

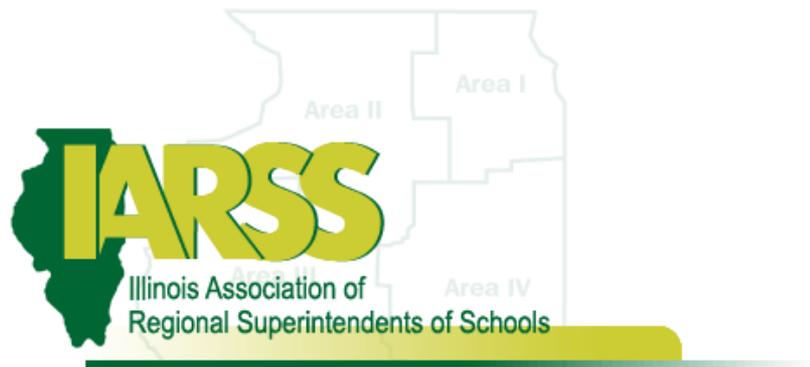
Annual Public School Inspections



Illinois State Board of Education

James T. Meeks, Chairman

Tony Smith, Ph.D., State Superintendent of Education



History

It was the tragic fire at the Our Lady of the Angels school in 1958 that led to the establishment of the Code drafting committee for the first Health/Life Safety Code.

History

A 2003 amendment to an Illinois State statute authorizes the Office of the State Fire Marshal (OSFM) or a “qualified fire official to whom OSFM has delegated his or her authority” to conduct safety checks.

105 ILCS 5/2-3.12

41 IL Admin Code Part 111

History

After the rule was passed, ISBE and OSFM collaborated to review the existing inspection Checklist and Glossary and to provide training for ISBE administrators, OSFM inspectors and fire service inspectors.

Goals and Objectives

The purpose of this effort is a collaboration between ISBE and the Illinois Fire Service. It is meant to be beneficial and cooperative. The fire service can educate the ISBE staff and bring in their experience and the ISBE staff provides enlightenment from their unique perspective of school age children.

Policy

If the local fire department that has fire jurisdiction over the school(s) does not have the staffing or expertise to perform these inspections, then OSFM inspectors will perform this inspection.

Policy

This is a mandatory inspection so if the local fire department decides they cannot perform these inspections anymore, please, please, please let the OSFM know. The schools will then be transferred to OSFM inspection scheduling.

Policy

OSFM will be providing the training that will “qualify” fire department or fire protection district personnel to perform these inspections.

OSFM will also provide this same training to their own inspectors.

Policy

Inspections do not have to be performed with ROE staff, but the ROE's prefer that the inspections be performed with an ROE staff member in attendance.

ROE = Regional Office of Education

Policy

According to Illinois Administrative Code this is only an “advisory” inspection.

The rules do not require the fire service inspector (whether local or OSFM) to conduct a re-inspection.

Policy

Though not required, you are permitted to return for a re-inspection. If the local inspector is having problems getting the school or ROE to bring the violations into compliance, the Part 111 rules require OSFM to act as the liaison between ISBE/ROE and the fire service inspector.

Policy

Conditions that present an imminent danger must be corrected immediately.

41 IL Admin Code Part 111.90(c)

425 ILCS 25/9

Policy

Inspection reports must be returned to the ROE and not to the school and not to the school district within 15 calendar days **and to OSFM using the procedure on the following slides**

[105 ILCS 5/3-14.21(c)] [Title 41 Ill. Adm. Code 111.90(b)]

Cook County exception

Policy

YOU MUST USE AN UPDATED APPROVED INSPECTION FORM THAT IS DISCUSSED IN THIS CLASS WHEN YOU PERFORM THESE INSPECTIONS.

YOU CANNOT USE YOUR OWN FD FORMS!!!!!!!!!!!!

Uploading Inspections



OSFM Portal

- The FIRST person to create an account linked to your company will be the Portal Administrator.
- That person controls the privileges that the rest of the people have. As people create portal accounts linked to your company, they won't be able to do or see anything until the Administrator grants them privileges.
- The Administrator can also grant administrative rights to other users (If your administrator is to leave the department they will need to grant administrative rights to another user)
- Additional information on Admin rights can be found in the Help Video "How to Use Admin Tools"

Inspection Portal Procedures



Creating an account and logging in

- Open a browser (Internet Explorer, Chrome, Safari, etc.) and go to www.mobile-eyes.com.
- Click *Login Here*
- **NOTE:** Steps 6 thru 8 are only required for the Portal Administrator.





- Click *Inspection Portal*.

LOGON HERE
Click the desired product Logon button below and you will be prompted for your ID and Password.

For MobileEyes Customers

- Mobile-Eyes Logon
- Smartphone Logon

For Contractors

- Inspection Portal**
- Permit Portal

For Developers

- API Documentation

BECOME A CUSTOMER
Contact us today to find out how you can become a MobileEyes customer.

Email to help@mobile-eyes.com
Phone: (866) 974-1117 ext. 2

FORGOTTEN PASSWORD?
You can obtain a forgotten password by contacting TradeMaster Technical Support:

Email to help@mobile-eyes.com
Phone: (866) 974-1117 ext. 1

A current service agreement is required for access to some products

[Remote Support Session](#)



- Click *Create Account*.

by **MOBILE**eyes® Contractor Inspection Portal

User Options	Welcome!
Log On	Create an account and log on to submit inspections. Display/Login problems?
Create Account	
I Forgot My Password	

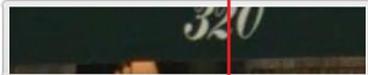


- Enter your email address and the Human Recognition Test. Then click *Continue*.

by: **MOBILEeyes** Contractor Inspection Portal

New Contractor Account - Valid Email needed

To begin, we will need a valid email address.

- Email:
- Human Recognition Test: 
 

• Field is required



- Enter your department name in the *Business Name* box. As you type, it will look for matches to existing departments. This is in case a department has multiple people setting up accounts. If you see your department pop up in the suggestions, click on it. If not, click *Create New Business*.

New Contractor Account

Business

• Business Name: Enter your business name and we'll search for a match. Select match or create new.

No matches

Select existing business or

Contractor

• Name:

Phone (Desk Phone): You can add more phone numbers later

Phone (Cell):

Phone (After Hours):

Email:

Personal Fax:

• Password: Must be between 6 and 20 characters.

• Confirm Password: This must match the value in the password field exactly.

License #s

Lic. #	Lic. Description	Effective Date	Expire Date
<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="button" value="Clear"/>	<input type="text"/> <input type="button" value="Clear"/>
<input type="button" value="New Lic. #"/>			<input type="button" value="Delete"/>

• Field is required



- Enter the address and phone information for your department.

New Contractor Account

Business

• **Business Name:** Enter your business name and we'll search for a match. Select match or create new.

• **Address (Ln 1):**
Address (Ln 2):

• **City:**

• **State/Prov:** ▼

• **Zip/Postal Code:**

Tax ID #:

Main Business Phone: ×

Business Fax:

Associated AHJs

- Select the AHJs you will be sending reports to and click ►.
- Remove AHJs by selecting them at right and clicking ◀.
- Select multiple AHJs by using ctrl+click.
- Click "Search" to apply filter(s).
- You must select at least one AHJ to create an account.

Customer Name:

State/Providence: ▼



- Find the Office of the Illinois State Fire Marshal (OSFM) in the *Available AHJs* list and click to select it.

Associated AHJs

- Select the AHJs you will be sending reports to and click ►.
- Remove AHJs by selecting them at right and clicking ◀.
- Select multiple AHJs by using ctrl+click.
- Click "Search" to apply filter(s).
- You must select at least one AHJ to create an account.

Customer Name:

State/Province: --show all--

Available AHJs		Selected AHJs
Greenfield Fire Territory (IN)		
Howard County DFRS (MD)		
Indianapolis Fire Department (IN)		
Iona McGregor Fire Protection (FL)		
Mifflin Township (OH)		
Office of Illinois State Fire Marshal (IL)	<input type="button" value="►"/>	
Pike Township Fire Department (IN)	<input type="button" value="◀"/>	
Plainfield Fire Territory (IN)		
Rutgers University (NJ)		
Van Buren Township FD (MI)		



- Click the arrow to move it to the *Selected AHJs* list.

NOTE: The terminology will be a little off - “Selected AHJs” for example. That is because the portal is primarily used by sprinkler and alarm contractors to submit system inspection reports to their local AHJ. The Office of the Illinois State Fire Marshal (OSFM) is using it to have local AHJs submit public school inspection reports.

--Associated AHJs--

- Select the AHJs you will be sending reports to and click ►.
- Remove AHJs by selecting them at right and clicking ◀.
- Select multiple AHJs by using ctrl+click.
- Click "Search" to apply filter(s).
- You must select at least one AHJ to create an account.

Customer Name:

State/Province: --show all--

Available AHJs		Selected AHJs
Greenfield Fire Territory (IN)	<input type="button" value="▶"/> <input type="button" value="◀"/>	Office of Illinois State Fire Marshal (IL)
Howard County DFRS (MD)		
Indianapolis Fire Department (IN)		
Iona McGregor Fire Protection (FL)		
Mifflin Township (OH)		
Office of Illinois State Fire Marshal (IL)		
Pike Township Fire Department (IN)		
Plainfield Fire Territory (IN)		
Rutgers University (NJ)		
Van Buren Township FD (MI)		



- Enter your personal information. Ignore the License section. This pertains to contractors using the portal, not to you.
- Click *Continue*.

- Contractor -

• Name: Tom Gorman

Phone (Desk Phone): 815-974-1117 You can add more phone numbers later

Phone (Cell): 815-395-2894

Phone (After Hours):

Email: tgorman111@gmail.com

Personal Fax:

• Password: •••••• Must be between 6 and 20 characters.

• Confirm Password: •••••• This must match the value in the password field exactly.

License #s

Lic. #	Lic. Description	Effective Date	Expire Date
<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="button" value="Clear"/>	<input type="text"/> <input type="button" value="Clear"/>
<input type="button" value="New Lic. #"/>			<input type="button" value="Delete"/>

• Field is required



- At this point an email is sent to the email address you provided. Find that email and follow the instructions in it to verify your email address.

- Once you have verified your email address, click *Main Menu*.

New Contractor Account

Your user id has been created and an email has been sent to the address provided.

1. Please check for the email. If you don't see it, it may be in your spam/junkmail folder.
2. Click the provided email link to verify your email address.

Afterward, you may log in at anytime.

[Main Menu](#)



- Click *Log On*.

by MOBILE eyes®	Contractor Inspection Portal
User Options	Welcome!
Log On	Create an account and log on to submit inspections. Display/Login problems?
Create Account	
I Forgot My Password	



- Enter your email and the password you created. Check the *Remember Me* check box. Then click *Continue*.

Contractor Portal Logon

• E-mail: x

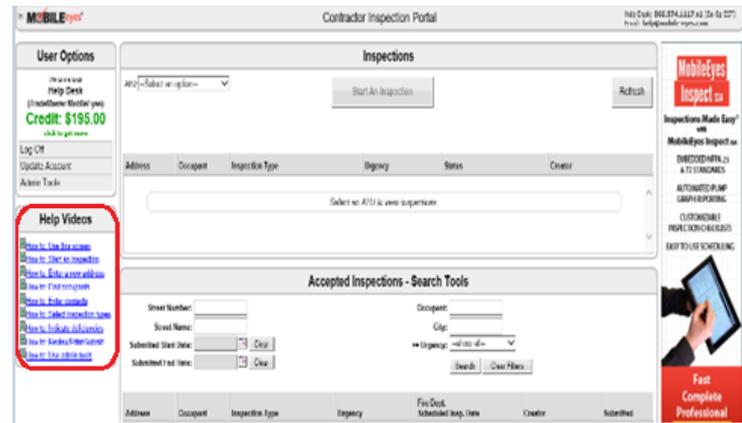
• Password: [Forgot your password?](#)

Remember Me (You should NOT check this box on a public computer.)

• Field is required



- For further help and instructions on how to use the portal, please watch the *Help Videos* available on the main menu.
- If you have questions or run into a problem, please call or email the MobileEyes Help Desk. The Help Desk information is in the upper right corner.





- Even though this screen shot shows credits, the OSFM is paying for the portal. There is no cost to you.

MOBILEeye Contractor Inspection Portal http://mobileeye.com

User Options

Home
Help Desk
Credit: \$195.00
[Click to get more](#)

Log Off
Update Account
Admin Tools

Help Videos

[How to Use the system](#)
[How to Use the mobile app](#)
[How to Use the mobile app](#)

Inspections

Select an option

Start An Inspection Refresh

Address	Occupant	Inspection Type	Urgency	Status	Creator
Select an AFD or your supervisor					

Accepted Inspections - Search Tools

Street Number: Occupant:
Street Name: City:
Submitted Start Date: Urgency:
Submitted End Date:

Address	Occupant	Inspection Type	Urgency	Fire Dept. Scheduled Insp. Date	Creator	Submitted
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MobileEye Inspect
Inspections Made Easy!
with MobileEye Inspect on
EMERGENCY & TO DISPATCHES
AUTOMATED PUMP
GRAPHIC REPORTING
CUSTOMIZABLE
PRACTICE SCHEDULES
BOOK YOUR SCHEDULING

Fast Complete Professional

Inspection Portal Procedures



Inspection Submission Process

- Log On
- Select AHJ: Office of the State Fire Marshal
- Click *Start An Inspection*

A screenshot of a web application interface titled "Inspections". At the top, there is a dropdown menu labeled "AHJ:" with the selected option "Office of Illinois State Fire" and a downward arrow. To the right of the dropdown are two buttons: "Start An Inspection" and "Refresh". Below these elements is a table with columns: "Address", "Occupant", "Inspection Type", "Urgency", "Status", and "Creator". The table is currently empty, displaying "No matches" in a rounded rectangular box at the bottom.



Step 1a (Select Address)

Enter the address of the school in the *Street Number* or *Street Name* box or a combination of both. As you type, it will look for matches to existing addresses. If you see your address pop up in the suggestions, click on it. You may also Click *Find Matches* and filter thru for the address you are looking for. Click *Select* to the right of the address field.

NOTE: The majority of schools have addresses in the database. If you come across an address with an incorrect ZIP code please make a note of this in the comment sections in Step 6, rather than create a new address.

If the address is not there, Click *I can't find the Job Site Address* and enter address accordingly. (for additional instruction please view the Help Videos on the main screen)

The screenshot shows a web form titled "Inspection - Step 1a (Select Address)". At the top, there is a progress bar with six steps: 1. Address (highlighted in green), 2. Occupant, 3. Contact Information, 4. Inspection Type, 5. Check List, and 6. Review/Find/Submit. The main form area has two input fields: "Street Number (OPTIONAL)" with the value "1100" and "Street Name" with the value "East INDIANA". Below these fields is a note: "(partial values OK for both fields)" and a red asterisk indicating "Required field!". To the right, there are "Street Name Suggestions" in blue buttons: "East Indian Trail", "East INDIAN TRAIL Road", and "East INDIANA", with the last one highlighted in red. Below the suggestions are "Find Matches" and "Clear" buttons. A table below shows a search result with columns "Address" and "Street". The row contains "1100", "East INDIANA Avenue", "61764", and a "Select" button. At the bottom of the form, there are two buttons: "I can't find the Job-Site Address" and "Main Menu".



Step 2a (Select Occupant)

Click *Select* to the right of the Occupant you are inspecting (there may be multiple occupants in your structure). You will be asked “Does (occupant) still occupy this space? Click *Yes*

Inspection - Step 2a (Select Occupant)

1. Address 2. Occupant 3. Contact Information 4. Inspection Type 5. Check List 6. Review/Print/Submit

Occupants at: 1100 East INDIANA Avenue

Structure	Occupant	Suite	Comm/Res	
Un-named structure ID:20117	PONTIAC HIGH SCHOOL		Commercial	<input type="button" value="Select"/>

Current or Not?

Does...

PONTIAC HIGH SCHOOL

...still occupy this space/suite?



Step 3 (Contact Information)

Click *Select* beside your current contact or Click *I can't find the Contact* and enter the Contact information on the next screen

Inspection - Step 3 (Contact Information)

1. Address 2. Occupant 3. Contact Information 4. Inspection type 5. Check List 6. Review/Print/Submit

Choose the main customer contact.

Current Contacts:

Mark Jontry	ROE Supt.	Select
-------------	-----------	--------

I can't find the Contact Main Menu



Step 4 (Inspection Type)

Click the *calendar* to enter Inspection date or Click *Today* if you upload inspection same day. Click beside Public School.

Click *Yes* or *No* for deficiencies. Comments may be added in the General Comments box.

Click *Save & Continue*

Inspection - Step 4 (Inspection Type)

1. Address 2. Occupant 3. Contact Information 4. Inspection Type 5. Check List 6. Review/Print/Submit

• Inspection Date: 7/15/2016 Today Clear

• Inspection Types: Public School (Local AHJ)

Deficiencies? Yes No

General Comments: Type general comments here

If the location where the alarm rings has changed, please make a note of it in the comments field.

• Field is required

Save & Continue Main Menu



Step 5 (Check List)

You will only be directed to this screen if you selected *Yes* to deficiencies above. Select *Critical Violations* or *Non-critical violations* based on the criteria defined by the Office of the State Fire Marshal.

NOTE: Please review the definitions for *Critical* and *Non-critical* on the link above

Click *Save & continue*

Inspection - Step 5 (Check List)

1. Address 2. Occupant 3. Contact Information 4. Inspection Type 5. Check List 6. Review/Print/Submit

Indicates a box must be checked on that tab.

Public School (Local AHJ)

+Expand All -Collapse All

Inspection Type Reference:
[Definitions and Examples of Critical and Non-Critical Violations](#)

The following defects were found:

Public School (Local AHJ)

-Public School Inspection

Critical violations **Critical**

Non-critical violations **Non Critical**

Save & Continue Main Menu Print Blank Checklist

Step 6 (Review)

Check the address, occupant and contact information fields are correct.

Click *Browse* to upload your inspection. (As a reminder only the approved ROE or Fire Service Checklist discussed in this class is permitted to be used for public school inspections. By law, you cannot use your own FD inspection form).

Each file must be less than 10 MB.

Click compress.smallpdf.com to reduce the size of larger documents

Click *Submit Inspection*

You will be asked "Submit this inspection? Click *OK*

A confirmation email will be sent to you once your inspection has been accepted and approved.

NOTE:

You can also Click *Print Preview* if you would like to print a copy of what you are about to submit or Click *Email Tool* if you would like to email it to yourself or someone else.



Saved Inspection - Step 6 (Review)

Address:
Addr/Street: 1100 East INDIANA Avenue
City/State: PONTIAC IL
Zip Code: 61764

Occupant:
Building: PONTIAC HIGH SCHOOL
Suite:
Occupant Type: Commercial

Contact:
First Name: Mark
Last Name: Jontry
Phone: 309-888-5120
Cell Phone:
Email: jontrym@roe17.org
Role: ROE Supt.

Inspection Type:
Inspection Type: Public School (Local AHJ)

Deficiencies:
Deficiencies: 0
Public School (Local AHJ)
-none-

General Comments:
Type general comments here

Upload Files:
 Each file must be less than 10 MB File over 10MB? Try compress.smallpdf.com

File Name	Upload Date	<input type="button" value="Delete"/>
PONTIAC HIGH SCHOOL.pdf	7/15/2016 11:37:45 AM 1.3 MB	

Your inspection is saved. Click Main Menu if you do not want to submit it yet.



- At this point you are taken back to the Main Menu where you will find a complete listing of the reports submitted or that you are in the process of.

Inspections					
AHJ:					
Office of Illinois State Fire		Start An Inspection		Refresh	
Address	Occupant	Inspection Type	Urgency	Status	Creator
PONTIAC HIGH SCHOOL 1100 East INDIANA Avenue PONTIAC, IL 61764	Public School (Local AHJ)		None	Submitted 7/15/2016 11:43:07 AM	Debbie Wickenhauser



- For further help and instructions on how to use the portal, please watch the *Help Videos* available on the main menu.
- If you have questions or run into a problem, please call or email the MobileEyes Help Desk. The Help Desk information is also available in the upper right corner of the Contractor Inspector Portal site.

Help Desk: 866-442-9002
(8a – 8p EST)
Email: help@mobile-eyes.com

Policy

Enforcement will be as prescribed in ISBE rules and the ROE with jurisdiction will take charge of problems of continued non-compliance.

Policy

The ISBE Health/Life Safety Code does not have jurisdiction over Chicago public schools and Chicago Public Schools are not incorporated into this health/life safety collaboration. Chicago public schools must comply with the OSFM's adopted NFPA 101 and the Chicago codes.

23 IL Admin Code Part 180.10(b)

Timeline

July/August prior to school year – Set up inspection appointments for upcoming school year

End of School Year – Inspections should be completed

June 30th – Deadline for submittal of reports, or ROE cannot obtain funding to make repairs as deadline for schools to submit this information to districts is July 30th.

[105 ILCS 5/3-14.21(a)]

Timeline

...BUT THE PART 111 RULES REQUIRE THAT ALL FORMS BE RETURNED
15 CALENDAR DAYS AFTER THE INSPECTION DATE!!!

Scheduling

In most cases, do not expect to perform inspections during months or days when schools are closed. It is during these times that the schools make repairs, remodel and clean the schools. Schools are predictably “not in compliance” during these times.

Scheduling

If the ROE prefers an inspection during times when schools are closed then go ahead and schedule it during those times.

But one of the reasons for performing the inspection during occupied hours is so you will see the normal operations when students are in the building and see all the “good” and “bad” habits.

Scheduling

Allow approximately:

- 2 hours for a grade school
- 2-3 hours for a middle school
- 4 hours to 1 day for a high school

Scheduling

To find contact information for your local ROE go to:

www.iarss.org

and click on Directory of Regional Superintendents

Definitions

There are 6 IARSS areas in Illinois and each area will have multiple ROE's.

The person in charge of an ROE is the Regional Superintendent. It will be that person, or his/her designee that will be working with the fire service inspector.

Definitions

Regional Office of Education or ROE = this is the administrative office for a county or multiple counties. There are multiple school districts in one ROE.

Each school district has a superintendent

ROE Superintendent + District Superintendent

Definitions

Authority Having Jurisdiction or AHJ = In this case the AHJ is the ROE or ISBE. It is not the local fire department or OSFM.

Per administrative rule the OSFM and local fire departments are allowed to inspect public schools but are not the AHJ.

Definitions

Additionally, the ROE's handle all construction and remodeling from that office for all of their school districts.

New construction is not part of this class and is covered under a separate set of ISBE rules.

Definitions

Health/Life Safety Code = “The Health/Life Safety Code is a document prepared by ISBE with the advice of IDPH, the Capital Development Board and OSFM to ‘conserve the health and safety and general welfare of the pupils,’ school personnel and others who use public school facilities.”

23 Ill. Admin. Code 180

Definitions

Health/Life Safety Code = The ISBE “Health/Life Safety Code” should not be confused with the NFPA 101 - “*Life Safety Code*” that has been adopted by the OSFM for application in other occupancies.

Definitions

ROE Health/Life Safety Checklist

Fire Service checklist

Remember you are only permitted to use these forms. You cannot use your own FD inspection forms.

Definitions

Health/Life Safety Glossary = the guidance document that identifies and describes the various items that should be checked during the inspections as well as the applicable code sections.

This document expounds on and helps the inspector apply the checklist.

Works for both checklists!!!

Definitions

Health/Life Safety Handbook = This handbook includes copies of the Health/Life Safety Glossary and Checklists but also contains much information that is used by the ROE that the fire service inspector does not need to worry about. These should be kept at each ROE and can be accessed from the ISBE website.

Definitions

www.isbe.net

In search box type in Life Safety

Adopted Codes

See matrix in front of Glossary

Part 185 – for schools approved for design before July 1, 1965

Part 175 – for schools approved for design after July 1, 1965 but before March 24, 1995.

Adopted Codes

Part 180 (BOCA 1993) – for schools approved for design on or after March 24, 1995 but before July 6, 1998

BOCA 1993 Fire Prevention and Property Maintenance Codes can be retroactive to all the older schools unless Parts 175 or 185 have something more stringent

Adopted Codes

Part 180 (BOCA 1996) – for schools approved for design on or after July 6, 1998 but before October 3, 2005

Part 180 (ICC 2003) – for schools approved for design on or after October 3, 2005 but before September 25, 2007

Adopted Codes

Part 180 (ICC 2006) – for schools approved for design on or after September 25, 2007 but before January 1, 2010

Part 180 (ICC 2009) – for schools approved for design on or after January 1, 2010 but before July 1, 2016.

Part 180 (ICC 2015) – for schools approved for design on or after July 1, 2016.

Retroactivity

Very simply, for existing conditions the rules that were in effect at the time the school was approved for design are the rules used to maintain the school.

But the 1993 BOCA Fire Prevention and Property Maintenance Codes also applies to all buildings approved for design before July 6, 1998 unless Parts 185 or 175 (if they apply to the school) has something more stringent.

Retroactivity

If an issue arises, the ROE and ISBE will make the final interpretation

But again, if you feel strongly that their interpretation is incorrect, you should call OSFM

Retroactivity

Most “large ticket” items are caught (or should be) by the district architect during the 10-year survey process.

Adopted Codes

No matter what code the inspector uses, their experience in performing inspections and their general knowledge of codes will assist them in this school inspection process.

The inspector should be able to recognize a violation and the Glossary will point to the code section that is in violation

Adopted Codes

Only the codes adopted by ISBE are the codes that can be referenced.
These rules apply to all buildings owned or leased by the public school district, whether student occupied or not

Codes adopted by the local fire agency or OSFM are not applicable within public schools in Illinois (except for CPS)

Adopted Codes

Local fire departments and OSFM will NOT be expected to inspect or enforce:

- The Illinois Accessibility Code
- The Illinois Plumbing Code
- OSFM Boiler and Pressure Vessel Safety Rules (beyond checking for the inspection certificate)
- The requirements used by IDOL
- Bleachers (except for areas under bleachers)

Checklist and Glossary Format

The ROE Checklist and Glossary are broken down into “use” areas expected to be found in a public school. An elementary school is likely to not have all the areas found on the checklist, such as a woodworking shop or swimming pool.

Hazards or conditions common to each area are identified and some features are repeated as the inspector moves from room to room.

Checklist and Glossary Format

The Fire Service checklist is arranged according to inspection item category, which is a more familiar format for local fire inspectors

Checklist and Glossary Format

Remember: You must use the approved ROE and Fire Service checklists discussed in this class. You cannot use your FD's inspection forms to perform the inspections of public schools.

Checklist and Glossary Format

During this training it is assumed that you will have a basic knowledge of fire and life safety terms, but if you need an explanation please do not hesitate to ask.

Administration and General Building Requirements

#1. Safety Reference Plans – Should be available at each school. The Health/Life Safety Handbook provides all the information needed for these plans. The Safety Reference Plan identifies:

- Site plan
- Schematic floor plans
- Utilities
- Fire protection systems

Administrative and General Building Requirements

#2. School Safety Drills -

During each academic year:

- 3 building evacuation drills (1 with fire official present)
- 1 bus evacuation drill
- 1 shelter-in-place (tornado drill)
- 1 law enforcement drill to address lock-downs, shootings, bomb threats

Administration and General Requirements

#2. School Safety Drills -

To view the School Safety Drill Act go to:

<http://www.isbe.net/safety/guide.htm>

Administration and General Building Requirements

#2. School Safety Drills -

Inspector should ask for documentation, taking into consideration the time of year his/her inspection is taking place.



Administration and General Building Requirements

#3. Annual Review of Crisis Plan -

Local fire departments, police departments, EMS providers, etc. are all involved in this plan. Requires signature of all participating agencies that plan is approved for that school year.

Administration and General Building Requirements

#3. Annual Review of Crisis Plans –

ISBE was able to change the School Code and now private schools are required to develop crisis plans.

Administration and General Requirements

#4. Hold-Open Devices –

For doors that are required to be fire-rated or prevent the spread of smoke, approved door closing devices must be installed. In most cases, it must be an approved hold-open device interfaced with a smoke detector and only in the Part 175/185 schools, the fire alarm system. But always check actual requirements.

Administrative and General Building Requirements

#5. Unobstructed Exits -

- Nothing blocking doors, aisles, corridors
- Required clear width maintained
- Not hidden by curtains, temporary partitions



Administration and General Building Requirements

#6. Emergency Lighting and Exit Signs -

Emergency lighting and exit signs are generally required in rooms or areas where 2 means of egress are required



Administration and General Building Requirements

#7. Periodic Testing of Emergency Lighting Equipment –

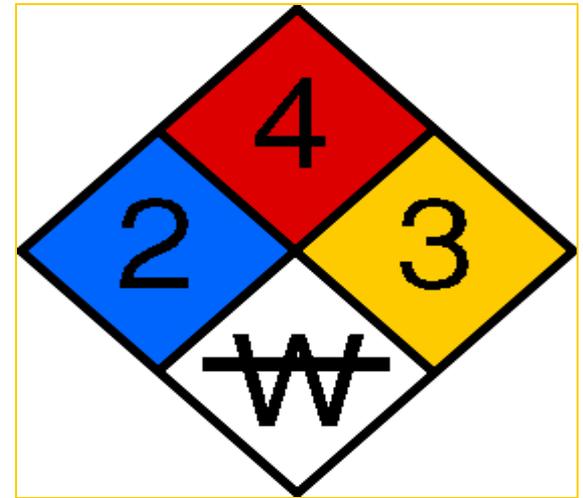
Appendix F in the Glossary provides guidance for this process and can be copied and given to the school official.

Administration and General Building Requirements

#8. Proper Storage and Use of Flammable and Combustible Liquids and Other Chemicals –

Storage of these items are varied and found throughout a school building. Appendix B provides guidance for the school official as well as the inspector.

The inspector needs to keep alert for these items as he/she walks through the school.



Administration and General Building Requirements

#9. Functional Fire Alarm System -

Depending upon the size of the school building, the majority of all buildings are required to have a fire alarm system.



Administration and General Building Requirements

#10. Fire Alarm Audibility –

The fire alarm has to be heard throughout the building. The inspector doesn't need to perform this test or carry a sound meter, but it is possible that occupants in noisy mechanical rooms, music practice rooms, or similar areas will not be able to hear the alarm should it activate. Look for horns and/or strobes within these areas.

Administrative and General Building Requirements

#11. Manual Fire Alarm Station -

Make sure pull stations are clear, unobstructed, and not damaged.

Administration and General Building Requirements

#12. Fire Alarm Inspection, Testing, and Maintenance (ITM) –

Ask for report

See Appendix C for requirements specific to age of building

Administration and General Building Requirements

#13. Functional Sprinkler System –

Inspectors will not be requiring the installation of sprinkler systems, but will perform a general visual inspection of existing systems and asking for required maintenance and testing.



Administration and General Building Requirements

#13. Functional Sprinkler System -

Sprinkler systems must be inspected and/or tested by a contractor that is licensed by OSFM. This includes fire pump tests.

Administration and General Building Requirements

#14. Clearance from Sprinkler Heads and Storage -

Not a horizontal plane below sprinkler head. NFPA 13 provides diagrams that clarify this requirement. *(See Figure A-8-5.5.1 from NFPA 13-2010)*

Appendix M in Glossary has this information

Administration and General Building Requirements

FIGURE A.8.5.5.1

#14. Clearance from Sprinkler Heads and Storage -

NFPA 13 (2010)

8.5.5.1* Performance Objective.

Sprinklers shall be located so as to minimize obstructions to discharge as defined in 8.5.5.2 and 8.5.5.3, or additional sprinklers shall be provided to ensure adequate coverage of the hazard. (See Figure A.8.5.5.1.)

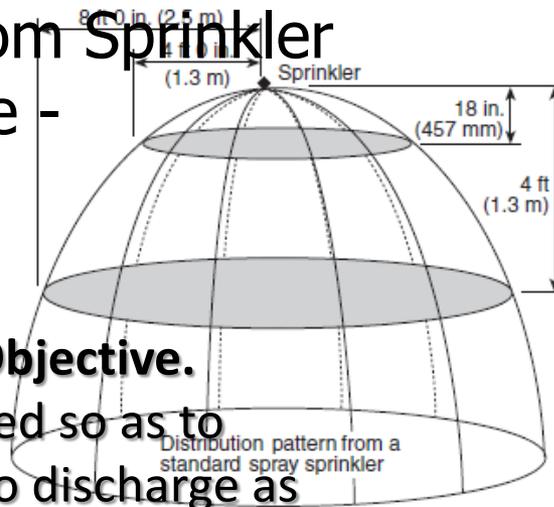


FIGURE A.8.5.5.1 Obstructions to Sprinkler Discharge Pattern Development for Standard Upright or Pendent Spray Sprinklers

Administration and General Building Requirements

#14. Clearance Above Storage and Clearance from Sprinkler Heads -

In areas without sprinklers, the codes adopted by ISBE still require that storage be maintained at least 2 ft. below ceilings.

Administration and General Building Requirements

#15. Functional Standpipe System –

The inspector will not be requiring these to be installed but should asking for required maintenance and inspection report.

If the standpipe is used as part of the supply for a sprinkler system then it must be inspected by a contractor licensed by OSFM.



Administration and General Building Requirements

#15. Functional Standpipe System -

Hoses should be appropriately tagged.

Administration and General Building Requirements

#16. Fire Extinguishers –

Fire extinguishers are required to be installed in accordance with NFPA 10 (2007) pursuant to Title 41 II Admin Code Part 251.

See Appendix D



Administration and General Building Requirements

#16. Fire Extinguishers –

OSFM rules require that fire extinguishers be serviced and inspected by a State licensed contractor and the current inspection tag be attached to the fire extinguisher.



41 IL Admin Code Part 251

Administration and General Building Requirements

#17. Safety Glazing –

This is part of the inspection fire service inspectors are not responsible for. But relates to the Safety Glazing Materials Act that became effective on January 1, 1973.

Administration and General Building Requirements

#18. Emergency Shower and Eye Wash Stations –

This item falls under the jurisdiction of the Illinois Department of Labor and the fire department, fire protection district or OSFM inspector will not be required to review or enforce this.



Administration and General Building Requirements

#19. Wall-Mounted Alcohol Hand-Rub Dispensers -

New and existing wall-mounted installations must comply with this requirement. See Appendix H.

Bulk storage of this product falls under applicable requirements from flammable combustible liquid storage requirements

Administration and General Building Requirements

#20. Decorative Vegetation –

The IFC prohibits natural cut trees in areas that are not protected with sprinklers.

If sprinklers are installed, then certain minimum requirements apply for the display of natural cut trees.

See Appendix I



Administration and General Building Requirements

#21. Space Heaters -

Unvented, fuel-fired heating appliances are prohibited. Other permissible heating appliances must be listed.

Administration and General Building Requirements

#22. Furnishings and Decorations –

The Glossary goes into great detail on these requirements and a definition of “decorative material” has been provided.

Administration and General Building Requirements

#22. Furnishing and Decorations -

In general, there are no requirements prohibiting the use of personal furniture in classrooms.

In general, curtains, drapes and other decorations must comply with NFPA 701

But always double check actual code requirements!

Interior Finish

#23. See Appendix L for newly installed interior finish requirements

Administration and General Building Requirements

#24. Extension Cords and Multiple Plug Adaptors –

Multiple plug adaptors not complying with NFPA 70 not permitted

Extension cords and flexible cords cannot be a substitute for permanent wiring

If used in accordance with code, can't extend through walls, under rugs or affix to walls, ceilings or under doors

Can't be subject to environmental or physical damage

Administration and General Building Requirements

#25. Electrical Systems –

All identified electrical hazards shall be abated.

Administration and General Building Requirements

#26. Carbon Monoxide Detection-

All schools must have carbon monoxide detection located within 20 feet of a carbon monoxide emitting device. Schools designed before January 1, 2016 may use carbon monoxide alarms powered by batteries. For public schools designed on or after January 1, 2016, any carbon monoxide alarm installed must be monitored by any required fire alarm system and must be permanently powered by the building's electrical system.

(105 ILCS 5/10-20.56, 41 Ill. Adm. Code 112.230)

Administration and General Building Requirements

#26. Carbon Monoxide Detection-

A school is exempt from the requirements of this requirement if it does not have or is not close to any sources of carbon monoxide.

Alarms or detectors must be in operating condition and be inspected annually.

A school must require plans, protocols, and procedures in response to the activation of a carbon monoxide alarm or carbon monoxide detection system.

Special Note For Fire Rated Construction

These inspections are not destructive inspections. You should not be damaging walls to determine actual wall design

The purpose of the inspection is to confirm that the integrity of the fire rated wall is being maintained

Special Note For Fire Rated Construction

Check for :

- Unprotected penetrations
- Proper doors
- Proper glazing
- Approved self-closing devices (if required)
- Approved positive latching (if required)
- Fire/smoke dampers

Special Note For Fire Rated Construction

ISBE has agreed with the OSFM's interpretation of their codes that self-closing devices and latching is required on any door required to be a fire-rated door.

ISBE has agreed with the OSFM's interpretation of their codes that unprotected louvers, transoms etc. are not permitted

Special Note For Fire Rated Construction

The biggest issue created by this will be classroom corridor doors, especially in older (Part 175/185) buildings

Special Note For Fire Rated Construction

ISBE has determined based on the literal interpretation of IFC 703.1.2 (and the OSFM agrees) that annual fire safety inspections do not include mandatory documentation of inspection and testing of dampers and fire doors.

Special Note For Fire Rated Construction

Appendix N = Separation requirements 175

Appendix O = Separation requirements 185

Appendix P = Separation requirements 180

(includes BOCA 1993/1996 + ICC 2003/2006/2009/2015)

Facilities and Buildings

So if the building is owned or leased by a public school district AND USED for public school purposes, that building or portion owned or leased by the public school district must comply with the ISBE Health/Life Safety Code

Facilities and Buildings

But if it is owned by a public school district and leased out for OTHER THAN public school purposes, the building or portion thereof must comply with at minimum the 2000 edition of NFPA 101 (Life Safety Code) as adopted by the OSFM and by local requirements

Agricultural Labs

See individual sections for those special processes that might exist in an agricultural lab, i.e. green houses, automotive shops, industrial shops, or science labs.

Arts and Crafts Rooms

These requirements apply to the larger rooms generally found in high schools or possibly middle schools that have large quantities of art supply storage, kilns, painting using flammable or combustible paints, thinners, etc.

Arts and Crafts Rooms

#28. Maintenance of Fire-Rated Construction and Door Closers –

ISBE rules (175/185) require these rooms to be enclosed by ¾-hour fire rated construction:

- Doors, closers, positive latching
- Walls (wall rating is a 10-year survey item)
- Wall penetrations (firestopping maintained?)
- Glazing

Arts and Crafts Rooms

#29. Fire Detectors –

Requirement unique to 175/185. Only required if room is not protected with sprinklers. Can be heat or smoke detectors.



Arts and Crafts Rooms

#30. Spray Finishing Operations Using Flammable Finishes -

- Area or room must be protected with sprinklers
- Sprinklers in spray area/exhaust
- Cover sprinkler heads with thin plastic bags
- Mechanical exhaust directly to outside
- No welding or other spark producing operations



Arts and Crafts Rooms

Note on bags covering sprinklers heads

Only cellophane bags having a thickness of ≤ 0.003 " or a thin paper bag are permitted to be used. Polypropylene bags such as "Glad", "Baggies", or "Ziploc" bags are included in this prohibition because they shrink prior to development of temperatures needed to ensure sprinkler activation and can interfere with proper operation. True cellophane bags and thin paper bags degrade rather than melt.

NFPA 13-Section 6.2.6.4.2 (2013)

Arts and Crafts Rooms

#31. Limited Spraying Spaces –

Where aggregate surface area to be sprayed does not exceed 9 ft²:

- Sprinkler protection not required
- Mechanical ventilation still required

Arts and Crafts Rooms

#32. Explosion Proof Fixtures –
(does everyone know what this means?)

Check the requirements found in the applicable
edition of NFPA 70-*National Electrical Code*.

Arts and Crafts Rooms

#33. Kiln Exhaust –

If a kiln exists it must have its own exhaust system that exhausts directly to outside

Arts and Crafts Rooms

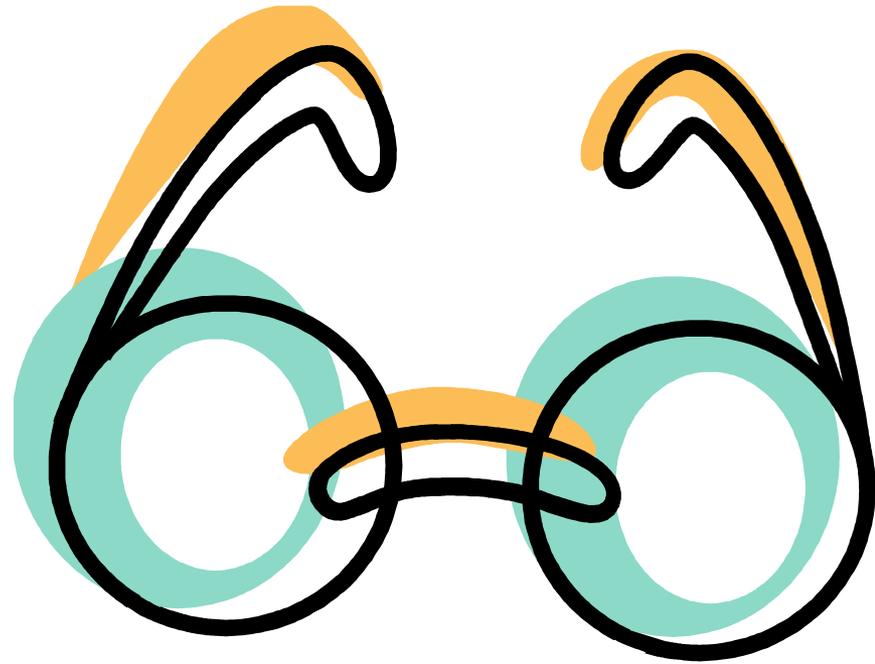
#34. Kiln Fuel Switch –

Part 175/185 requires an emergency disconnect switch for fuel-fired (not electric) kilns and it is required at the primary entrance to the room, between 6-7 ft. above the floor. Must be painted red and labeled “Emergency Fuel Burner Switch”

Arts and Crafts Rooms

#35. Eye Glasses –

This item falls under the jurisdiction of the Illinois Department of Labor and the fire department, fire protection district or OSFM inspector will not be required to review or enforce this.



Arts and Crafts Rooms

#36. Toxic Art Supplies –

This item falls under the jurisdiction of ISBE and the Illinois Department of Labor and the fire department, fire protection district or OSFM inspector will not be required to review or enforce this.



Auditoriums

#37. Posted Occupancy Load –

Any assembly occupancy (occupancy load > 50 persons) must have an occupancy load sign posted in a visible location. The Health/Life Safety Handbook has a sample sign.

Auditoriums

#38. Number of Exits –

The means of egress capacity for the auditorium will more than likely be calculated at the time the auditorium was designed. So it is assumed the number of existing exits is approved. This number cannot be reduced for any reason.

Auditoriums

#38. Number of Exits -

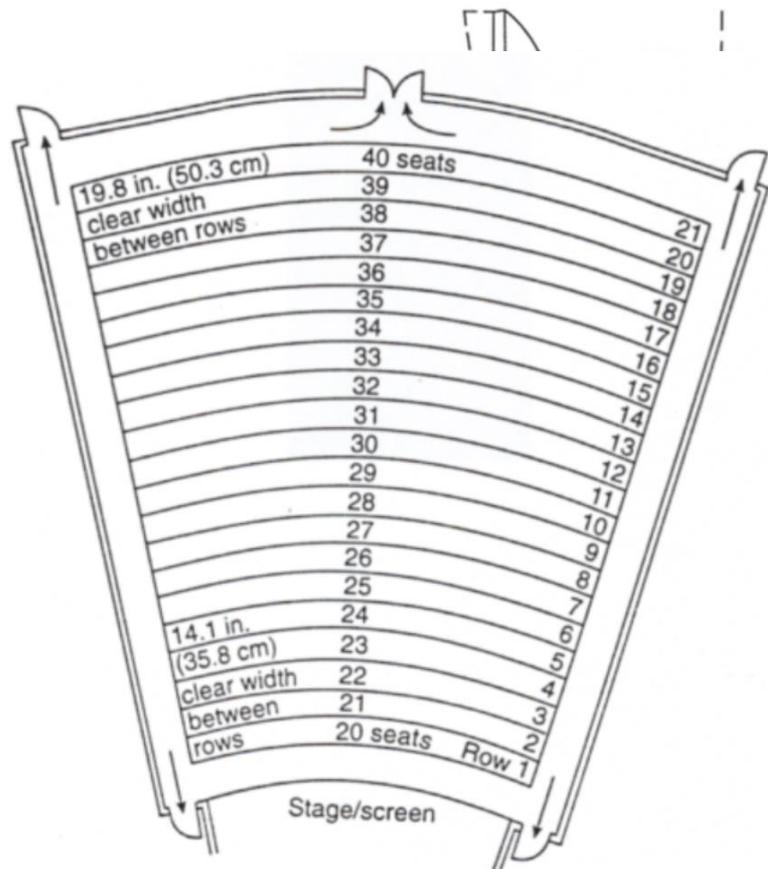
If the inspector feels the existing number is not in compliance with the applicable ISBE adopted code or ISBE rule, then he/she should bring this issue to the school official or the ROE.

Auditoriums

#39. Means of Egress Arrangement –

Required clear width of aisle, aisle accessways should be maintained.

Auditoriums



an aisle accessway formed by chairs that are not self-rising. In Fig-

Auditoriums

#40. Illuminated Exit Signs –

Must be either internally illuminated or externally illuminated and installed at every required exit doorway.



Auditoriums

#41. Emergency Lighting –

Is required to illuminate the means of egress in auditoriums.



Auditoriums

#42. Maintenance of Fire-Rated Construction and Door Closers –

Part 175/185 requires assembly areas load > 600 persons is required to be enclosed with 1-hour fire-rated construction

Auditoriums

Part 175/185 only: Smoke or heat detectors are only required in assembly areas if the room or area has interior finish with flame spread > 75 and is not protected with sprinklers.

Automotive Shops

#51. Maintenance of Fire-Rated Construction and Door Closers –

175/185 requires automotive shops to be enclosed with 1-hour fire-rated construction.

Automotive Shops

#52. Fire Detectors – 175/185 only and only if area is not sprinklered

#53. Spray Finishing Operations Using Flammable Finishes –
Because of the size of vehicles, this operation should be performed in a booth designed for spraying cars.

#54. Limited Spraying Spaces –

#55. Explosion Proof Fixtures – Follow NFPA 70

Automotive Shops



Automotive Shops



Automotive Shops

Note on bags covering sprinklers heads

Only cellophane bags having a thickness of ≤ 0.003 " or a thin paper bag are permitted to be used. Polypropylene bags such as "Glad", "Baggies", or "Ziploc" bags are included in this prohibition because they shrink prior to development of temperatures needed to ensure sprinkler activation and can interfere with proper operation. True cellophane bags and thin paper bags degrade rather than melt.

NFPA 13-Section 6.2.6.4.2 (2013)

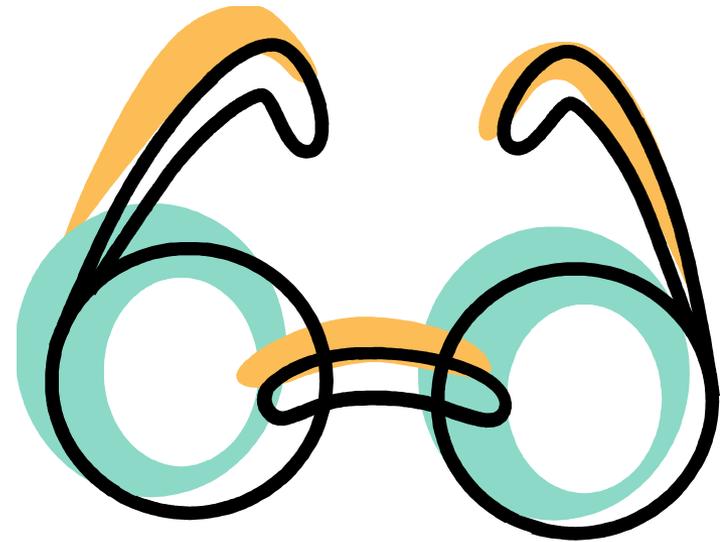
Automotive Shops

#56. Welding Booth Exhaust –

Must have an exhaust directly to the outside of the building.

Automotive Shops

#57. Eye Glasses –



Bleachers and Grandstands

#63. Installation, Inspection and Maintenance –

Applies to indoor and outdoor bleachers and grandstands.

Use matrix in the front of the Glossary to determine which standard or code applies to bleachers and grandstands (depends on the age)

BUT.....

Bleachers and Grandstands

#63. Installation, Inspection, and Maintenance -

This will not be enforced by fire officials

Bleachers and Grandstands

#64. Combustible Storage and Waste Accumulation –

Under bleachers and grandstands is not permitted.

Fire officials will be inspecting under bleachers and grandstands.

Boiler Room

#69. Door Swing –

Requirement unique to 175 and 185 only. Interior doors to heater and boiler rooms shall open into the room.

Boiler Room

#70. Maintenance of Fire-Rated Construction and Door Closers –

2-hour fire-rated construction = 1½-hour door

Boiler Room

#71. Housekeeping –

The boiler room should be kept free of all materials and equipment not necessary to the operations of the heating system.

IFC Boiler Rooms Only: Combustible storage of any kind is not permitted in boiler rooms.

Boiler Room

#72. Fire Detectors –

175/185 only and only if area is not sprinklered

Boiler Room

#73. Emergency Fuel Burner Switch –

175/185 require that the emergency switch be located adjacent to the primary entrance door, between 6-7 ft. above the floor.

This switch also has to be painted red and labeled “Emergency Fuel Burner Switch.”

Boiler Room

#74. OSFM Certificate of Inspection Posted -

This certificate needs to be posted in a visible location in the boiler room and the certificate must be current.

Cafeteria

#80. Posted Occupant Load -

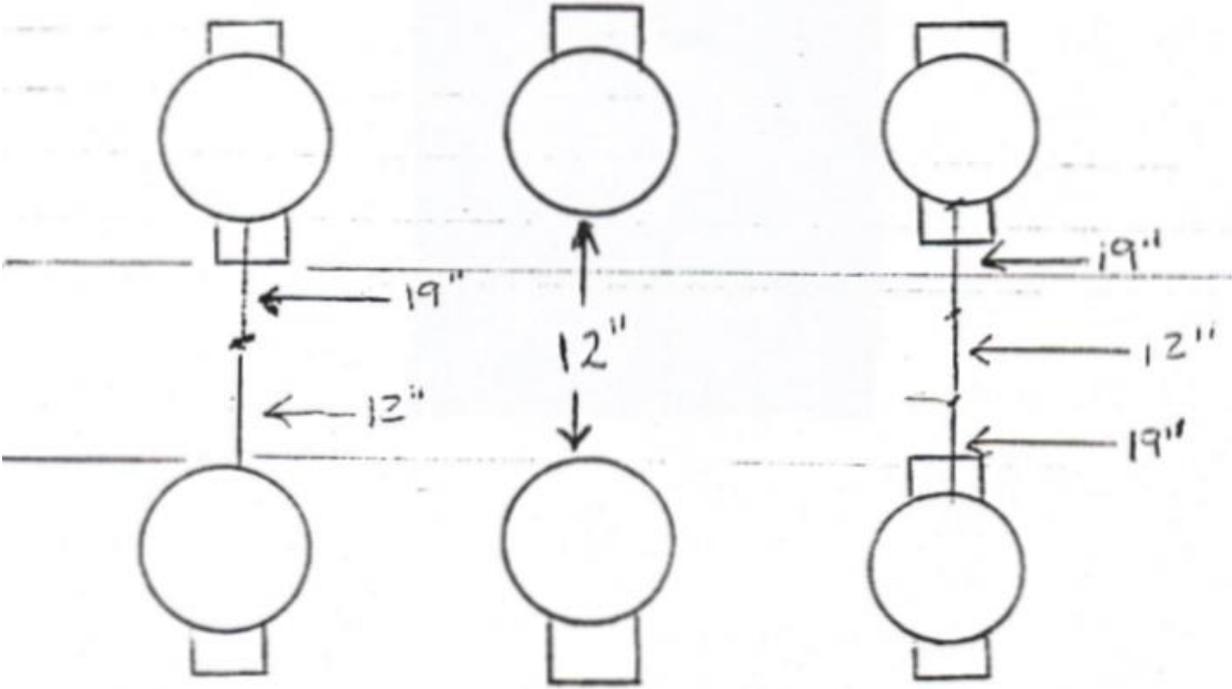
#81. Number of Exits -

#82. Means of Egress Arrangement -

#83. Illuminated Exit Signs -

#84. Emergency Lighting -

Cafeteria



Cafeteria

#85. Maintenance of Fire-Rated Construction and Door Closers –

175/185 requires cafeterias to be enclosed with 1-hour fire-rated construction if the cafeteria has an occupancy load greater than 600.

Cafeteria

Part 175/185 only: Smoke or heat detectors are only required in assembly areas if the room or area has interior finish with flame spread > 75 and is not protected with sprinklers.

Classrooms

#93. Inside of Classroom Doors Unlocked –

Classroom doors must be easily and readily openable by pupils from the inside of the classroom without the use of a key or special knowledge or effort.

Classrooms

Bolt locks are not permitted.

Unlatching of the door should not require more than one motion.

Think of the door hardware on hotel rooms.

Classrooms

#94. Maintenance of Fire-Rated Construction –

Must comply with required fire-rating of the corridor. *(See also #113)*

Classrooms

#95. Door Glass-Vision Panel –

If glazing is installed in a door located in a fire-rated wall, then the door has to be fire-rated and any glazing within the door will have to be fire-rated as well.

Classrooms

#96. Classroom Door Swing –

Doors shall swing in the direction of egress travel:

IFC/BOCA – serving > 50 persons

175/185 – serving > 20 persons

Classrooms

#97. Artwork in Classrooms-

For school buildings constructed on or after July 1, 2016 only: Artwork and teaching materials shall be limited on walls of classrooms to not more than 50% of the specific wall area to which they are attached.

Corridors

#108. Number of exits -

#109. Dead-End Travel -

#110. Illuminated Exit Signs -

#111. Emergency Lighting -

#112. Fire Resistant Construction -

Corridors

#112-Corridor Fire Rating

Part 175 and beyond: Sprinklers=No corridor rating

Part 175 and beyond: If all rooms used for instruction have a direct exit to the outside.

Part 175 only: 1 story building

Corridors

Remember that any glazing in a door that is required to be fire-rated or a wall that is required to be fire-rated must be approved for that assembly: Either tested/listed for the assembly or meets an exception in the applicable code.

Look for the symbol in the corner of the glazing that identifies it as fire-rated glazing

Corridors

Wired glazing doesn't always cut it!

Tempered glazing \neq fire-rated!!

But fire-rated tempered glazing is available on the market

Corridors

#113. Capacity and Width of Corridors –

Minimum clear width of corridors needs to be maintained, based on applicable code. Chairs, tables, vending machines, trophy cases, drinking fountains, etc. are allowed but shall not restrict this required width.

Corridors

#114. Storage in Corridors and Lobbies Not Permitted –

Storage in lobbies and corridors is normally not permitted unless the corridors and lobbies are protected with sprinklers or smoke detectors. Metal lockers may be used as long as the minimum required corridor width is not decreased.

Corridors

EXCEPT.....

Corridors

#114. Storage in Corridors and Lobbies Not Permitted –

175 permits coats or other clothing to be hung in an open corridor under certain prescribed conditions.

Corridors

#114. Storage in Corridors and Lobbies Not Permitted –

175 states that the hanging of clothing in corridors should be avoided.

Where this is done, the width of the corridor shall be increased 15 inches on each side where cloaks are hung.

Corridors

#114. Storage in Corridors and Lobbies Not Permitted –

185 permits students' cloaks to be hung in the open on the side walls of corridors as long as the following criteria are met:

(see following slides)

Corridors

Part 185 continued:

- The resulting clear width of such corridors is not less than 85% of the minimum allowable clear width established by 185, and
- The uninterrupted length of cloaks hung along any corridor wall is not more than 25 ft. in an unsprinklered building or 40 ft. in a sprinklered building:

Such length shall be measured horizontally from one end of the cloak hanging hooks or bars to the other end...

Corridors

Part 185 continued:

Continuity can be interrupted by a fire break consisting of a doorway or blank wall area not less than 36 in. in width or of a partition extending outward perpendicularly from the corridor wall not less than 12 inches and upwards from the floor to an elevation not less than 24 inches above the top of the cloaks.

This fire break partition, if provided, shall be considered in determining compliance with the limitations of the preceding paragraph.

Corridors

#115. Artwork –

Teaching material and artwork \leq 20% of corridor
wall-

*******THIS ONLY APPLIES TO BUILDINGS
CONSTRUCTED UNDER THE 2006, 2009 AND 2015
EDITIONS OF THE I-CODES*******

Elevators and Conveying Systems

#121. Does Not Obstruct Egress –

Typically this is a problem found with chair lifts installed in stairways.

Elevators and Conveying Systems

#122. Certificate of Inspection –

Elevators must have a current inspection certificate. Generally displayed in elevator car, but can be kept in the main office or the custodians office.

Certificates also required for other conveying systems such as escalators.

Exterior Items

#123. Properly Installed and Maintained Exterior Stairs –

Installation will be approved at completion of work, but the inspector needs to visually inspect to check for signs of:

- Structural failure
- Clear and unobstructed, including snow, etc.

Exterior Items



Exterior Items



Exterior Items

#124. Fire Lanes –

If the ROE makes the decision that a fire lane is need, then it is required to be maintained, kept clear of obstructions (which includes parked cars that may impinge on required width of fire lane) and marked with appropriate signage

Exterior Items

#125. Fire Department Connections –

Fire department connections shall be unobstructed and easily accessible.

Exterior Items

#126. Fire Hydrants – 425 ILCS 20

No object shall be constructed, maintained or installed within 48 inches of a fire hydrant. It shall be unlawful to install, maintain, construct or enlarge any barriers, trees, bushes, walls, or other obstacles which may hide or impede the use of a fire hydrant. Any fire hydrant installed or replaced after the effective date of this *Act* [1990] shall have a discharge that is maintained at least 14 inches, but not more than 26 inches, from the surface from which the hydrant protrudes.

Fire Escape Stairs

#128. Existing Fire Escapes –

Allowed to remain but cannot constitute more than 50% of the required exit capacity

185 - Only students aged 3rd grade and older are permitted on floors using fire escapes

Fire Escape Stairs

#128. Existing Fire Escapes –

Can be replaced with new fire escapes when the exterior of the building cannot be utilized due to:

- Lot lines
- Sidewalks
- Alleys/Roads

Fire Escape Stairs

#128. Existing Fire Escapes –

When permitted to be installed, new fire escape stairs cannot incorporate ladders or be accessed through windows.

Fire Escape Stairs

#129. Access to Fire Escapes –

Access to any fire escape cannot be through an intervening room.

Fire Escape Stairs

#130. Protection of Openings –

Except in buildings protected throughout with sprinklers, openings within 10 ft of a fire escape stair shall have a $\frac{3}{4}$ -hour fire resistance rating.

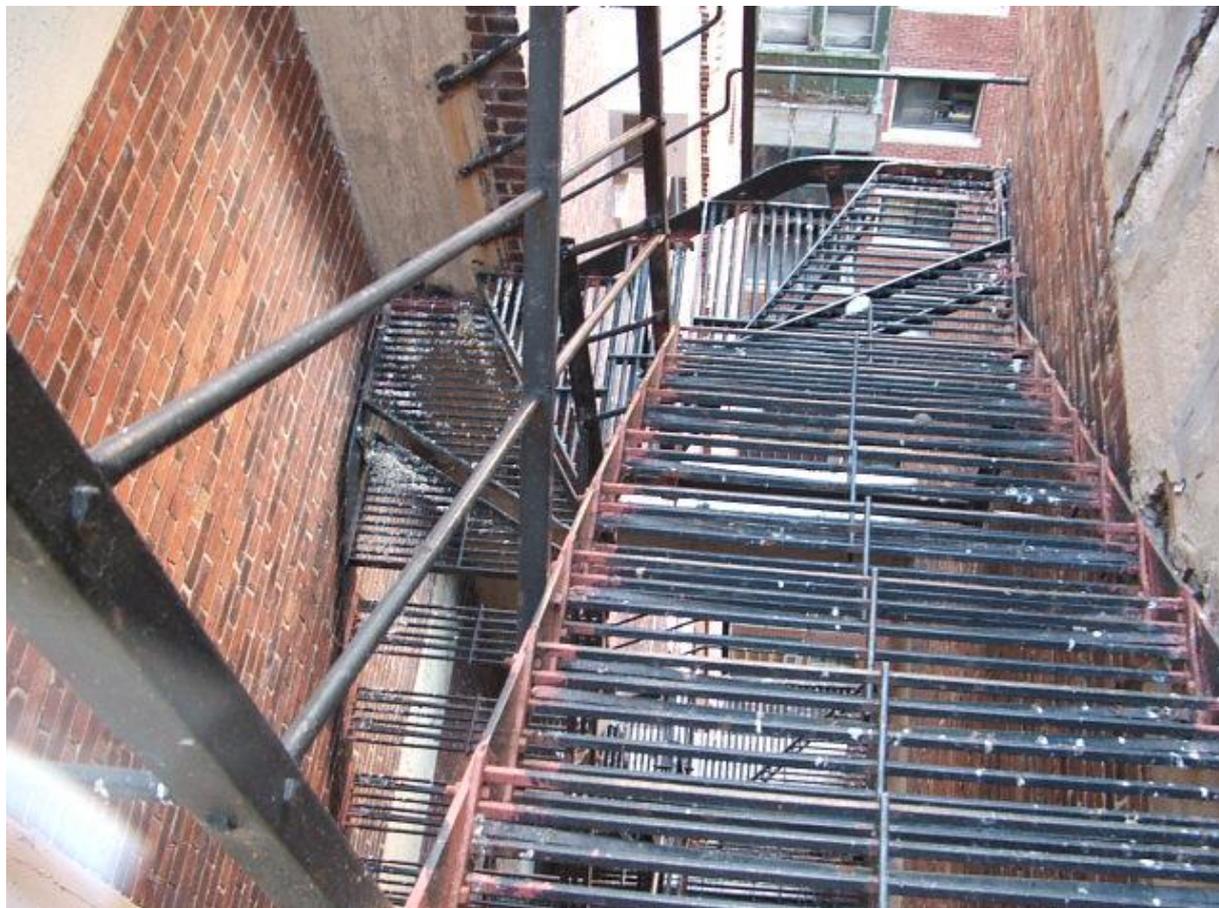
Fire Escape Stairs

#131. Testing –

The AHJ can require testing or other evidence that an existing fire escape meets the requirements of IFC (2003 & 2006)

Remember, the AHJ is the ROE.

Fire Escape Stairs



Greenhouses

This does not apply to the “greenhouse windows” commonly found in science laboratories that are installed as window systems. This applies to separate greenhouses or rooms that are glass-enclosed spaces with a controlled environment for growing plants, vegetables, and fruits out of season.

Greenhouses

#132. Maintenance of Fire-Rated Construction and Door Closers –

175/185 requires greenhouses to be separated from the attached school building by ¾-hour fire-rated construction.

Greenhouses

#133. Fire Alarm Systems –

Most greenhouses used at schools are considered a classroom setting and would therefore be required to have a fire alarm system.

- Pull stations
- Occupant notification

Greenhouses

#133. Fire Alarm Systems –

ISBE and the OSFM agree that there is nothing in the codes that requires the system found in the greenhouse to be connected to the fire alarm system used in the main school building, if the greenhouse is an independent building. No matter how close to main school building.

Greenhouses

#133. Fire Alarm Systems –

If the greenhouse is NOT used at all as a classroom setting (students have no need to enter the greenhouse), then a fire alarm system is not required as long as it is an independent building.

Greenhouses

#134. Fire Detectors –

175/185 only and only if area is not sprinklered

Gym and Multipurpose Rooms

#138. Posted Occupancy Load -

#139. Number of Exits -

#140. Means of Egress Arrangement -

#141. Illuminated Exit Signs -

#142. Emergency Lighting -

Gym and Multipurpose Rooms

#143. Maintenance of Fire-Rated Construction and Door Closers –

175/185 requires that gyms and multipurpose rooms be enclosed with 1-hour fire rated construction if the occupancy load is greater than 600.

Home Economics and Family Services Rooms

These rooms are the cooking, sewing, and child care instructional rooms. These rooms contain domestic stoves, domestic laundry machines and sewing machines.



Home Economics and Family Services Rooms

If a school has a child care area, for purposes of vocational training for students, this child care center is not required to be licensed by the Illinois Department of Children and Family Services and is governed by the rules of ISBE, unless they have clients < 24 months of age. BUT our worry is not licenses.

Home Economics and Family Services Rooms

#151. Maintenance of Fire-Rated Construction and
Door Closers – 175/185 requires ¾-hour

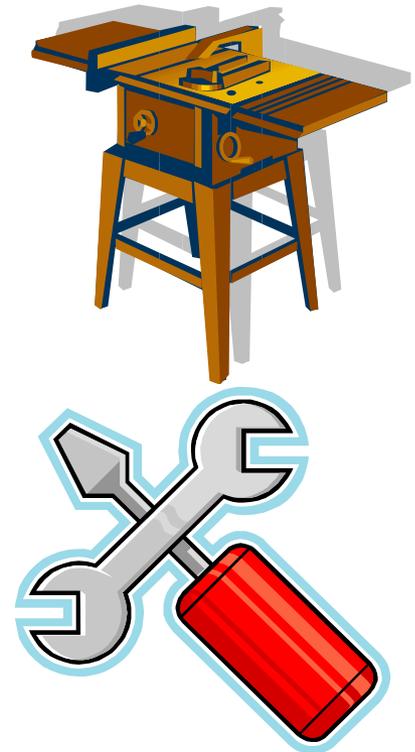
#152. Fire Detectors – 175/185 only and only if area is not
sprinklered

#153. Exhaust Fan -

Industrial Technology Labs and Metal Working Shops

Unique hazards found in these areas:

- Scrap metal and fines
- Compressed gases
- Machining oils
- Open flame (welding)



Industrial Technology Labs and Metal Working Shops

- Proper storage of compressed gas
- Ongoing housekeeping
- Appropriate trash cans for oily rags
- Egress maintained

Industrial Technology Labs and Metal Working Shops

#161. Maintenance of Fire-Rated Construction and Door Closers – 175/185 requires 1-hour

#162. Fire Detectors - 175/185 only and only if area is not sprinklered

#163. Welding Booth Exhaust -

#164. Eye Glasses -

Kitchens

We are discussing the kitchens used to prepare meals for the students, unless the school has a vocational kitchen where commercial cooking is performed or there exists cooking with grease laden vapors.

This discussion does not include the typical home economics classroom.

Kitchens

#176. Maintenance of Fire-Rated Construction and Door Closers –

175/185 requires ¾-hour

#177. Fire Detectors –

175/185 only and only if area is not sprinklered

Kitchens

#178. Fire Extinguishers –

Schools will be required retroactively to provide at least one fire extinguisher within 30 ft. of the commercial cooking equipment.

Kitchens

#178. Fire Extinguishers –

These fire extinguishers are required to be compatible with the fire suppression agent used in the cooking hood.

Cooking equipment involving vegetable or animal oil shall be protected using a Class K extinguisher.

Kitchens

#179. Cooking Hood Exhaust –

Commercial cooking appliances must be protected with an approved commercial kitchen exhaust hood and duct system.

International Mechanical Code

BOCA National Mechanical Code

Kitchens

#180. Regular Inspection and Cleaning of Cooking Hood Exhaust System –

The codes do not identify specific time periods, but base the frequency on what is needed to prevent the accumulation of grease.

Look for a sticker placed on the outside edge of the hood canopy or for paperwork if cleaning company doesn't use stickers.

Kitchens

#181. Filter Installation and Maintenance –

Filters are part of the grease collection system. It becomes pretty obvious when they are not being cleaned on a regular basis.

Kitchens

#181. Filter Installation and Maintenance –

- Listed
- Constructed of steel or listed equivalent
- Rigid construction
- Mesh filters are not permitted unless listed for use in hoods
- Installed at an angle $\geq 45^\circ$ from the horizontal

Kitchens

#182. Cooking Hood Extinguishing Systems –

All existing extinguishing systems will need to be listed under UL 300, which means they should be a wet chemical system. Currently there are no dry chemical systems that are listed under UL 300.

Kitchens

#182. Cooking Hood Extinguishing Systems –

Systems must be inspected every 6 months and the service tags are installed on the remote pull station and on the extinguishing agent tank.

This work has to be performed by a fire equipment contractor that is licensed with OSFM.

Library and Media Centers

#189. Posted Occupant Loads -

#190. Number of Exits -

#191. Means of Egress Arrangement -

#192. Illuminated Exit Signs -

#193. Emergency Lighting -

#194. Maintenance of Fire-Rated Construction and Door Closers – 175/185 requires 1-hour (if O.L. > 600)



Library and Media Centers

Part 175/185 only: Smoke or heat detectors are only required in assembly areas if the room or area has interior finish with flame spread > 75 and is not protected with sprinklers.

Mechanical Rooms

#198. Maintenance of Fire-Rated Construction and Door Closers – See Appendix N, O, or P for the various types of mechanical rooms and their separation requirements

#199. Fire Detectors – Part 175/185 only

Mechanical Rooms

#200. Storage of Combustibles-

Clearances to combustible materials shall be maintained so the operation of furnaces and other gas appliances will not create a hazard to persons or property.

A minimum clearance is required to permit maintenance and inspection of equipment.

Mechanical Rooms

#200. Storage of Combustibles-

IFC only: Combustible materials shall not be stored in mechanical rooms. A mechanical room is defined by the IMC as a room or space in which non-fuel-fired mechanical equipment and appliances are located.

Music Practice Rooms

#202. Sound Proofing Used As Wall Covering –



Photo Developing Rooms

#208. Maintenance of Fire-Rated
and Door Closers – 175/185

#209. Fire Detectors - 175/185 only and
sprinklered

#210. Exhaust Fan –

#211. Chemicals – See Appendix B

Construction
requires ¾-hour

only if area is not

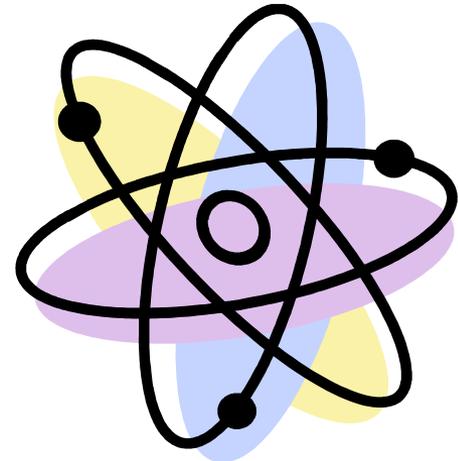


Science Laboratories

#225. Maintenance of Fire-Rated Construction and Door Closers –
175/185 requires $\frac{3}{4}$ -hour

#226. Fire Detectors -

#227. Exhaust Fan -



Science Laboratories

#228. Fume Hood Exhaust –

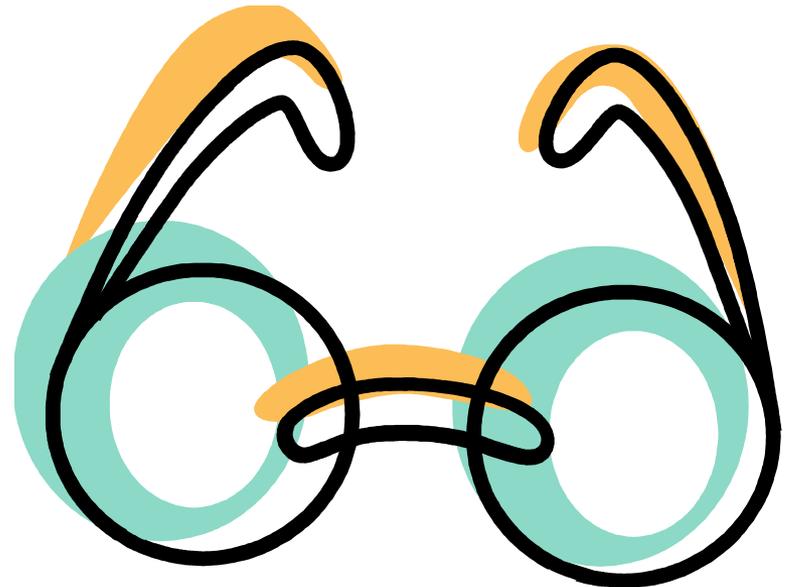
A fume hood exhaust needs to be provided when the mixing of chemicals occurs. This must exhaust directly to the outside.

These booths should not be used for storage, which is a commonly found violation.

Science Laboratories

#229. Eye Glasses –

#230. Chemicals – See
Appendix B



Science Laboratories

#231 Emergency Fuel Burner Switch-

ICC Fuel Gas Code (2009 + 2015) 409.6 Shutoff valve for laboratories.

This applies only to schools approved for design on or after January 1, 2010.

Where provided with two or more fuel gas outlets, including table-, bench- and hood-mounted outlets, each laboratory space in educational, research, commercial and industrial occupancies shall be provided with a single dedicated shutoff valve through which all such gas outlets shall be supplied. The dedicated shutoff valve shall be readily accessible, located within the laboratory space served, located adjacent to the egress door from the space and shall be identified by approved signage stating "Gas Shutoff."

Shower and Locker Rooms

#235. Number of Exits -

#236. Illuminated Exit Signs -

#237. Exhaust Fan/Ventilation – not checked by fire service personnel

#238. Vapor-Proof Lights – not checked by fire service personnel

Stages (Large), Dressing Rooms, and Other Accessory Areas

These requirements pertain to those stages with overhead hanging curtains, drops, scenery or stage effects other than lighting and sound; or a stage where the distance between the top of the proscenium opening and the ceiling above the stage is > 5 ft or the stage height is > 50 ft.

Generally, these stages are only found in high schools.

Stages (Large), Dressing Rooms and Other Accessory Areas

#243. Illuminated Exit Signs -

#244. Emergency Lighting -

#245. Maintenance of Fire-Rated Construction and Door Closers –

175/185 requires 1-hour proscenium separation.

Newer schools may be required to have a 2-hour separation

Stages (Large), Dressing Rooms and Other Accessory Areas

#246. Proscenium Wall Protection –

The proscenium wall is the wall that separates the stage and backstage areas from the audience. This wall is required to be fire-rated.

Stages (Large), Dressing Rooms and Other Accessory Areas

#246. Proscenium Wall Protection –

The proscenium curtain is part of the proscenium wall protection system.

A properly designed deluge sprinkler system is permitted in lieu of a proscenium curtain

(See Appendix E for recommended practice for proscenium curtains, except for those installed under the 2009 + 2015 edition of IBC)

Stages (Large), Dressing Rooms and Other Accessory Areas

#247. Curtains and Scenery –

Must resist the spread of flame. There should be a current label attached to curtains used on stages.

Stages (Large), Dressing Rooms, and Accessory Areas

#248. Sprinkler Systems and Ventilators –

Stages which are equipped with fly galleries, gridirons, and rigging for movable theater-type scenery shall be protected with sprinklers.

In most cases, even existing stages!

Stages (Large), Dressing Rooms and Other Accessory Areas

#248. Sprinkler Systems and Ventilators –

Stages and enclosed platforms $> 500 \text{ ft}^2$ are required to have a ventilator(s) that is:

- Manually operated from the stage floor, and
- Automatically operated by fusible links or approved heat actuating devices

Ventilator opening must be $\geq 5\%$ of the stage floor area

Stages (Large), Dressing Rooms, and Other Accessory Areas

#249. Standpipes for Stages –

For schools contracted for design on or after July 1 1965 but before March 24, 1995 are required to have a standpipe. For schools contracted for design on or after March 24, 1995, stages > 1,000 ft² are required to have a standpipe.

Stages (Small)

These requirements apply to those smaller stages found in your typical grade school and middle school. Scenery is still used but not hung from the professional rigging systems found in the Large Stages. The stage ceiling is not > 5 ft. above the proscenium opening.

Stages (Small)

#256. Illuminated Exit Signs -

#257. Emergency Lighting -

#258. Curtains and Scenery -

#259. Fire Detectors –

175/185 only and only if area is not sprinklered

Stages with Storage Underneath

#265. Maintenance of Fire-Rated Construction and Door Closers –

IFC 2003/2006

1-hour fire rated construction with doors that are N/C construction or 1 $\frac{3}{4}$ " SC with closer and latch. *Exception is only if area under stage is used for noncombustible storage*

If this is a legitimate stage this area is required to have sprinklers and the minimum enclosure requirements are not required

Stages With Storage Underneath

#265. Maintenance of Fire-Rated Construction and Door Closers –

BOCA 1996

No sprinklers required if space is < 4 ft. in height

Used exclusively for storage of tables and chairs

Enclosed with $\frac{5}{8}$ " Type X gypsum

With sprinklers, no minimum enclosure requirements

Stages With Storage Underneath

#265. Maintenance of Fire-Rated Construction and Door Closers –

BOCA 1993

No sprinklers required is enclosure and supporting structure is 1-hour fire-rated, which means $\frac{3}{4}$ -hour door with closer and latch.

With sprinklers, no minimum enclosure required

Stages With Storage Underneath

#265. Maintenance of Fire-Rated Construction and Door Closers –

Parts 175/185

With sprinklers enclosing construction must be ½-hour fire rated or N/C construction

Without sprinklers enclosing construction must be ½-hour fire rated construction

In all cases doors shall be of hollow metal or solid core wood construction and shall be maintained locked at all times when such rooms are not in actual use or shall be provided with automatic self-closing devices.

Stages With Storage Underneath

#266. Noncombustible Storage Only –

ICC schools only. No fire-rated enclosure required if area under the stage is only used for noncombustible storage only.

This means only metal chairs and tables. No cloth, no wood, no plastic!

Stages With Storage Underneath

#267. Fire Detectors –

175/185 requires smoke or heat detectors in storage areas located below stages, if they are not protected with sprinklers.

#268. Sprinklers – (see glossary)

Stairwells

#272. Properly Maintained Stairs –

185 requires non-slip treads on all stairs located within a means of egress.

Stairwells

#273. Illuminated Exit Signs -

#274. Emergency Lighting -

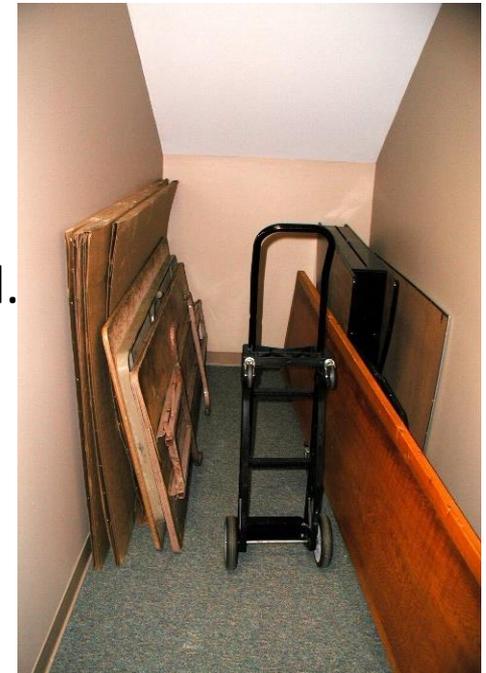
#275. Interior Exit Stair Enclosure -

Stairwells

#276. No Storage Under Stairs –

STAIRWELLS ARE NOT STORAGE ROOMS!

There should be no storage of any kind within a stairwell.



Stairwells

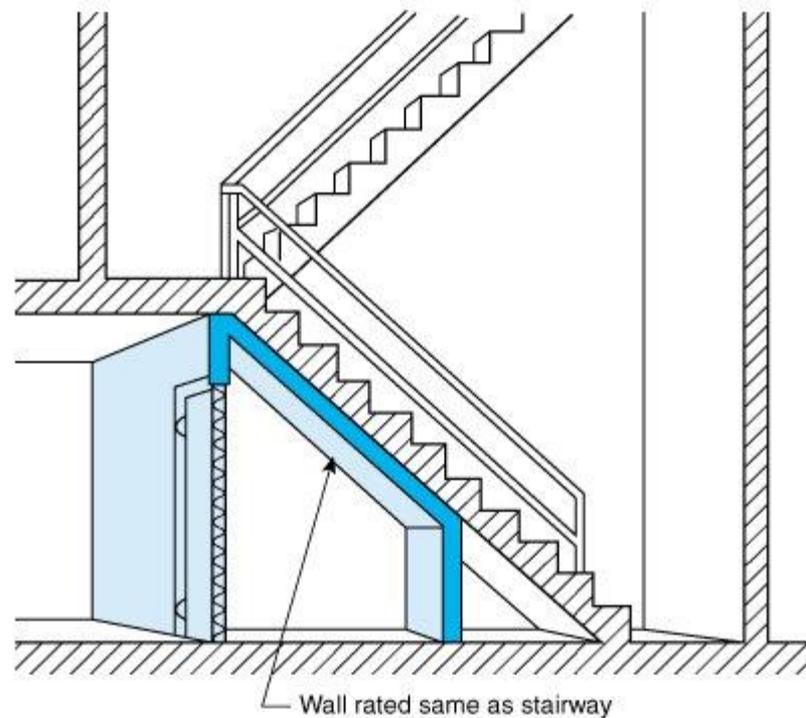
#276. No Storage Under Stairs –

It is permissible to create an enclosed storage room under stairs under the following conditions:

- Separation from stair structure and stairwell itself by 1-hour fire-rated construction
- Access to storage room is not from within the stairwell.
- Fire detection is provided if room is not protected with sprinklers.

Stairwells

#276. Exception



Stairwells

#277. Fire Detectors –

185 requires that fire detectors (smoke or heat) be provided at the top of stairwells that are not protected with sprinklers.



Storage, Supply Rooms and Closets

#283. Maintenance of Fire-Rated Construction and Door Closers –

#284. Fire Detectors –

175/185 only and only if area is not sprinklered

Storage, Supply Rooms and Closets

#285. Classroom, Janitor's Closets and Cloakrooms –

175 only – If doors are normally kept locked and only opened with a responsible person in attendance, door closer can be eliminated for classroom and janitor's closets.

Storage, Supply Rooms and Closets

#285. Classroom and Janitor's Closets –

185 only –

Teacher's closets < 12 ft² with access from classroom do not have to be separated

Coats and cloak rooms < 100 ft² with access from classroom do not have to be separated

Swimming Pools

When serving as an assembly use:

#289. Posted Occupant Loads -

#290. Number of Exits -

#291. Means of Egress Arrangement -

#292. Illuminated Exit Signs -

#293. Emergency Lighting –

Swimming Pools

#294. Maintenance of Fire-Rated Construction and Door Closers – 175/185 requires 1-hour if > 600 occupants

#295. Vapor-Proof Lights - Fire service will not be required to look at these fixtures

Swimming Pools

#296. Exhaust Fan –

Fire service will not be required to check for this.

#297. IDPH Safety Equipment –

This item falls under the jurisdiction of the Illinois Department of Public Health. Fire department, fire protection district and OSFM inspectors will not be required to review or enforce this.

(Title 77 Ill. Adm. Code 820.310)

Swimming Pools

#298. Fire Extinguishers –

If a fire extinguisher is provided in the pool area, only water fire extinguisher are permitted in areas containing oxidizers such as pool chemicals.

Teacher's Workrooms and Lounges

It is not clear when these requirements are actually required, much debate and discussion but no real clear answer:

#301. Maintenance of Fire-Rated Construction and Door Closers – 175/185 requires ¾-hour

#302. Fire Detectors - 175/185 only and only if area is not sprinklered and only in those lounges where there are cooking or heating appliances

#303. Exhaust Fan – Only in areas with cooking or heating appliances

Time-Out Rooms

#304. Ceiling Height –

Time-out rooms ceiling height shall be the same as surrounding rooms

Room shall be large enough to accommodate student and another person required to accompany student

Time-Out Rooms

#305. Safe Construction –

Constructed using materials that won't harm student

Student can't climb the wall

Viewing panels – Fire-rated construction?

Padding – Interior finish requirements

Time-Out Rooms

#306. Locking –

If a locking mechanism is used on the enclosure, the mechanism shall be constructed so that it will engage only when a key, handle, knob, or other similar device is being held in position by a person, unless the mechanism is an electrically or electronically controlled one that is automatically released when the building's fire alarm system is triggered. Upon release of the locking mechanism by the supervising adult, the door must be able to be opened readily.

Time-Out Rooms

#307. Monitoring –

Any enclosure for isolated time out shall be designed to permit continuous visual monitoring of and communication with the student.

Toilets

#309. Exhaust Fan –

Fire service will not be required to check for this.

Woodworking Shops

#315. Maintenance of Fire-Rated Construction and Door Closers - 175/185 requires 1-hour



Woodworking Shops

#316. Fire Detectors –

175/185 only and only if area is not sprinklered

#317. Fire Extinguishers –

A fire extinguisher suitable for Class A fires is required to be installed within 50 ft. of any machine producing shavings or sawdust. Shall be serviced by a contractor licensed by OSFM and display a current inspection tag.

Woodworking Shops

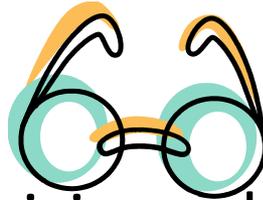
#318. Sawdust Collector and Exhaust –

This system is required and should be installed in accordance with the applicable code (International Fire Code or BOCA National Fire Prevention Code).

Collection device should be emptied daily.

Woodworking Shops

#319. Eye Glasses



#320. Housekeeping – Provisions shall be made for the systematic, thorough cleaning of the woodworking area at sufficient intervals to prevent the accumulation of combustible dust and spilled combustible flammable liquids (if used).

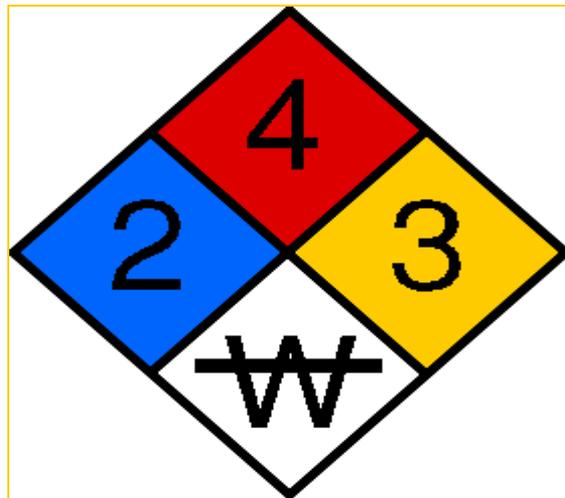


Appendix A

Code References and Acronyms

Appendix B

Storage/Handling of Flammable and Combustible Liquids and Other Chemicals

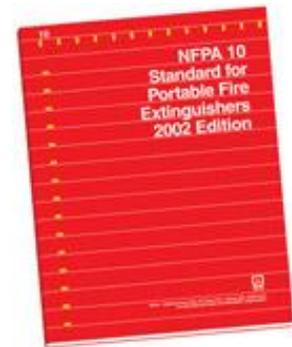


Appendix C

Fire Alarm Inspection, Testing, and Maintenance

Appendix D

Fire Extinguisher Matrix – NFPA 10: 2007 per OSFM's Part 251 rules.



Appendix E

Periodic Inspection and Testing of Proscenium Curtains (guideline only,
except for those curtains installed under the 2009 + 2015 IBC)

NFPA 80 – 2007 + 2013 editions

Appendix F

Periodic Testing of Emergency Lighting Equipment

Required in BOCA Fire Prevention Code



Appendix G

Dead-End Travel Matrix

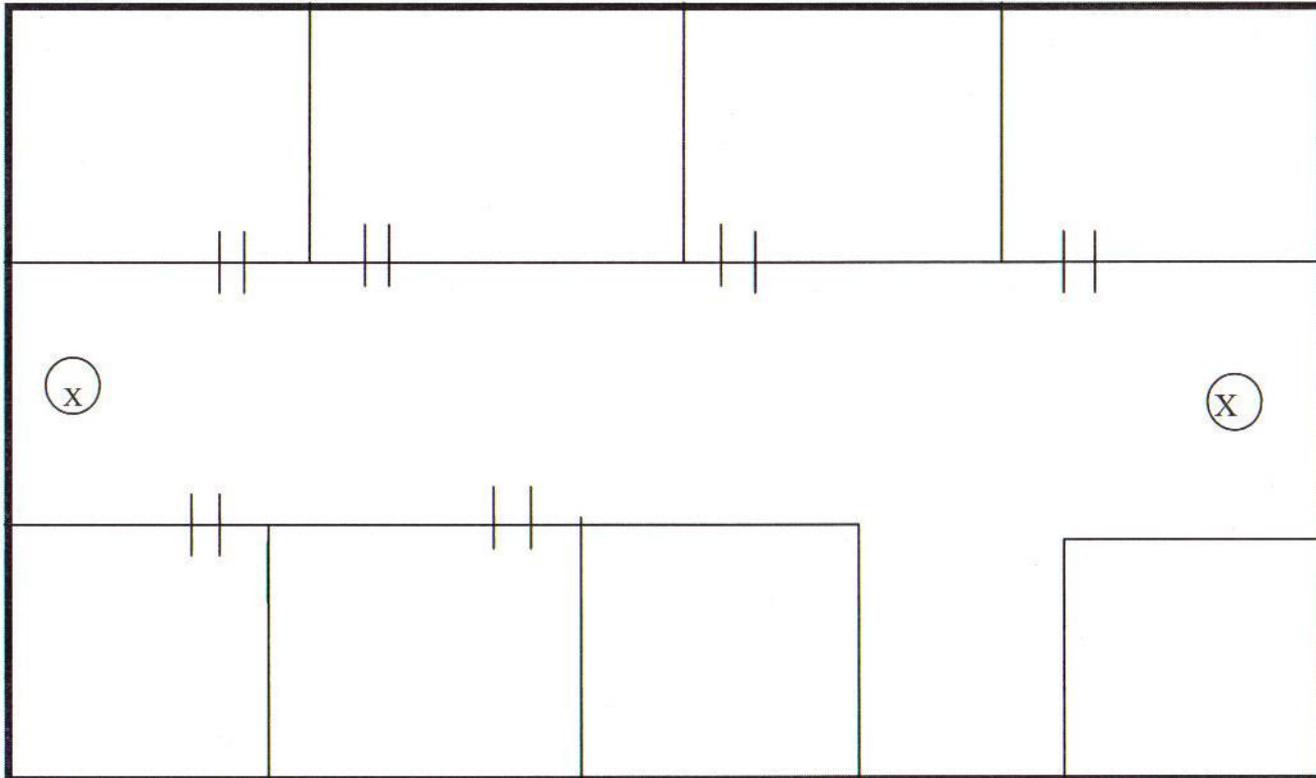
From BOCA Fire (1993 + 1996) and IFC (2003 + 2006 + 2009 + 2015)

Appendix G



Appendix G

DEAD END



Appendix H

Wall-Mounted Alcohol-Based Hand-Rub Dispensers

Appendix I

Decorative Vegetation

Appendix J

Manual Fire Alarm Pull Stations

Appendix K

Health/Life Safety Annual Inspection Checklists

Appendix L

Interior Wall, Ceiling, and Floor Finish

Appendix M

Clearance from Sprinkler Heads

Appendix N

Part 175 Fire Rated Separations

Appendix O

Part 185 Fire Rated Separations

Appendix P

Part 180 Fire Rated Separations

Includes BOCA 1993 + 1996

Includes ICC 2003 + 2006 + 2009 + 2015

The End

Any questions?