

**DIVISION OF BUILDING SAFETY
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT
TO STATE ADOPTED CODES
2012 Code Adoption Cycle**

Log# _____
(Office Use Only)

PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE

1. State Building Code to be Amended:

<input type="checkbox"/> International Building Code	<input type="checkbox"/> International Energy Conservation Code
<input checked="" type="checkbox"/> International Residential Code	<input type="checkbox"/> International Mechanical Code
<input type="checkbox"/> International Fuel Gas Code	<input type="checkbox"/> National Electrical Code
<input type="checkbox"/> International Existing Building Code	<input checked="" type="checkbox"/> IDAPA 07.03.01, 004, 02, g.
<input type="checkbox"/> Idaho State Plumbing Code	<input type="checkbox"/>

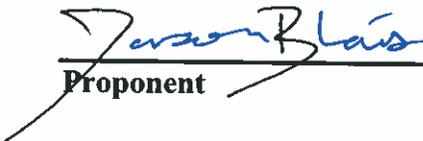
Section: Table R302.1(1)

Page: 48

2. Applicant Name (Specific local government, organization or individual):

Jason Blais, City of Boise

3. Signed:

	City of Boise Building Official	6-25-14
Proponent	Title	Date

4. Designated Contact Person:

Jason Blais	City of Boise Building Official
Name	Title

Address: City of Boise – Planning & Development Services
P.O. Box 500
Boise, ID 83701

384-3807		
Office Phone	Cell	Fax

E-mail address: jblais@cityofboise.org

5. Proposed Code Amendment. Use ‘legislative format’ including both old and new language. See instructions on page five for specific details. Please attach a separate sheet for each separate proposal.

2012 IRC	Table R302.1(1)	48
Code	Section	Page

Please note number of additional pages: 2

Amend IDAPA 07.03.01, 004, 02, g. that amends IRC Table R302.1(1) as follows:

g. IRC Table R302.1(1) Exterior Walls – delete the figures contained in the last column of the table under the heading Minimum Fire Separation Distance for the “Walls” and “Projections” elements, and replace entire Table including amendments in accordance with the following:

Minimum Fire Separation Distance
Walls (fire-resistance rated): < Three (3) Feet
Walls (not fire-resistance rated): ≥ Three (3) Feet
Projections (fire-resistance rated): < Three (3) Feet
Projections (not fire-resistance rated): ≥ Three (3) Feet

**TABLE R302.1(1)
EXTERIOR WALLS**

EXTERIOR WALL ELEMENT		MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour-tested in accordance with ASTM E 119 or UL 263 with exposure from both sides	< 5 <u>3</u> feet
	Not fire-resistance rated	0 hours	≥ 5 <u>3</u> feet
Projections	Fire-resistance rated	1 hour on the underside	≥ 2 feet to < 5 <u>3</u> feet
	Not fire-resistance rated	0 hours	≥ 5 <u>3</u> feet
Openings in walls	Not allowed	N/A	< 3 feet
	25% maximum of wall area	0 hours	3 feet ≥ 3 feet to < 5 feet
	Unlimited	0 hours	5 feet
Penetrations	All	Comply with Section R302.4	< 5 <u>3</u> feet
		None required	≥ 5 <u>3</u> feet

For SI: 1 foot = 304.8 mm.

N/A = Not Applicable.

Supporting Data for Statewide Amendment Proposals. This information is required for all statewide amendment proposals. Attach supporting documentation, as necessary; incomplete proposals will not be accepted.

The governing boards require supporting data on any amendment proposal to show:

1. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
2. The intended effect – See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
3. The potential impacts or benefits to business – See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
4. The potential impacts on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.
5. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance.

Part I ♦ Background information on amendment.

Code references: Table R302.1(1)

Title: Exterior Walls

Related Codes: None

(Does this amendment change other related codes?)

Proponent: Jason Blais

Phone: 384-3807

Date: 6/25/14

NOTE: Amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- (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.

Part II ♦ Amendment Benefit:

PROBLEM(S) ADDRESSED (Describe the intended effect of the proposed code amendment):

The 2012 International Residential Code has now created two tables in the code so the applicable table reference needs correction. This IDAPA rule amendment also needs updating to the table for openings in walls and for penetrations to be consistent with amended minimum fire separation distance requirements for walls and projections. Currently as written, a building would not need a wall rating at 3' from the property line but would need protected penetrations at less than 5 feet. Requirements for openings in walls also need clarification. For consistency, additional portions of the table need to be amended accordingly to the 3 feet (equal to, less than, greater than) thresholds as other elements within the table have been.

This proposal has been reviewed and discussed in the Code Collaborative. The group decided that all would be better served if the amendment included the entire table for reference to eliminate ambiguity.

PRIMARY REASON FOR AMENDMENT: (Describe how the amendment meets one of the criteria listed above)

The current amended table omits needed language for openings in walls and for penetrations to correlate with the amended minimum fire separation distance for walls and projections. This amendment brings consistency in application for all exterior wall elements listed in Table R302.1(1) not just for walls and projections. Replicating the entire table with amendments for reference has also been suggested by the Code Collaborative to reduce ambiguity. Reference further explanation for amendment need on previous page under the "Problem(s) Addressed" section.

TYPE OF BENEFITS PROJECTED:

Part III ♦ Amendment Impacts or Benefits:

TYPES OF CONSTRUCTION: New Construction Alteration/Tenant Improvement/Repair
 Residential-Single Family Residential-Multi Family Commercial Industrial

List businesses/industries affected by amendment:

Manufacturers: _____
 Specific Construction Contractors & Trades: Building contractors / Drafters / Designers
 Construction Supply Industry: _____
 Specialty Trades: _____
 Types of Buildings: _____
 Fire Protection Industry: _____

Types of Services Required:

Reporting: Brief Description _____
 Record Keeping: Brief Description _____
 Other: Brief Description _____
 Indirect Cost to Industry: Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

Part IV ♦ Amendment Costs and Benefits

Building Type	Construction ¹				Enforcement ²			Operations & Maintenance ³		
	Co sts	% impact ⁴	Benefits ⁵	Costs	% impact	Benefits	Costs	% impact	Benefits	
Residential	∅	∅	Yes-	∅	∅	Yes-	∅	∅	∅	
Single family	∅	∅	Clarifies	∅	∅	Clarifies	∅	∅	∅	
Multi-family										
Commercial/ Retail										
Industrial										
Institutional										

1 \$ / square foot of floor area or other cost. Attach data. **Construction** costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.
 2 Cost per project plan. Attach data. **Enforcement** costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.
 3 Cost to building owner/tenants over the life of the project.
 4 Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.
 5 Note sectors with measurable benefit from Part II, including benefits to a) the user, b) the public, c) the industry, and/or d) the economy; use e) for all of the above.

- v. Congregate living facilities (nontransient) with sixteen (16) or fewer occupants; (3-20-14)
- vi. Congregate living facilities (transient) with ten (10) or fewer occupants; or (3-20-14)
- vii. Dwelling units providing day care for twelve (12) or fewer children. (3-20-14)
- d. Delete section 310.5.1 and replace with the following: Care facilities within a dwelling. Care facilities for twelve (12) or fewer children receiving day care or for five (5) or fewer persons receiving care that are within a single-family dwelling are permitted to comply with the International Residential Code. (3-20-14)
- e. Delete footnote (f) contained under Table 2902.1 Minimum Number of Required Plumbing Fixtures, and replace with the following: Drinking fountains are not required for an occupant load of thirty (30) or fewer. (4-4-13)
- f. Delete footnote (g) contained under Table 2902.1 Minimum Number of Required Plumbing Fixtures and replace with the following: For business occupancies, excluding restaurants, and mercantile occupancies with an occupant load of thirty (30) or fewer, service sinks shall not be required. (3-20-14)
- 02. **International Residential Code.** 2012 Edition with the following amendments: (3-20-14)
 - a. Delete exception No. 1 contained under IRC section R101.2 - Scope. (3-20-14)
 - b. Delete exception No. 2 contained under IRC section R101.2 - Scope, and replace with the following: Owner-occupied lodging houses with three (3) or fewer guestrooms shall be permitted to be constructed in accordance with the International Residential Code for One- and Two-family Dwellings. Such occupancies shall be required to install smoke alarms and carbon monoxide alarms in accordance with sections R314 and R315 respectively of the International Residential Code for One- and Two-family Dwellings. (3-20-14)
 - c. Delete item No. 2 contained under the "Building" subsection of IRC section R105.2 - Work exempt from permit, and replace with the following: Fences not over six (6) feet (one thousand, eight hundred twenty-nine (1,829) mm) high may be exempted from the requirement for a building permit in the absence of any other applicable land use regulations governing the installation, height, type or other aspect. (4-7-11)
 - d. Delete item No. 7 contained under the "Building" subsection of IRC section R105.2 - Work exempt from permit, and replace with the following: Prefabricated swimming pools that are not greater than four (4) feet (one thousand, two hundred nineteen (1219) mm) deep. (4-7-11)
 - e. Add the following item No. 11 at the end of the "Building" subsection of IRC section R105.2 - Work exempt from permit: Flag poles. (3-20-14)
 - f. Delete IRC section R109.1.3 and replace with the following: Floodplain inspections. For construction in areas prone to flooding as established by Table R301.2(1), upon placement of the lowest floor, including basement, the building official is authorized to require submission of documentation of the elevation of the lowest floor, including basement, required in section R322. (3-29-10)
 - g. IRC Table R302.1 Exterior Walls -- delete the figures contained in the last column of the table under the heading Minimum Fire Separation Distance for the "Walls" and "Projections" elements, and replace with the following:

Minimum Fire Separation Distance	
Walls (fire-resistance rated):	< Three (3) Feet
Walls (not fire-resistance rated):	≥ Three (3) Feet
Projections (fire-resistance rated):	< Three (3) Feet
Projections (not fire-resistance rated):	≥ Three (3) Feet

**TABLE R301.7
ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS^{b,c}**

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
Rafters having slopes greater than 3:12 with no finished ceiling attached to rafters	$L/180$
Interior walls and partitions	$H/180$
Floors/ceilings with plaster or stucco finish	$L/360$
All other structural members	$L/240$
Exterior walls—wind loads ^a with plaster or stucco finish	$H/360$
Exterior walls with other brittle finishes	$H/240$
Exterior walls with flexible finishes	$H/120^d$
Lintels supporting masonry veneer walls ^e	$L/600$

Note: L = span length, H = span height.

- a. The wind load shall be permitted to be taken as 0.7 times the Component and Cladding loads for the purpose of the determining deflection limits herein.
- b. For cantilever members, L shall be taken as twice the length of the cantilever.
- c. For aluminum structural members or panels used in roofs or walls of sunroom additions or patio covers, not supporting edge of glass or sandwich panels, the total load deflection shall not exceed $L/60$. For continuous aluminum structural members supporting edge of glass, the total load deflection shall not exceed $L/175$ for each glass lite or $L/60$ for the entire length of the member, whichever is more stringent. For sandwich panels used in roofs or walls of sunroom additions or patio covers, the total load deflection shall not exceed $L/120$.
- d. Deflection for exterior walls with interior gypsum board finish shall be limited to an allowable deflection of $H/180$.
- e. Refer to Section R703.7.2.

R301.8 Nominal sizes. For the purposes of this code, where dimensions of lumber are specified, they shall be deemed to be nominal dimensions unless specifically designated as actual dimensions.

**SECTION R302
FIRE-RESISTANT CONSTRUCTION**

R302.1 Exterior walls. Construction, projections, openings and penetrations of exterior walls of dwellings and accessory buildings shall comply with Table R302.1(1); or dwellings equipped throughout with an automatic sprinkler system

installed in accordance with Section P2904 shall comply with Table R302.1(2).

Exceptions:

1. Walls, projections, openings or penetrations in walls perpendicular to the line used to determine the fire separation distance.
2. Walls of dwellings and accessory structures located on the same lot.
3. Detached tool sheds and storage sheds, playhouses and similar structures exempted from permits are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line.
4. Detached garages accessory to a dwelling located within 2 feet (610 mm) of a lot line are permitted to have roof eave projections not exceeding 4 inches (102 mm).
5. Foundation vents installed in compliance with this code are permitted.

R302.2 Townhouses. Each townhouse shall be considered a separate building and shall be separated by fire-resistance-rated wall assemblies meeting the requirements of Section R302.1 for exterior walls.

Exception: A common 1-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Electrical installations shall be installed in accordance with Chapters 34 through 43. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.

R302.2.1 Continuity. The fire-resistance-rated wall or assembly separating townhouses shall be continuous from the foundation to the underside of the roof sheathing, deck or slab. The fire-resistance rating shall extend the full length of the wall or assembly, including wall extensions



**TABLE R302.1(1)
EXTERIOR WALLS**

EXTERIOR WALL ELEMENT		MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour—tested in accordance with ASTM E 119 or UL 263 with exposure from both sides	< 5 feet
	Not fire-resistance rated	0 hours	≥ 5 feet
Projections	Fire-resistance rated	1 hour on the underside	≥ 2 feet to < 5 feet
	Not fire-resistance rated	0 hours	≥ 5 feet
Openings in walls	Not allowed	N/A	< 3 feet
	25% maximum of wall area	0 hours	3 feet
	Unlimited	0 hours	5 feet
Penetrations	All	Comply with Section R302.4	< 5 feet
		None required	5 feet

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N/A = Not Applicable.