduces regulation
- Reduces government enforcement cost
- Clarifies/improves existing code
- Protects property loss/damage
- Other _____

Part II ❖ Amendment Impacts:

TYPES OF CONSTRUCTION: New Construction Remodeling/Tenant Improvement/Repair

COMPLETE TABLE FOR EACH BUILDING TYPE CHECKED (See reverse for instruction on items ^a through ^e)

√	Building Type	Construction ^a 1st Cost		Enforcement ^b		Owner ^c Ongoing		Other		Supporting data attached
		C/S ^d	Degree ^e	C/S ^d	Degree ^e	C/S ^d	Degree ^e	C/S ^d	Degree ^e	
	Residential									✓
	Single family	NA	NA	NA	NA	NA	NA	NA	NA	
√	Multi-family	-	1	-	1	-	1	NA	NA	
√	Commercial/Retail	NA	NA	NA	NA	NA	NA	NA	NA	
√	Industrial	NA	NA	NA	NA	NA	NA	NA	NA	
√	Government/Utilities	NA	NA	NA	NA	NA	NA	NA	NA	
	Other: _____									

OTHER EFFECTS:

Evaluate by number scale 0-3 (0=none, 3=significant)

- 0 Likelihood for litigation
- 0 Decrease public cooperation
- 0 Disadvantage small business
- Other _____

Evaluate by letter code

- (Spec, Custom, Factory, Remodel, Manufact., Other, NA)
- NA Advantage one industry
- NA Disadvantage one industry

Part III ❖ Comments and Recommendations:

Evaluate each by number scale 0-3 (0=none, 3=significant)

- 0 Difficulty to Enforce
- 0 Costs exceed Benefits
- 0 C/S Confidence level
- 3 Cost of not adopting amendment
- 0 Degree of TAG controversy

Evaluate Yes or No (circle one)

- Yes Were alternative solutions considered
- No Recommend further benefit/impact analysis
- No Recommend future benefit/impact review