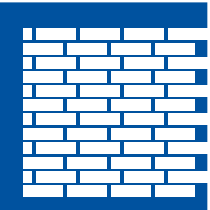


CODE LINK

STATE OF OREGON • BUILDING CODES DIVISION

JULY-AUGUST 2002

Embedded anchor bolts in masonry



The Building Codes Division has received inquiries from design engineers and others about the 1997 Uniform Building Code’s requirement for one-inch grout around anchor bolts embedded in masonry walls. Section 2106.2.14.1 of the 1997 Uniform Building Code requires that a mortar grout of at least one-inch thickness be provided between the anchor bolt and the masonry surrounding it. This requirement was removed from the 1998 Oregon Structural Specialty Code (OSSC) effective October 1, 2000. To clear up any confusion, the amended language (effective October 1, 2000) of Section 2106.2.14.1, is provided below in strike-through-and-underline format:

“2106.2.14.1 General. Placement requirements for plate anchor bolts, headed anchor bolts and bent-bar anchor bolts shall be determined in accordance with this subsection. Bent-bar anchor bolts shall have a hook with a 90-degree bend with an inside diameter of three bolt diameters, plus an extension of

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one and one-half bolt diameters at the free end. Plate anchor bolts shall have a plate welded to the shank to provide anchorage equivalent to headed anchor bolts.

“The effective embedment depth ... bearing surface of the bent end minus one anchor bolt diameter. All bolts shall be grouted in place ~~with at least 1 inch of grout between the bolt and the masonry~~, except the ¼ inch-diameter (6.4 mm) bolts may be placed in bed joints which are at least ½ inch (12.7 mm) in thickness.”

This code change was submitted by the Masonry Institute of Oregon (MIO). MIO had worked together with the Structural Engineers Association of Oregon (SEAO) and Portland State University (PSU) to test em-

bedded anchor bolts in masonry walls without the UBC-required one-inch grout around the bolt. PSU test results showed that the tested anchors without the UBC-required one-inch grout had a capacity of at least five times that allowed by code, which exceeds the standard range of 3.0 to 5.0 generally used for various types of manufactured structural connectors. Based on the test results, SEAO’s Technical Subcommittee on Embedded Anchors in Masonry Walls recommended endorsing the test results as valid proof that the UBC formulas for allowable shear and tension of embedded anchor bolts apply to bolts installed with or without the one-inch grout and to amend the 1997 UBC code (in Oregon) accordingly. ■

BCD charges fee for electrical plan reviews

By Linda Riddell, acting administrator



To continue current service levels and maintain program solvency, an electrical-plan-review fee is now charged for *all* electrical-plan reviews performed by the Building Codes Division.

In accordance with OAR 918-311-0055, for electrical-plan reviews performed on structures meeting the installation requirements of OAR 918-311-0040 that are in jurisdictions where the division administers and enforces the electrical program, the fee is 25

percent of the electrical-permit fee(s).

Electrical-plan reviews are performed as specified in OAR 918-311-0040 and 918-311-0050.

These fees do not apply to prefabricated structures, which are addressed in OAR 918-311-0060, or electrified fixed-guideway-railway-system installations, which are addressed in OAR 918-305-0500. For further information, please contact your local Building Codes office. ■

Plumbing fee increases proposed



The Building Codes Division is proposing to increase plumbing fees by 15 percent. The anticipated date of implementation is August 1, 2002. These increases apply only to those permits issued by the division in the jurisdictions it serves. The increases are necessary

to continue current service levels and maintain program solvency.

For further information, please contact Jami Farquhar, (503) 378-3278. ■

Bon voyage!

From Peggy Collins



It is with mixed emotions that I say farewell to those of you with whom I have worked through the years at the City of Corvallis and Building Codes Division. I am excited about retiring and having the opportunity to spend time and travel with family, friends, and eight grandchildren. But I will miss working with you to make Oregon a safer place.

It has been challenging, fun, and never dull! It is impossible to thank some of you enough for all the dedicated hours you have spent growing me up, working on committees, and trying to figure out a reasonable solution to the problem at hand. You have made my job easier and my achievements possible.

Many have asked what I plan to do when I retire and I have responded "I am going to go to sleep and wake up when I am darned well ready!" Then I plan to travel to Hawaii, upstate New York and finally Malawi, Africa, where I will help finish a seminary and college currently under construction. By then I should be worn down and ready to take a rest. However, you never can tell where I may pop up to help out with a special project here and there. I hope to keep in touch and see many of you in the future. My heartfelt thanks and God's blessings to all of you. ■

Congratulations and best wishes



BCD would like to take this opportunity to express its appreciation and gratitude to Peggy Collins for her many years of service here at Building Codes. Peggy has been with BCD since December of 1987. In the years Peggy has been with BCD, she has

worked in various capacities. The one constant has always been Peggy's approach to her duties, one of professionalism and service to the citizens of the state of Oregon. We will miss Peggy here at Building Codes and wish her the best in her endeavors. ■

Training offered

■ Fire-Rated Assemblies*

Tuesday, July 2
8-10 a.m.
Juvenile Services Building
1st and Lincoln, Room 105
Hillsboro

U.S. Gypsum

Instructor: Jim Tommerup

Covers use and limitations of gypsum products, the fire-resistance design manual, how to determine ratings of gyp board and sheathing, critical features of rated wall assemblies and shafts and rated floor/ceiling assemblies, screws versus nails for rated/non-rated assemblies, proper storage of materials, and winter-related job problems.

■ TJI Floor Systems

Tuesday, July 23
7-9 a.m.
Troutdale City Hall
104 SE Kibling St.
Troutdale

Huttig Building Products

Instructor: Mike Adams

This class will provide information on I-joist manufacturers, differences and similarities, floor wall/ceiling assemblies, PRI performance-rated I-joist APA specifications, installation problems and concerns, features and benefits. Attendees should be prepared with questions concerning any part of the I-joist industry, from manufacturer to installation.

■ T and F Ratings

Wednesday, August 7
8-10 a.m.
Public Service Building
155 N. 1st Ave.
Hillsboro

Specified Technology

Instructor: Mike McKinney

■ Fire Sprinkler Water Curtains

Thursday, August 22
8-10 a.m.
Public Service Building
155 N. 1st Ave.
Hillsboro

Tualatin Valley Fire Department

Instructor: Gene Birchill

Wall Bracing**

Tuesday, August 27
7-10 a.m.
Troutdale City Hall
104 SE Kibling St.
Troutdale

City of Gresham

Instructor: Eric Schmidt

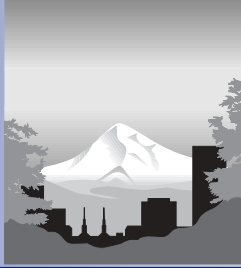
Emphasis will be on the residential prescriptive lateral bracing requirements of the State of Oregon One- and Two-Family Dwelling Specialty Code and the newly approved state interpretive ruling for prescriptive bracing. The focus will be on the interpretive ruling, which includes requirements for cripple walls, exterior/interior braced wall lines and unusually-shaped buildings. The second hour of class will be a discussion.

Questions about any of these training sessions may be directed to Bob Brown, Tri-County Service Center, (503) 872-6731.



* Two hours of code-related credit, if approved by the building official.

** Two hours of AIA HSW credit.



Clackamas Multnomah Washington COUNTIES

A BCD field office, the Tri-County Service Center administers the minor label program and coordinates forms, processes, and application of code for building programs in Clackamas, Multnomah, & Washington counties.

Tri-County Service Center

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Building Codes Division

Joe Brewer administrator
Web site www.oregonbcd.org



Building code forum scheduled June 20

The next commercial structural code forum will be Thursday, June 20, 4-7 p.m., in the conference room at the Home Builder Association headquarters, 15555 S.W. Bangy Road in Lake Oswego.

The event, sponsored by the Tri-County Service Center, provides an opportunity for builders and architects to ask questions about inconsistencies they've encountered in plan-review and site-related code calls.

A panel of industry and local-government code experts will answer code-application

questions and provide guidance for consistent applications in the region. All building officials in the region have committed to following the guidance provided by the panel.

BCD offers three hours of code-related continuing-education credit. Architects may earn three hours of HSW credits for attending. For more information, call Joanie Stevens-Schwenger, (503) 872-6731. Questions for the panel may be sent by e-mail to Joanie.m.stevens-schwenger@state.or.us or faxed to (503) 872-6735. ♦

March code forum Q and A

The following questions were addressed by the code panel at the March 21 forum:

Q Should a building department accept drawings prepared by an engineer or architect but not stamped by them? In other words, is an engineer or architect required to stamp final documents when the building is exempt from the Architect's Law? How many sets of documents must carry a "wet signature"?

A OAR 806-010-0045. No. An Oregon registered architect is required to stamp and sign all his or her work in this state regardless of its exemption status. **Only one set of submittal documents must bear the wet signature of the architect or engineer.** It is permissible for the professional stamp or seal to be electronically duplicated.

Q When is standby power required for egress illumination?

A See 1003.2.9.2, "Power supply."

Q Is it permissible to compare only base shear values for wind and earthquake loads to decide whether wind or seismic loads govern the design?

A No, it is not permissible. Both the wind loads and the seismic loads must be evaluated to determine which cause the maximum base shear and base moments. Design is controlled by the largest lateral base shear/moment. A correct analysis requires determining both the earthquake loads and the wind loads on an element of a structure.

Q For plans with engineered lateral-load-resisting elements, how should we apply the use of "drag struts" or "collectors" to load-resisting elements such as shear walls or frames?

A Plans with non-prescriptive (engineered) lateral-load-resisting elements must show sufficient load-transfer mechanism detail to provide a continuous load path. This may include drag struts, collectors, and blocking and strapping at re-entrant corners.

Q In the Tri-County Commercial Checklist Section 5.0, items 5.20, 6.20, and 7.20 require structural calculations for vertical loads for equipment weighing more than 400 pounds. Wouldn't any load beyond what was factored into the original design



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News *Line*

Help area building departments develop consistent inspection standards by sending your questions to the code panel. How?

E-mail: Joanie.M.Stevens-Schwenger@state.or.us



on the manufactured roof require an engineered design? If not, who would be liable for the added loading? If it is determined that all loads on manufactured roofs require engineered designs, shouldn't the Tri-County Commercial Checklist be revised so that applicants don't have to find out at the permit counter that they need an engineer for a 200-pound roof-top unit?

A See OSSC, Volume 2, Section 1632.1. The 400-pound designation identified in this section refers only to *seismic bracing*. The structure must still be capable of supporting the imposed gravity loads, and it may be necessary to provide a design proving that the structure is capable. The code panel sent a request to revise the Commercial Checklist to the Tri-County Board's Processes and Forms Committee for review and action.

Q Why is it that in multi-story-rated buildings some jurisdictions require "lids" on the bottom sides of private balconies and others do not?

Background: This typically occurs in a Type-V One-Hour R-1 occupancy and multi-story buildings with stacked balconies. It concerns conventional construction and not the use of heavy timber and deals specifically with private balconies, not exterior exit balconies. It is generally agreed that even pressure-treated materials used to enclose the undersides of these balconies will rapidly deteriorate in our moist climate. Venting these areas on the horizontal surface is not permitted by code. Face vents are problematic.

A Section 705 (Projections) speaks to architectural appendages above the floor and thus applies to exterior balconies. Projections from Type-V structures may be of combustible or non-combustible construction. These projections are required to be protected with one-hour fire-resistive construction only where openings must be protected or where they are prohibited. Therefore, balconies (other than exterior-exit balconies) can be of unprotected construction. ♦

Upcoming forums
4-7 p.m.
15555 S.W. Bangy Road, Lake Oswego
September 9 & December 5

440-2736 (6/02/COM)

Tri-County Service Center
123 NE 3rd Ave., Ste. 440,
Portland, OR 97232-2901

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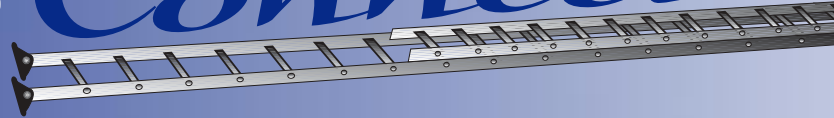
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Building Codes Division

Joe Brewer administrator
Web site www.oregonbcd.org



News *Connect*



A quarterly newsletter for mechanical contractors

April – June 2002

Mechanical code forum slated May 30

The next tri-county mechanical code forum, sponsored by Hunter-Davisson will be 4-7 p.m., Thursday, May 30, in the Multnomah County Board Room, 501 SE Hawthorne Boulevard, in Portland. Participants are eligible for BCD-approved code-related credit. Architects may earn three hours of AIA HSW credit for attending.

Bruce Pasket, chief engineer, NW Natural Gas, will discuss code requirements for meter barriers.

Q&A

The following questions were discussed at the February 28 mechanical code forum. Building officials in tri-county jurisdictions have committed to following the panel's advice:

Q Section 304.8 of the OMSC requires guards at a roof edge when equipment is less than 10 feet from the edge of the roof or walking surface. Should guards be required for equipment change-outs when the new equipment is of like type and weight? Section 102.4, paragraph 1, seems to not require existing mechanical systems to comply with all provisions of the code.

A Yes, guards should be required. Section 102.4 in the Oregon Mechanical Specialty Code refers to the mechanical system and would not exempt life-safety issues addressed in Section 304.8.

Q Is the guard required only on the control-panel side of the equipment?

A Guards are required on any side less than 10 feet from the roof edge.

Q Section 306.5 requires permanent-access ladders on roofs exceeding 16 feet in height. Does this apply to retrofit installations? Again, Section 102.4 seems to say otherwise.

A Yes, permanent-access ladders are required for roofs exceeding 16 feet in height, even when the installation is a retrofit. Section 102.4 in the Oregon Mechanical Specialty Code refers to the mechanical system and would not exempt the requirements addressed in Section 306.5.

Q Does the guard provision apply to a sloped roof regardless of how close the equipment is to the roof edge? Section 306.6 seems to imply that it does. Also, the 1998 International Mechanical Code Commentary seems to require it as well.

A Yes, the guard provision applies if the roof slope is greater than a 3/12 pitch. If the pitch is less than 3/12, the 10-foot rule applies. Refer to Section 306.6 for more details.

Sample of agenda items:

- What kind of barrier must be provided for a condensate pump located in a garage?
- Is there an approved method for putting the condensate pump under the house next to the furnace in the crawlspace?
- Does a Type I hood requirement apply to an SR1.2, 2.2 or 3.2 occupancy (limited to 16 residents)? If so, at what SR occupancy can another hood be used? ♦

Q Who is required to provide the ladders or roof guards?

A The requirements for both are found in the mechanical code. Comments at the code forum suggested that contractors usually alert building owners to the requirements and the owners take responsibility for the installation of guards and ladders. Regardless of who provides the guards and ladders, the installations will likely not be approved if these items are not in place.

Q When an existing furnace and/or water heater is replaced in a garage, and the existing installation has burners less than 18 inches above the floor, is it appropriate to install the new equipment as the original was installed?

A No. The unit must be raised so that all points of ignition are 18 inches or more above the floor. Although Section 117.2 of the Dwelling Code exempts replacement of an existing water heater from meeting all the requirements for new installations, it requires water heaters installed in garages to comply with sections 1307.3 and 3310.1; both of which require the raising of burners, burner ignition devices, or heating elements and switches to at least 18 inches above the floor.

Q When changing out a furnace or water heater, is it necessary to change the vent connector from 3 to 4 inches?

A Maybe. You must change the vent connector when the listing of the appliance requires it. When using a plumbing minor label to replace an existing water heater, a mechanical permit is not necessary to change out a short section of the water heater connector. If you are changing or modifying a vent or installing a liner, a mechanical permit is required.

Q When changing out a furnace or water heater in a garage, is it appropriate to require an impact barrier where there wasn't one before?

Continued . . .



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BCD's message
to homeowners –
"Permits protect
the safety and
value of your
home."

Our message to
contractors –
Refuse to work
without a permit!

Tri-County Service Center
123 NE 3rd Ave., Ste. 440,
Portland, OR 97232-2901

A An impact barrier is not required for water heaters, but is required for furnace changeouts. Also see BCD staff interpretation memo addressing this issue.

Q Do you have to line a chimney when installing a wood stove into a zero-clearance fireplace, or will a positive connector (for example 8-inch plug with a 6-inch hole) work?

A Consult the manufacturer's instructions and the listings for the products involved, i.e. the factory-made chimney, the fireplace, and the woodstove insert.

Q When would a positive connector be approved in a zero-clearance or masonry fireplace?

A For zero-clearance installations, follow the listings for each appliance. For masonry, follow Section 2105.3: Masonry chimneys shall be lined. The lining material shall be appropriate size and type for the category of appliance being connected, according to the terms of the appliance listing and the manufacturer's instructions.

Q Do you have to line chimneys for wood stoves and inserts? Exceptions?

A Yes, Section 2105.3 requires masonry chimneys to be lined. The lining material shall be appropriate size and type for the category of appliance being connected, according to the terms of the appliance listing and the manufacturer's instructions.

Q When installing a gas water heater, must you have a B-vent?

A The committee focused on unconditioned spaces and replacement issues because the question did not specify the parameters of the installation.

If an existing gas water heater is replaced with a new gas water heater, refer to Section 117.2 and the BCD staff interpretation memo. Double-wall type-B gas-venting material is commonly used in unconditioned spaces for new installations. For existing changeouts, Section 117.2 states: "Replacement of an existing water heater shall not require the existing plumbing, mechanical or electrical systems to

comply with provisions of this code for new construction, provided the installation complies with the listing requirements of the appliance." Typically, unconditioned spaces include attics, crawlspaces, and garages. The requirements for using B-vent as a connector in unconditioned spaces has been around for a number of years.

Q What is meant by "like for like"?

A The term "like for like" is not defined or used in the code. "Like for like" is referring to electric to electric, gas to gas, oil to oil, etc., with similar input rating, fuel efficiency, and water volume, etc.

Section 2101.3 specifically addresses the removal, installation, or replacement of gas appliances. Section 2101.3.1 requires resizing of the chimney or vent system at the time of removal, installation, or replacement of gas appliances. Improper vent sizing can result in significant chimney and vent deterioration, and can result in spillage of combustible products. Spillage of combustible products is considered dangerous to life and would not be covered by the exceptions in Section 117.2.

Q What about "like for not like"?

A For the replacement of a gas water heater that is not of the same type, input rating, or fuel efficiency, refer to the GAMA venting tables. The same code sections addressed above would apply.

Q Please explain B31.3 and B31.9

A ASME B31.9 refers to building services piping. B31.3 refers to process piping, which can include hazardous-material piping.

Q Can the IMC Commentary be used as the code?

A IMC Commentary is not adopted by the state. Many code officials rely on it for information. ♦

For a complete text of the February 28 forum Q&A, check on-line: www.cbs.state.or.us/external/bcd/forum_manual/mechanical/mechanical.htm. ♦

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Compliance report

The Electrical and Elevator Board found the following violations of the Oregon Electrical Safety Laws in March 2002:

CITY	NAME	VIOLATION	PENALTY
Beaverton	Michael S. Sawyer Renovate Incorporated	No electrical contractor license/no electrical permit	\$2,000
Beaverton	Michael S. Sawyer	No supervising or journeyman license	\$1,000
Bend	James M. Kelly Kelly Electric	No electrical permit	\$1,000
Blue Bell, PA	Kenneth L. Rose Henkels & McCoy, Inc.	Energized electrical installation without prior approval (5 violations)	\$10,000
Brush Prairie, WA	Robert W. Kimbro	No electrical permit	\$1,000
Dallas, TX	William J. Shaw ThousandTrails, Inc.	No electrical permit/permitted unlicensed individual to make electrical installation	\$2,000
Eugene	Brian J. Chittim Chittim Enterprises II, Inc.	No electrical permit/permitted unlicensed individual to make electrical installation	\$2,000
Fairfield, NJ	Steve Morse, vice president of operations, DATATEC Systems Inc.	No electrical contractor license/no electrical permit	\$2,000
Medford	James D. Eggleston Jim's Home Repair & Maintenance Clinic	No electrical contractor license/no electrical permit/no supervising or journeyman license	\$3,000
Monmouth	Cheri Waddell Jack Waddell Const. Inc.	No electrical permit (2 violations)/no supervising or journeyman license (2 violations)	\$4,000
Newport	Quan Lien, Willers Motel	No electrical permit/no supervising or journeyman license	\$2,000
Oregon City	Jeffrey G. Young Cascade Integrated Systems	No electrical permit	\$1,000
Portland	Daryl Inness Protemp Associates, Inc.	No electrical permit	\$1,000
Portland	Max N. Landon McCoy Electric Co., Inc.	No electrical permit	\$1,000
Redmond	Rick A. Haga	No electrical permit/no supervising or journeyman license	\$750
Salem	Thomas M. Taylor Phoenix Electric Company	No electrical permit	\$1,000
Salem	Andy Hittle	No supervising or journeyman license	\$1,000
Salem	Sima Muroff	No supervising or journeyman license	\$1,000
Sherwood	Philip H. Garstka LHR Enterprises, Inc.	No electrical permit	\$1,000

Silverton	Gary Layton	No electrical permit	\$1,000
Springfield	Brian B. Hatefi	No supervising or journeyman license	\$500
St. Helens	William Walter Small	No supervising or journeyman license	\$1,000
St. Helens	Vernon Loeks North by Northwest Industries	Allowed unlicensed individual to make electrical installation (2 violations)/no electrical permit	\$6,000
Sutherlin	Kenneth E. Gay Ken's Construction	No electrical permit/no supervising or journeyman license	\$2,000
Terrebonne	Jerry Arney	No electrical permit/unsafe installation	\$1,000
Tigard	Maher Shaheen Lamps Plus, Inc.	No electrical contractor license/no electrical permit/permitted unlicensed individual to make electrical installation	\$3,000
Tigard	Joe B. Steinfeldt, president, Alpha Tech Voice & Data Solutions, Inc.	Allowed unlicensed individual to make electrical installation	\$1,000
Tigard	Mauro Pablo DeLeon	No supervising or journeyman license	\$1,000
Tigard	Scott Lockard	Directing, making or controlling the making of an electrical installation without a supervising electrician license	\$1,000
Troutdale	Jeff Cohen	No supervising or journeyman license	\$500
Warrenton	William Blevins	No supervising or journeyman license	\$500

The Director of the Department of Consumer and Business Services found the following violations of the Oregon Specialty Codes in March 2002:

CITY	NAME	VIOLATION	PENALTY
Beaverton	Thomas Lorentz	No permit	\$250
Beaverton	Ronald L. Dunaway Air Systems Northwest	No permit	\$250
Bend	Jeff Meeds Mid-State Heating & Cooling	No permit	\$250
Dallas	Michael Bowman MJB Professional Lawn Maintenance	No permit (6 violations) (Double permit fee assessed by local jurisdiction)	\$0
Dundee	Stanley F. Stupor, Jr. MS Rentals, Inc.	No permit (2 violations)	\$500
Eugene	Brian J Chittim Chittim Enterprises II, Inc.	No permit (2 violations)	\$500
Portland	Kevin G. Nielson L D N Construction LLC	No permit	\$250
Portland	Dean M. Lampus	No permit	\$250

	Norwest Contractors, Inc.		
Roseburg	Brock Barrows U.S.A. Mobile Homes, Inc.	Failure to make corrections	\$1,000
Sunol, CA	Jerry R. and Darla Howard	No permit/violated a final order	\$6,500
Tigard	William Brabant, President, Mr. Furnace Inc	No permit	\$250
Tigard	Dewayne Dennis John Darby Landscape. Inc.	No permit	\$250
Tualatin	Scott A. Shamburg, Shamburg Heating LLC	No permit (2 violations)	\$500
Ukiah	Pat Corley	No permit	\$250

The Board of Boiler Rules found the following violations of the Oregon Boiler Safety Laws in April 2002:

CITY	NAME	VIOLATION	PENALTY
Eugene	Dave Petrushkin Danco Refrigeration, Inc.	No installation permit (2 violations)	\$2,000
Oregon City	Michael J. Mayes Michael J. Mayes Plumbing Contractor	No boiler/pressure vessel business license/no installation permit	\$1,000
Portland	Jerry Titus Portland Service Station Supply Inc.	Installation did not meet minimum safety standards/no boiler/pressure vessel business License/no installation permit	\$3,000
Portland	Al Lau, Senior Project Manager, J. H. Kelly, LLC, a Foreign Limited Liability Company	No installation permit (2 violations)	\$1,000

The Electrical and Elevator Board found the following violations of the Oregon Electrical Safety Laws in April 2002:

CITY	NAME	VIOLATION	PENALTY
Anaheim, CA	John Affeld Security Signal Devices, Inc.	No electrical contractor license/no electrical permit	\$2,000
Clackamas	Timothy Paul	Allowed unlicensed individual to make electrical installation (2 violations)	\$2,000
Hillsboro	Ronald M. Penn Aire-Flo Heating and Air Conditioning, Inc.	No electrical contractor license/no electrical permit	\$4,000
Kirkland, WA	Michael Nunn GTS Drywall Supply Co.	Allowed unlicensed individual to make electrical installation	\$1,000
Louisville, KY	William Smith Material Handling Systems, Inc.	Allowed unlicensed individual to make electrical installation (2 violations)/no electrical contractor license/ no electrical permit	\$4,000
Portland	Leroy White Genie Electric Construction, Inc.	No electrical permit	\$1,000

Portland	Lawrence Scott Stuart	Allowed unlicensed individual to make electrical installation	\$1,000
Portland	Rodney K. Swift Omega Construction Inc.	Allowed unlicensed individual to make electrical installation	\$1,000
Portland	Jeff S. Schwab U.S. Sales Inc.	Allowed unlicensed individual to make electrical installation/ no electrical contractor license	\$2,000
Portland	Sheldon W. Black	No electrical permit	\$1,000
Portland	John H. Patterson John H. Patterson, Inc.	No electrical contractor license/no electrical permit/ selling uncertified electrical product	\$2,000
Portland	Guy J. Herder JJ Signs Inc.	No electrical permit/selling uncertified electrical product	\$2,000
Portland	Tom Ancil Ancil Sheet Metal Company	No electrical permit	\$1,000
Redmond	Jeffrey Alan Sheveland Sheveland Construction	No electrical contractor license/ no electrical permit/ no supervising or journeyman license	\$1,250
Redmond	Raymond Gowdy Gowdy Bros. Electric, Inc.	No electrical permit	\$2,000
Roseburg	Kevin B. Bunnell Bunnell's Overhead Door, Inc.	No electrical permit	\$1,000
Roseburg	Richard D. Bunnell, Bunnell's, LLC	No electrical permit	\$1,000
Roseburg	Randolph E. Forrest Industrial Electric Service Co. of Oregon	No electrical permit	\$250
Seaside	Lisa Keliher Busy Bee Electric	Allowed unlicensed individual to make electrical installation	\$2,000
Tualatin	Robert D. Smith Signature Landscape Care, LTD.	No electrical permit	\$1,000
Vancouver, WA	Peter McReynolds	No supervising or journeyman license	\$1,000

The Plumbing Board found the following violations of the Oregon Plumbing Specialty Codes in April 2002:

CITY	NAME	VIOLATION	PENALTY
Aloha	Scott R. Bernhardt Bones Construction Co.	No plumbing permit	\$1,000
Aloha	Bill Gibbs Falcon Plumbing, Inc.	No plumbing business certificate of registration	\$1,000
Beaverton	Thomas Lorentz	No plumbing journeyman certificate of competency	\$1,000
Clackamas	James H. Whitmore Oregon Excavation, Inc.	Allowed unlicensed individuals to make plumbing installations/ no plumbing permit	\$2,000
Dallas	Michael Bowman MJB Professional Lawn Maintenance	No plumbing permit (3 violations) (Double permit fee assessed by local jurisdiction)	\$0

Eugene	Brian J. Chittim Chittim Enterprises II, Inc.	Allowed unlicensed individuals to make plumbing installations	\$1,000
Gold Beach	Alan W. Severson Al's Plumbing Repair Service	No plumbing business certificate of registration	\$1,000
Hillsboro	David Parkins, Mr. Deck	No plumbing journeyman certificate of competency	\$1,000
Oregon City	Jeffery Douglas Luck	No plumbing journeyman certificate of competency	\$1,000
Portland	David A. Gravelle D.A. Gravelle	No plumbing journeyman certificate of competency	\$2,000
Redmond	Jeffrey Alan Sheveland Sheveland Construction	No plumbing business certificate of registration no plumbing journeyman certificate of competency	\$1,000
Salem	Andy Hittle	No plumbing journeyman certificate of competency	\$1,000
The Dalles	Donald E. Mort Roto Rooter Service	No plumbing business certificate of registration	\$1,000
Tigard	Kenneth G. Watts, Northwest Premier Plumbing Company	Allowed unlicensed individuals to make plumbing installations	\$1,000

The Director of the Department of Consumer and Business Services found the following violations of the Oregon Specialty Codes in April 2002:

CITY	NAME	VIOLATION	PENALTY
Central Point	Stephen D. Tallant Sun Country Construction and Development, Inc.	No permit	\$250
Central Point	Stephen D. Tallant Sun Country Construction and Development, Inc.	Violated a final order	\$5,000
Coos Bay	Earl Johnson	Violated a final order (2 violations)	\$6,000
Fruitland, ID	Vernon Hancock Ontario Roofing Co., Inc.	Employing unlicensed individual to install manufactured dwelling	\$1,000
Graham, WA	Kris Kelly Northwest Coffeehouses	No insignia of compliance	\$1,000
LaPine	Charlie Ervolino C & C Electric	Violated a final order	\$5,000

Interpretive ruling signed



The following interpretive ruling was approved by the Building Codes Structures Board and signed by the administrator on May 2.

Oregon Interpretive Ruling No. 01-2 Ducts/Air Transfer Openings at Fire-Resistive Horizontal Assemblies

Requested by:

Building Codes Structures Board

Question:

What are the appropriate code provisions governing the installation of ducts and air transfer openings through fire-resistive horizontal assemblies?

Applicable Code Sections:

- Section 710 of the 1998 Oregon Structural Specialty Code (Through penetrations)
- Section 711 of the 1998 Oregon Structural Specialty Code (Shaft enclosures)

Background:

A divergence of opinion exists as to whether or not duct and air transfer openings through fire-resistive horizontal assemblies should be regulated under Section 710.2 of the Oregon Structural Specialty Code (OSSC) or the provisions of OSSC Section 711. As such, it is necessary to provide interpretation of the appropriate sections to assist in the uniform and consistent application of the code statewide.

Findings:

1. Section 710 of the 1998 OSSC regulates **penetrations** through fire-resistive horizontal assemblies.
2. Section 711 of the 1998 OSSC regulates **openings** through successive floors (see exceptions).

3. OSSC 710.2.1 states that “Through penetrations of fire-resistive horizontal assemblies shall be enclosed in fire-resistive shaft enclosures in accordance with Section 711.1 or shall comply with Section 710.2.2 or 710.2.3.” The first exception exempts **penetrating** items such as steel, ferrous or copper electrical conduits, plumbing vents or sprinkler piping as well as other non-combustible conduits, pipes and tubes where the annular space around the penetration is protected by approved materials. These penetrating items may be considered “closed systems” in that the opportunity for fire, smoke and gases to enter the inside of the penetration is rare.
4. Duct and air transfer penetrations through fire-resistive horizontal assemblies are considered **openings** and are not included in the list of exceptions. These openings are, in essence, “open systems” by nature, in that the potential for fire, smoke and gases to breach the duct/vent are considerable.

Conclusion:

Duct and air transfer openings, including dryer and bathroom exhaust vents, are not included in the exceptions noted in OSSC Section 710.2.1 for acceptable penetrations of fire-resistive horizontal assemblies. As such, the general provisions of OSSC 710.2.1 will require that such items be enclosed in fire-resistive shaft enclosures in accordance with Section 711.1. ■

Board meeting dates

Sun	Mon
1	2
8	9

ELECTRICAL & ELEVATOR BOARD _____

Meets at 9:30 a.m. on the fourth Thursday of each month:

- July 25
- August 22

BUILDING CODES STRUCTURES BOARD _____

Meets at 9:00 a.m. on the first Wednesday of each month:

- July 10
- September 11

MANUFACTURED STRUCTURES & PARKS ADVISORY BOARD _____

Meets at 9:30 a.m. on the second Thursday of each quarter:

- July 11

STATE PLUMBING BOARD _____

Meets at 9:00 a.m. on the third Friday of every other month:

- August 16

BOARD OF BOILER RULES _____

Meets at 9:30 a.m. on the first Tuesday of each quarter:

- September 10

TRI-COUNTY BUILDING INDUSTRY SERVICE BOARD _____

Meets at 9:30 a.m. on the second Wednesday of every other month:

- August 14

MEETINGS ARE HELD IN THE SALEM BCD CONFERENCE ROOM AT 1535 EDGEWATER ST. NW, EXCEPT THE TRI-COUNTY SERVICE BOARD MEETING, WHICH IS IN PORTLAND.



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DEPARTMENT USE ONLY 1087/78711

Permits protect Oregon homes, homeowners, and businesses

Government and building industry promote awareness



State and local building departments and the Construction Contractors Board have joined with the National Electrical Contractors Association

(NECA), International Brotherhood of Electrical Workers (IBEW) Local 48 and the Plumbing and Mechanical Contractors Association (PMCA) to launch a public service campaign. Their goal is to remind people that it's in their own best interest to get permits for home construction or remodeling jobs and to use licensed contractors and trades people.

The public service campaign is called "Permits Protect." It includes a 30-second television message launched June 17, and a Web site with information for consumers, www.permitsprotect.info.

The Web site provides more information on when a permit is needed, how to obtain one, and how to find a licensed contractor, plumber, or electrician. The site also provides links to other helpful Web sites.

In addition to the state Building Codes Division and the Construction Contractors Board, local building agencies in Multnomah, Clackamas and Washington counties are part of the Permits Protect campaign and plan to help distribute related brochures and information using the Permits Protect logo. ■

440-2666 (7/02/COM)



Building Codes Division

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PO Box 14470
Salem, OR 97309-0404

Address Service Requested

CODE LINK

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