

**INTERIOR FINISHES (Chapter 8)**

Smoke development (803.3.2) 150  
N/A  
 Floor finish (805.0, 806.0) OK  
 Flame spread (803.4) 200 MAX.

**FIRE PROTECTION SYSTEMS (Chapter 9)**

**FIRE SUPPRESSION SYSTEMS (Where required)**  
N/A  
 Assembly (A-1, A-3, A-4) (904.2)  
 Assembly (A-2) (904.3) N/A  
 Educational (E) (904.4)  
 High-hazard (H) (904.5)  
 Institutional (I) (904.6)  
 Mercantile (M), Moderate-hazard storage (S-1), Factory and Industrial (F-1) (904.7)  
 Residential (R-1) (904.8)  
 Residential (R-2) (904.9)  
 Windowless story (904.10) N/A  
 Specific occupancy areas (302.1.1, 904.11)  
 Covered mall buildings (402.10)  
 High-rise buildings (403.2)  
 Atriums (404.2)  
 Underground structures (405.3)  
 Public garages (408.3.1)  
 Sound stages (411.7)  
 Stages and enclosed platforms (412.6)  
 Special amusement buildings (413.4)  
 HPM facilities (416.4)  
 Paint spray booths and storage rooms (419.3)  
 Unlimited area buildings (507.1)  
 Exit lobbies (502.0.3)  
 Drying rooms (2806.4)  
 Waste- and linen-chutes/termination rooms (2807.6)  
 Ceiling vaults (2808.4)

**FIRE SPRINKLER SYSTEMS**  
 NFPA 13 system (906.2.1) N/A  
 NFPA 13R system (906.2.2)  
 NFPA 13P system (906.2.3)  
 Design (906.3)  
 Actuation (906.4)  
 Sprinkler alarms (906.5)  
 Sprinkler riser (906.7)

**LIMITED SUPPRESSION SYSTEMS**  
 Where permitted (907.2) N/A  
 Design (907.3)  
 Actuation (907.4)  
 Standpipe connection (907.6)  
 Domestic supply (907.6.1)  
 Cross connection (907.6.2)  
 Shutoff valve (907.6.3)

**OTHER SUPPRESSION SYSTEMS**  
N/A  
 Water-spray fixed systems (908.0)  
 Carbon dioxide extinguishing systems (909.0)  
 Dry-chemical extinguishing systems (910.0)  
 Foam-extinguishing systems (911.0)  
 Halogenated extinguishing systems (912.0)  
 Clean agent fire extinguishing systems (913.0)  
 Wet-chemical range hood extinguishing systems (914.0)

**STANDPIPE SYSTEMS**

N/A  
 Building height (915.2.1)  
 Building area (915.2.2)  
 Malls (915.2.3)  
 Stages (915.2.4)  
 Approved system (915.3, 915.3.1)  
 Piping design (915.4)  
 Water supply (915.5)  
 Control valves (915.6)  
 Hose connection (915.7)

**FIRE DEPARTMENT CONNECTIONS**  
N/A  
 Required (916.1)  
 Connections (916.2)

**YARD HYDRANTS**  
 Fire hydrants (917.1)

**FIRE ALARM SYSTEMS**  
N/A  
 Approval (918.3)  
 Assembly (A-4), Educational (E) (918.4.1)  
 Business (B) (918.4.2)  
 High-hazard (H) (918.4.3)  
 Institutional (I) (918.4.4)  
 Residential (R-1) (918.4.5)  
 Residential (R-2) (918.4.6)  
 Location/details (918.5)  
 Power supply/wiring (918.6, 918.7)  
 Alarm-notification appliances (918.8)  
 Voice/alarm signaling system (918.9)

**AUTOMATIC FIRE DETECTION SYSTEMS**

N/A  
 Approval (919.3)  
 Institutional (I) (919.4.1, 919.4.2, 919.4.3)  
 Residential (R-1) (919.4.4)  
 Sprinklered buildings exception (919.5)  
 Zones (919.6)

**SINGLE- AND MULTIPLE-STATION SMOKE DETECTORS**  
N/A  
 Residential (R-1) (920.3.1)  
 Residential (R-2, I) (920.3.2)  
 Institutional (I-1) (920.3.3)  
 Interconnection (920.4)  
 Battery backup (920.5)

**FIRE EXTINGUISHERS**  
 Approval (921.1) Yes  
 Required (921.2) Yes

**SMOKE CONTROL SYSTEMS**  
N/A  
 Passive system (922.2.1)  
 Mechanical system (922.2.2)  
 Smoke removal (922.3)  
 Activation (922.4)  
 Standby power (922.5)

**SMOKE AND HEAT VENTS**  
N/A  
 Size and spacing (923.2)

**SUPERVISION**  
N/A  
 Fire suppression systems (924.1)  
 Fire alarm systems (924.2)

**CPS 2 — MIXED USE SEPARATED USE GROUPS**

Using Table 503, identify the allowable height and area of each of the separated use groups within the building. Construction types that provide, for each story of the building, tabular areas which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504.0) equal to or greater than the actual height of the use group are permitted.

Story	Use Group	Actual floor area	Adjusted floor area*	Actual height	Allowable height (Table 503)
N.A.		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft
		ft <sup>2</sup>	ft <sup>2</sup>	stories	stories
		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft
		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft
		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft
		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft
		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft
		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft
		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft
		ft <sup>2</sup>	ft <sup>2</sup>	ft	ft

Adjusted floor area = Actual floor area/conversion factor

$$\sum \frac{\text{Adjusted floor area}}{\text{Allowable area (Table 503)}} + \dots + \dots \leq 1.00$$

Permitted types of construction \_\_\_\_\_ Type of construction assumed for review (602.3) \_\_\_\_\_

**UNLIMITED AREAS ONE-STORY BUILDINGS**

N.A.	Use group classification (507.1)	School buildings (507.1.1)
	Building height (story, feet) (507.1)	High-hazard use groups (507.1.2)
	Type of construction (507.1)	Exterior walls (507.2)
	Automatic sprinkler system (507.1.904.1)	
	Area limitation (505.2)	MEZZANINES N.A.
	Egress (505.3)	Openness (505.4)

**SPECIAL USE AND OCCUPANCY (Chapter 4)**

COVERED BUILDINGS	Parking structures (402.15)
N.A.	
	Tenant separations (402.4)
	Egress (402.5)
	Wall width (402.6)
	Structural elements (402.7)
	Roof coverings (402.8)
	A-1, A-2 occupancy (402.9)
	Automatic sprinkler system (402.10)
	Standpipes (402.11)
	Fire department access (402.12)
	Work requirements (402.14)

**HIGH-RISE BUILDINGS**

N.A.	Automatic sprinkler system (403.2)
	Alternative sprinkler configurations (403.3)
	Automatic fire detection (403.4)
	Voice/alarm signaling systems (403.5)
	Fire department communication (403.6)
	Fire command station (403.7)
	Elevators (403.8)
	Standby systems (403.9)
	Stairway doors (403.10)

**MEANS OF EGRESS (continued)**

General limitations (1005.0)	OK	Ramps (1016.0)	✓
Air movement in egress elements (1005.7)	N.A.	Means of egress doorways (1017.0)	OK
Types and location of egress (1006.0)	OK	Number of doorways (1017.2)	OK
Exit access travel distance (1006.5 and Table 1006.5)	OK	Size of doors (1017.3)	MIN 32"
Accessible means of egress (1007.0)	OK	Door hardware (1017.4)	OK
Emergency escape (1010.4)	N.A.	Escalating doors (1018.0)	N.A.
Exit access passageways and corridors (1011.0)	OK	Horizontal exits (1019.0)	✓
Aisles and accessways (1012.0)		Level of exit discharge passageway (1020.0)	OK
Grandstands (1013.0)	N.A.	Guards (1021.0)	✓
Interior stairways (1014.1 - 1014.11)	N.A.	Handrails (1022.0)	✓
Exterior stairways (1014.1 - 1014.10, 1014.12)	✓	Exit signs and lights (1023.0)	OK
Smokeproof enclosures (1015.0)	N.A.	Means of egress lighting (1024.0)	OK
		Access to roof (1027.0)	N.A.

**ACCESSIBILITY (Chapter 11)**

Required (1103.0)	STATE FIRE	Accessible entrances (110)	
Accessible route (1104.0)	Marshals	Special use groups (1107.0)	
Parking facilities (1105.0)	N.A.	Features and fixtures (1108.0)	

**INTERIOR ENVIRONMENT (Chapter 12)**

Room dimensions (1204.0)	OK	Air-borne noise (STC) (1214.2)	N.A.
Roof spaces (1210.1, 1211.2)	N.A.	Structure-borne sound (IIC) (1214.3)	✓
Crawl spaces (1210.2, 1211.1)	N.A.	Ratproofing (1215.0)	✓

**BUILDING ENVELOPE (Chapters 14, 15)**

**EXTERIOR WALL COVERINGS (Chapter 14)**

Performance requirements (1403.0)	OK	Combustible material restrictions (1406.0)	N.A.
Wall sidings and veneers (1404.0, 1405.0)	Masonry Chapter 2		



