

COMMERCIAL BUILDING CODE UPDATE 2010

Part I of III

**Northwest Wisconsin Building
Inspectors Association
25 February, 2010**

James B. Smith, P.E.

Program Manager

(608) 266-0251 or Jim.Smith@wi.gov

What's in **Part I** of III?

- **An explanation as to what is covered in the day long session.**
- **What's on the horizon for the Wisconsin Commercial Building Code [WCBC] and the related rules.**
- **Preview of the proposed new Wisconsin Commercial Building Code [2009 I-Codes]**
- **Refresher on the current Wisconsinisms to the IBC part of the WCBC [Ch. Comm 62] up to Chapter 9 of the IBC**

COMMERCIAL BUILDING CODE UPDATE 2010

Northwest Wisconsin Building Inspectors Association

25 February, 2010

James B. Smith, P.E.
Program Manager

(608) 266-0251 or Jim.Smith@wi.gov

What's the Session About?

- **What's on the horizon for the Wisconsin Commercial Building Code [WCBC] and S & B**
- **Preview of the proposed new Wisconsin Commercial Building Codes**
- **Refresher on the current Wisconsinisms to the IBC part of the WCBC [Ch. Comm 62]**

***Contractor
Registration
Update***

Cont. Registration - History

- ❑ Contractor “Registration”
- ❑ Public Hearings were held on January 21, 2009
- ❑ Emergency rules in effect March 2, 2009
- ❑ Final Rules effective October 1, 2009

Carbon Monoxide

Detectors/Alarms

Carbon Monoxide Detectors

- **History**

- **Emergency Rules issued on 9/3/2008 as a result of Legislation**
- **Normal Rules followed 6/1/2009**
- **Modifications to be within fire package as a result of public hearing comments (PH 12/18/09)**

CO Det. Req's. – Helpful Tool

<http://commerce.wi.gov/SBdocs/SB-Fire Protec Carb Mono 0908.pdf>

Carbon monoxide poisoning endangers lives.

Local municipal building officials are the best source of information concerning carbon monoxide alarms in new construction.

In the future, fire department inspectors will be checking the installation of CO alarms during annual fire safety inspections.

The Department of Commerce is an equal opportunity service provider and employer. If you need assistance to access services or need materials in an alternate format, please contact the department at 608-266-3151 or TDD Relay dial 711 in Wisconsin, 800-947-3159 outside.

Statutory Installation Requirements in 2007 Wisconsin Act 205

(2) **INSTALLATION REQUIREMENTS.** (a) Except as provided in par. (b), the owner of a residential building shall install a carbon monoxide detector in all of the following places not later than the date specified under par. (c):

1. In the basement of the building if the basement has a fuel-burning appliance.
2. Within 15 feet of each sleeping area of a unit that has a fuel-burning appliance.
3. Within 15 feet of each sleeping area of a unit that is immediately adjacent to a unit that has a fuel-burning appliance.
4. In each room that has a fuel-burning appliance and that is not used as a sleeping area. A carbon monoxide detector shall be installed under this subdivision not more than 75 feet from the fuel-burning appliance.
5. In each hallway leading from a unit that has a fuel-burning appliance, in a location that is within 75 feet from the unit, except that, if there is no electrical outlet within this distance, the owner shall place the carbon monoxide detector at the closest available electrical outlet in the hallway.
6. If a unit is not part of a multiunit building, the owner of the residential building need not install more than one carbon monoxide detector in the unit.

Find this carbon monoxide brochure online: <http://commerce.wi.gov/SB/SB-PubCarbMonoBroch1008.pdf>

S&B also has a "Making Wisconsin Nights Safer" smoke detector brochure online: <http://commerce.wi.gov/SBdocs/SB-SmokeAlarmBroch8262.pdf>

Wisconsin Department of Commerce

Carbon monoxide is dangerous!

Carbon monoxide (CO) is a colorless, odorless gas produced by incompletely burning fuel containing carbon. Carbon monoxide poisoning can cause brain damage and death. You can't see it, smell it, or taste it, but carbon monoxide can kill. CO can be formed, for example, by open flames, or fuel-burning space heaters, water heaters, furnaces, boilers, and clothes dryers.

- Carbon monoxide is the leading cause of accidental poisoning deaths in the United States. The federal Centers for Disease Control estimates CO poisoning annually claims nearly 500 lives, and causes more than 15,000 visits to hospital emergency rooms.
- Carbon monoxide is produced by common household fuel-burning appliances. When not properly vented, carbon monoxide from these appliances can build up in a room or building, displacing oxygen.
- Early symptoms of carbon monoxide poisoning such as headaches, nausea, and fatigue, are often mistaken for something other than CO because the deadly gas goes undetected as it builds up in a building. Prolonged exposure can lead to brain damage and death.

What is a carbon monoxide alarm?

A carbon monoxide alarm is a device that will detect the presence of carbon monoxide (CO) and create a noise which gives people in the area a chance to safely leave the building. CO alarms by themselves are not smoke detectors and vice versa. However, there are combination smoke/CO alarms. CO alarms are usually plugged into wall electrical outlet or wired directly into a building's electrical system.

What are the new requirements in Wisconsin for carbon monoxide alarms?

The new regulations were issued as emergency rules by the state Department of Commerce, Safety and Buildings Division, as required by April 2008 legislation titled "2007 Wisconsin Act 205".

See the emergency rules for current technical aspects of alarm locations, etc. <http://commerce.wi.gov/SBdocs/SB-CodeDev2162Emerg0908.pdf>

Requirements for new tourist rooming houses (cabins under the scope of Wisconsin's Uniform Dwelling Code, Comm 21.095) as of October 1, 2008:

- Installation of carbon monoxide alarms where any type of fuel burning appliances are installed.
- The carbon monoxide alarms must be continuously powered by the building's electrical service with battery backup.

Requirements for new commercial - residential buildings as of October 1, 2008 (Commercial Building Code, Comm 62.1200):

- Installation of carbon monoxide alarms where any type of fuel burning appliances are installed.
- The carbon monoxide alarms must be continuously powered by the building's electrical service with battery backup.

Requirement for commercial - residential buildings existing on October 1, 2008, or receiving plan approval prior to October 1, 2008 (Act 205 itself, not the emergency rules, puts in place these requirements for existing tourist rooming houses):

- Installation of carbon monoxide alarms by April 1, 2010.
- No mandatory type of power sources for the carbon monoxide alarms, thereby allowing batteries, electrical outlet plug-ins, or wiring directly to the building's electrical service.
- Omission of carbon monoxide alarms is allowed provided there are no attached garages and all of the fuel burning appliances are of sealed combustion type either under warranty or annually inspected for carbon monoxide emissions.

Design, Build, and Maintain Safety!

**Energy Use
and
Green Codes**

Energy Legislation & WCBC

- **Current Legislation – SB 450**
 - **Voluntary/Alternative Green Code**
 - **Staying current with IECC**
 - **DOA to use the “Voluntary Code” for many State owned buildings.**

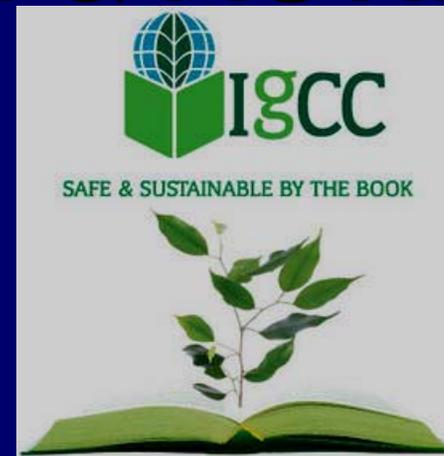
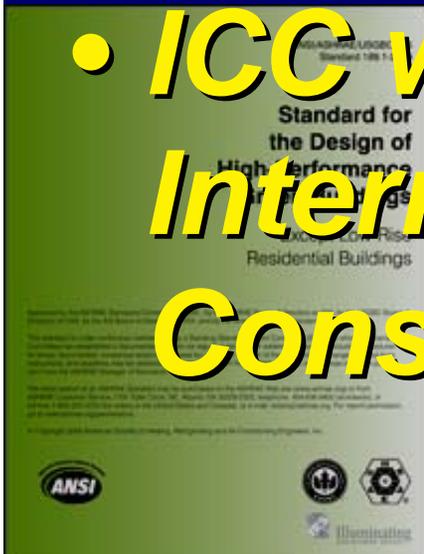
Energy/WCBC – SB 450 (cont)

- **Voluntary/Alternative Green Code**
 - **ICC & ASHRAE already have Green Codes available for use or are well along in the development process**



Energy/WCBC – SB 450 (cont)

- **ASHRAE with USGBC & IES, *Standard 189.1-2009, Standard for the Design of High-Performance Green Buildings***
- **ICC with CBSC, AIA & ASTM, *International Green Construction Code***



Updating the WCB

WI Comm. Bldg. Code - Future

- Most recent joint meeting of CBCC & MDCC on Thursday 1/21/2010
- Updated Specialty Advisory Council Timeline

•Existing Bldgs [IEBC]	•Means of Egress
•Structural	•Fire Safety
•Fire Prot. Systems	•General
•Energy [IECC]	•HVAC [IMC & IFGC]

**WCBC SPECIALTY SUBJECT
[ICC Codes - 2009 Editions]
Advisory Council Meetings**

Date	IEBC	Egress	Struct.	Fire Prot. Systems	Fire Safety	General	Energy (IECC)	HVAC (IMC & IFGC)
Feb 2009								
Mar 2009								
April 2009		X (4/29)		X (4/21)		X (4/16)		
May 2009					X (5/28)			
June 2009		X (6/24)						
July 2009				X (7/21)		X (7/28)		
Aug 2009	X (8/18)		X (8/5)		X (8/26)		X (8/11)	X
Sept 2009			X (9/16)					X (9/24)
Oct 2009	X (10/27)		X (10/30)(X (10/6 & 10/28)	
Nov 2009		UMB (11/19)		UMB (11/19)		UMB (11/19)		X (11/12)
Dec 2009								X (12/17)
Jan 2010	UMB (1/21)		UMB (1/21)		UMB (1/21)			
Feb 2010								
Mar 2010							UMB	UMB
April 2010								
May 2010	PUBLIC HEARINGS							
June 2010								
July 2010								
Aug 2010	Must be submitted to Legislature before Sept 1, 2010							

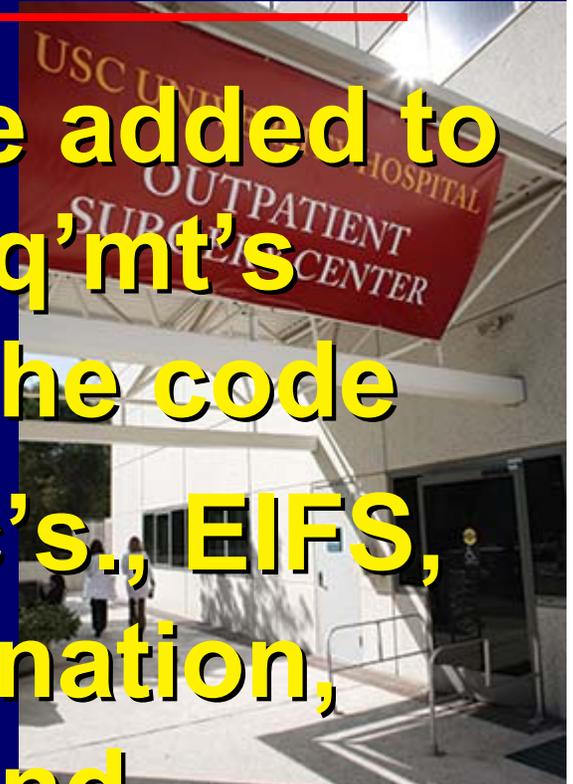
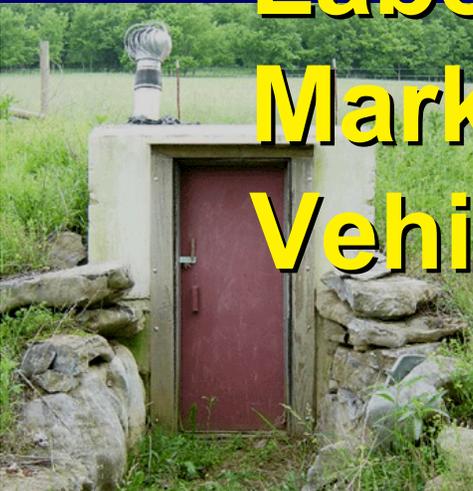
Significant Changes - 2009

- For this presentation, the focus will be on those changes that are newly added provisions.
- Segments broken down by WCBC Chapter & the related model code
- Within each segment, start with the model code changes and finish with Wisconsinisms.

The IBC

IBC Significant Changes

- A few definitions were added to correspond to new req'mt's sprinkled throughout the code
- Amb. Health Care Fac's., EIFS, Labeled, Mfg's Designation, Mark, Storm Shelter and Vehicular Gate



IBC Changes (cont)

- **Chapter 3 includes a few definitions and provisions that relate to uses more heavily regulated elsewhere in the code**
- **Clinic-Outpatient, Live/Work Units, Nursing Homes, Hospitals And Mental Hospitals, Detox. Facilities, EIFS, Labeled, Mfg's Designation, Mark, Storm Shelter & Vehicular Gate**

IBC Significant Changes

- s. 422 Adds Provisions for Amb. Health Care Fac's.
- s. 423 Adds Storm Shelter provisions & ref. to ICC 500
- S. 509.9 Clarifies that one can have multiple bldg's. above or below the horiz. sep'n of ss. 509.2, 509.3 & 509.8



IBC Changes (cont.)

- **ss. 708.14.2.2 and 708.14.2.7 thru 708.14.2.10 Adds Provisos for elev. hoistway pressuriz'n incl. Rational Analysis, I.D.ing, Ctrl. Diag's, & Sys. Response Time.**
- **s. 716.5.6 Adds rqmt's for HVAC duct or grille open'gs in exterior walls.**



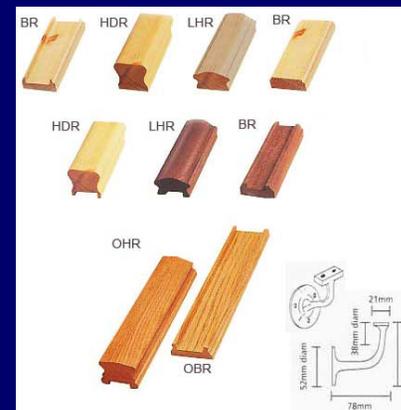
IBC Changes (cont.)

- **s. 913.2.1 Adds Provisos for the protection [fire-res. Rating or distance] of rooms housing fire pumps**
- **ss. 1008.1.9.6, 1008.1.9.8 & 1008.1.9.9 add new locking provisions (I-2, Electromag. Fail Safe & I-3)**



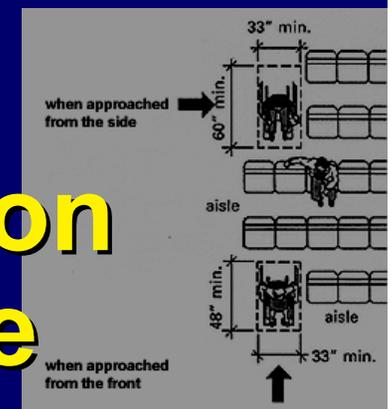
IBC Changes (cont.)

- s. 1009.14 Adds Provisos for a stairway to access a penthouse if maint. is req'd from rooftop
- ss. 1012.3, 1012.3.1 & 1012.3.2 adds provisions for Type I & Type II handrails.



IBC Changes (cont.)

- s. 1013.1.1 is added to include requirements for glazing used as a guard.
- s. 1103.2.13 adds provisions to clarify usability for live/work units evaluated separately
- s. 1108.2.3 req's a companion seat at ea. wheelchair space

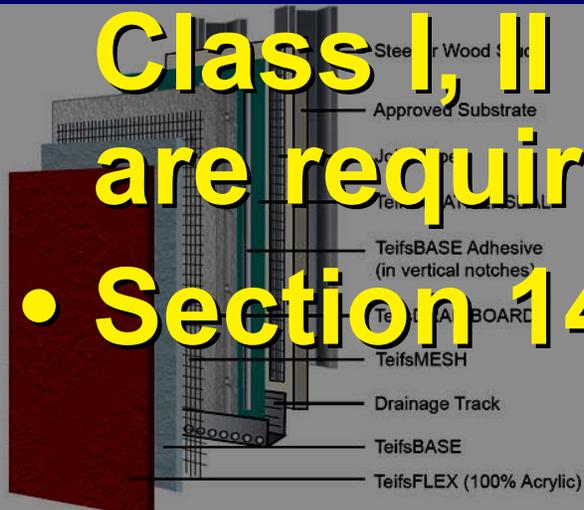


IBC Changes (cont.)

- s. 1109.2.3 requires a lav. with enhanced reach ranges in toilet rooms having 6 or more lav's
- s. 1405.3 (1405.3.1 – 1405.3.2) includes provisions for where

Class I, II & III vapor retarders are required

- **Section 1408 added for EIFS**



IBC Changes (cont.)

- s. 1503.4.1 & 1503.4.2 add more reqmt's for secondary drainage and scuppers
- s. 1507.16 adds provisos for roof gardens & landscaping
- s. 1509.2.2 clarifies that penthouses do not add area, stories and are not fire area



IBC Changes (cont.)

- s. 1609.1.2.2 adds clarified impact standards for garage door openings
- s. 1609.6 adds a simplified analytical wind load method from ASCE 7
- Fig. 1611.1 provides intensity for computing rain load on roofs



IBC Changes (cont.)

- **s. 1614.1 – 1614.4 Adds reqmt's and definitions for:**
 - **Struct. Integrity of high-rise bldgs of Occy Cat. III or IV**
 - **Concrete frame & steel frame structures**
 - **Structural integrity & reqmt's for bearing wall structures**



IBC Changes (cont.)

- **s. 1810.3.1.2 provides guidance on the design of composite elements**
- **s. 1810.3.1.5 provides guidance on the design of helical piles**
- **s. 1810.3.9.2 specifies when cast-in-place conc. elements must be reinforced**

IBC Changes (cont.)

- s. 1810.4.11 provides guidance on the installation of helical piles
- s. 1904.2 describes exposure categories that are used to assign exp. classes in ACI 318
- s. 1908.10 provides direction on determin'g conc. breakout strength of anchors



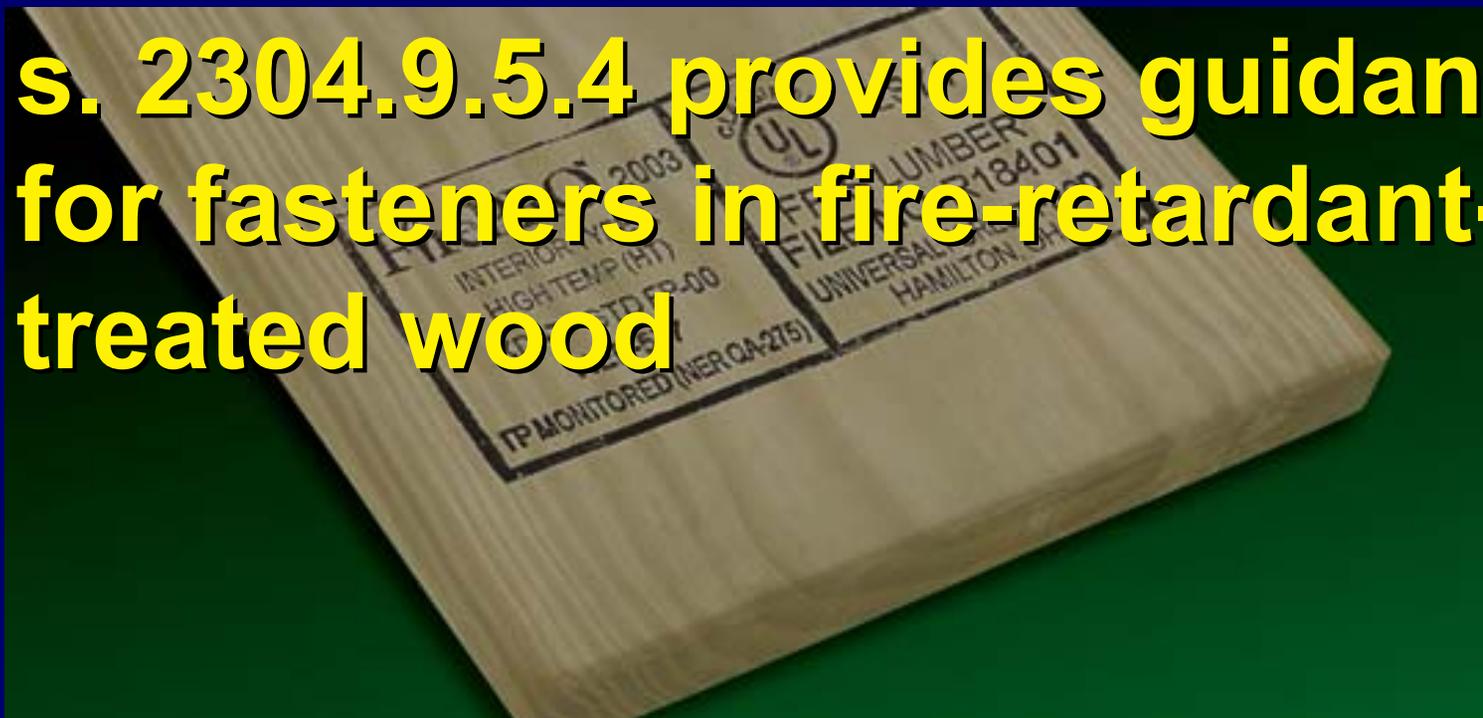
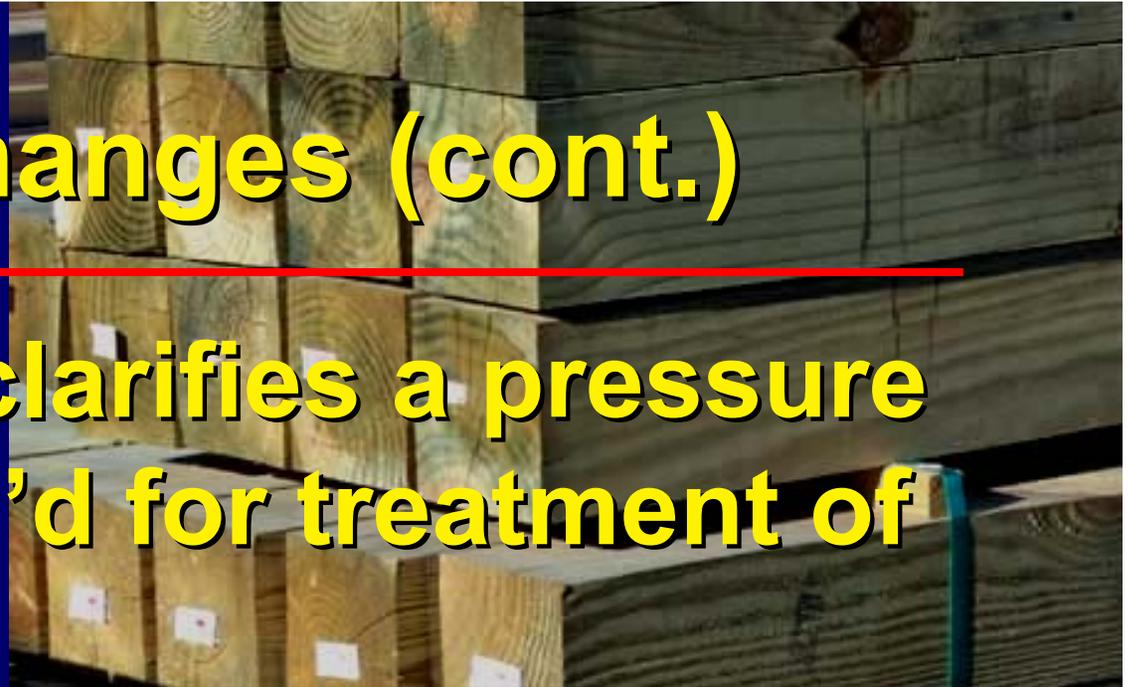
IBC Changes (cont.)

- s. 2209.2.2 provides a referenced standard for noncomposite steel floor decks
- s. 2209.2.3 provides a referenced standard for steel roof decks
- s. 2210.5 provides a referenced standard for cold-formed steel floors & roofs



IBC Changes (cont.)

- s. 2303.2.1 clarifies a pressure process req'd for treatment of wood
- s. 2304.9.5.4 provides guidance for fasteners in fire-retardant-treated wood



IBC Changes (cont.)

- **s. 2406.2 provides impact test requirements for glazing in hazardous locations incl. new Table 2406.2(2)**
- **ss. 2612 & 2613 added to regulate Fiber Reinforced Polymer & Fiberglass Reinf'd Polymer and Reflective Plastic Core Insul'n**

IBC Changes (cont.)

- s. 3008 added to recognize occupant evacuation elevators as alternative exit to 3rd stair in high-rises over 420' in height

- s. 3110 added to better regulate Automatic Vehicular Gates



IBC Proposed Wisconsinisms

- Will modify occupancy provisions of Ch 3 [ss. 308.1, 308.2 & IMC Ch 4] to clarify how licensed health care uses of other State agencies correlate to the WCBC (i.e. informational notes, etc.)

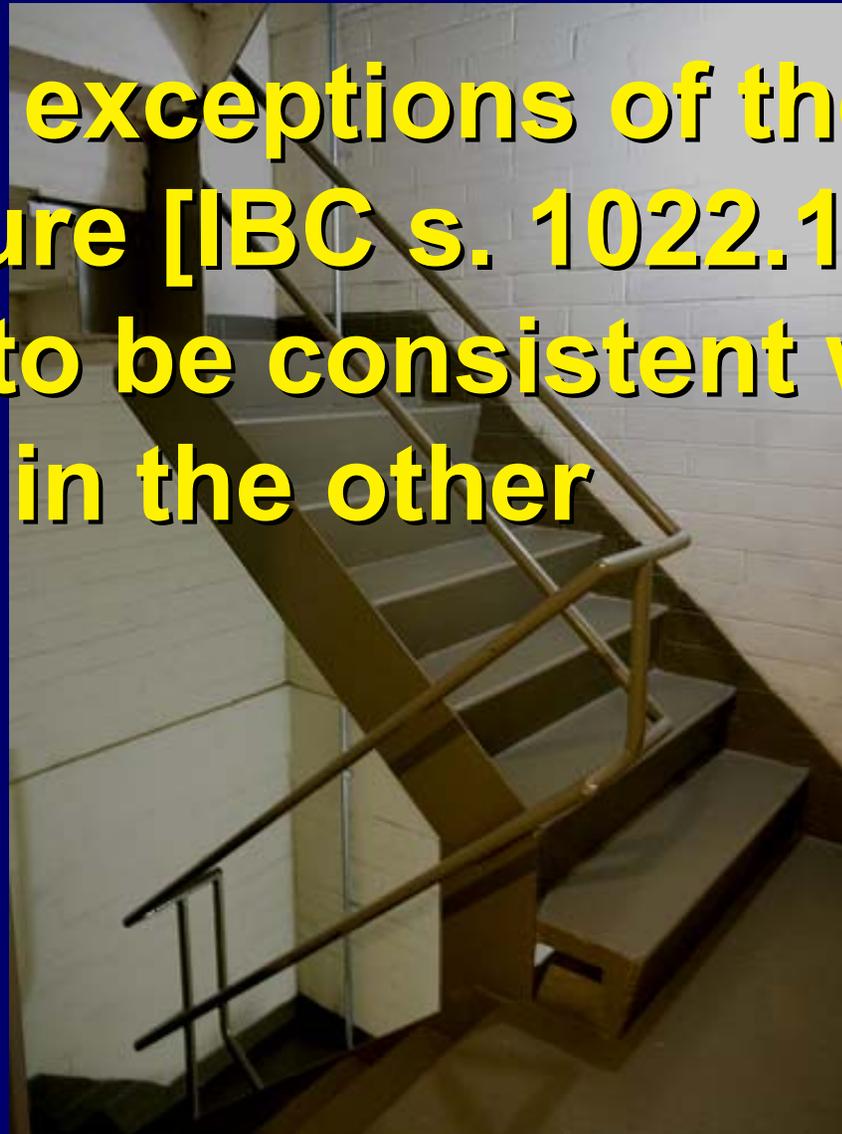


IBC Wisconsinisms (cont)

- Will modify to make firewalls or division walls in [IBC s. 1014] townhouses less restrictive yet still keeping the townhouse exempt from sprinkler protection

IBC Wisconsinisms (cont)

- Modify new exceptions of the exit enclosure [IBC s. 1022.1] provisions to be consistent with terms used in the other exceptions



IBC Wisconsinisms (cont)

- Will add language to allow controls in tubs and showers within reach from outside the tub or shower; allow the controls to be on the back wall for roll-in, 60-inch showers [IBC s. 1109.1]

JAN 10 2008

IBC Wisconsinisms (cont)

- **Modify Ch 11 [IBC s. 1110.1] so that the required international symbol signage is not needed for assigned parking serving a residential apartment building**



IBC Wisconsinisms (cont)

- Add a rule [IBC Ch 29] prohibit'g the installation of drinking fountains, water coolers and bottled water dispensers in public restrooms
- Will add back in “Stretcher Size” elevators (3500#) in more buildings [IBC Ch 30]



THE IECG

IECC Significant Changes

- **s. 303.1.4 Provides ref. to specific standards for R-Value insulation product ratings**
- **s. 402.4.2 adds detail on tightness of buildings (air barriers)**

- **s. 402.4.3 requires woodburning fireplaces to have gasketed doors and comb. Air from outside**



IECC Changes (cont)

- **s. 403.8 adds provisions for control of snow/ice-melting systems**
- **s. 403.9 adds provisions for control of pool pumps and heaters**
- **s. 502.1.2 adds U-factor and R-value alternatives for comm. use insul'n & fenestration reqmt's**

IECC Changes (cont)

- **s. 502.5.1 adds more specific reqmt's on daylighting control schemes**
- **S. 503.2.5.1 adds provisos for a demand controlled ventilation strategy for some spaces >500 SF**

IECC Changes (cont)

- s. 503.2.10 adds new reqmt's for HVAC syst's (fan motor energy use, etc.)
- s. 503.2.11 requires heating of outside spaces to be radiant type and provided with effic'y controls

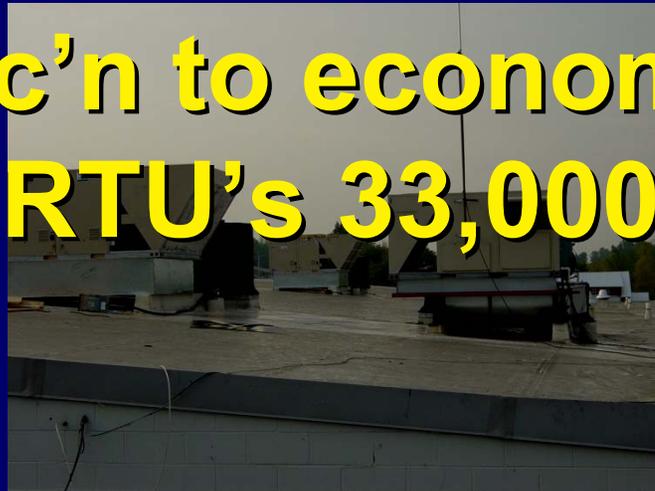


IECC Proposed Wisconsinisms

- **May augment the provisions associated with the definition of conditioned space used throughout the IECC**

IECC Wisconsinisms (cont)

- Add an exc'n so no motorized damper is needed in a duct serving a commercial kitchen Type I hood [Grease reduction type hood - 503.2.4.4 & 502.4.5]
- Add an exc'n to economizers for packaged RTU's 33,000 BTU/hr and larger



IECC Wisconsinisms (cont)

- Will add modification to clarify [s. 504.3.3.2.2] the economizer for hydronic heat pump systems is not required for a closed circuit cooling tower (aka fluid cooler)



THE IMC

IMC Significant Changes

- **s 504.6.3 added to require transition ducts listed/labeled to UL2158A**
- **T-504.6.4.1 added for duct fitting equiv. lengths to correspond to increase in clothes dryer duct length from 25 to 35 ft.**

IMC Changes (cont)

- s. 504.6.7 adds protect'n against dryer exhaust duct penetrations by nails/screws
- s. 504.8 adds prescriptive reqmt's for clothes dryers being exhausted through common shafts in multistory app's



Dangerous Lint Lined Dryer Duct

IMC Changes (cont)

- s. 505.2 adds that make-up air to be provided for domestic kitchen exh. Hoods >400 cfm and tied in to operation of hood
- 506.4.2 adds location reqmt's for Type II hood terminations



IMC Changes (cont)

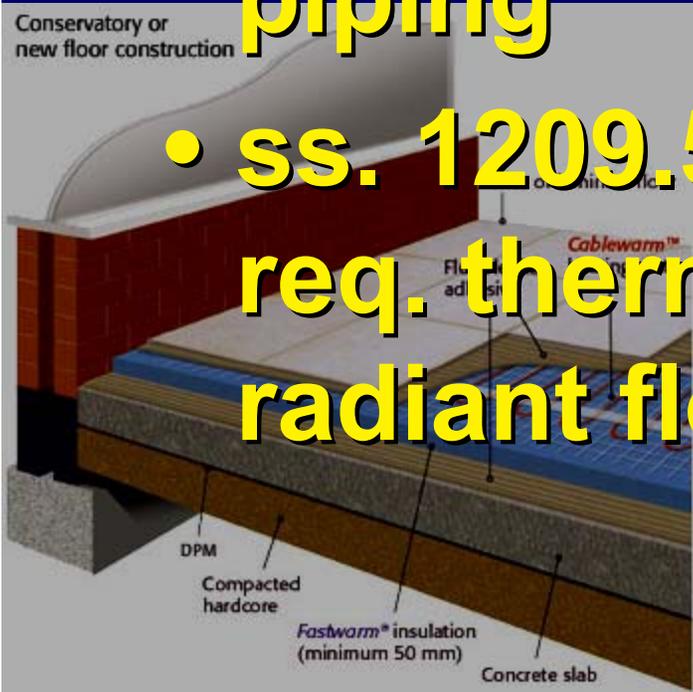
- **ss. 927.1 & 927.2 added to provide ref'd standards for heat recovery ventilators**
- **s. 1101.10 added to require lock'g access ports to outside refrig'n systems**
- **s. 1201.3 adds ASME B31.9 as an alternative to ss. 1202 & 1203**



IMC Changes (cont)

- ss. 1203.16, 1203.17, 1203.18 & 1203.19 added to reg. new materials accepted for hydronic piping

- ss. 1209.5 - 1209.5.4 added to req. thermal insul'n below radiant floor heating syst's



IMC Proposed Wisconsinisms

- **Adding provisions to make Table Comm 64.0403 an alternative to Table 403 instead of a substitute**

THE IFAC

IFGC Significant Changes

- **s. 305.3.1 allows appliances to not be elevated when in a properly isolated separate room**
- **ss. 305.9, 305.10 & 305.11 adds expanded provisions for appliances in parking struct's, rep. garages & hangars**

IFGC Changes (cont)

- s. 305.12 adds reqm't to assure piping installations will not put strain on connections
- s. 310.1.1 adds bond'g/grnd'g provisos specific to Corrugated Stainless Steel Tubing (CSST)
- s. 404.4 prohibits gas piping from entering/exit'g bldg below grade



IFGC Changes (cont)

- s. 404.8 adds provision requir'g LP-Gas piping to be electrically isolated (dielectric fitt'g) where the underground piping enters the building
- s. 409.6 adds reqm't for emerg'y shutoff (master) upstream of table top type gas outlets in labs



IFGC Changes (cont)

- **s. 503.4.1.1 adds reqm't specific to the installation of plastic pipe vent'g Cat. III or IV appliances**
- **s. 503.6.13 adds prohibition on screws/rivets penetrating the inner wall of dbl-wall gas vents except at connection to appliance or a single wall connector**

IFGC Changes (cont)

- **s. 503.10.4.1 adds restrictions where multiple appliances connect to a single vent/flue**
- **s. 503.16 req's sealing of vents penetrating exterior walls**
- **S. 614.6.3 req's clothes dryer exhaust ducts to be protected from penet'n by nails/screws**

IFGC Changes (cont)

- **s. 616.2 prohibit rigid gas connections to equipmn't powered by internal combustion engines**
- **s. 623.7 specifies min vertical clearances between cooktops and materials or cabinets above**

IFGC Proposed Wisconsinisms

- **NONE**

The IEBG

IEBC Significant Changes

- **s. 101.5.4 adds reqmt's that in given situations some existing bldg's will have to be evaluated for seismic adequacy**
 - **Allows alternative procedures found in ASCE 31 or ASCE 41 [ASCE 41 is a standardized version of *FEMA 356 Prestandard & Commentary for the Seismic Rehabilitation of Buildings*]**

IEBC Changes (cont)

- **s. 605.1.9 added reqm't that visible alarms are req'd when >20 R-2 units are being altered, & the number is to be based on the number being altered**
- **s. 606.2.1 indicates when (Seis Des Cat E, F & G) wall anchorage must be added at the roof line as reroofing occurs**

IEBC Changes (cont)

- s. 706.4 adds reqm't that Class A units and visible alarms are req'd when >20 R-2 units are being added into a building, and the number of each is to be based on the number of units being “added”



IEBC Changes (cont)

- **s. 706.5 adds similar reqm't to that of s. 706.4, but when 4 or more I-1, I-2, R-1, R-2, R-3 or R-4 units are being added, the Class B provisos of IBC s. 1107 & visible alarm alarm provisos of IBC s. 907 will apply, but only to the units being added**

IEBC Changes (cont)

- **s. 912.8.1 clarifies that when undergoing a partial change of occupancy, accessibility will be driven by the alteration provisos found in ss. 605 or 706**

IEBC Proposed Wisconsinisms

- Proposing to add a reqm't that existing smoke detectors in Residential occupancies be replaced by “wired” smoke detectors if not alternatively provided with 10-year lithium battery



IEBC Wisconsinisms (cont)

- Proposing to add references to the reroofing provisions that are currently only found in IBC Section 1510



WCBC

Current

Wisconsinisms

WCBBC

Administration

Wisconsin's Administration

- **The WCBC Administrative Chapter [Chapter Comm 61] includes Six Supchapters**
- **I - SCOPE & APPLICATION**
- **II - RESPONSIBILITIES, APPEALS, PETITIONS & PENALTIES**

Admin'n Subchapters (cont)

- **III - PLAN REV. & RELATED FUNCTIONS**
- **IV - SUPERVISION & INSPECTIONS**
- **V - PRODUCT & STANDARD REVIEW & APPROVAL**
- **VI - FIRST CLASS CITY & CERTIFIED MUNICIPALITY APPROVALS**

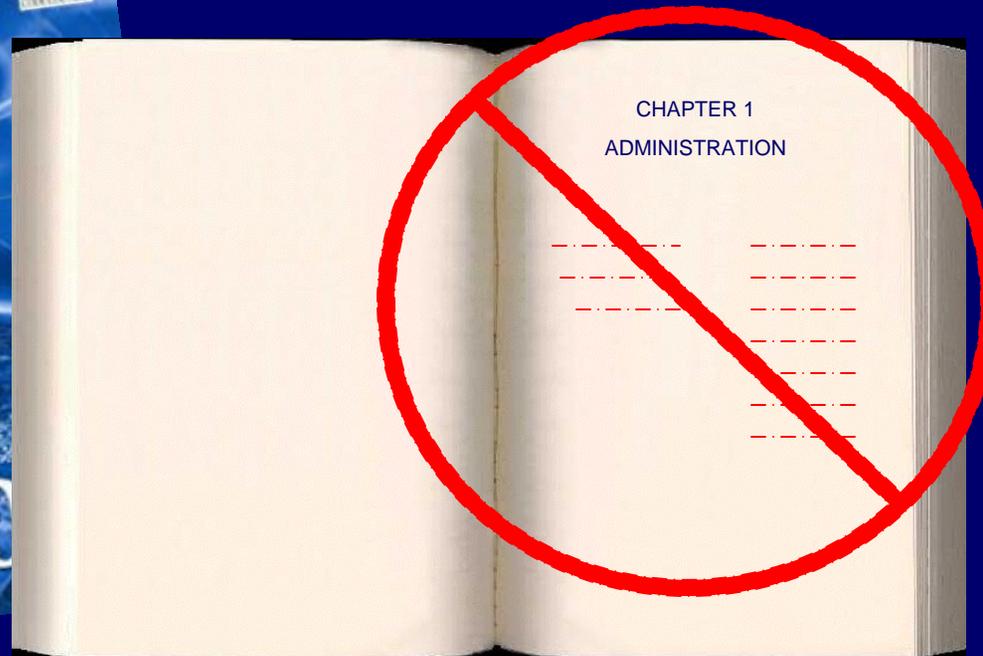
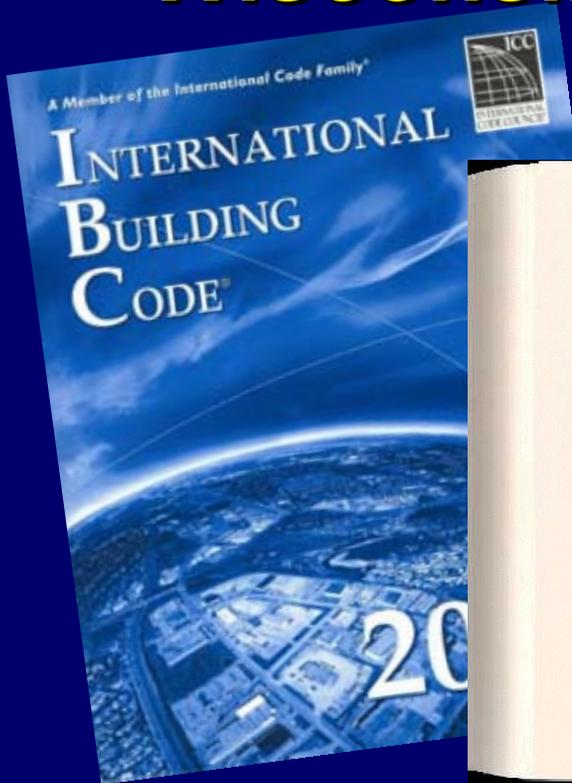
Wisconsinisms

Ch Comm 62

IBC Ch. 1

Comm 62.0100 Administration

- Don't use Chapter 1 of the IBC in Wisconsin



Comm 62.0100 Administration

- **Note: The sections in this chapter are generally numbered to correspond with the section numbering in the IBC, e.g., s. Comm 62.0202 corresponds to IBC section 202.**

Comm 62.0100 Administration

- **Note: As used throughout this code, “not included as part of this code” is intended to convey that the referenced requirements are not incorporated herein, and therefore cannot be enforced through this code. However, local ordinances may include the referenced requirements, as specified in s. Comm 61.03.**

Comm 62.0100 Administration

- **Note: IBC section 101.2 addresses the scope of the IBC. For the scope of the Wisconsin Commercial Building Code, see s. Comm 61.02. Three or more attached townhouses, as referenced in an exception under IBC section 101.2, are included within the scope listed in s. Comm 61.02. Detached one- and two-family dwellings, as likewise referenced in an exception Under IBC section 101.2, and elsewhere in the IBC, are not included within the scope listed in s. Comm 61.02, but are regulated in Wisconsin by chs. Comm 20 to 25, in accordance with subch. II of ch. 101, Stats.**

Wisconsinisms

Ch Comm 62

IBC Ch. 2

Comm 62.0202 Definitions

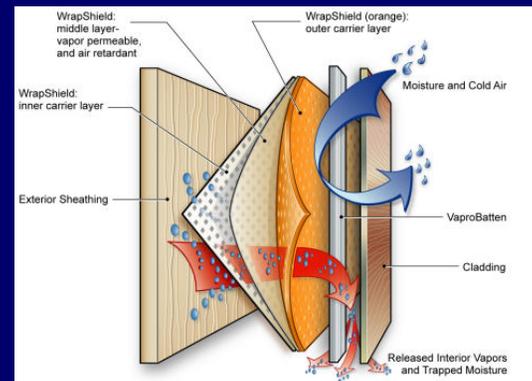
- **Comm 62.0202 Definitions.**
- **(1) Additions**
- **(2) Substitutions**
- **(3) Deletions**

Comm 62.0202 Definitions

- **ADDITIONS.** These are department definitions for this chapter in addition to the definitions in IBC section 202:
 - (a) “Air retarder”
 - (b) “High-piled combustible storage”

62.0202 Defn's – (1) Additions

- (a) “Air retarder” means a material or combination of materials collectively having a maximum air leakage rate of 0.06 cfm/ft.² at 0.30 in. H₂O, when tested in accordance with ASTM E 783, installed to resist air leakage into the exterior envelope.



62.0202 Defn's – (1) Additions

- **(b) “High-piled combustible storage” means storage of combustible materials in closely packed piles, or on pallets, in racks or on shelves, where the top of storage is greater than 12 feet in height. When required by the fire code official, high-piled combustible storage also incl's certain high-hazard commodities, such as rubber tires, Group A plastics, flammable liquids, idle pallets and similar commodities, where the top of storage is greater than 6 feet in height.**

62.0202 Defn's – (2) Substitutions

- **(2) SUBSTITUTIONS.** Substitute the following definitions for the corresponding definitions listed in IBC section 202:
 - (a) “Approved” means acceptable to the department.



62.0202 Defn's (2) Substitutions

- **(2) SUBSTITUTIONS.**
 - (b) **“Basement”** means that portion of a building that is partly or completely below grade. See IBC definition for **“Story Above Grade Plane”** and IBC section 502.1.

62.0202 Defn's (2) Substitutions

- **(2) SUBSTITUTIONS.**
 - (c) “Historic building” means a “qualified historic building” as defined in s. 101.121 (2) (c), Stats.**

Note: Section 101.121 (2) (c), Stats. reads as follows:

“Qualified historic building” means a historic building which:

 - 1. Is listed on, or has been nominated by the state historical society for listing on, the national register of historic places in Wisconsin or the state register of historic places;**
 - 2. Is included in a district which is listed on, or has been nominated by the state historical society for listing on, the national register of historic places in Wisconsin or the state register of historic places, and has been determined by the state historical society to contribute to the historic significance of the district;**
 - 2m. Is determined by the state historical society to be eligible for listing on the national register of historic places in Wisconsin or the state register of historic places;**
 - 3. Is listed on a certified local register of historic property; or**
 - 4. Is included in a district which is listed on a certified local register of historic property, and has been determined by the city, village, town or county to contribute to the historic significance of the district.**

62.0202 Defn's (3) Deletions

- **(3) DELETIONS.** The following terms and corresponding definitions in IBC section 202 are not included as part of this code: approved agency, approved fabricator, base flood, base flood elevation, certificate of compliance, design flood, design flood elevation, designated seismic system, dry floodproofing, existing construction, fabricated item, inspection certificate, label, lowest floor, manufacturer's designation, mark, special continuous inspection, special flood hazard area, special inspection, special periodic inspection, sprayed fire-resistant materials, start of construction, and structural observation

Wisconsinisms

Ch Comm 62

IBC Ch. 3

Comm 62.0307 Pyrophoric Materials.

- This is a department informational note to be used under IBC section 307.4:**

Note: See ch. Comm 14 for additional requirements for pyrophoric materials.

Comm 62.0310 Use and Occupancy Classification

- **This is a department informational note to be used under IBC section 310.2:
Note: See s. Comm 61.02 Notes for statutory definitions of adult family home and Community-based residential facility. See s. Comm 61.04 for definitions of dwelling unit and multifamily dwelling.**

Wisconsinisms

Ch Comm 62

IBC Ch. 4

Comm 62.0400 Special Detailed Reqmt's Based on Use & Occupancy

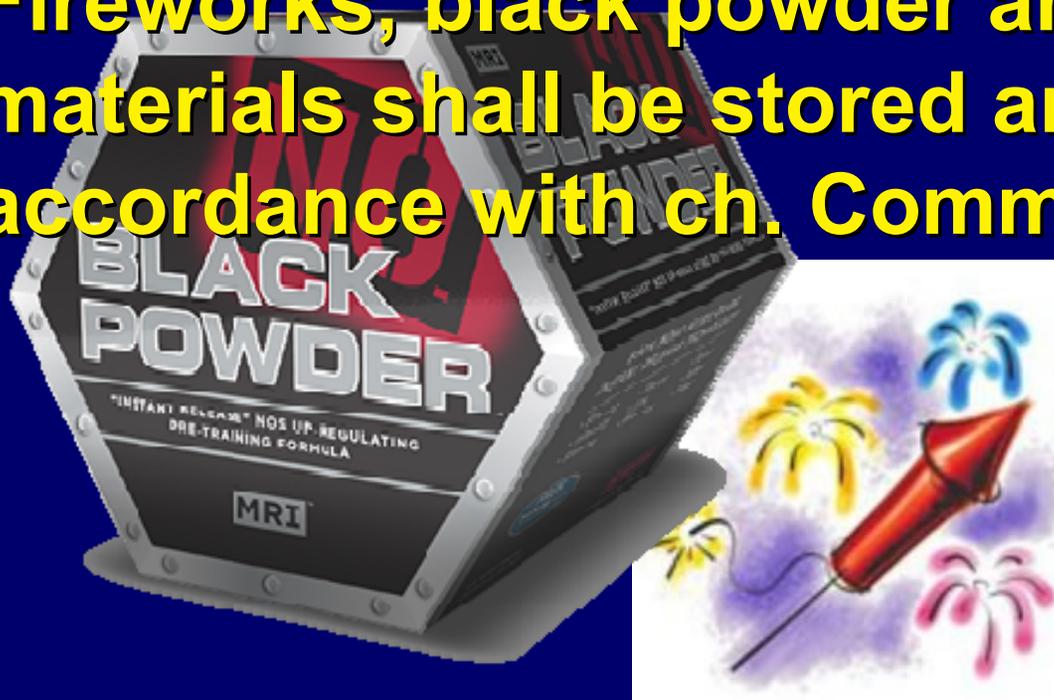
- These are department rules in addition to the requirements in IBC chapter 4:
- (1) FIREWORKS, BLACK POWDER AND EXPLOSIVE MATERIALS
- (2) RECYCLING SPACE.
- (3) LUNCHROOMS
- (4) COMMUNITY-BASED RESIDENTIAL FACILITIES.



Comm 62.0400 Special Detailed Reqmt's Based on Use & Occupancy

- (1) FIREWORKS, BLACK POWDER AND EXPLOSIVE MATERIALS.

Fireworks, black powder and explosive materials shall be stored and isolated in accordance with ch. Comm 14.



Comm 62.0400 (cont)

- **(2) RECYCLING SPACE.** An owner of a building shall provide a separate room or designated space within or adjacent to the building for the separation, temporary storage and collection of recyclable materials that are likely to be generated by the building occupants, under any of the following conditions:
 - The construction of a new building.

Note: See Appendix B for guidelines for recommended designated areas.

Note: The collection and temporary storage of recyclable materials that are flammable or combustible is regulated by ch. Comm 14. Storage of liquids that are flammable or combustible is regulated by ch. Comm 10. Owners of buildings where these materials are stored should consult those chapters for isolation, removal and storage standards.

Comm 62.0400 (cont)

- **(3) LUNCHROOMS.** A space for eating lunches shall be provided in all places of employment where there is exposure to injurious dusts, toxic material and industrial poisons. Such space shall be physically separate from any location where there is exposure to toxic materials. Toilet rooms shall not be permitted to serve as lunchrooms.

Comm 62.0400 (cont)

- **(4) COMMUNITY-BASED RESIDENTIAL FACILITIES.** A newly constructed building or portion thereof that is a community-based residential facility serving 5 to 8 unrelated adults shall comply with chs. Comm 20 to 25 instead of all other requirements of this code.

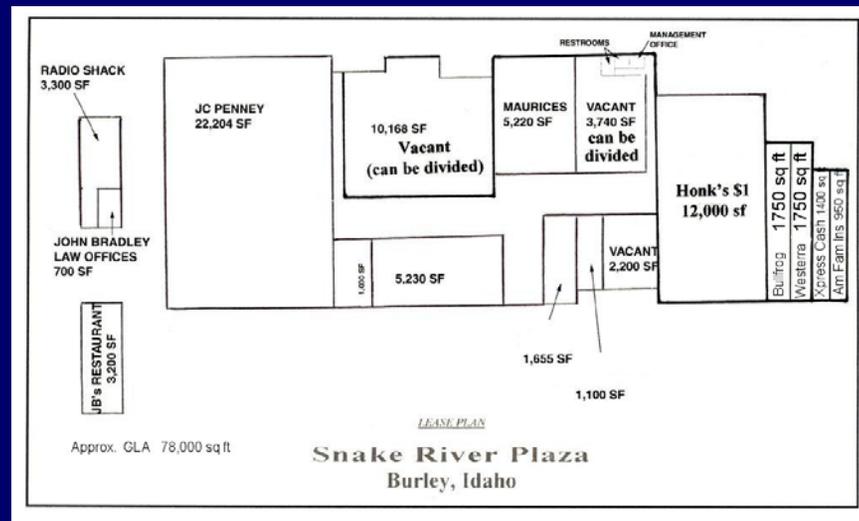


Comm 62.0401 Chapter Comm 10 compliance

- This is a dep't informational note to be used under IBC section 401.1:
Note: See ch. Comm 10 for additional requirements for motor vehicle service stations & for storage, handling, processing & transporting of flammable & combustible liquids.

Comm 62.0402 Lease plan.

- The requirements in IBC section 402.3 are not included as part of this code.



Comm 62.0406 Motor vehicle-related occupancies.

- **PARKING GARAGES.** Substitute the following wording for the reqmt's and exception in IBC section 406.2.8: Heating equipment shall be installed in accordance with the *International Mechanical Code*.

Comm 62.0412 Aircraft-related occupancies.

- **Substitute the following wording for exception 1 in IBC section 412.2.4: Heating equipment that is suspended at least 10 feet above the upper surface of wings or engine enclosures of the highest aircraft which may be housed in the hangar; or at least 8 feet above the floor in shops, offices and other sections of the hangar communicating with storage or service areas.**

Comm 62.0414 Information required

- **The requirements in IBC section 414.1.3 are not included as part of this code.**

Comm 62.0415 Hazardous materials

- **Comm 62.0415 Hazardous materials.**
- **(1) Substitute Definition**
- **(2) Additional proviso for magazines**

Comm 62.0415 (1)

- **(1) Subst the following wording for the corresponding definition in IBC section 415.2: Immediately dangerous to life and health (IDLH). The concentration of air-borne contaminants which poses a threat of death, immediate or delayed permanent adverse health effects, or effects which could prevent escape from such an environment. This contaminant concentration level is established by the National Institute of Occupational Safety and Health based on both toxicity and flammability. It generally is expressed in parts per million by volume, or milligrams per cubic meter.**

Comm 62.0415 (2)

- (2) This is a department rule in addition to the requirements in IBC section 415: A magazine for detonators in quantities of 100 or less shall have sides, bottoms and doors constructed of not less than number 12-gauge metal and lined with a nonsparking material. Hinges and hasps shall be attached so they cannot be removed from the outside. One steel padlock, which need not be protected by a steel hood, having at least 5 tumblers and a case-hardened shackle of at least 3/8 inch diameter shall be provided for locking purposes.



Wisconsinisms

Ch Comm 62

IBC Ch. 5

NO

Wisconsinisms!

Wisconsinisms

Ch Comm 62

IBC Ch. 6

Comm 62.0603 Allowable materials.

- **Substitute the following wording for application 18 in IBC section 603.1: Sprayed fire-resistant materials and intumescent and mastic fire-resistant coating, determined on the basis of fire-resistance tests in accordance with Section 703.2.**

Wisconsinisms

Ch Comm 62

IBC Ch. 7

Comm 62.0702 Fire separation distance.

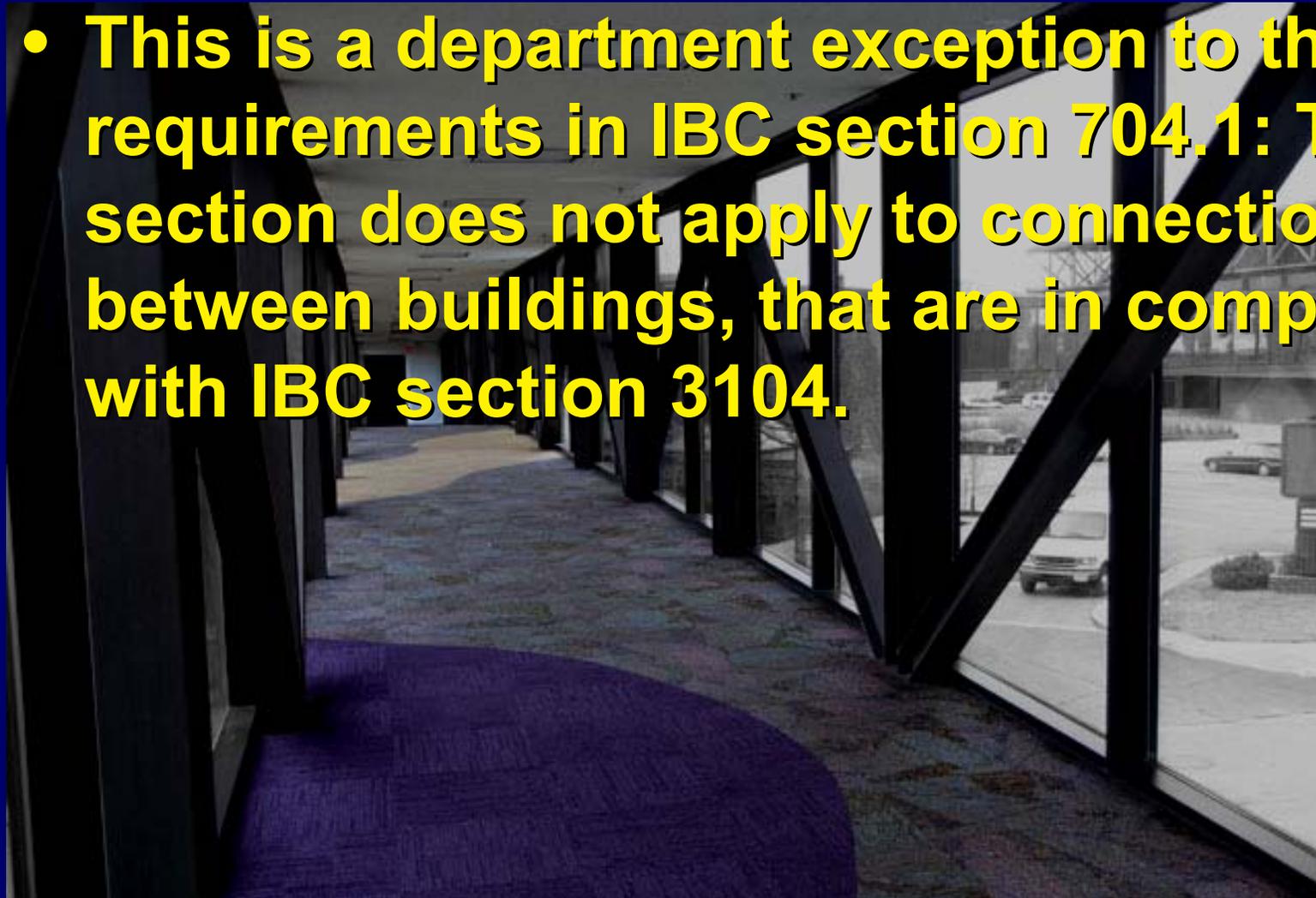
- **Substitute the following definition for the corresponding definition listed in IBC section 702: The distance measured from the building face to the closest interior lot line, to the centerline of a street alley or public way, to a permanent no-build easement line, or to an imaginary line between 2 buildings on the same property. The distance shall be measured at right angles from the lot line.**

Comm 62.0703 Fire-resistance Ratings

- **Substitute the following wording for the requirements, but not the exception, in IBC section 703.2: The fire-resistance rating of building elements shall be determined in accordance with the test procedures set forth in ASTM E 119 or in accordance with IBC section 703.3. Materials and methods of construction used to protect joints and penetrations in fire-resistance-rated building elements shall not reduce the required fire-resistance rating.**

Comm 62.0704 Connections between buildings.

- This is a department exception to the requirements in IBC section 704.1: This section does not apply to connections between buildings, that are in compliance with IBC section 3104.



Comm 62.0705 Fire Wall Identification

- **Comm 62.0705 Fire wall identification.**
These are department rules in addition to the requirements in IBC section 705:
 - (1) PURPOSE.**
 - (2) MUNICIPAL ORDINANCE.**
 - (3) SIGN REQUIREMENTS.**

Comm 62.0705 Fire Wall ID

- **(1) PURPOSE.** Pursuant to s. 101.135, Stats., the purpose of this section is to establish uniform standards for the identification of fire walls on the exterior of buildings.

Comm 62.0705 Fire Wall ID

- **(2) MUNICIPAL ORDINANCE.** A city, village or town may by ordinance require owners to identify the location of a fire wall at the exterior wall of a building with a sign

Comm 62.0705 Fire Wall ID

- **(3) SIGN REQUIREMENTS.** (a) *General.* The sign shall consist of 3 circles arranged vertically on the exterior wall, marking the location of the fire wall and centered on the fire wall. The circles shall either be affixed directly to the surface of the building or may be placed on a background material that is affixed to the building. (b) *Size of circle.* Each circle shall be the same size. The diameter of the circle shall be at least 1 1/2 inches, but no greater than 2 inches. (c) *Spacing.* The circles shall be spaced an equal distance apart. The distance measured from the top of the uppermost circle to the bottom of the lowermost circle shall be no more than 12 inches. (d) *Color.* The color of the circle shall be red, amber (orange–yellow) or white (clear) and shall be reflective. The color of the circle shall contrast with the color of the background.

Comm 62.0707 Shaft Enclosures

- **(1) Substitute the following wording for the 7.2 exception in IBC section 707.2: Is not part of a required exit, except as permitted in section 1020.1.**
- (2) This is a department exception to the requirement in IBC section 707.2: Elevators in open parking garages that serve only the parking garage are not required to be enclosed.**

Comm 62.0716 Ducts and Air-Transfer Openings

- **Comm 62.0716 Ducts and air-transfer openings.**
 - (1) PENETRATIONS OF SHAFT ENCLOSURES.**
 - (2) SMOKE DAMPERS IN HEALTH CARE FACILITIES.**

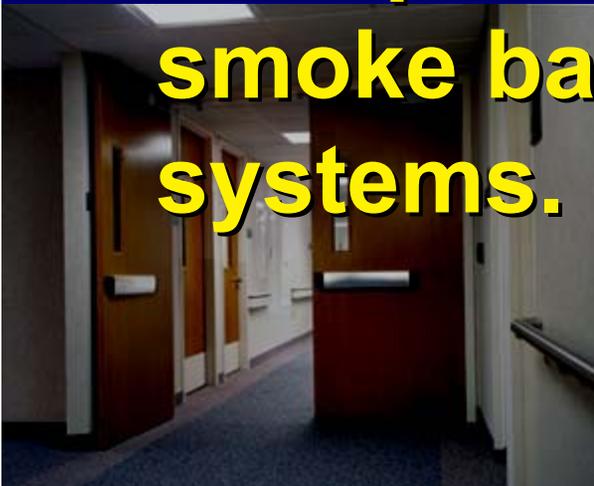
Comm 62.0716 (1)

PENETRATIONS OF SHAFT ENCLOSURES

- This is a department exception to the requirements in IBC section 716.5.3: Smoke dampers are not required in ducts that are used in the exhaust portion of laboratory ventilating systems which are designed and installed in accordance with NFPA 45.**

Comm 62.0716 (2) SMOKE DAMPERS IN HEALTH CARE FACILITIES

- This is a department exception to the requirements in IBC section 716.5.5: Smoke dampers are not required in Group I-2 duct penetrations of smoke barriers in fully ducted HVAC systems.



Wisconsinisms

Ch Comm 62

IBC Ch. 8

NO

Wisconsinisms!

End Part I of III

- Part II of III continues with the refresher on Wisconsinisms to the IBC portion [Ch. Comm 62] of the WCBC beginning with Chapter 9 of the IBC