

PRBD Chat

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1st Quarter Holidays:

- Martin Luther King Jr.
Day: January 16th
- Ground Hog Day
February 2nd
- Valentine's Day February
14th
- President's Day February
20th
- St Patrick's Day
March 16th



Dave Vaughn

Building Official

We've Moved!

At the end of October, the Building Department moved to our new location at 830 N Main St. Suite 100. This is across from the Wells Fargo Bank Building. The new location has much easier access and better parking. Stop by and visit our new location if you haven't already.

Our phone number and fax numbers remain the same.

License Renewals...

This is a just a reminder that all licenses with PRBD expire on December 31st of each year. Until you renew your license, you will not be able to get permits or inspections done.

In addition, after January 31st, the fee for licenses is 150% of the regular fee; after April 1st the fee is double the regular fee.

Colorado Chapter of the ICC...

The Colorado Chapter of the International Code Council is dedicated to the improvement of building safety, by promoting and improving the International Codes, educating the building industry, public, and our membership, and providing mutual aid to building professionals.

Their website at www.coloradochaptericc.org contains a good amount of information regarding the codes as well as online building guides. Check it out!

Upcoming Classes...

We (PRBD) will be hosting a training session from Colorado Code Consulting, LLC group, called 2009 IECC- Real World Applications. The subject of this training is energy code compliance of buildings in Colorado. The cost is free, the date is January 27, 2012, the location is 830 N. Main Street.

In addition, there will be two classes in February regarding the Mechanical aspects of the energy code: Residential on February 10th and Commercial on February 24th.

To get more information visit our office or go online to the ICC website at www.iccsafe.org/colorado

Education Corner**Pueblo Community College****Winter 2012****Economic & Workforce Development****UPCOMING CLASSES*****Public Training Events*****Gear Boxes**

(32 hours)

February 14 – March 20, 2012 (Tuesdays & Thursdays)

7:30 am – 10:30 am

Cost: \$795/person

This course is designed for advanced mechanical system technicians and covers the theory, tolling, use and types of gear boxes commonly seen in industry.

Forklift Operator Training

(8 hours)

February 20, 2012

8:00 am – 5:00 pm

Cost: \$195/person

This course is designed to provide the attendee with the fundamentals required by the Code of Federal Regulations Part 1910.178. The regulation is applicable to operators of all mobile, power-propelled trucks used to carry, push, pull, lift, stack, or tier materials including those that are driven and those that function with a walking operator. Rough terrain, straight-mast, and extended-reach forklift trucks are specialized construction industry equipment whose operators are included in the regulations. Drivers of earth-moving and over-the-road haulage vehicles are not.

Electrical Theory

(24 hours)

February 20 – March 14, 2012 (Tuesdays & Thursdays)

7:30 – 10:30 am

Cost: \$495/person

This course is designed for the beginning electrical maintenance technician and provides an overview of electricity, electronics, common electrical components, and basic circuitry.

Motors & Controls

(24 hours)

February 21 – March 8, 2012 (Tuesdays & Thursdays)

7:30-11:30 am

Cost: \$495/person

This course is an introduction to the theory and application of industrial-sized motors, their related control systems and units of measure. Industrial-grade training equipment will be utilized to augment the hands-on portion of the course. You will be able to apply these lessons to improve up-time and efficiencies at your facility.

Mechanical Blueprint Reading

(16 hours)

February 22 – March 12, 2012 (Mondays & Wednesdays)

7:30 – 10:30 am

Cost: \$295/person

This course provides participants with an analysis of the general layout of a blueprint and shows them where to look for information. "Technical shorthand" is covered to provide the needed skills to interpret the blueprint and understand what the designer intended. There are frequent classroom exercises throughout to reinforce the learning process with practical applications of concepts.

Advanced Welding

(40 hours)

February 29 – April 2, 2012 (Mondays & Wednesdays)

7:30 – 11:30 am

Cost: \$1,195/person

This course is designed to prepare the welder for operating in the maintenance and manufacturing environment and as a preparation for company standards testing.

Visit our website for the latest training events at:

www.pueblocc.edu/tec

***Bringing customized workforce training
to you...***



900 West Orman Avenue
Gorsich Advanced Technology Center, Room 201B
Pueblo, CO 81004

Phone: 719-549-3320

Toll Free: 866-478-3256

Fax: 719-549-3462

E-mail: Technology@pueblocc.edu

Bits from the Building Division By Charlie Carty

This month, one of the topics we need to talk about is Fireblocking and Draftstopping in Residential construction. These requirements are found in Chapter 3 Building Planning, section R302.11 Fireblocking and section R302.12 Draftstopping. The requirements are as follows:

In combustible construction, fireblocking shall be provided to cut off all concealed draft openings (**both vertical and horizontal**) and to form an **effective fire barrier** between stories, and between a top story and the roof space.

Fireblocking shall be provided in wood-frame construction in the following locations:

In concealed spaces of stud walls and partitions, including furred spaces and parallel rows of studs or staggered studs, as follows:

- 1.1 Vertically at the ceiling and floor levels.
- 1.2 Horizontally at intervals not exceeding 10 feet.
2. At all **interconnections** between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings and cove ceilings.
3. In concealed spaces between stair stringers at the top and bottom of the run. Enclosed spaces under stairs shall comply with Section R302.7.
4. At openings around **vents, pipes, ducts, cables and wires at ceiling and floor level**, with an approved material to resist the free passage of flame and products of combustion. The material filling this annular space shall **not be required** to meet the

ASTM E 136 requirements (fire caulking specs).

5. For the fireblocking of chimneys and fireplaces, see Section R1003.19.
6. Fireblocking of cornices of a two-family dwelling is required at the line of dwelling unit separation.

R302.11.1 Fireblocking materials

Except as provided in Section R302.11, Item 4, fireblocking shall consist of the following materials.

1. Two-inch nominal lumber.
2. Two thicknesses of 1-inch nominal lumber with broken lap joints.
3. One thickness of 23/32-inch wood structural panels with joints backed by 23/32-inch wood structural panels.
4. One thickness of 3/4-inch particleboard with joints backed by 3/4-inch particleboard.
5. One-half-inch gypsum board.
6. One-quarter-inch cement-based millboard.
7. Batts or blankets of mineral wool or glass fiber or other approved materials installed in such a manner as to be **securely retained** in place.

R302.11.1.1 Batts or blankets of mineral or glass fiber Batts or blankets of mineral or glass fiber or other approved non-rigid materials shall be permitted for compliance with the 10-foot horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs.

R302.11.1.2 Unfaced fiberglass Unfaced fiberglass batt insulation used as fireblocking shall fill the entire cross section of the wall cavity to a **minimum height of 16 inches**

measured vertically. When piping, conduit or similar obstructions are encountered, the insulation shall be **packed tightly around the obstruction**.

R302.11.1.3 Loose-fill insulation material

Loose-fill insulation material shall not be used as a fireblock unless specifically tested in the form and manner intended for use to **demonstrate its ability to remain in place** and to retard the spread of fire and hot gases.

R302.11.2 Fireblocking integrity : The integrity of all fireblocks shall be maintained.

R302.12 Draftstopping

In combustible construction where there is usable space both above and below the concealed space of a floor/ceiling assembly, draftstops shall be installed so that the area of the concealed space **does not exceed 1,000 square feet**. Draftstopping shall divide the concealed space into approximately equal areas. Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping shall be provided in floor/ceiling assemblies under the following circumstances:

1. Ceiling is suspended under the floor framing.
2. Floor framing is constructed of truss-type open-web or perforated members.

R302.12.1 Materials- Draftstopping materials shall not be less than 1/2-inch gypsum board, 3/8-inch wood structural panels or other approved materials adequately supported. Draftstopping shall be installed **parallel to the floor framing members** unless otherwise approved by the

Pueblo in 1921...



View of flood damaged storefronts on Union Avenue after the Arkansas River flood in Pueblo, Colorado. Men work with shovels to remove deep mud that washed against the buildings. Shows a utility pole and a lamp post in the street. Hats, clothing and furniture are piled up outside the buildings. Signs on the buildings read: "The Wonder Men's Store" "United Shoes" "Stark Clothing Co." and "409 M. Braun Dry Goods, Juvenile Clothing."

(From Denver Public Library Digital Collection, <http://digital.denverlibrary.org/cdm/>)

*2nd Annual Stormwater
Educational Seminar
Jan 24th at the Pueblo
Convention Center. Visit
our website for details –
www.prbd.com*

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We're on the Web!

See us at:

www.prbd.com



Our New Location at 8th & Main

PRBD Chat is published quarterly.

Please submit article ideas or questions to:

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Mike Colucci

Deep Thoughts from the Plumbing Division

by Dan Daniels

The Plumber protects the health of the nation.... We should all be proud to be part of a profession that can make such a statement. (And know that it's true but, it seems that many in our trade no longer have that pride. As inspectors we see every type of plumbing installation one can imagine, (from homeowner to the most veteran journey person. While we recognize that there are still those out there that do strive for perfection it is increasingly obvious that craftsmanship is no longer a priority. Why? There are plenty of reasons. but the biggest is the lack of training and education that is being provided. With the bottom line mentality that pervades so many businesses we are forgetting to teach the history and theory of our trade. nose plumbers with this knowledge have to be willing

to pass it along. The Pride and craftsmanship in our trade has to be passed forward. The ability to memorize a Code Book and pass a test does not a plumber make. When was the last time you stepped back, took a long look at your work and were proud of what you did? YOU SHOULD BE. EVERY TIME! With the New Year upon us it's a good time to revisit some of the basic responsibilities that you have when calling for a plumbing inspection. First and foremost, is the job really ready for inspection? Is the piping system properly bedded or supported? Are your test gauges in good working order? (not bent, cracked or broken) Are the required tests in place and holding? On final inspections are all fixtures set and caulked? Are the vent caps removed? Expansion protection? Sewer and

water installers need to make sure all sleeves are in place and the service lines are properly bedded with the correct material. These are just some of the more common items we come across during our inspections. The Plumbing Code is a minimum standard and is evolving every day. All of us in the industry have the right and duty to be involved in the code change process. There are opportunities through membership and committee work that enable involvement in all areas of the process. Don't sit back and complain, GET INVOLVED! Customer service is important to us here at PRBD but we still have a job to do and that sometimes rubs people the wrong way. Let us know your feelings, both good and bad. HAVE A GREAT YEAR!

Mechanical Update By Terry Nohaft

Mechanical department Corrugated Stainless Steel tubing (CSST) section 310.1.1 Bonding and Grounding requirements added that specifically pertain to CSST piping systems.

The bonding requirements are intended to reduce the chances of damage to the CSST from lightning induced electrical energy

(CSST) Gas piping Shall be bonded to the electrical service grounding electrode system at the point where the gas service enters the building or

to an alternate location for the bonding clamp. : (STEEL PIPE) USING # 6 AWG COPPER CONDUCTOR CONNECTED TO ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM, SERVICE EQUIPMENT ENCLOSURE OR THE GROUNDING CONDUCTOR

Why are there 24 hours in a day ?

The actual length of a day is determined by the earth's rotation, but our division of it into 24 equal blocks (more likely, it started as dividing the day time from sunrise to sunset into 12 equal blocks) came out of the Middle Eastern civilizations who made some of the first advances in the areas of mathematics and astronomy.

They used a duodecimal (base 12) numbering system, for a number of reasons. One is that they may have used a method of counting to 12 on one hand: using the thumb as the pointer, move along the three bones in each of your four fingers. The decimal numbering system that we use now likely came out of having 10 fingers, and counting them one at a time. The more likely reason is that 12 also has the advantage of having 6 factors, which means it's easier to do fractions. Ease of fractions is partly why 12 persisted in English measuring units.

-INTERNET



Governor's
Energy Office

Department of Local Affairs

Division of Housing



Colorado Code Consulting
Energy Codes Support Partnership

2009 IECC- Real World Applications

Presented by Colorado Code Consulting, LLC

Field inspection comes to the classroom through pictures and examples of common installations we see in the field while performing energy code compliance inspections and plan reviews. This is an interactive class with participants sharing their experiences and discussing different levels of compliance.

Ideal for Code officials, Contractors, Builders, Realtors, Appraisers,
Lenders and Designers

January 27, 2012
9:00 a.m. – 3:00 p.m.
Lunch will be provided

FREE TO ALL

Pueblo Regional Building Department
830 N. Main St.
Pueblo, CO

To register go to: www.iccsafe.org/colorado

You will be required to create a free ICC user name and password to sign up for classes but
ICC membership is not required.

For Questions Contact: Shaunna Mazingo, Colorado Code Consulting, LLC (303) 598-3465
[smazingo@coloradocode.net](mailto:smasingo@coloradocode.net)



2nd Annual Stormwater Educational Seminar

January 24, 2012
8:00 a.m. to 12:00 p.m.

Pueblo Convention Center
Fortino Grand Hall A
320 Central Main St. Pueblo, CO 81003

This seminar is designed to assist Organizations, Developers, Contractors, Builders, Professional Engineers, Municipalities and any others wanting to learn about:

- Underground Stormwater Management Design, Performance, and Regulatory Drivers
- Water Rights of Colorado Pertaining to Stormwater Management
- Urban Drainage Water Quality & Drainage Criteria Updates
- CDPHE Regulation 85

SPEAKERS:

Mr. Vaikko Allen, Contech Construction Products
Mr. Steven Witte, Division Engineer 2 Water Resources
Dr. Andrew Earles, Wright Water Engineers, Inc.
Mr. Alan Searcy, Colorado Stormwater Council

Register on-line at www.pueblo.us
Or mail check made out to "City of Pueblo"
Stormwater Utility Department
211 E. "D" St., Pueblo, Co. 81003
Cost is \$ 10.00 per person



City of Pueblo Stormwater Utility
211 E. "D" Street Pueblo, CO 81003
For Information (719) 553-2899

PUEBL 

- Continental breakfast to be provided -