

COMMERCIAL PLAN REVIEW CHECKLIST



**Community Development
Building Inspections Department
111 E. Maple Ave
Independence, MO 64050**

2018 International Building Code

Project Name: _____

Project Address: _____

Permit Number: _____

Plans Examiner: _____

Notes: _____

ADMINISTRATION (Chapter 1)

_____ Complete construction documents
(107.1, 107.2)

_____ Signed/sealed construction documents
(107.1, State Law also applies)

BUILDING PLANNING (Chapters 3, 4, 5, 6)

OCCUPANCY CLASSIFICATION (302 - 312, 508)

_____ Single Occupancy (302.1)

_____ Incidental accessory occupancies
(508.2.5, Table 508.2.5)

_____ Mixed Occupancy (508.1)

_____ Accessory occupancies (508.2)

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

_____ Address identification (501.2)

Apply Case 1 to determine the allowable height and area and permitted types of construction for a building containing a single occupancy or non-separated mixed occupancies. Apply Case 2 to determine the allowable height and area and permitted types of construction for a building containing separated mixed occupancies.

AREA MODIFICATIONS TO TABLE 503

Allowable tabular area, A_t (Table 503) _____ 1 _____

Area Increase Factor due to frontage, I_f (506.2) _____ + _____

Area Increase Factor due to automatic sprinklers, I_s (506.3) _____ + _____

Conversion factor _____ = _____

Frontage (506.2)	North	East	South	West
Total Frontage (F) _____ ft.	Perimeter (P) _____ ft.			
Width of open space (W) = _____				
Area Increase Factor due to frontage, I_f = _____				
$I_f = \frac{fF}{P} - 0.2 \left\{ \frac{W}{30} \right\}$				

CASE 1 — SINGLE OCCUPANCY OR NONSEPARATED MIXED OCCUPANCIES (508.3)

Using Table 503, identify the allowable height and area of the single occupancy or the most restrictive of the nonseparated mixed occupancies. Construction types that provide an allowable tabular area equal to or greater than the adjusted building area and allowable heights (as modified by Section 504) equal to or greater than the actual building height are permitted.

DETERMINE CONSTRUCTION TYPE

Actual building area _____ ft²

Adjusted building area _____ ft²
actual building area ÷ conversion factor

Actual building height _____ feet _____ stories

Allowable building height _____ feet _____ stories

Permitted types of construction _____ Type

of construction assumed for review (602.1) _____

CHECK ALLOWABLE AREA (506.4)

Allowable area per floor (A_a) _____

_____ × _____ = _____ ft²
conversion factor tabular area (Table 503)

Total floor area (all stories) _____ ft²

Allowable floor area (all stories) _____

_____ × _____ = _____ ft²
Allowable area per floor (A_a) number of stories (maximum 3)

Compliance verified _____

CASE 2 — SEPARATED MIXED OCCUPANCIES (508.4)

Using Table 503, identify the allowable height and area of each of the separated occupancies within the building. Construction types that provide, for each story of the building, tabular areas (as modified by Section 506) which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504) equal to or greater than the actual height of the occupancy are permitted.

Story	Group	Actual floor area	Adjusted floor area*	Actual height	Allowable height
_____	_____	_____ ft ²	_____ ft ²	_____ ft _____ stories	_____ ft _____ stories
_____	_____	_____ ft ²	_____ ft ²	_____ ft _____ stories	_____ ft _____ stories
_____	_____	_____ ft ²	_____ ft ²	_____ ft _____ stories	_____ ft _____ stories
_____	_____	_____ ft ²	_____ ft ²	_____ ft _____ stories	_____ ft _____ stories
_____	_____	_____ ft ²	_____ ft ²	_____ ft _____ stories	_____ ft _____ stories
_____	_____	_____ ft ²	_____ ft ²	_____ ft _____ stories	_____ ft _____ stories
_____	_____	_____ ft ²	_____ ft ²	_____ ft _____ stories	_____ ft _____ stories

Area ratio (single floor) = $\sum \frac{\text{Adjusted floor area}^*}{\text{Allow. tab. area, } A_t \text{ (Table 503)}} = \frac{\text{_____}}{\text{_____}} + \frac{\text{_____}}{\text{_____}} + \frac{\text{_____}}{\text{_____}} + \frac{\text{_____}}{\text{_____}} = \text{_____} :: 100$

*Adjusted floor area = actual floor area · conversion factor

CHECK ALLOWABLE AREA (506.5)

_____	Permitted types of construction _____
Three stories or less buildings _____	Type of construction assumed for review (602.1) _____
Four or more story buildings _____	
(Total area ratio :: 3) _____	Compliance verified _____

MEZZANINES (505)

_____	Area limitation (505.2) _____	_____	Openness (505.4) _____
_____	Egress (505.3) _____	_____	Equipment platforms (505.5) _____

UNLIMITED AREA BUILDINGS (507)

_____	Nonsprinklered, 1 story (507.2)	_____	Group H occupancies (507.8)
_____	Sprinklered, 1 story (507.3)	_____ Two	Aircraft paint hangar (507.9)
_____	story (507.4)	_____	Group E buildings (507.10)
_____	Reduced open space (507.5)	_____	Motion picture theaters (507.11)
_____	Group A-3 buildings (507.6, 507.7)	_____	Covered mall buildings/anchor stores (507.12)

SPECIAL PROVISIONS (509)

_____	Special condition applicable (509.1) _____	_____	Compliance verified _____
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SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY (Chapter 4)

COVERED MALL AND OPEN MALL BUILDINGS (402)

_____	Egress (402.4)	_____	Automatic sprinkler system (402.9)
_____	Mall width (402.5)	_____	Standpipe system (402.9.1)
_____	Unlimited area (402.6)	_____	
_____	Fire separations (402.7)	_____	
_____	Interior finish (402.8)	_____	

Smoke control (402.10) Kiosk requirements (402.11) Playground
structures (402.12) Security grilles and doors (402.13) Standby power
and EVAC (402.14, 402.15)

Plastic signs (402.16)

Fire department access (402.17)

HIGH-RISE BUILDINGS (403)

_____ Construction (403.2)

_____ Automatic sprinkler system (403.3)

_____ Smoke detection (403.4.1)

_____ Fire alarm system (403.4.2)

_____ Emergency voice/alarm systems (403.4.3)

_____ Emergency responder radio coverage (403.4.4)

_____ Fire command center (403.4.5)

_____ Smoke removal (403.4.6)

_____ Elevators (403.6)

_____ Standby power (403.4.7)

_____ Emergency power (403.4.8)

_____ Stair remoteness (403.5.1)

_____ Additional stairway (403.5.2)

_____ Stairway doors (403.5.3)

_____ Smokeproof exit (403.5.4)

_____ Luminous egress path (403.5.5)

ATRIUMS (404)

_____ Use (404.2)

_____ Automatic sprinkler system (404.3)

_____ Fire alarm system (404.4)

_____ Smoke control (404.5)

_____ Enclosure (404.6)

Standby power (404.7)

Interior finish (404.8)

Travel distance (404.9)

OTHER SPECIAL USE AND OCCUPANCY

_____ Underground structures (405)

_____ Motor-vehicle-related occupancies (406, 509)

_____ Group I-2 (407)

_____ Group I-3 (408)

_____ Motion picture projection rooms (409)

_____ Stages and platforms (410)

_____ Special amusement buildings (411)

_____ Aircraft-related occupancies (412)

_____ Combustible storage (413)

_____ Hazardous materials (307.1, 414)

_____ Groups H-1, H-2, H-3, H-4 and H-5 (415)

_____ Application of flammable finishes (416)

_____ Drying rooms (417)

_____ Organic coatings manufacturing (418)

_____ Live/work units (419)

_____ Groups I-1, R-1, R-2, R-3 (420)

_____ Hydrogen cutoff rooms (421)

_____ Ambulatory health care facilities (422)

_____ Storm shelters (423)

FIRE PROTECTION (Chapters 6, 7, 8, 9)

FIRE-RESISTANCE-RATED CONSTRUCTION (Tables 601 & 602 and Chapter 7)

Note: Indicate required rating in hours. NC indicates noncombustible construction required.

FIRE-RESISTANCE RATINGS AND FIRE TESTS (703)

_____ Construction classification (602)

COMBUSTIBILITY (602.2, 602.3, 602.4, 602.5, 603)

_____ Exterior walls

_____ Interior elements

_____ Roof

_____ Ratings / Combustibility (703.2, 703.4)

_____ Alternative methods
(703.3, 718, 720, 721)

_____ Rated glazing (703.5)

_____ Marking and identification

BUILDING ELEMENTS (Table 601)

<input type="checkbox"/>	Structural frame (704)	<input type="checkbox"/>	Incidental accessory occupancies (707.3.6)
<input type="checkbox"/>	Interior bearing walls	<input type="checkbox"/>	Control areas (707.3.7)
<input type="checkbox"/>	Interior nonbearing walls	<input type="checkbox"/>	Mixed occupancy and fire area separations (707.3.8, 707.3.9, 901.7)
<input type="checkbox"/>	Floor construction (712)	<input type="checkbox"/>	Construction (707.5 - 707.9)
<input type="checkbox"/>	Roof construction (712)	<input type="checkbox"/>	Shafts (708)

EXTERIOR WALLS (507, Table 602, 705, 707.4)

	North	East	South	West
Fire separation distance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nonbearing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Exceptions (708.2)

Construction (708.3, 708.12, 708.14)

<input type="checkbox"/>	Elevator lobby (708.14.1, 708.14.2)
<input type="checkbox"/>	Refuse/Laundry Chutes (708.12)

OTHER FIRE-RESISTANT CONSTRUCTION

<input type="checkbox"/>	Opening protection (705.8.1 - 705.8.4)
<input type="checkbox"/>	Vertical fire spread protection (705.8.5, 705.8.6)
<input type="checkbox"/>	Parapets (705.11)

<input type="checkbox"/>	Fire walls (706)
<input type="checkbox"/>	Fire partitions (709)
<input type="checkbox"/>	Smoke barriers (710)

Smoke partitions (711)

Penetrations (713)

FIRE BARRIERS (707)

<input type="checkbox"/>	Shaft enclosures (707.3.1)
<input type="checkbox"/>	Exit enclosures/exit passageway (707.3.2, 707.3.3)
<input type="checkbox"/>	Horizontal exits (707.3.4)
<input type="checkbox"/>	Atriums (707.3.5)

Fire-resistant joint systems (714)

Opening protectives (715)

Dampers (716)

Concealed spaces (717)

Thermal- and sound-insulating materials (719, 807)

INTERIOR FINISHES (Chapter 8)

_____	Smoke development (803.1.1, 803.9, Table 803.9)	_____	Floor finish (804)
_____	Flame spread (803.1.1, 803.9, Table 803.9)	_____	Combustible materials (805)
_____	Textile/expanded vinyl coverings (803.1.2 - 803.1.4, 803.5 - 803.8)	_____	Decorations and trim (806)
		_____	Acoustical ceiling systems (808)

FIRE PROTECTION (Chapter 9)

AUTOMATIC SPRINKLER SYSTEMS (903)

(Where required)

_____	Assembly (A-1, A-2, A-3, A-4, A-5) (903.2.1)
_____	Ambulatory health care facilities (B) (903.2.2)
_____	Educational (E) (903.2.3)
_____	Factory/Industrial (F-1) (903.2.4)
_____	High-hazard (H-1, H-2, H-3, H-4, H-5) (903.2.5)
_____	Institutional (I-1, I-2, I-3, I-4) (407.5, 903.2.6)
_____	Mercantile (M) (903.2.7) Residential (R) (903.2.8) Storage/Repair garage (S-1) (903.2.9) Parking garages (903.2.10) Windowless story (903.2.11.1) Rubbish and linen chutes (903.2.11.2) Buildings over 55 ft. high (903.2.11.3) Incidental accessory occupancies (Table 508.2.5)
_____	Additional required systems (Table 903.2.11.6)
_____	International Fire Code (IFC 903.2.11.6)

AUTOMATIC SPRINKLER SYSTEMS* (903)

(Design)

_____	Shop drawings (107.2.2)
_____	NFPA 13 system (903.3.1.1)
_____	NFPA 13R system (903.3.1.2)
_____	NFPA 13D system (903.3.1.3)
_____	Quick-response and residential heads (903.3.2)

_____ Water supplies (903.3.5)

_____ Hose threads (903.3.6)

_____ Sprinkler monitoring and alarms
(903.4)

* Also see Fire Code Sprinkler Plan Review Record

ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS (904)

_____	Installation (904.3)
_____	Wet-chemical systems (904.5)
_____	Dry-chemical systems (904.6)
_____	Foam systems (904.7)
_____	Carbon dioxide systems (904.8)
_____	Halon systems (904.9)
_____	Clean-agent systems (904.10)
_____	Commercial cooking systems (904.2.1, 904.11)

STANDPIPE SYSTEMS (905)

_____	Installation standards (905.2)
_____	Building height (905.3.1)
_____	Group A (905.3.2)
_____	Covered malls (905.3.3)
_____	Stages (905.3.4)
_____	Underground buildings (905.3.5)
_____	Helistops/heliports (905.3.6)
_____	Marinas/boatyards (905.3.7)
_____	Hose connections and locations (905.1, 905.4, 905.5, 905.6)
_____	Cabinets (905.7)
_____	Dry standpipes (905.8)
_____	Valve supervision (905.9)

PORTABLE FIRE EXTINGUISHERS (906)

- _____ Required locations (906.1, 906.5, 906.6)
- _____ Installation standard (906.2)
- _____ Size and distribution (906.3)
- _____ Cabinets (906.8)
- _____ Installation (906.9)

FIRE ALARM AND DETECTION SYSTEMS (907)
(Where required)

- _____ Construction documents/shop drawings (907.1.1, 907.1.2)
- _____ Assembly (A-1, A-2, A-3, A-4, A-5) (907.2.1)
- _____ Business (B) (907.2.2)
- _____ Educational (E) (907.2.3)
- _____ Factory (F-1, F-2) (907.2.4)
- _____ High-hazard (H-1, H-2, H-3, H-4, H-5) (907.2.5)
- _____ Institutional (I-1, I-2, I-3, I-4) (907.2.6)
- _____ Mercantile (M) (907.2.7)
- _____ Residential (R-1, R-2, R-4) (907.2.8, 907.2.9, 907.2.10)
- _____ Single/multiple station smoke alarms (907.2.11)
- _____ High-rise buildings (907.2.13)
- _____ Atriums (907.2.14)
- _____ Other buildings/areas (907.2.12, 907.2.15 - 907.2.23)

FIRE ALARM AND DETECTION SYSTEMS (907)
(Design)

- _____ Residential smoke alarm interconnection (907.2.11.3)
- _____ Residential smoke alarm power source (907.2.11.4)

_____ Fire safety functions (907.3)

_____ Initiating devices (907.4)

_____ Occupant notification (907.5)

_____ Installation (907.6, 907.7)

EMERGENCY ALARM SYSTEMS (908)

_____ Detection system applicable (908.1 - 908.6)

SMOKE CONTROL SYSTEMS (909)

_____ Where required (402.10, 404.5, 405.5, 408.9, 410.3.7.2, 1022.9, 1028.6.2.1)

_____ Design requirements (909.1 - 909.4)

_____ Smoke barriers (909.5)

_____ Pressurization method (909.6)

_____ Airflow design method (909.7)

_____ Exhaust method (909.8)

_____ Design fire (909.9)

_____ Equipment/Power (909.10, 909.11)

_____ Detection and control (909.12 - 909.18)

_____ Smokeproof enclosures (909.20)

SMOKE AND HEAT VENTS (910)

_____ Requirements (910.1 - 910.3)

_____ Mechanical alternative (910.4)

FIRE COMMAND CENTER (911)

_____ Requirements (911.1.1 - 911.1.5)

FIRE DEPARTMENT CONNECTIONS (912)

_____ Installation (912.1 - 912.5)

FIRE PUMPS (913)

_____ Requirements (913.1 - 913.5)

**EMERGENCY RESPONDER SAFETY FEATURES/
RADIO COVERAGE (914, 915)**

_____ Requirements (914.1, 914.2, 915.1)

MEANS OF EGRESS (continued)

GENERAL MEANS OF EGRESS

_____	Design requirements (1003.2 - 1003.7)	_____	Door landings/Thresholds/Arrangement (1008.1.5 - 1008.1.8)
_____	Door/Hardware encroachment (1005.2, 1005.3)	_____	Door hardware (1008.1.9, 1008.1.10)
_____	Means of egress illumination (1006)	_____	Stairways (1009)
_____	Exit signs (1011)	_____	Roof access (1009.13)
_____	Accessible means of egress (1007)	_____	Ramps (1010)
_____	Means of egress doors (1008.1 - 1008.1.3)	_____	Handrails (1012)
_____	Special doors/Gates/Turnstiles (1008.1.4, 1008.2, 1008.3)	_____	Guards (1013)
			Luminous egress path markings (1024)

EXIT ACCESS

_____	Door number and arrangement (1014.2, 1015.1, 1015.2)	_____	Aisles (1017)
_____	Common path of egress travel (1014.3)	_____	Egress balconies (1016.2, 1019)
_____	Exit access travel distance (1016.1)	_____	Corridors (1018)
		_____	Air movement in corridors (1018.5)

EXITS / EXIT DISCHARGE

_____	Exits/Exit doors (1020, 1021)	_____	Horizontal exits (1025)
_____	Vertical exit enclosures (1022)	_____	Exterior exit ramps/stairways (1026)
_____	Exit passageways (1023)	_____	Exit discharge (1027)

OTHER MEANS OF EGRESS

_____	Miscellaneous egress requirements (1015.3 - 1015.6)	_____	Assembly aisles & features (1028.6 - 1028.15)
_____	Bleachers (1028.1.1)	_____	Emergency escape and rescue (1029)
_____	Assembly exits & egress (1028.2 - 1028.5)		

ACCESSIBILITY* (Chapter 11)

_____	Scoping requirements (1103)	_____	Dwelling units and sleeping units (1107)
_____	Accessible route (1104)	_____	Special occupancies (1108)
_____	Accessible entrances (1105)	_____	Features and facilities (1109)
_____	Parking and passenger loading (1106)	_____	Signage (1110)

INTERIOR ENVIRONMENT (Chapter 12)

_____	Ventilation (1203)*	_____	Sound transmission (1207) Interior
_____	Temperature control (1204)	_____	space dimensions (1208) Access to
_____	Lighting (1205)	_____	unoccupied spaces (1209)
_____	Yards or courts (1206)	_____	Surrounding materials (1210, 2509)

BUILDING ENVELOPE (Chapters 13, 14, 15)

EXTERIOR WALLS (Chapter 14)

_____	Performance requirements (1403)	_____	Combustible material restrictions (1406)
_____	Materials (1404)	_____	EIFS (1408)
_____	Exterior wall coverings/MCM's (1405, 1407)		

ROOF ASSEMBLIES AND ROOFTOP STRUCTURES (Chapter 15)

_____	Weather protection (1503)	_____	Materials (1506)
_____	Flashing (1503.2, 1507.2.9, 1507.3.9, 1507.5.7, 1507.7.7, 1507.8.8, 1507.9.9)	_____	Roof coverings (1507)
_____	Performance requirements (1504)	_____	Roof insulation (1508)
_____	Fire classification (1505)	_____	Rooftop structures (1509)
		_____	Reroofing (1510)

STRUCTURAL SYSTEMS (Chapters 16, 17, 18)

STRUCTURAL DESIGN (Chapter 16)

STRUCTURAL DESIGN CALCULATIONS

_____ Submitted for all structural members
(106, 107.1, 107.2.1, 1604, 1605)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)

Uniformly distributed floor live loads (1603.1.1,
Table 1607.1)

Floor Area Use	Loads Shown
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

_____ Live load reduction
(1603.1.1, 1607.9, 1607.10)

_____ Roof live loads (1603.1.2, 1607.11)

_____ Roof snow loads (1603.1.3, 1608)

_____ Ground snow load, p_g (1608.2; 7.2 of
ASCE 7)

_____ If $p_g > 10$ psf, flat-roof snow load, p_f (7.3 of
ASCE 7)

_____ If $p_g > 10$ psf, snow exposure factor, C_e
(Table 7-2, 7.3.1 of ASCE 7)

_____ If $p_g > 10$ psf, snow load importance
factor, I (7.3.3, Table 7-4 of ASCE 7)

_____ If $p_g > 10$ psf, roof thermal factor, C_t (Table
7-3, 7.3.2 of ASCE 7)

_____ Sloped roof snow load, p_s (7.4 of ASCE 7)

DESIGN LOADS (continued)	_____	Spectral response coefficients, S_{DS} & S_{D1} (1613.5.4; 11.4.4 of ASCE 7)
Wind loads (1603.1.4, 1609; Chapter 6 of ASCE 7)	_____	Site class (1613.5.2; 11.4.2 of ASCE 7)
_____ Design procedure (1609.6, 6.1.2 of ASCE 7)	_____	Seismic design category (1613.5.6; 11.6 of ASCE 7)
_____ Alternate all-heights method (1609.6)	_____	Basic seismic-force-resisting system (Table 12.2-1 of ASCE 7)
_____ Basic wind speed (1609.3; Fig. 6-1 of ASCE 7)	_____	Response modification coefficient, R , and deflection amplification factor, C_d (Table 12.2-1 of ASCE 7)
_____ Occupancy category (Table 1604.5; Table 1-1 of ASCE 7)	_____	Analysis procedure (12.6 of ASCE 7)
_____ Wind importance factor, I (Table 6-1, 6.5.5 of ASCE 7)	_____	Design base shear (12.8 of ASCE 7)
_____ Surface roughness/Exposure categories (1609.4; 6.5.6 of ASCE 7)	Flood loads (1603.1.7, 1612)	
_____ Internal pressure coefficient (Fig. 6-5, 6.5.11.1 of ASCE 7)	_____ Flood hazard area (1612.3)	
_____ Component and cladding pressures (6.1.4.2, 6.4.2.2, 6.5.12.4 of ASCE 7)	_____ Elevation of structure (1612.5)	
_____ Main wind-force resisting system (6.1.4.1, 6.4.2.1, 6.5.12.2 of ASCE 7)	Other loads	
Earthquake design data (1603.1.5, 1613; Chapter 11 - 13 and 15 - 23 of ASCE 7)	_____ Concentrated loads (1607.4)	
_____ Occupancy category (Table 1604.5; Table 1-1 of ASCE 7)	_____ Partition loads (1607.5)	
_____ Seismic importance factor (11.5.1, Table 11.5-1 of ASCE 7)	_____ Impact loads (1607.8)	
_____ Mapped spectral response acceleration, S_s and S_1 (1613.5.1; 11.4.1 of ASCE 7)	_____ Misc. loads (Table 1607.6, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)	
	Structural integrity (1614)	
	_____ Design requirements (1614.1 - 1614.4)	

QUALITY ASSURANCE (Chapter 17)

_____ Approvals/Research report(s)(1703, 1703.4.2) Report No. _____	_____	Sprayed fire-resistant materials and coatings (1704.12, 1704.13)
_____ Statement of special inspections (1704.1.1, 1705)	_____	EIFS (1704.14)
_____ Prefabricated items (1704.2)	_____	Smoke control (1704.16) Wind requirements (1706) Seismic resistance (1707) Contractor responsibility (1709)
_____ Steel construction (1704.3)	_____	Structural testing/Observations (seismic) (1708, 1710)
_____ Concrete construction (1704.4)	_____	Testing (other) (1711 - 1716)
_____ Masonry construction (1704.5)	_____	
_____ Wood construction (1704.6)	_____	
_____ Prepared fill and foundations (1704.7 - 1704.11)	_____	

SOILS AND FOUNDATIONS (Chapter 18)

_____ Soils investigations/Reports (1803.1, 1803.2, 1803.3, 1803.6)	_____	Excavation, grading, fill(1804)
_____ Soil classification (1803.5)	_____	Dampproofing, waterpr

oofing(1805)
(1603.1.6, 1806)

_____ Load-bearing values

Foundation walls, retaining walls and
embedded posts and poles (1807)

Foundations (1808)

Shallow foundations (1809)

Deep foundations (1810)

STRUCTURAL MATERIALS (Chapters 19, 21, 22, 23)

CONCRETE (Chapter 19)

_____	Plain and reinforced concrete design/construction standard specified (1901.2, 1908)	_____	Minimum concrete strength (Table 1904.3)
_____	Construction documents (1901.4)	_____	Cold weather and hot weather construction specified (1905.12, 1905.13)
_____		_____	Slab provisions (1910)

MASONRY (Chapter 21)

_____	Design method, construction standard specified (2101.2)	_____	Cold weather and hot weather construction specified (2104.3, 2104.4)
_____	Construction-documents(2101.3)	_____	Seismic design (2106) Glass
_____	Construction-materials(2103)	_____ Mortar	unit masonry (2110)
_____	type (2103.8)	_____	Fireplaces/Heaters/Chimneys (2101.3.1, 2111, 2112, 2113)

STEEL (Chapter 22)

_____	Structural steel design/construction standard specified (2205)	_____	Steel storage racks (2208)
_____	Open-web steel joist design/construction standard specified (2206)	_____	Cold-formed steel design/construction standard specified (2209)
_____	Steel cable structures (2207)	_____	Cold-formed steel light-framed design/construction standard specified (2210)

WOOD (Chapter 23)

_____	Design method option used (2301.2)	_____	Heavy timber construction (2304.10)
_____	MATERIAL STANDARDS / CONSTRUCTION REQUIREMENTS (2303 - 2306)	_____	Shear walls and diaphragms (2305, 2306)

CONVENTIONAL LIGHT-FRAME CONSTRUCTION (2308)

_____	Lumber (2303.1.1)	_____	Limitations satisfied (2308.2)
_____	Wood I-joists (2303.1.2)	_____	Wind/Seismic requirements (2308.2.1, 2308.2.2, 2308.11, 2308.12)
_____	Glue-laminated timbers (2303.1.3)	_____	Braced walls (2308.3, 2308.9.3)
_____	Wood structural panels (2303.1.4, 2304.6, 2304.7)	_____	Foundation anchorage (2308.3.3, 2308.6)
_____	Fiber-, hard-, & particle-, boards (2303.1.5 - 2303.1.7)	_____	Floor joists (Tables 2308.8[1], 2308.8[2])
_____	Decay and termite protection (2303.1.8, 2304.11)	_____	Wall studs (Table 2308.9.1)
_____	Structural composite lumber (2303.1.9)	_____	Girders (Tables 2308.9.5 and 2308.9.6, 2308.7)
_____	Structural log members (2303.1.10)	_____	Ceiling joists (Tables 2308.10.2[1], 2308.10.2[2])
_____	Round timber poles and piles (2303.1.11)	_____	Roof rafters (Tables 2308.10.3.[1] - 2308.10.3[6])
_____	Fire-retardant-treated wood (2303.2)	_____	Roof uplift (2308.10.1)
_____	Hardwood and plywood (2303.3)	_____	
_____	Trusses (2303.4)	_____	
_____	Joist hangers and connectors (2303.5)	_____	
_____	Fasteners and fastening (2303.6, 2304.9, Table 2304.9.1)	_____	

NONSTRUCTURAL MATERIALS (Chapters 24, 25, 26)

GLASS AND GLAZING (Chapter 24)

_____ Sloped glazing and skylights (2405) _____ Safety glazing (2406, 2407, 2408, 2409)

GYPSUM BOARD AND PLASTER (Chapter 25)

_____ Gypsum board materials (2506, Table 2506.2, Table 2508.1) _____ Plaster (2507, 2508, 2510 - 2513)

PLASTIC (Chapter 26)

FOAM PLASTIC INSULATION (2603) _____ Special approval (2603.9)
_____ Labeling (2603.2, 2603.5.6) _____ MISCELLANEOUS PLASTICS
_____ Surface-burning characteristics (2603.3, 2603.5.4) _____ Interior finish and trim (2604)
_____ Thermal barrier (2603.4) _____ Plastic veneer (2605)
_____ Exterior walls/Roofs (2603.5, 2603.6) _____ Light-transmitting plastics (2606 - 2611)
_____ Protection against termites (2603.8) _____ Fiber reinforced and fiberglass reinforced polymer (2612)

BUILDING SERVICES* (Chapters 27, 28, 29, 30)

ELEVATORS AND CONVEYING SYSTEMS (Chapter 30)

_____ Construction standard specified (3001.2) _____ Conveying systems (3005)
_____ Hoistway enclosures (3002) _____ Machine rooms (3006)
_____ Opening protectives (3002.1.1) _____ Fire service access elevator (3007)
_____ Emergency operations (3003) _____ Occupant evacuation elevator (3008)
_____ Hoistway venting (3004)

SPECIAL DEVICES AND CONDITIONS (Chapters 31, 34)

SPECIAL CONSTRUCTION (Chapter 31)

_____ Membrane structures (3102) _____ Automatic vehicular gates (3110)
_____ Temporary structures (3103) _____ PEDESTRIAN WALKWAYS AND TUNNELS (3104)
_____ Awnings and canopies/Marquees (3105, 3106) _____ Construction and use (3104.3, 3104.4)
_____ Signs (3107) _____ Separation (3104.5, 3104.10)
_____ Telecommunication and broadcast towers (3108) _____ Public way (3104.6)
_____ Swimming pool enclosures (3109) _____ Egress (3104.7 - 3104.9)

EXISTING STRUCTURES (Chapter 34)

===== Building materials (3401.4) Additions, alterations,

repairs
(3403 - 3405)

Fire escapes (3406)

Change of occupancy (3408)

Accessibility (3411)

Compliance alternatives (3412)

BUILDING EVALUATION SUMMARY (Table 3412.7)

Existing occupancy: _____ Proposed occupancy: _____

Year building was constructed: _____ Number of stories: _____ Height in feet: _____ Type of construction: _____ Area per floor: _____ Percentage of open perimeter increase: _____% Corridor wall rating: _____

Completely suppressed: Yes _____ No _____ Required door closers: _____ Yes _____ No _____

Compartmentation: Yes _____ No _____

Fire-resistance rating of vertical opening enclosures: _____

Type of HVAC system: _____, serving number of floors: _____

Automatic fire detection: Yes _____ Fire No _____, type and location: _____ No _____

alarm system: Yes _____ Smoke _____, type: _____ No _____

control: Yes _____ type: _____

Adequate exit routes: Yes _____ No _____ Dead ends: Yes _____ No _____

Maximum exit access travel distance: _____ Elevator controls: Yes _____ No _____

Means of egress emergency lighting: Yes _____ No _____ Mixed occupancies: Yes _____ No _____

Safety parameters	Fire safety (FS)	Means of egress (ME)	General safety (GS)
3412.6.1 Building height			
3412.6.2 Building area			
3412.6.3 Compartmentation			
3412.6.4 Tenant and dwelling unit separations			
3412.6.5 Corridor walls			
3412.6.6 Vertical openings			
3412.6.7 HVAC systems			
3412.6.8 Automatic fire detection			
3412.6.9 Fire alarm system			
3412.6.10 Smoke control	****		
3412.6.11 Means of egress capacity	****		
3412.6.12 Dead ends	****		
3412.6.13 Max. exit access travel distance	****		
3412.6.14 Elevator control			
3412.6.15 Means of egress emergency lighting	****		
3412.6.16 Mixed occupancies		****	
3412.6.17 Automatic sprinklers		-7 2 =	
3412.6.18 Standpipes			
3412.6.19 Incidental accessory occupancy			
Building score — total value			

**** No applicable value to be inserted.

BUILDING SAFETY EVALUATION SCORE (Table 3412.9)

Formula	Table 3412.7	Table 3412.8	Score	Pass	Fail
FS-MFS ⚡ 0	_____ (FS)	— _____ (MFS)	= _____	_____	_____
ME-MME ⚡ 0	_____ (ME)	— _____ (MME)	= _____	_____	_____
GS-MGS ⚡ 0	_____ (GS)	— _____ (MGS)	= _____	_____	_____

FS = Fire Safety
ME = Means of Egress

MFS = Mandatory Fire Safety
MME = Mandatory Means of Egress

APPENDICES A - K

_____ Appendices adopted (101.2.1)

_____ Compliance verified