

HB

377

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REPRESENTATIVE KEVIN MEYER

HOUSE DISTRICT 30

SPONSOR STATEMENT

HB 377

"An Act relating to an exemption for certain registration and practice requirements for persons preparing drawings or specifications related to the construction of certain buildings."

State law requires that an engineer or architect prepare drawings or specifications for a residence if it is more than two stories high. However, the building codes adopted by the State Fire Marshall and many municipalities require an engineer or architect only if a residence is more than three stories high.

The process of consulting with an engineer or architect adds an unnecessary expense to the construction or renovation of a home. House Bill 377 amends Alaska statute to reflect the standard already present in the adopted codes across the state. HB 377 will allow contractors and homebuilders to build or expand a residence if it is not more than three stories high.

TABLE R301.2.2.4
WALL BRACING ADJUSTMENT FACTORS BY
ROOF COVERING DEAD LOAD^a

WALL SUPPORTING	ROOF/CEILING DEAD LOAD	ROOF/CEILING DEAD LOAD
	15 psf or less	25 psf
Roof only	1.0	1.2
Roof plus one story	1.0	1.1

For SI: 1 pound per square foot = 0.0479 kN/m².

a. Linear interpolation shall be permitted.

R301.2.2.4.1 Height limitations. Wood framed buildings shall be limited to three stories above grade or the limits given in Table R602.10.1. Cold-formed steel framed buildings shall be limited to two stories above grade in accordance with COFS/PM. Mezzanines as defined in Section 202 shall not be considered as stories.

R301.2.2.4.2 Anchored stone and masonry veneer. Buildings with anchored stone and masonry veneer shall be designed in accordance with accepted engineering practice.

Exceptions:

1. In Seismic Design Category D₁, exterior masonry veneer with a maximum nominal thickness of 4 inches (102 mm) is permitted in accordance with Section R703.7, Exception 3.
2. In Seismic Design Category D₂, exterior masonry veneer with a maximum actual thickness of 3 inches (76 mm) is permitted in accordance with Section R703.7, Exception 4.

R301.2.2.4.3 Masonry construction. Masonry construction in Seismic Design Category D₁ shall comply with the requirements of Section R606.11.3. Masonry construction in Seismic Design Category D₂ shall comply with the requirements of Section R606.11.4.

R301.2.2.4.4 Concrete construction. Buildings with above-grade concrete walls shall be in accordance with Section R611, R612, or designed in accordance with accepted engineering practice.

R301.2.2.4.5 Cold-formed steel framing in Seismic Design Category D₁ and D₂. In Seismic Design Category D₁ and D₂ in addition to the requirements of this code, cold-formed steel framing shall comply with the requirements of COFS/PM.

R301.2.3 Snow loads. Wood framed construction, cold-formed steel framed construction and masonry and concrete construction in regions with ground snow loads 70 psf (3.35 kN/m²) or less, shall be in accordance with Chapters 5, 6 and 8. Buildings in regions with ground snow loads greater than 70 psf (3.35 kN/m²) shall be designed in accordance with accepted engineering practice.

R301.2.4 Floodplain construction. Buildings and structures constructed in flood hazard areas (including A or V

Zones) as established in Table R301.2(1) shall be designed and constructed in accordance with Section R323.

Exception: All buildings and structures in identified floodways as established in Table R301.2(1) shall be designed and constructed as stipulated in the *International Building Code*.

R301.3 Story height. Buildings constructed in accordance with these provisions shall be limited to story heights of not more than the following:

1. For wood wall framing, the laterally unsupported bearing wall stud height permitted by Table R602.3(5) plus a height of floor framing not to exceed sixteen inches.

Exception: For wood framed wall buildings with bracing in accordance with Table R602.10.1, the wall stud clear height used to determine the maximum permitted story height may be increased to 12 feet without requiring an engineered design for the building wind and seismic force resisting systems provided that the length of bracing required by Table R602.10.1 is increased by multiplying by a factor of 1.20. Wall studs are still subject to the requirements of this section.

2. For steel wall framing, a stud height of 10 feet, plus a height of floor framing not to exceed 16 inches.
3. For masonry walls, a maximum bearing wall clear height of 12 feet plus a height of floor framing not to exceed 16 inches.

Exception: An additional 8 feet is permitted for gable end walls.

4. For insulating concrete form walls, the maximum bearing wall height per story as permitted by Section 611 tables plus a height of floor framing not to exceed 16 inches.

Individual walls or wall studs shall be permitted to exceed these limits as permitted by Chapter 6 provisions, provided story heights are not exceeded. An engineered design shall be provided for the wall or wall framing members when they exceed the limits of Chapter 6. Where the story height limits are exceeded, an engineered design shall be provided in accordance with the *International Building Code* the overall wind and seismic force resisting systems.

R301.4 Dead load. The actual weights of materials and construction shall be used for determining dead load with consideration for the dead load of fixed service equipment.

R301.5 Live load. The minimum uniformly distributed live load shall be as provided in Table R301.5.

R301.6 Roof load. Roof shall be designed for the live load indicated in Table R301.6 or the snow load indicated in Table R301.2(1), whichever is greater.

R301.7 Deflection. The allowable deflection of any structural member under the live load listed in Sections R301.5 and R301.6 shall not exceed the values in Table R301.7.

TABLE R602.10.1
WALL BRACING

SEISMIC DESIGN CATEGORY OR WIND SPEED	CONDITION	TYPE OF BRACE ^{b,c}	AMOUNT OF BRACING ^{a,d,e}
Categories A and B ($S_s \leq 0.35g$ and $S_d1 \leq 0.33g$) or 100 mph and less	One story Top of two or three story	Methods 1, 2, 3, 4, 5, 6, 7 or 8	Located at each end and at least every 25 feet on center but not less than 16% of braced wall line.
	First story of two story Second story of three story	Methods 1, 2, 3, 4, 5, 6, 7 or 8	Located at each end and at least every 25 feet on center but not less than 16% of braced wall line for Method 3 and 25% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
	First story of three story	Methods 2, 3, 4, 5, 6, 7 or 8	Minimum 48-inch-wide panels located at each end and at least every 25 feet on center but not less than 25% of braced wall line for method 3 and 35% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
Category C ($S_s \leq 0.6g$ and $S_d1 \leq 0.53g$) or less than 110 mph	One story Top of two or three story	Methods 1, 2, 3, 4, 5, 6, 7 or 8	Located at each end and at least every 25 feet on center but not less than 16% of braced wall line for Method 3 and 25% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
	First story of two story Second story of three story	Methods 2, 3, 4, 5, 6, 7 or 8	Located at each end and at least every 25 feet on center but not less than 30% of braced wall line for Method 3 and 45% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
	First story of three story	Methods 2, 3, 4, 5, 6, 7 or 8	Located at each end and at least every 25 feet on center but not less than 45% of braced wall line for Method 3 and 60% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
Category D ₁ ($S_s \leq 1.25g$ and $S_d1 \leq 0.83g$) or less than 110 mph	One story Top of two or three story	Methods 2, 3, 4, 5, 6, 7 or 8	Located at each end and at least every 25 feet on center but not less than 20% of braced wall line for Method 3 and 30% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
	First story of two story Second story of three story	Methods 2, 3, 4, 5, 6, 7 or 8	Located at each end and not more than 25 feet on center but not less than 45% of braced wall line for Method 3 and 60% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
	First story of three story	Methods 2, 3, 4, 5, 6, 7 or 8	Located at each end and not more than 25 feet on center but not less than 60% of braced wall line for Method 3 and 85% of braced wall line for Method 2, 4, 5, 6, 7 or 8.
Category D ₂ or less than 110 mph <i>ANCHORAGE IS D₂</i>	One story Top of two story	Methods 2, 3, 4, 5, 6, 7 or 8	Located at each end and at least every 25 feet on center but not less than 25% of braced wall line for Method 3 and 40% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
	First story of two story	Methods 2, 3, 4, 5, 6, 7 or 8	Located at each end and not more than 25 feet on center but not less than 55% of braced wall line for Method 3 and 75% of braced wall line for Methods 2, 4, 5, 6, 7 or 8.
	Cripple walls	Method 3	Located at each end and not more than 25 feet on center but not less than 75% of braced wall line.

DOES NOT INCLUDE 3 STORIES

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kN/m², 1 mile per hour = 1.609 km/h.

- a. Wall bracing amounts are based on a soil site class "D." Interpolation of bracing amounts between the S_d1 values associated with the Seismic Design Categories shall be permitted when a site specific S_d1 value is determined in accordance with Section 1615 of the *International Building Code*.
- b. Foundation cripple wall panels shall be braced in accordance with Section R602.10.2.
- c. Methods of bracing shall be as described in Section R602.10.3. The alternate braced wall panels described in Section R602.10.6 shall also be permitted.
- d. The bracing amounts for Seismic Design Categories are based on a 15 psf wall dead load. For walls with a dead load of 8 psf or less, the bracing amounts shall be permitted to be multiplied by 0.85 provided that the adjusted bracing amount is not less than that required for the site's wind speed. The minimum length of braced panel shall not be less than required by Section R602.10.3.
- e. When the dead load of the roof/ceiling exceeds 15 psf, the bracing amounts shall be increased in accordance with Section R301.2.2.4. Bracing required for a site's wind speed shall not be adjusted.

Alaska Association of Harbormasters and Port Administrators Deferred Maintenance Funding Summary

List of Communities That Have Accepted Harbor Ownership from the State of Alaska

Location	Facility	Sale Date/Type	*State Funds Already Provided	Cost Est Provided	Funds Required	Contact	Phone Number
Chitna	Oil Spill Response & Seaplane Float	10/8/1998 Bill of Sale	\$ 315,000		\$678,000	Olen Harris	562-1444
Cold Bay	Dock	6/30/1992 Bill of Sale	n/a	Eng Est 5/4/05	\$500,000	Bob Juetner	274-7555
Cordova	Small Boat Harbor	8/03/2003 Bill of Sale	\$ 4,876,000	Est 1/31/2006		Dale Muma	424-6400
Craig	Dock	12/19/2001 Bill of Sale					
	North Cove Small Boat Harbor	6/30/1992 Comm's Deed		Quote 2/1/2006	\$175,000	Michael Kampnich	826-1404
	South Cove Small Boat Harbor	9/14/1995 Comm's Deed	\$ 581,000				
Homer	Small Boat Harbor	4/30/1999 Bill of Sale	\$ 3,605,400	Est 10/2005	\$3,300,000	Steve Dean	235-3160
Juneau	Aurora Small Boat Harbor						
	Don Statter Small Boat Harbor						
	Douglas Dock	4/2/2003 Bill of Sale	\$ 7,119,000	Eng Report 3/04	\$17,100,000	John Stone	586-0291
	Douglas Small Boat Harbor						
	Harris Small Boat Harbor						
Ketchikan	Taku Small Boat Harbor						
	North Douglas Launch Ramp						
	Bar Harbor North	8/11/2004 Bill of Sale					
	Bar Harbor South	5/15/2002 Bill of Sale					
	City Float	1/1/1999 Bill of Sale	\$ 7,876,000	Est 9/1/05	\$13,450,000	Chris Brewton	228-5632
King Cove	Ryus Float	8/11/2004 Bill of Sale					
	Thomas Basin Small Boat Harbor	8/11/2004 Bill of Sale					
King Cove	Old Harbor	3/25/1995 Bill of Sale	\$ 352,000	Eng Est 2/3/06	\$4,592,000	David Bash	497-2237
Klawock	Small Boat Harbor	3/28/2003 Bill of Sale					
	Dock	5/16/1986 Quit Claim Deed	\$ 896,000		\$200,000	John Morris	755-2261
Kodiak	City Float						
	St. Herman's Small Boat Harbor	3/12/1999 Bill of Sale	\$ 7,775,500	Eng Rep 2/02	\$14,900,000	Marty Owen	486-8080
	St. Paul Small Boat Harbor			Update Est 2/06			
	Channel Transient Float						
Old Harbor	Dock	5/20/1993 Bill of Sale			\$1,000,000	Jim Neale	286-2204
	Float	5/20/1993 Bill of Sale	\$ 154,000				
Pelican	Small Boat Harbor & Seaplane Float	9/06/2001 Bill of Sale	\$ 1,451,142	1/30/2006	\$1,040,000	Patty Phillips	735-2202
	North Harbor	12/06/2005 Bill of Sale	\$ 2,500,000		\$4,000,000		
Petersburg	Middle Small Boat Harbor	6/03/2003 Bill of Sale	\$ 3,729,000	Eng Est 2/6/06	\$2,500,000	Jim Stromdahl	772-4688
	South Small Boat Harbor						
Sand Point	Small Boat Harbor	12/2/1992 Bill of Sale	n/a		\$2,100,000	Richard Kochuten, Sr	383-2696
Seldovia	Small Boat Harbor	5/18/2001 Bill of Sale	\$ 2,628,000		\$3,400,000	Ronda Hayes	234-7643
Seward	Small Boat Harbor	3/25/1999 Bill of Sale	\$ 3,134,700	Eng Est 2/06	\$7,693,000	Scott Ransom	224-3138
Sitka	Crescent Harbor (A-D, 1-4)	11/09/2001 Bill of Sale					
	Crescent Harbor (E-F, 5-7)	08/30/2004 Bill of Sale					
	Sealing Cove Small Boat Harbor	08/30/2004 Bill of Sale	\$ 6,468,000	Est 2/1/06	\$4,500,000	Ray Majeski	747-3470
	Thomsen Small Boat Harbor - Old ANB Float	08/30/2004 Bill of Sale					
Skagway	Small Boat Harbor	6/18/1992 Comm's Deed					
	Small Boat Harbor	10/21/2004 Bill of Sale	\$ 1,068,852	Est 1/1/06	\$ 2,575,000	Matthew O'Boyle	983-2628
Tanalek	Oil Spill Response and Ferry Dock	10/8/1998 Bill of Sale	\$ 315,000		\$270,000	Olen Harris	562-1444
Valdez	Small Boat Harbor	12/01/2003 Bill of Sale	\$ 3,013,300	Est 2/1/06	\$2,500,000	Alan Sorum	835-4981
Whittier	Passenger Loading Dock	5/15/2002 Bill of Sale					
	Small Boat Harbor	8/02/2004 Bill of Sale	\$ 2,479,000		\$4,890,000	Mark Earnest	472-2327x113
Wrangell	Fish & Game Float						
	Inner Small Boat Harbor						
	Reliance Small Boat Harbor	8/20/2003 Bill of Sale	\$ 3,492,000	Eng Est 2/2/06	\$6,200,000	Greg Messner	874-3736
	Shoemaker Bay Harbor						
Yakutat	Standard Oil Float						
Yakutat	Small Boat Harbor and Seaplane Float	8/8/2005 Bill of Sale	\$ 526,000	Eng Rep 12/04	\$ 2,295,000	Erving Grass	784-3323

Total State Funding Provided

\$64,354,394

Funding Needed to Complete Repairs

\$99,858,000

Spreadsheet prepared by Alan Sorum on 25 March 2005. Contact: (907) 835-4981
 *Revised by John Stone on Feb. 6, 2006 to show verified cost estimates, 907-586-0294

FISCAL NOTE

STATE OF ALASKA
2006 LEGISLATIVE SESSION

Fiscal Note Number: 1
Bill Version: CSHB 377(L&C)
(H) Publish Date: 3/6/06

Revision Date/Time (Note if correction): _____ Dept. Affected: Commerce
Title: Exemption: Res. Bldg. Drawing & Specs RDU: Corp. Bus & Prof Licensing (117)
Component: Corp. Bus & Prof Licensing
Sponsor: Meyer
Requester: Labor and Commerce Component No.: 2360

Expenditures/Revenues (Thousands of Dollars)

Note: Amounts do not include inflation unless otherwise noted below.

OPERATING EXPENDITURES	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
Personal Services						
Travel						
Contractual						
Supplies						
Equipment						
Land & Structures						
Grants & Claims						
Miscellaneous						
TOTAL OPERATING	0.0	0.0	0.0	0.0	0.0	0.0

CAPITAL EXPENDITURES						
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CHANGE IN REVENUES ()	0.0	0.0	0.0	0.0	0.0	0.0
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FUND SOURCE (Thousands of Dollars)

1002 Federal Receipts						
1003 GF Match						
1004 GF						
1005 GF/Program Receipts						
1037 GF/Mental Health						
1156 Receipt Supported Services						
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0

Estimate of any current year (FY2006) cost: 0.0

Mark this box (X) if funding for this bill is included in the Governor's FY 2007 Budget proposal:

POSITIONS

Full-time						
Part-time						
Temporary						

ANALYSIS: (Attach a separate page if necessary)

This legislation amends AS 08.48.331(a) by making an exemption from certain registration and practice requirements for persons preparing drawings or specifications related to the construction of certain buildings. New funds are not required to implement the provisions of this legislation.

Prepared by: Katherine Mason, Administrative Manager
Division: Corporations, Business and Professional Licensing
Approved by: William C. Noll, Commissioner
Agency: Commerce, Community, and Economic Development

Phone: (907) 465-2572
Date/Time: 2/23/06 3:05 PM
Date: 2/23/2006



DEPARTMENT OF
COMMERCE
COMMUNITY AND
ECONOMIC DEVELOPMENT

Division of Corporations, Business and Professional Licensing

Frank H. Murkowski, Governor
William C. Noll, Commissioner
Rick Urian, Director

**BOARD OF REGISTRATION FOR ARCHITECTS, ENGINEERS
AND LAND SURVEYORS**

February 24, 2006

RE: HB 377

To Whom It May Concern:

The Board of Architects, Engineers, and Land Surveyors has become aware that the Alaska State Legislature is considering modifying AS 08.48.331(a)(6)(C) to allow three-story residences to be exempt from the requirement that they be designed by a registered design professional (Architect & Engineer).

This decision would allow a contractor to build a three-story home without the involvement of a professional architect or engineer.

This decision would put at risk of harm those that the statute (AS 08.48) was created to protect. The design loads on a structure can significantly increase with the addition of a third story. This affects placement of the structure on a lot, foundation, wall, ceiling and roof design, as well as the floor plan, placement of windows, doors, etc.

Special materials and construction techniques not typical to a two-story residence are often required to handle these increased loads. Assuming a contractor would be able to recognize the dangers, properly calculate the loads, and modify the design to prevent a structural failure is a dangerous assumption. Contractors are not required by the State of Alaska to have the education, training, and verification by exam to ensure they are capable of performing this work.

This statute sets forth the requirements for Architects and Engineers to ensure they are competent to design these structures in a manner that is safe for the public.

The Board of Registration for Architects, Engineers, and Land Surveyors (AELS Board) is opposed to the modification of this statute in the interest of public safety.

Sincerely,

Kenneth D. Maynard, Chair
AELS Board
(907) 343-5282
kmaynard@uskh.com



DEPARTMENT OF
COMMERCE
COMMUNITY AND
ECONOMIC DEVELOPMENT

Division of Corporations, Business and Professional Licensing

Frank H. Murkowski, Governor
William C. Nall, Commissioner
Rick Union, Director

**BOARD OF REGISTRATION FOR ARCHITECTS, ENGINEERS
AND LAND SURVEYORS**

March 14, 2006

RE: HB 377

To Whom It May Concern:

The Board of Architects, Engineers, and Land Surveyors is aware the Alaska State Legislature is still considering modifying AS 08.48.331(a)(6)(C) to allow three-story residences to be exempt from the requirement that they be designed by registered design professional(s). The only change we see is reducing the exemption from four-family residences to two-family residences.

This change does not affect our opposition. This change would still put at risk those who the statute (AS 08.48) was created to protect. As commented before, the design loads on a structure significantly increase with the addition of a third story, not least of which are seismic loads.

Contractors and home builders are not required by the State of Alaska to have the education, training, verified by exam, to ensure they are capable of designing this size building. Design professionals are trained to ensure buildings are safe for human habitation.

In the interest of public safety, the Board of Registration for Architects, Engineers, and Land Surveyors (AELS Board) is still strongly opposed to the modification of this statute.

Sincerely,

Kenneth D. Maynard, Chair
AELS Board
(907) 343-5282
kmaynard@uskh.com

REPRESENTATIVE KEVIN MEYER

HOUSE DISTRICT 30

MEMORANDUM

DATE: February 15, 2006
TO: Representative Kevin Meyer
FROM: Mike Pawlowski
RE: Sectional Analysis for HB 377
(Version No. 24 - LSI-471A)

As a preliminary matter, note that a sectional summary of a bill should not be considered an authoritative interpretation of the bill and the bill itself is the best statement of its contents. If you would like an interpretation of the bill as it may apply to a particular set of circumstances, please advise.

Section 1. Amends the exemption to the requirements of title 8 chapter 48 in AS 08.48.331 (a) (6) (C) for residential buildings smaller than a four-plex to three from two stories.



February 15, 2006

Representative Kevin Meyer
 State Capitol, Room 515
 Juneau, AK 99801-1182
 FAX 907-465-3476

Dear Rep. Meyer:

Regarding legislation (HB 377) for stories above grade the Anchorage Home Builders Association fully endorses and supports this measure.

This is merely a housekeeping measure to align the state statute, the International Building Code and the International Residential Code. Currently the two are inconsistent. The state statute is two-stories and International Codes are 3-stories.

Sincerely,

Ray Hickett
 President
 Anchorage Home Builders Assn.

Larry Partusch
 Treasurer
 Anchorage Home Builders Assn.

Harley Sudsbury
 Past President
 Anchorage Home Builders Assn.

Eric Schach
 Vice President
 Anchorage Home Builders Assn.

Sue Wolfe
 Secretary
 Anchorage Home Builders Assn.

"Building Better Places to Live, Work and Play"

ANCHORAGE HOME BUILDERS ASSOCIATION, INC.

8301 Schoon Street, Suite 200 • Anchorage, AK 99518 • (907) 522-3605 • Fax (907) 522-3757

