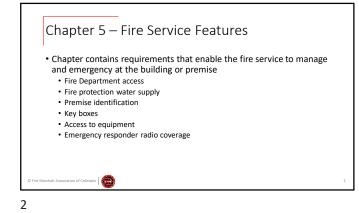
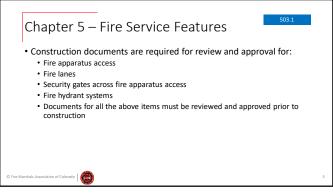


2018 International Fire Code

Chapter 5 – Fire Service Features



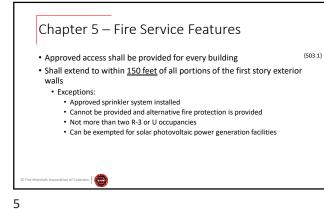


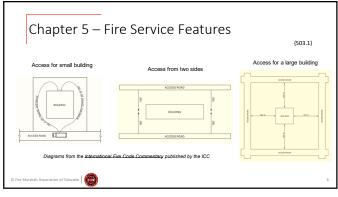




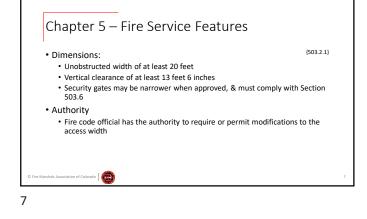
## Definitions

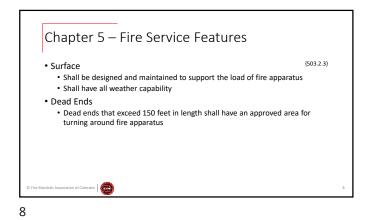
- <u>Fire apparatus access road</u> A road that provides fire apparatus access from a fire station to a facility, building or portion thereof.
- This is a general term, inclusive of all other terms such as, Fire Lane, Public Street, Private Street, Parking Lot Lane and Access Roadway.
- <u>Fire lane</u> A road or other passageway developed to allow the passage of fire apparatus.
- A fire lane is not necessarily intended for vehicular traffic other than fire apparatus.

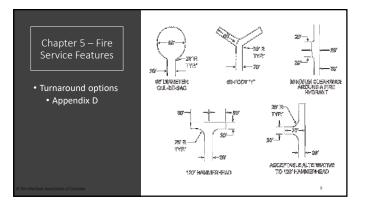




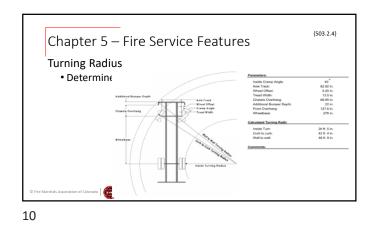




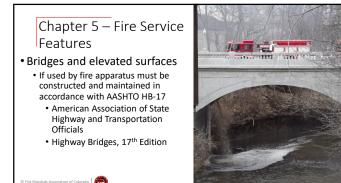


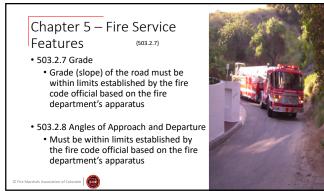




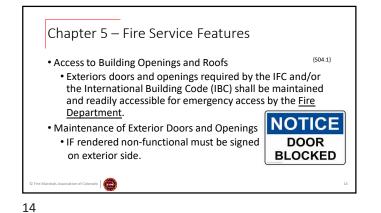








#### Chapter 5 – Fire Service NO Features {503.3} Marking PARKING • Where required, by the Fire Code Official, approved signs or other approved notices or markings that FIRE include the words: • NO PARKING - FIRE LANE • Shall be provided for fire apparatus access roads 0 13





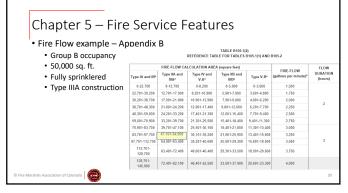


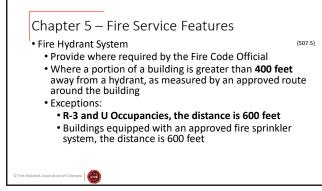




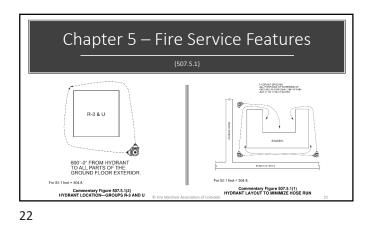


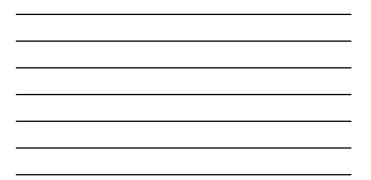




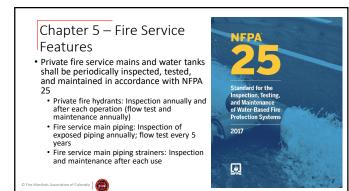


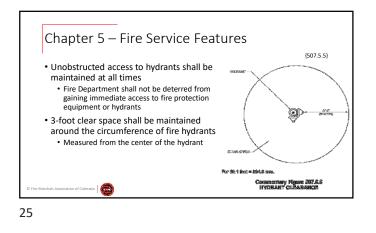




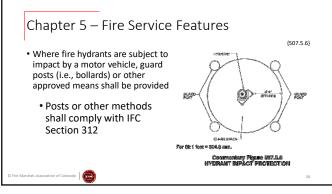




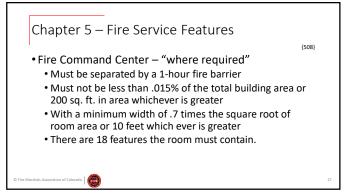




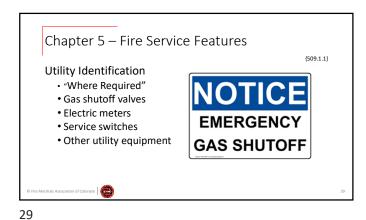


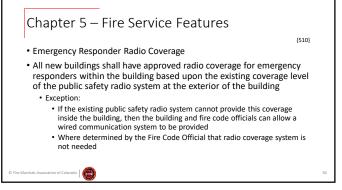


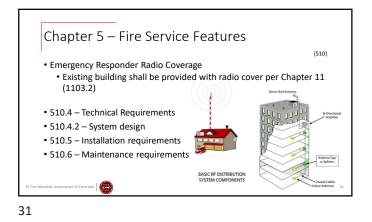


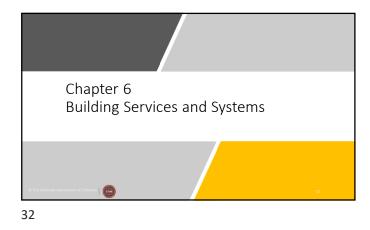


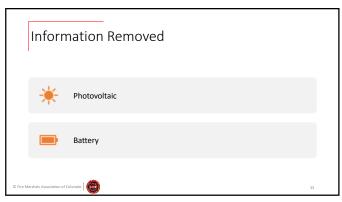
















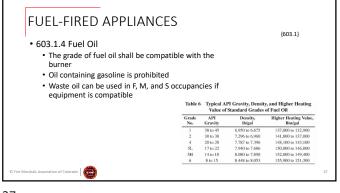


- Non- Portable Gas Fired Appliances
- International Mechanical Code
   Non-Portable Liquid Fired Appliances

ation of Colorado 🛛 🛞

Allow for specific fuel fired devices like generators and fire pumps
Installation should be in accordance with the manufacturer's instructions.

{603.1}

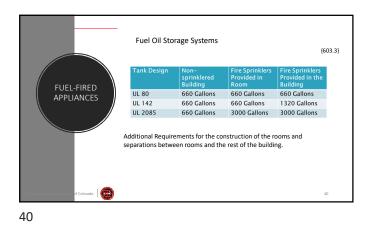




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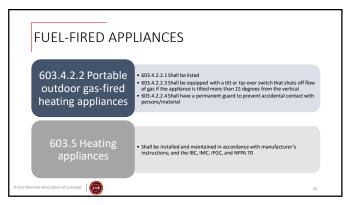




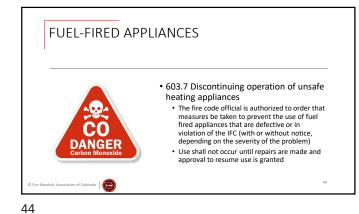




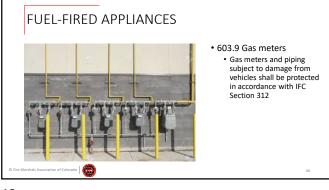


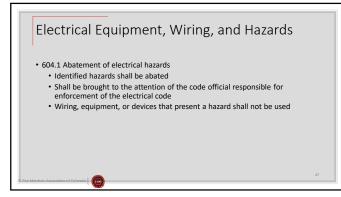




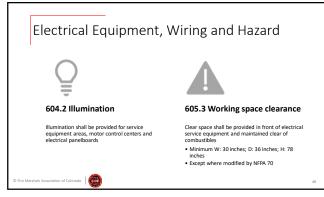


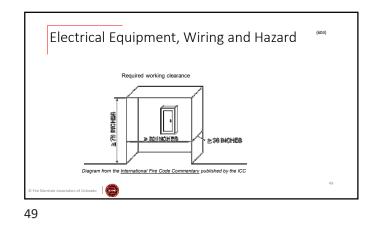


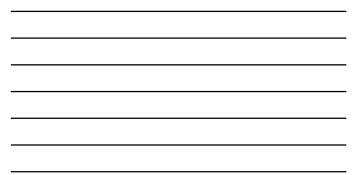








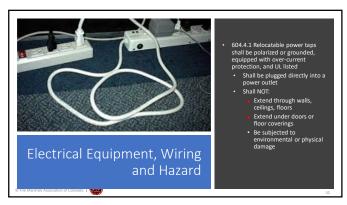








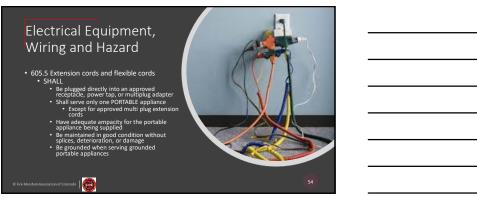




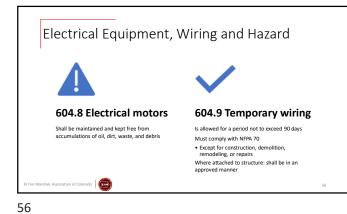










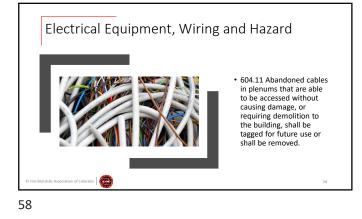


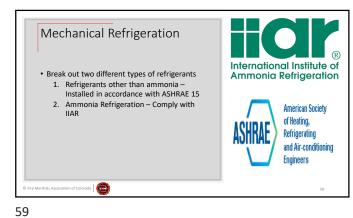


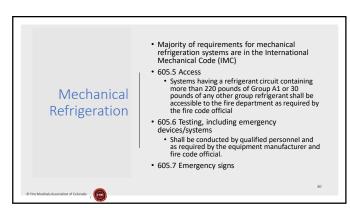
Electrical Equipment, Wiring and Hazard

604.10 Portable electric space heaters

- Allowed where not prohibited by other sections of the IFC • Prohibited in I-2 occupancies (hospitals, etc.) Exception: Non-sleeping employee staff areas, when the heating element temp. cannot exceed 212 degrees F
- Shall be listed and labeled
  Shall be plugged directly into an approved receptacle
- Shall not be plugged united in an expension cord
   Shall not be plugged united in the effect of combustibles
   Shall be operated only in areas for which they are listed

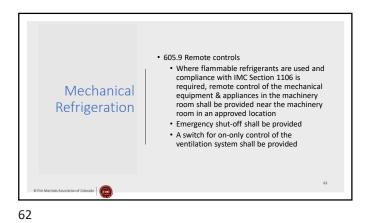


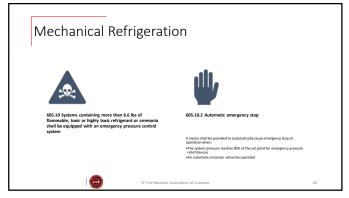


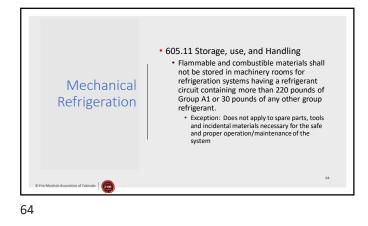


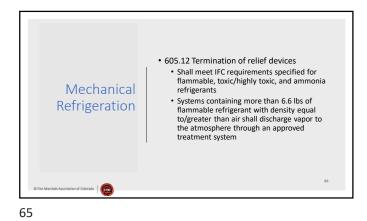


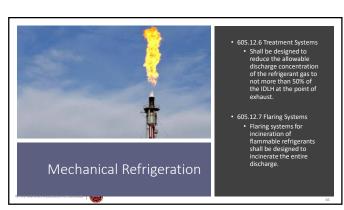


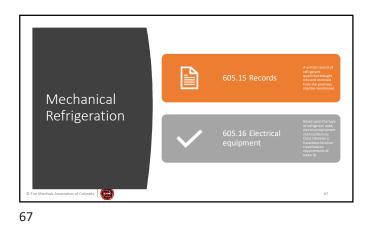




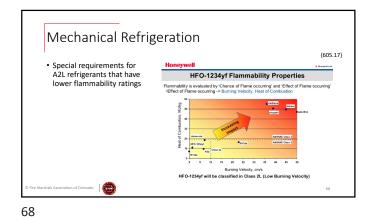








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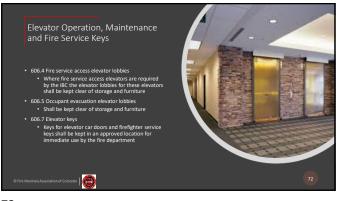




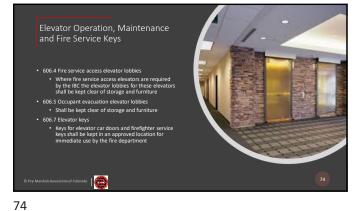
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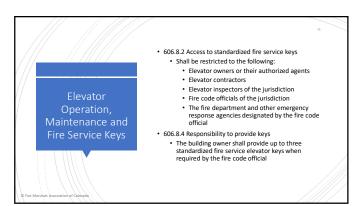
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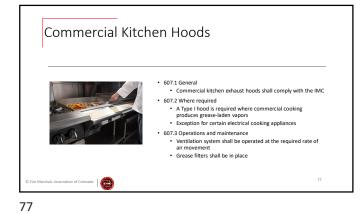


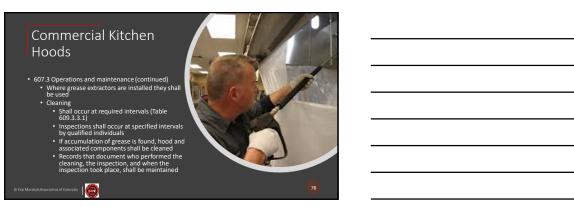




Commercial Kitchen Hoods

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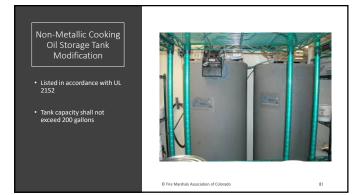




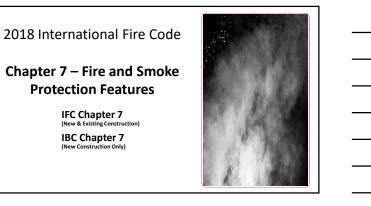


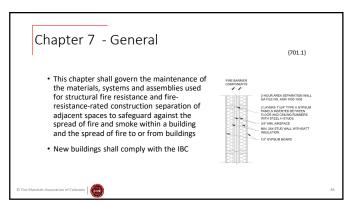


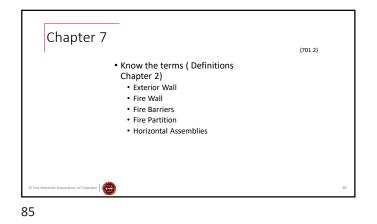












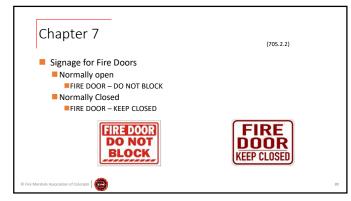






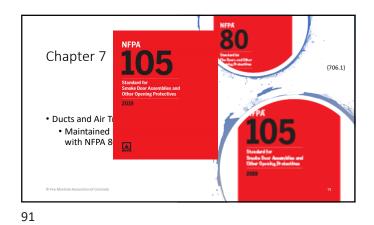




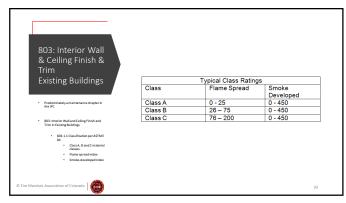














# 803: Interior Wall & Ceiling Finish & Trim **Existing Buildings**

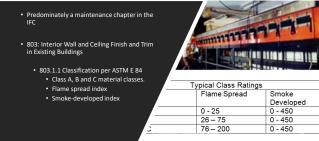


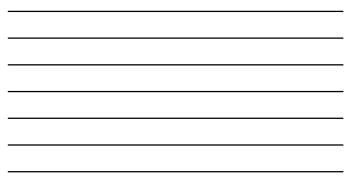








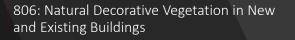
	TABLE 803.3 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY <sup>5</sup> SPRINKLERED NONSPRINKLERED						
	GROUP	Interior exit stairways and ramps and exit passageways <sup>1,0</sup>	SPRINKLERED Corridors and enclosure for exit access stairways and ramps	Rooms and enclosed spaces*	NO Interior exit stairways and ramps and exit passageways <sup>3,3</sup>	NSPRINKLERED Corridors and enclosure for exit access stairways and ramps	Rooms and enclosed spaces'
	A-1 and A-2	В	В	С	A	A	Br
	A-3 <sup>r</sup> , A-4, A-5	В	В	С	A	Ad	С
803: Interior	B, E, M, R-1, R-4	В	Ca	С	A	B <sup>n</sup>	C
Wall & Cailing	F	С	С	С	В	с	С
Wall & Ceiling	Н	В	В	Ct	A	A	В
Finish & Trim	I-1	В	С	С	A	В	В
Existing	1-2	В	В	Bpri	A	A	В
	1-3	A	A'	C B <sup>h, i</sup>	A	A	B
Buildings	I-4 R-2	B	B	B <sub>0</sub> ,1	AB	AB	B
	R-2 R-3	C C	c	c	C B	C	C C
	R-5	c	c	c	B	B	C
	3		No Restrictions	C		o Restrictions	U.
	For SI: 1 inch = 25.4 r	nm, 1 square foot = 0.0925					

















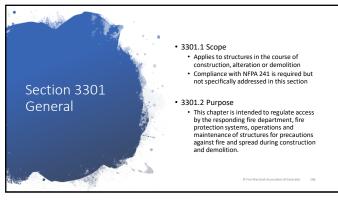




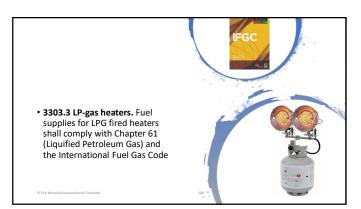
808: Furnishings other than Upholstered Furniture and Mattresses or Decorative Materials in New and Existing Buildings

- 808.1 Wastebaskets and linen containers
   Only applies to I-1, I-2, I-3
   Noncombustible, or peak HRR <a href="https://www.subtible.subtibl
- 808.2 Waste containers with capacity > 20 gals in Group R-2 dormitories
- 808.4 Combustible lockers







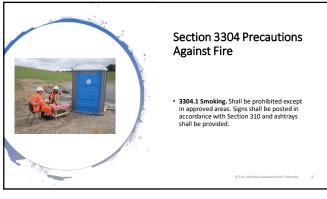




· 3303.4 Refueling. Shall be

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- 3303.5 Installation. Clearance to combustibles from temporary heating devices shall be maintained in accordance with the labeled equipment.
- It shall be fixed in place and protected from damage
- 3303.6 Supervision. The use of temporary heating devices shall be supervised and maintained only by competent personnel.



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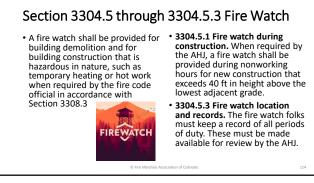


• 3304.2.4 Spontaneous ignition. Materials susceptible to spontaneous ignition, like oil rags, shall be stored in a listed disposal container.



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- 3304.6 Cutting and Welding.
   Welding, cutting, open torches and other hot work operations and equipment shall comply with Chapter 35 (Welding and Other Hot Work)
- **3304.7 Electrical.** Temporary wiring for electrical power and lighting installations used in connection with the construction, alteration or demolition of buildings, structures, equipment or similar activities shall comply with NFPA 70.



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## 3304.8 Cooking

 Cooking shall be prohibited except in approved designated cooking areas. Signs with a minimum letter height of 3 inches and a minimum brush stroke of ¼ inch shall be posted in conspicuous locations in designated cooking areas and state:

> DESIGNATED COOKING AREA COOKING OUTSIDE OF A DESIGNATED COOKING AREA IS PROHIBITED.

> > © Fire Marshals Association of Colorado

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## Section 3305 Flammable and Combustible Liquids

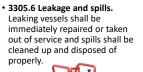
• 3305.1 Storage of flammable and combustible liquids. Storage of these liquids shall be in accordance with Section 5704.

• 3305.2 Class I and Class II liquids. Storage of these at construction sites shall be in accordance with 5706.2. Ventilation is required.  3305.3 Housekeeping.
 Flammable and combustible liquid storage areas shall be maintained clear of combustible vegetation and waste materials.



## Section 3305 Flammable and Combustible Liquids

- 3305.4 Precautions against fire. Sources of ignition and smoking shall be prohibited in flammable and combustible liquid storage areas. Signs shall be posted in accordance with Section 310.
- 3305.5 Handling at point of final use. Class I and II liquids shall be kept in approved safety containers.





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## Section 3307 Explosive Materials

- 3307.1 Storage and handling. Explosive materials shall be sored, used and handled in accordance with Chapter 56.
- 3307.2 Supervision. Blasting operations shall be conducted in accordance with Chapter 56.
- be conducted in accordance with Chapter 56. **3307.3 Demolition using explosives.** Approved fire hoses for use by demolition personnel shall be maintained at the demolition site wherever explosives are used for demolition. Such fire hoses shall be connected to an approved water supply and shall be capable of being brought to bear on post-detonation fires anywhere on the site of the demolition operation.

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# Section 3308 Owner's Responsibility for Fire Protection

- 3308.1 Program development and maintenance. The owner or owners agent shall be responsible for the development, implementation and maintenance of a written plan establishing a fire prevention program at the project site throughout all phases of the construction, repair, alteration or demolition work.
- 3308.2 Program superintendent. The owner shall designate a person to be the fire
  prevention program superintendent who shall be responsible for the fire prevention
  program and ensure that it is carried out through completion of the project.

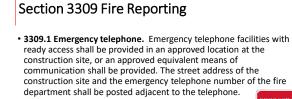
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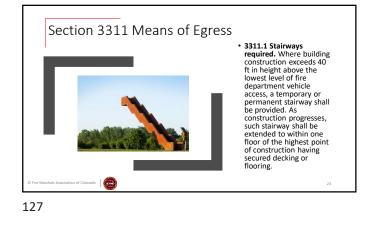


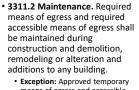












• Exception: Approved temporary means of egress and accessible means of egress systems and facilities.



 3311.3 Storage. Combustible materials associated with construction, demolition, remodeling or alterations to an occupied structure shall not be stored in exits, enclosures for stairways and ramps, or exit access corridors serving an occupant load of 30 or more.
 Exceptions: Where the only

occupants are construction workers or combustible materials that are temporary accumulated to support work being performed when workers are present.



## Section 3313 Standpipes

• 3313.1 Where required. In buildings required to have standpipes by Section 905.3.1, not less than one standpipe shall be provided for use during construction. Such standpipes shall be installed prior to construction exceeding 40 ft in height above the lowest level of fire department vehicle access.

#### 3313.2 Buildings being demolished. Where a building is being demolished and a standpipe is existing within such a building, such standpipe shall be maintained

such standpipe shall be maintained in an operable condition so as to be available for use by the FD. • **3313.3 Detailed requirements.** Standpipes shall be installed in



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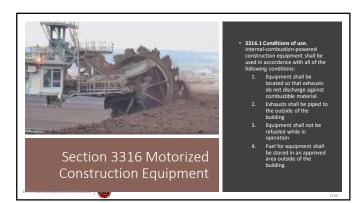
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- demolition shall be provided with not less than one approved portable fire extinguisher in accordance with Section 906 and sized for not less than ordinary hazard as follows:
- 1. At each stairway on all floor levels where combustible materials have accumulated.
- 2. In every storage and construction shed

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 Additional shall be provided where special hazards exist including, but not limited to, the storage and use of flammable and combustible liquids.

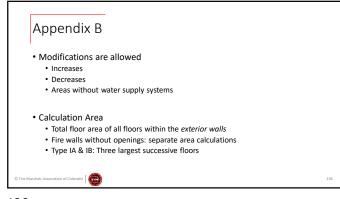


## Section 3317 Safeguarding Roofing Operations

- **3317.1 General.** Roofing operations utilizing heat-producing systems or other ignition sources shall be conducted in accordance with Sections 3317.2 and 3317.3 and Chapter 35.
- 3317.2 Asphalt and kettles. Asphalt and tar kettles shall be operated in accordance with Section 303.
- 3317.3 Fire extinguishers for roofing operations. Fire extinguishers shall comply with Section 906. There shall be not less than one multipurpose portable fire extinguisher with a minimum 3-A 40B:C rating on the roof being covered or repaired.

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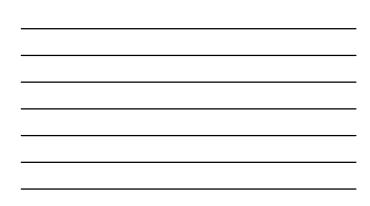






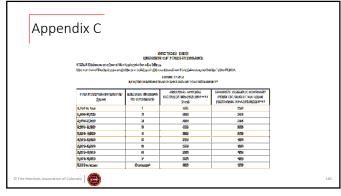
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		REFERENCE TAE	TABLE B105.1 BLE FOR TABLES		B105.2	
	FIRE-FLOW CA		FLOW			
Type IA and IB	Type IIA and IIIA*	Type IV and V-A*	Type IIB and IIIB*	Type V-B*	FIRE-FLOW (gallons per minute) <sup>o</sup>	DURATION (hours)
0-22,700	0-12,700	0-8,200	0-5,900	0-3,600	1,500	
22,701-30,200	12,701-17,000	8,201-10,900	5,901-7,900	3,601-4,800	1,750	
30,201-38,700	17,001-21,800	10,901-12,900	7,901-9,800	4,801-6,200	2,000	
38,701-48,300	21,801-24,200	12,901-17,400	9,801-12,600	6,201-7,700	2,250	2
48,301-59,000	24,201-33,200	17,401-21,300	12,601-15,400	7,701-9,400	2,500	
59,001-70,900	33,201-39,700	21,301-25,500	15,401-18,400	9,401-11,300	2,750	
70,901-83,700	39,701-47,100	25,501-30,100	18,401-21,800	11,301-13,400	3,000	
83,701-97,700	47,101-54,900	30,101-35,200	21,801-25,900	13,401-15,600	3,250	3
97,701-112,700	54,901-63,400	35,201-40,600	25,901-29,300	15,601-18,000	3,500	
112,701- 128,700	63,401-72,400	40,601-46,400	29,301-33,500	18,001-20,600	3,750	
128,701- 145,900	72,401-82,100	46,401-52,500	33,501-37,900	20,601-23,300	4,000	



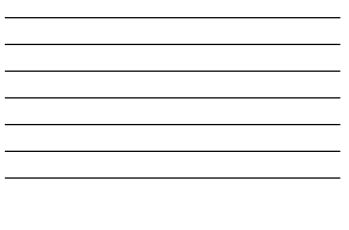


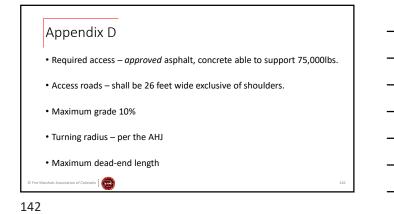


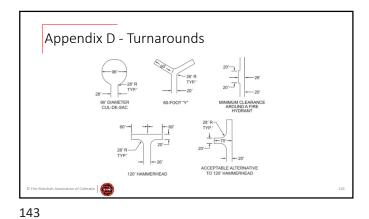














- Not less than 20 feet in width
- Swinging or sliding
- Must be able to be manually operated by one person
- Operational at all times
- Electric gates shall have a manual means of opening
- Locking as approved by the AHJ

• Electric operators shall be UL 325 listed and designed & constructed in accordance with ASTM F2200



