

## Do you plan to do a Grundtvig?

**Safety and Buildings Division's continuing education** starts in December for plumbers (including restricted service, restricted appliance) and for plumbing inspectors. Classes will be held in Eau Claire, Green Bay, Wausau, and Waukesha. Other classes will be held around the state in January - March 2004. Watch upcoming *WCCRs* or the continuing education page on S&B's WebSite, <http://www.commerce.state.wi.us/SB/SB-DivContinuingEducation.html>. You can check the status of your continuing education on the site, <http://www.commerce.state.wi.us/SB/SB-CredentialStatusCheck.html>.

Nikolai Frederik Severin Grundtvig (1783-1872) was a Danish clergyman and writer who is regarded by some as the founder of the Nordic tradition of lifelong learning. His 'folk schools' were based on the idea that education should be available throughout life. He didn't openly say, "Do the Grundtvig in Wisconsin," but if he had, he might have meant "Enjoy plumbing continuing education."



### UDC changed August 1

If you would like to view or download the current Uniform Dwelling Code, see the S&B codes page, <http://www.commerce.state.wi.us/SB/SB-DivCodesListing.html>. You can get a summary of the code changes on the UDC program page, <http://www.commerce.state.wi.us/SB/SB-OneAndTwoFamilyProgram.html>. Note that a UDC Commentary will not be available until spring of 2004, at the earliest.

## Plate-type effluent filters still approved for use in state

A company has been circulating information that plate-type (also known as "disc dam") effluent filters are not approved for installation in Wisconsin. Not true! These types of filters are effectively used in private onsite wastewater treatment systems (POWTS).

Approved effluent filters can be identified in the *Wisconsin Plumbing Products Register*. They are listed in the sewage treatment apparatus section of the Register. Filters listed in the Register are approved for use in both pressure and gravity distribution systems. If your POWTS includes one of these approved filters as a component, there is no need to worry about

possibly having to replace it.

The letter circulating attempts to discredit the filters because of a supposed conflict between state administrative code and a National Sanitation Foundation (NSF) standard. The NSF standard cited in the letter is not the only criteria used to evaluate filters. Safety and Building Division staff have confidence that the approved filters, when properly installed and maintained, comply with the state administrative code.

For more information, contact Plumbing Product Reviewer Mike Beckwith, 608-266-6742, [mbeckwith@commerce.state.wi.us](mailto:mbeckwith@commerce.state.wi.us).



# Wisconsin Enrolled Commercial Building Code Order Form

The Enrolled Commercial building Code includes the provisions of Wisconsin Comm 61-65, Building and Heating, Ventilation, and Air Conditioning, plus the relevant adopted sections of the International Code Council model codes.

- Number of sets of the hardcopy version (\$200 per set) \_\_\_\_\_
- Number of copies of the single-user, compact-disc version (\$240 per copy) \_\_\_\_\_

Send check for the total amount to the "Safety and Buildings Division"  
Attn: Roberta Ward, PO Box 2689, Madison WI 53701  
(Safety and Buildings cannot process credit or debit card purchases)



Company or individual name: \_\_\_\_\_

Shipping street address: \_\_\_\_\_

Special instructions, such as shipping company and your customer number for overnight shipping:

\_\_\_\_\_

City, state, zip: \_\_\_\_\_

Telephone number \_\_\_\_\_

Fiscal code 8035 Personal information you provide may be used for secondary purposes [Privacy Law, s. 1504(1)(m)]

— — — — —  
**You may check your continuing  
education records on the S&B WebSite,**  
<http://www.commerce.state.wi.us/SB/SB-CredentialStatusCheck.html>.

**Q&A about the Wisconsin  
Commercial Building Code  
is on the S&B WebSite**  
[http://www.commerce.state.wi.us/SB/SB-CommercialBuildingsCodeAdoption  
Questions.html](http://www.commerce.state.wi.us/SB/SB-CommercialBuildingsCodeAdoptionQuestions.html)



## Khondaker transfers

Commercial Buildings Plan Reviewer Fokruddin Khondaker has transferred to the S&B Madison office from the Shawano office. His new telephone number is 608-266-1930. His email address remains [fkondaker@commerce.state.wi.us](mailto:fkondaker@commerce.state.wi.us).

## Wisconsin Construction Codes Report

The *WCCR* is a monthly publication of the Safety and Buildings Division, Wisconsin Department of Commerce. For a year's mail-delivery paper subscription, send \$20 to S&B Material Orders, PO Box 2509, Madison, 53701. Be sure to provide return mail info and note what you are ordering. *WCCR* on the WebSite: <http://www.commerce.state.wi.us/SB/SB-DivPublications.html>.



You may search S&B computer records for Cross Connection Control Device information. See the plumbing program page, <http://www.commerce.state.wi.us/SB/SB-PlumbingProgram.html>

**If you wish to receive a monthly email notifying you when the WCCR is placed on the S&B WebSite,**

send your email address and name to Todd Taylor, [ttaylor@commerce.state.wi.us](mailto:ttaylor@commerce.state.wi.us). There is also a spot to sign up for the email list, on the division's Publications Page: <http://www.commerce.state.wi.us/SB/SB-Divpublications.html>.



**Contact information for plan review  
To schedule an appointment (commercial/multifamily buildings, pools, or plumbing):**

- S&B WebSite (buildings only):  
<http://www.commerce.state.wi.us/SB/SB-DivScheduling.html>
- Fax: 24-hour toll-free number for appointment scheduling, 877-840-9172
- Email: [planschedule@commerce.state.wi.us](mailto:planschedule@commerce.state.wi.us)

**For application forms:**

- On the S&B WebSite (choose "Get Forms," <http://www.commerce.state.wi.us/SB/SB-DivForms.html>)
- Call any of the offices listed on page 10

**Info about next available review appointment:** <http://www.commerce.state.wi.us/SB/SB-DivDailyDoc.html>

**Info about status of plan review:** <http://www.commerce.state.wi.us/SB/SB-DivReviewStatusSearch.html>

## Electrical Q&A

Based on the 2002 National Electrical Code. For info, contact one of the S&B Consultants listed below.



**Q.** Why are grounding conductors not required to be counted when box fill is determined?

**A.** Equipment grounding or bonding conductors only carry current during fault conditions and therefore do not contribute to the heating that may occur with current carrying conductors in raceways or boxes.

Note 3 to Table 1 in NEC Chapter 9 requires that the equipment-grounding conductor or bonding conductor be included when calculating raceway fill. Section 310.15(B)(5) tells us that grounding or bonding conductors shall not be counted when applying the derating provisions of 310.15(B)(2)(a) relating to the number of current carrying conductors in a raceway or cable. Section 314.16(B)(5) says conductors are counted for box fill only as one conductor of the largest grounding or bonding conductor in the box.

**Q.** The term "infinite bus" is mentioned when discussing available fault current and the interrupting rating of circuit breakers. What exactly is meant by infinite bus?

**A.** Section 110-9 requires that electrical equipment intended to interrupt current at fault levels must have an interrupting rating sufficient for the current that is available at the line terminals of the equipment. To determine this, the available fault current at the transformer secondary terminals must be calculated. This would require knowing the impedance on the line side of the transformer. By assuming an "infinite bus" (ignore impedance and assume it is zero), changes to the hi-voltage lines that could increase or decrease the impedance can be made and the calculation will remain valid.

**S&B Electrical Consultants**

Monte Ewing ..... Madison ..... 608-225-3416  
Tom Garvey ..... Milwaukee ... 414-852-3696  
Raymond Weber . Wis. Rapids . 715-571-1609

# Three alternate standards approved for commercial buildings

Three alternate standard evaluations have been made by Safety and Buildings Division staff relating to commercial building construction.

They are: 1.) ANSI/AF&PA NDS-2001 National Design Specification for Wood Construction, Wisconsin Frame Builders Association (Evaluation 200318-A); 2.) 2003 International Mechanical Code, sections 507.1 and 507.2 (Evaluation 200319-H); and 3.) Table 2306.2, International Fire Code [IFC] - 2003 (Evaluation 200320-A).

In the first case, the allowable shear parallel to grain, Fv, for lumber have been increased by a factor of almost 2.0. For example, the design Fv for Douglas Fir-South in the 1997 standard is 90 psi compared to 135 psi in the 2001 NDS and, for Spruce-Pine-Fir, is 70 compared to 135 psi.

In the second case, the 2003 IMC 507.1 and 507.2 provisions were recognized because the adopted provisions of the 2000 IMC did not specifically prohibit nor recognize recirculating kitchen hoods and ventless appliances. The 2003 IMC provisions clarified the acceptance and use



of these types of appliances in Wisconsin.

The third evaluation finds that in high-piled combustible storage buildings, smoke and heat removal (smoke and heat vents) is not required for storage areas protected by an early-suppression fast response (ESFR) automatic sprinkler system

The evaluations are on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-CommercialBuildingsXProductE.html>, or in writing from Margaret Slusser, 608-261-6546, [msslusser@commerce.state.wi.us](mailto:msslusser@commerce.state.wi.us).

For info on the first case, contact Larry Swaziek, S&B Code consultant, 608-267-7701, and for the second case, Jim Quast, S&B Code Consultant, 608-266-9292. For the third evaluation, contact Jim Smith, S&B Code Consultant, 608-266-0251.

## Wisconsin Commercial Building Code Certification Training



**\*\*2003 Fitchburg Fall Session Sept. 16 thru Dec. 23**

*Classes will be at the Fitchburg City Hall 5520 Lacy Road*



**\*\*2004 Milwaukee Winter Session January 6 thru April 13**

*Classes will be at the City of Milwaukee Neighborhood Services Bldg, 4001 South 6th Street*

Classes will be held on consecutive Tuesdays from 9:30 a.m. until 3:30 p.m. Lunch breaks will be from noon until 1 p.m.

Lunch will not be provided. The cost of the 15 weeks is \$240 per attendee.

Registration forms on the WebSite, <http://www.commerce.state.wi.us/SB/SB-DivContinuingEducation.html>, or call Henry Kosarzycki, 262-548-8615

## Fax or email technical code questions to:

- Commercial buildings, Comm 61-65 ..... 608-283-7402 ..... [bldgtech@commerce.state.wi.us](mailto:bldgtech@commerce.state.wi.us)
- Fire protection systems ..... 608-283-7405 ..... [fireprotech@commerce.state.wi.us](mailto:fireprotech@commerce.state.wi.us)
- Plumbing, cross connection ..... 608-283-7403 ..... [plbgtech@commerce.state.wi.us](mailto:plbgtech@commerce.state.wi.us)
- Private onsite wastewater treatment ..... 608-283-7404 ..... [powtstech@commerce.state.wi.us](mailto:powtstech@commerce.state.wi.us)
- Public swimming pools ..... 608-283-7406 ..... [pooltech@commerce.state.wi.us](mailto:pooltech@commerce.state.wi.us)
- Building and plumbings products ..... 608-283-7407 ..... [productech@commerce.state.wi.us](mailto:productech@commerce.state.wi.us)
- Licenses, certifications, registrations ..... 608-283-7400 ..... [madisoncred@commerce.state.wi.us](mailto:madisoncred@commerce.state.wi.us)
- Manufactured/mobile homes ..... 608-283-7401 ..... [manf-homes@commerce.state.wi.us](mailto:manf-homes@commerce.state.wi.us)
- One- and Two-family Dwelling Code ..... [udctech@commerce.state.wi.us](mailto:udctech@commerce.state.wi.us)



# Seismic calculations won't slow plan reviews

When scheduling commercial building plan reviews, a designer no longer has to worry about whether the review will be delayed because it involves seismic load calculations. (Information on available plan review dates and a link to the S&B WebSite scheduling page is on this page, <http://www.commerce.state.wi.us/SB/SB-DivDailyDoc.html>.)

S&B has expanded the staff trained to do seismic load reviews and doesn't now need to direct such plans to a few reviewers, which previously caused some delays for designers needing seismic reviews.

When designing the lateral load resistance system of a building or structure, a designer determines and uses the greater factor between seismic loads or wind loads.

Safety and Buildings Division staff experience is that for seismic design category "A" (per Comm 62.1614(1) and IBC 1614.1) and for one-story buildings, wind controls in the majority of the cases. Seismic load calculations are not needed for these buildings, if wind controls. The designer needs to be sure to indicate the seismic review threshold on the review application form (SBD-118). Also, when wind load controls, plan submittal documents should provide the

appropriate wind load design data as listed in IBC 1603.1.4.

When seismic giverns, and the design involves building categories B-F, more than one story, calculations for the seismic loads are to be submitted for plan review with the building plans.

For more information, contact any of the commercial Building Plan Reviewers listed on page 11 of this *WCCR*.

## Pewaukee exam site will fill sooner

The Pewaukee Safety and Buildings Division license examination has been the one for which registrations fill earliest of the four sites (also Wausau, Black River Falls, and Madison).

S&B has had three people to monitor the 150 available seats.

Because of staff reductions, the division will have only two people to monitor the exams and the number of seats has been reduced to 100.

Therefore, it is even more important that if you wish to take an exam in Pewaukee, you register early.

You can check the exam schedule for 2003 and 2004 online, <http://www.commerce.state.wi.us/SB/SB-CredentialProgram.html>.

For more information contact the S&B Credentialing Unit, [madisoncred@commerce.state.wi.us](mailto:madisoncred@commerce.state.wi.us), 608-261-8500.

### New email groups for S&B programs

Email groups has been set up for six specific S&B programs: Plumbing, Commercial Buildings, POWTS, Uniform Dwelling Code, Public Sector Safety, and Forms. You can sign up to receive occasional messages from the Safety and Buildings Division with news that is important if you're interested in that program topic. See the S&B WebSite:

<http://www.commerce.state.wi.us/SB/SB-DivLatestNews.html>



**If you hear someone remark they didn't see the August WCCR**, please remind them that the publication is no longer sent out free to all plumbing credential holders. See page 10 for subscription info.

**The Wisconsin Plumbing Products Register** is on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-PubsPlumbingProductsRegister.html>

# Garage floor drainage for one- and two-family residences?

Question: Minimally, what type of drainage is required for a one- or two-family dwelling garage floor?

Answer: The garage floor must be sloped toward the main exterior garage opening or toward an interior drain, according to Comm 21.203. It would also be acceptable to slope the floor away from the main garage opening as long as the water is discharged to the exterior grade through an opening that will not cause any damage to any structural member or wall covering of the garage or the dwelling. See examples Figures 1, 2, and 3.

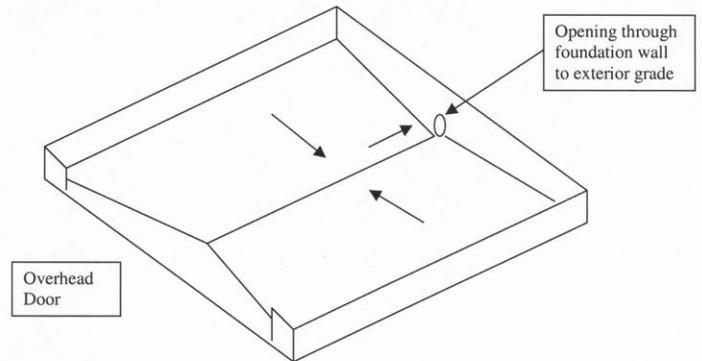
Question: If I choose to install a floor drain, what code requirements must be met?

Answer: The floor drain and its associated piping must be installed in accordance with the plumbing code, Comm 82. Since this work is considered plumbing, it must be done by an appropriately licensed plumber.

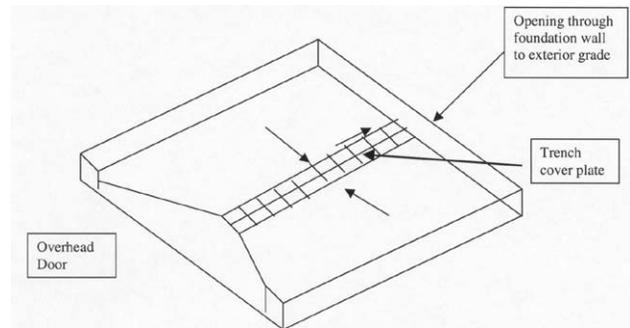
Although not all-inclusive, sections of specific interest are: Comm 82.34(4)(b), Garages for one- and 2-family dwellings; Appendix A-82.34(4)(b) and Table 82.38-1 9., Allowable discharge points by fixture or specific uses.

You may access Comm 82 on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-DivCodesListing.html>.

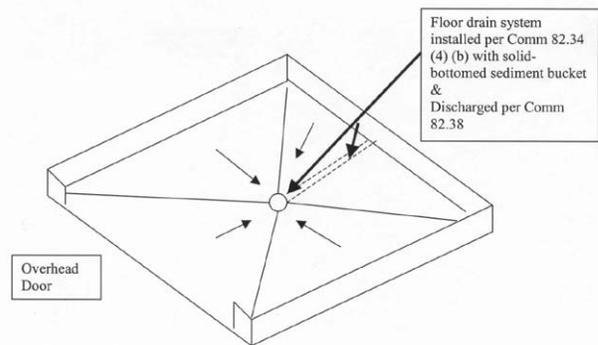
If you have questions, contact Larry Swaziek, One- and 2-Family Program Manager, 608-267-7701, [Lswaziek@commerce.state.wi.us](mailto:Lswaziek@commerce.state.wi.us), or Lynita Docken, Plumbing Program Manager, 608-785-9349, [Ldocken@commerce.state.wi.us](mailto:Ldocken@commerce.state.wi.us).



**Figure 1**  
Floor Sloped to Back of Garage



**Figure 2**  
Trench Sloped to Back of Garage



**Figure 3**  
Floor Sloped to Interior Drain

**State administrative codes are on the Internet, <http://www.legis.state.wi.us/rsb/code/codtoc.html>. Paper copies may be purchased from Document Sales, 800-362-7253, for credit card purchases, or 608-266-3358.**

# Get a grip on climbing wall safety inspections

The U.S. Consumer Product Safety Commission (CPSC) in August requested owners, operators, state safety officials, and people renting climbing walls, to closely inspect the climbing walls and all equipment



in accordance with manufacturers' instructions and guidelines for operation, repair, maintenance and set-up.

There have been several recent reported mechanical or equipment problems with the walls, including one recently in Oshkosh.

Mobile climbing walls are customarily used at fairs, carnivals, festivals, sporting events, and promotional events. Users of rock walls

or climbing walls vary in age from children to adults.

For more information on rock climbing walls, or other amusement ride safety topics, contact Dave Vriezen, S&B Section Chief, 608-266-2503, [dvriezen@commerce.state.wi.us](mailto:dvriezen@commerce.state.wi.us). The CPSC bulletin can be found on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-AmusementRidesProgram.html>.

## Recently approved building material evaluations

200318-A, ANSI/AF&PA NDS-2001 National Design Specification for Wood Construction  
200320-A, Table 2306.2, International Fire Code - 2003

200308-G, Revised, FireMaster FastWrap, Commercial Kitchen Grease & Air Ventilation Duct Enclosure Systems, Thermal Ceramics  
200319-H, 2003 International Mechanical Code Section 507.1 and 507.2

200111-O, (Replaces 950068-0) Cement Bonded Particleboard, Viroc/Portugal-Industrias de Madeira (Not available electronically.)

(Evaluation letters are available on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-CommercialBuildingsXProductE.html>, or contact Margaret Slusser, [msslusser@commerce.state.wi.us](mailto:msslusser@commerce.state.wi.us), 608-261-6546.)

## Statements of Scope for Rental Weatherization and Wisconsin Fund

Comm 67, Rental Unit Energy Efficiency, and Comm 87 Private Sewage System Replacement or Rehabilitation Grant Program, are the subject of scoping statements that have been prepared by Department of Commerce staff.

Scoping statements are mandated outlines of code development work planned by a state agency, done in advance of commencing the effort.

The statements are available on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-DivCodeDevelopment.html>. Or, interested parties may contact Jean MacCubbin, Code Consultant, 608-266-0995, [jmaccubbin@commerce.state.wi.us](mailto:jmaccubbin@commerce.state.wi.us).

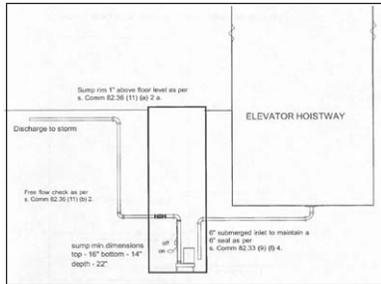
**Pages for individual S&B programs on the WebSite**  
<http://www.commerce.state.wi.us/SB/SB-HomePage.html>

**Plumbing information in a Q&A format organized by code section is on the S&B WebSite: <http://www.commerce.state.wi.us/SB/SB-PlumbingDatabaseReport.html>**

## Improved exam drawings

S&B has improved its ability to produce clear, up-to-date drawings for the plumbing exams.

Moving from hand-produced drawings to computer-aided-design (CAD) drawings will make things visually clearer for people taking exams and reinforce the division's ability to keep the exam drawings current.



### Delegated Agents

Some municipalities in Wisconsin have authority to do building or fire prevention plan review, inspections, and otherwise carry out code-related functions as delegates of the Department of Commerce. For information and a list of current delegated municipalities, see the S&B WebSite, [www.commerce.state.wi.us/SB/SB-CommercialBuildingsCertifiedMunicipalities.html](http://www.commerce.state.wi.us/SB/SB-CommercialBuildingsCertifiedMunicipalities.html).

### Change in distribution of Plumbing Products Register

The *Wisconsin Plumbing Products Register* will no longer be mailed free to plumbing and POWTS inspectors. The publication is on the Internet, <http://www.commerce.state.wi.us/SB/SB-PubsPlumbingProductsRegister.html>. To order paper copies of the next three issues of the publication, which is produced every four months, send a letter of request and a \$25 check to Material Orders, PO Box 2509, Madison, WI 53701.

UW-Madison Small Scale Waste Management Project will offer an all-day **POWTS Maintainer-Qualifier class** Tuesday, October 21, 2003, Arlington UW Research Station

A.M. - Pretreatment/Treatment Systems (classroom)  
P.M. - Evaluation and Maintenance (classroom and field)

Six credit hours for to obtain POWTS maintainer, and, continuing education credits for inspector, maintainer, soil tester, plumber (not appliance) and septage hauler (DNR) credentials.

Fee \$70. Instructor: Jim Converse, UW-Madison. Brochures will be available in September.

For more information, contact Jim Peterson, UW Environmental Resources Center, 1545 Observatory Drive, Madison, 53706; 608 262-3799; [jopeters@wisc.edu](mailto:jopeters@wisc.edu)

Purchase a compact disc electronic copy of the "Wisconsin Commercial Building Enrolled Code" with search capabilities.

See <http://www.commerce.state.wi.us/SB/SB-DivCodesListing.html>

# November 1 Refrigeration code changes are important updates

On November 1, 2003, changes to Comm 45, Mechanical Refrigeration administrative code, go into effect, notably with the adoption of the International Mechanical Code (IMC-2000), ASHRAE 15-1994, and IAR-2 1999 International Standards. The new Comm 45 contains basically the same administration and enforcement provisions as the current version.

Comm 45 contains minimum safety standards for the design, construction, installation, operation, inspection, repair and maintenance of mechanical refrigeration systems.

The new rules require compliance with the 2000 edition of the IMC, as incorporated by reference in the Wisconsin Commercial Building Code (Comm 61-65). The new rules also include most of the requirements from the current edition of the ASHRAE 15 standard, (the Safety Code for Mechanical Refrigeration, published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers), as well as the IAR 2 standard published by the International Institute of Ammonia Refrigeration, as referenced in the IMC.

In addition to the requirements in IMC chapter 11, Refrigeration Piping and Heat Transfer Components, ASME B31.5 - 2001, is incorporated by reference into Comm 45. Therefore, refrigeration piping shall comply with ASME B31.5 - 2001, Refrigeration Piping and

Component Installation Requirements.

Before the effective date, the new Comm 45 will be linked from

the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-DivCodesListing.html>.

You can order paper copies of Comm 45 from state Document Sales, 800-362-72537.

IMC-2000 can be obtained from the International Code Council, <http://www.iccsafe.org/codes/>, 888-699-0541. The IMC 2000 is part of the Enrolled Wisconsin Commercial Buildings Code, order form on page two of this WCCR, or online, <http://www.commerce.state.wi.us/SB/SB-DivCodesListing.html>.

ASME B31.5-2001 can be ordered from American Society of Mechanical Engineers <http://www.asme.org/>, 800-843-2763.

ASHRAE-15 1994 is available from the American Society of Heating, Refrigeration, and Air Conditioning Engineers, <http://www.ashrae.org/>, 800-527-4723.

IAR-2 1999 is ordered from International Institute of Ammonia Refrigeration, 703-312-4200



## Voltage testers and cordless drills recalled

Ideal Industries is voluntarily recalling Ideal Solenoid Voltage Testers. These testers reportedly can short out at high voltages, possibly causing burns.

For more information, 877-557-8598, [www.idealindustries.com](http://www.idealindustries.com).



Black & Decker is voluntarily recalling about 265,000 18-volt cordless drill/drivers. The drill's switch can malfunction and overheat, posing the possibility of a fire hazard to consumers.

For more information, 866-821-5444, [www.blackanddecker.com](http://www.blackanddecker.com).

## Safety and Buildings Offices

Green Bay Office  
2331 San Luis Pl #150  
Green Bay WI 54304  
920-492-5601  
Fax 920-492-5604  
planschedule@commerce  
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Madison Office  
201 W Washington Ave  
PO 2658  
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608-266-3151  
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planschedule@commerce  
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Hayward Office  
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Hayward WI 54843  
715-634-4870  
Fax 715-634-5150  
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.state.wi.us

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Shawano WI 54166  
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Fax 715-524-3633  
planschedule@commerce  
.state.wi.us

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4003 North Kinney  
Coulee Road  
LaCrosse WI 54601  
608-785-9334  
Fax 608-785-9330  
planschedule@commerce  
.state.wi.us

Waukesha Office  
141 NW Barstow St, 4th flr  
Waukesha WI 53186  
262-548-8600  
Fax 262-548-8614  
planschedule@commerce  
.state.wi.us

### Elevator Inspectors

David Holmes ..... Eau Claire ..... 715-828-5901  
Jim Kreuzer ..... Tomah ..... 608-235-0603  
Timothy Marty ..... Appleton ..... 920-428-9422  
James Pacala ..... Woodruff ..... 715-296-2906  
George Poblocki ..... Amherst ..... 715-340-0109  
Roger Robbins ..... De Pere ..... 920-366-2470  
Ted Stinson ..... Waukesha ..... 414-852-3627  
Frank Wozniak ..... Waukesha ..... 414-315-8102  
Dan Graham, Superv. .... Madison ..... 608-266-0056

### Fire Protection Systems

Keith Glaunert ..... Waukesha ..... 262-548-8604  
Lynne LeCount ..... Green Bay ..... 920-492-7727  
Bill Sullivan ..... Madison ..... 608-266-9643

### POWTS Wastewater Specialists

Ross Fugill ..... Shawano ..... 715-524-3629  
Leroy Jansky ..... Chippewa Falls ..... 715-726-2544  
Matthew Janzen ..... Stevens Point ..... 715-345-5336  
Carl Lippert ..... Hayward ..... 715-634-3484  
Karl Schultz ..... Oshkosh ..... 920-428-9719  
Dennis Sorenson ..... La Crosse ..... 608-785-9336  
Duane Steiner ..... Baraboo ..... 608-235-0608  
Allen Wendorf ..... Madison ..... 608-235-0595  
Harold Stanlick, Superv. Waukesha ..... 262-521-5065

### Public Swimming Pool Reviewer

Glen Jones ..... Madison ..... 608-267-5265

## Industrial Hygienists

Tom Pritchett ..... Lodi ..... 608-576-4123  
Susen Trail ..... Athens ..... 715-571-4540  
Dave Vriezen, Superv. Madison ..... 608-261-2503

### Plumbing Consultants

Tom Braun ..... Stevens Point ..... 715-340-5387  
Don Hough ..... Hayward ..... 715-634-4804  
Tim Joyce ..... Madison ..... 608-235-0557  
Don Oremus ..... Pelican Lake ..... 715-584-2007  
Jim Zickert ..... Eldorado ..... 920-948-7336  
Harold Stanlick, Superv. Waukesha ..... 262-521-5065

### Plumbing Plan Reviewers

Herman Delfosse ..... La Crosse ..... 608-789-5535  
Tom Devereaux ..... Hayward ..... 715-634-3026  
Wes Grube ..... Green Bay ..... 920-492-5613  
Chester Kintop ..... Waukesha ..... 262-548-8634  
Dan Kraft ..... Madison ..... 608-266-8075  
Ken Pertzborn ..... Madison ..... 608-267-2242  
Curt Wendorff ..... Shawano ..... 715-526-9056

### POWTS Plan Reviewers

Charles Bratz ..... La Crosse ..... 608-789-7893  
Tom Devereaux ..... Hayward ..... 715-634-3026  
Wes Grube ..... Green Bay ..... 920-492-5613  
Robert Kanter ..... Madison ..... 608-261-7735  
Julia Lewis-Osborne ..... Waukesha ..... 262-548-8638  
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