

NOTES: N.R. — Not required
 N.A. — Not applicable

ADMINISTRATION (Chapter 1)

_____ Complete construction documents
 (106.1, 106.2)

_____ Signed/sealed construction documents
 (106.1, State laws vary)

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

OCCUPANCY CLASSIFICATION (302 - 312, 508)

_____ Single Occupancy (302.1)

_____ Incidental uses (508.2)

_____ Mixed Occupancy (508.3)

_____ Accessory occupancies (508.3.1)

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

Apply Case 1 to determine the allowable height and area and permitted types of construction for a building containing a single occupancy or nonseparated 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) | _____ | _____ | _____ | _____ |
| | <i>North</i> | <i>East</i> | <i>South</i> | <i>West</i> |
| Total Frontage (F) _____ ft. | Perimeter (P) _____ ft. | | | |
| Width of open space (W) = _____ | | | | |
| Area Increase Factor due to Frontage, I_f (506.2) _____ | | | | |
| $I_f = \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$ | | | | |

CASE 1 — SINGLE OCCUPANCY OR NONSEPARATED OCCUPANCIES (508.3.2)

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 (602.1.1) _____

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 (Single Occ. or Nonsep.) _____

CASE 2 — SEPARATED MIXED OCCUPANCIES (508.3.3)

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) = $\sum \frac{\text{Adjusted floor area}^*}{\text{Allow. tab. area, } A_i \text{ (Table 503)}} = \frac{\text{_____}}{\text{_____}} + \frac{\text{_____}}{\text{_____}} + \frac{\text{_____}}{\text{_____}} + \frac{\text{_____}}{\text{_____}} = \text{_____} \leq 100$

*Adjusted floor area = actual floor area ÷ conversion factor

CHECK ALLOWABLE AREA (506.4)

Total area ratio (all floors) = _____ Permitted types of construction _____

Two-story buildings (Total area ratio ≤ 2) _____ Type of construction assumed for review (602.1.1) _____

Three or more story buildings (Total area ratio ≤ 3) _____ Compliance verified (Mixed Occ. Separated) _____

MEZZANINES (505)

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

UNLIMITED AREA BUILDINGS (507)

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

SPECIAL PROVISIONS (509)

_____ Special condition applicable (509.1) _____ Compliance verified

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY (Chapter 4)

COVERED MALL BUILDINGS (402) _____ Smoke control (402.9)
 _____ Egress (402.4, 402.12) _____ Kiosk requirements (402.10)
 _____ Mall width (402.5) _____ Playground structures (402.11)
 _____ Unlimited area (402.6) _____ Emergency voice/alarm (402.13, 402.14)
 _____ Fire separations (402.7) _____ Plastic signs (402.15)
 _____ Automatic sprinkler system (402.8) _____ Fire department access (402.16)
 _____ Standpipe system (402.8.1) _____

HIGH-RISE BUILDINGS (403)

- _____ Automatic sprinkler system (403.2)
- _____ Fire-resistance rating reduction (403.3)
- _____ Automatic fire detection (403.5)
- _____ Emergency voice/alarm systems (403.6)
- _____ Fire department communication (403.7)
- _____ Fire command center (403.8)
- _____ Elevators (403.9)
- _____ Standby power (403.10)
- _____ Emergency power (403.11)
- _____ Stairway doors (403.12)
- _____ Smokeproof exit (403.13)

ATRIUMS (404)

- _____ Atrium use (404.2)
- _____ Automatic sprinkler system (404.3)
- _____ Smoke control (404.4)
- _____ Enclosure (404.5)
- _____ Standby power (404.6)
- _____ Interior finish (404.7)
- _____ Travel distance (404.8)

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)
- _____ Group I-1, R-1, R-2, R-3 (419)
- _____ Hydrogen cutoff rooms (420)

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

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

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

- _____ Construction classification (602)
- COMBUSTIBILITY (602.2, 602.3, 602.4, 602.5, 603)**
- _____ Exterior walls
 - _____ Interior elements
 - _____ Roof

FIRE-RESISTANCE RATINGS AND FIRE TESTS (703)

- _____ Ratings / Combustibility (703.2, 703.4)
- _____ Alternative methods (703.3, 718, 720, 721)

BUILDING ELEMENTS (Table 601)

- _____ Structural frame (714)
- _____ Interior bearing walls
- _____ Interior nonbearing walls
- _____ Floor construction (711)
- _____ Roof construction (711)

EXTERIOR WALLS (507, Table 602, 704, 706.6)

| | North | East | South | West |
|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Fire separation distance | _____ | _____ | _____ | _____ |
| 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"/> _____ |

EXTERIOR WALLS (continued)

- _____ Opening protection (704.8, 704.12, 704.14)
- _____ Vertical fire spread protection (704.9, 704.10)
- _____ Parapets (704.11)

FIRE BARRIERS (706)

- _____ Shaft enclosures (706.3.1)
- _____ Exit enclosures/exit passageway (706.3.2, 706.3.3)
- _____ Horizontal exits (706.3.4)
- _____ Atriums (706.3.5)
- _____ Incidental use areas (706.3.6)
- _____ Control areas (706.3.7)
- _____ Mixed occupancy and fire area separations (706.3.8, 706.3.9)

SHAFTS (707)

- _____ Exceptions (707.2)
- _____ Construction (707.3 - 707.14)

OTHER FIRE-RESISTANT CONSTRUCTION

- _____ Fire walls (705)
- _____ Fire partitions (708)
- _____ Smoke barriers (709)
- _____ Smoke partitions (710)
- _____ Penetrations (712)
- _____ Fire-resistant joint systems (713)
- _____ Opening protectives (715)
- _____ Dampers (716)
- _____ Concealed spaces (717)
- _____ Thermal- and sound-insulating materials (719)

INTERIOR FINISHES (Chapter 8)

- _____ Smoke development (803.1)
- _____ Flame spread (803.1)
- _____ Non-textile finish (803.2)
- _____ Floor finish (804)
- _____ Decorations and trim (806)

FIRE PROTECTION (Chapter 9)

AUTOMATIC SPRINKLER SYSTEMS (903)
(Where required)

- _____ Assembly (A-1, A-2, A-3, A-4, A-5) (903.2.1)
- _____ Educational (E) (903.2.2)
- _____ Factory/Industrial (F-1) (903.2.3)
- _____ High-hazard (H-1, H-2, H-3, H-4, H-5) (903.2.4)
- _____ Institutional (I-1, I-2, I-3, I-4) (407.5, 903.2.5)
- _____ Mercantile (M) (903.2.6)
- _____ Residential (R) (903.2.7)
- _____ Storage/Repair garage (S-1) (903.2.8)
- _____ Parking garages (903.2.9)
- _____ Windowless story (903.2.10.1)
- _____ Rubbish and linen chutes (903.2.10.2)
- _____ Buildings over 55 ft. high (903.2.10.3)
- _____ Incidental uses (508.2)

- _____ Additional required systems (Table 903.2.13)
- _____ International Fire Code (IFC 903.2.13)

AUTOMATIC SPRINKLER SYSTEMS* (903)
(Design)

- _____ Shop drawings (106.1.1.1)
- _____ 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)
- _____ Actuation (903.3.4)
- _____ Water supplies (903.3.5)
- _____ Hose threads (903.3.6)
- _____ Sprinkler monitoring and alarms (903.4, 907.13)

* 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 - IFC (906.1)

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

- _____ Construction documents (907.1.1)
- _____ 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) (907.2.8, 907.2.9)

_____ Single/multiple station smoke alarms (907.2.10)

_____ High-rise buildings (907.2.12)

_____ Atriums (907.2.13)

_____ Other buildings/areas (907.2.11, 907.2.14 - 907.2.23)

FIRE ALARM AND DETECTION SYSTEMS (907)
(Design)

_____ Residential smoke alarm power source (907.2.10.2)

_____ Residential smoke alarm interconnection (907.2.10.3)

_____ Location/Power supply/Wiring (907.3 - 907.5)

_____ Activation/Presignal/Zones (907.6 - 907.8)

_____ Alarm notification appliances (907.9)

_____ Detectors (907.10 - 907.12)

_____ Monitoring (907.14)

EMERGENCY ALARM SYSTEMS (908)

_____ Detection system applicable (908.1 - 908.6)

SMOKE CONTROL SYSTEMS (909)

_____ Where required (402.9, 404.4, 405.5, 408.8, 410.3.7.2, 1020.1.7, 1025.6.2.1)

_____ 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)

_____ Features (911.1)

FIRE DEPARTMENT CONNECTIONS (912)

_____ Installation (912.1 - 912.5)

OCCUPANT NEEDS (Chapters 10, 11, 12)

MEANS OF EGRESS (Chapter 10)

OCCUPANT LOAD (1004.1.1 and Table 1004.1.1)

CAPACITY OF EGRESS COMPONENTS (1005.1 and Table 1005.1)

| Location | Floor Area | ÷ | Sq.ft./ person | = | Occt. load | Other occt. loads | Total |
|----------|------------|---|----------------|---|------------|-------------------|-------|
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Egress width (inch/occupant)

Stairways _____

Other egress components _____

CAPACITY

| Location | Stairways | Other egress components |
|----------|-----------|-------------------------|
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NUMBER OF EXITS (1019.1, 1019.2)

| Location | Required | Shown |
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MEANS OF EGRESS (continued)

GENERAL MEANS OF EGRESS

| | | | |
|-------|--|-------|--|
| _____ | Design requirements (1003.2 - 1003.7) | _____ | Door landings/Thresholds/Arrangement (1008.1.4 -1008.1.7) |
| _____ | Means of egress illumination (1006) | _____ | Door hardware (1008.1.8, 1008.1.9) |
| _____ | Exit signs (1011) | _____ | Stairways (1009) |
| _____ | Accessible means of egress (1007) | _____ | Roof access (1009.11) |
| _____ | Means of egress doors (1008.1-1008.1.2) | _____ | Ramps (1010) |
| _____ | Special doors/Gates/Turnstiles (1008.1.3, 1008.2, 1008.3) | _____ | Handrails (1012) |
| | | _____ | Guards (1013) |

EXIT ACCESS

| | | | |
|-------|---|-------|--------------------------------------|
| _____ | Door number and arrangement (1014.2, 1015.1, 1015.2) | _____ | Aisles (1014.4) |
| _____ | Common path of egress travel (1014.3) | _____ | Egress balconies (1014.5, 1016.3) |
| _____ | Exit access travel distance (1016.1) | _____ | Corridors (1017) |
| | | _____ | Air movement in corridors (1017.4) |

EXITS / EXIT DISCHARGE

| | | | |
|-------|---------------------------------|-------|--------------------------------------|
| _____ | Exits/Exit doors (1018, 1019) | _____ | Horizontal exits (1022) |
| _____ | Vertical exit enclosures (1020) | _____ | Exterior exit ramps/stairways (1023) |
| _____ | Exit passageways (1021) | _____ | Exit discharge (1024) |

OTHER MEANS OF EGRESS

| | | | |
|-------|--|-------|--|
| _____ | Miscellaneous egress requirements (1015.3 - 1015.6) | _____ | Assembly aisles & features (1025.6 - 1025.15) |
| _____ | Bleachers (1025.1.1) | _____ | Emergency escape and rescue (1026) |
| _____ | Assembly exits & egress (1025.2 - 1025.5) | | |

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) |

*Also see Accessibility Plan Review Record

INTERIOR ENVIRONMENT (Chapter 12)

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Ventilation openings (1203)*

Temperature control (1204)

Lighting (1205)

Yards or courts (1206)

Sound transmission (1207)

Interior space dimensions (1208)

Access to unoccupied spaces (1209)

Surrounding materials (1210, 2509)

*Also see Mechanical Code Plan Review Record

BUILDING ENVELOPE (Chapters 13*, 14, 15)

*See Energy Conservation Code Plan Review Record

EXTERIOR WALLS (Chapter 14)

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

Performance requirements (1403)

Materials (1404)

Exterior wall coverings/MCM's (1405, 1407)

Combustible material restrictions (1406)

ROOF ASSEMBLIES AND ROOFTOP STRUCTURES (Chapter 15)

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Weather protection (1503)

Flashing (1503.2, 1507.2.9, 1507.3.9, 1507.5.6, 1507.7.6, 1507.8.7, 1507.9.8)

Performance requirements (1504)

Fire classification (1505)

Materials (1506)

Roof coverings (1507)

Roof insulation (1508)

Rooftop structures (1509)

Reroofing (1510)

STRUCTURAL SYSTEMS (Chapters 16, 17, 18)

STRUCTURAL DESIGN (Chapter 16)

STRUCTURAL DESIGN CALCULATIONS

_____ Submitted for all structural members (106.1, 106.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)

Uniformly distributed floor live loads (1603.1.1, Table 1607.1)

| Floor Area Use | Loads Shown |
|----------------|-------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

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| _____ | _____ |
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| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

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; Chapter 7 of ASCE 7)

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)

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)

Wind loads (1603.1.4, 1609; Chapter 6 of ASCE 7)

- _____ Design procedure (6.1.2 of ASCE 7)
- _____ Basic wind speed (1609.3; Fig. 6-1 of ASCE 7)
- _____ Occupancy category (Table 1604.5; Table 1-1 of ASCE 7)
- _____ Wind importance factor, *I* (Table 6-1, 6.5.5 of ASCE 7)
- _____ Surface roughness/Exposure categories (1609.4; 6.5.6 of ASCE 7)
- _____ Internal pressure coefficient (Fig. 6-5, 6.5.11.1 of ASCE 7)
- _____ Component and cladding pressures (6.1.4.2, 6.4.2.2, 6.5.12.4 of ASCE 7)
- _____ Main wind-force resisting system (6.1.4.1, 6.4.2.1, 6.5.12.2 of ASCE 7)

Earthquake design data (1603.1.5, 1613; Chapter 11 - 13 and 15 - 23 of ASCE 7)

- _____ Occupancy category (Table 1604.5; Table 1-1 of ASCE 7)
- _____ Seismic importance factor (11.5.1, Table 11.5-1 of ASCE 7)
- _____ Mapped spectral response acceleration, S_s and S_1 (1613.5.1; 11.4.1 of ASCE 7)

- _____ Spectral response coefficients, S_{DS} & S_{D1} (1613.5.4; 11.4.4 of ASCE 7)
- _____ Site class (1613.5.2; 11.4.2 of ASCE 7)
- _____ Seismic design category (1613.5.6; 11.6 of ASCE 7)
- _____ Basic seismic-force-resisting system (Table 12.2-1 of ASCE 7)
- _____ Response modification coefficient, *R*, and deflection amplification factor, C_d (Table 12.2-1 of ASCE 7)
- _____ Analysis procedure (12.6 of ASCE 7)
- _____ Design base shear (12.8 of ASCE 7)

Flood loads (1603.1.6, 1612)

- _____ Flood hazard area (1612.3)
- _____ Elevation of structure (1612.5)

Other loads

- _____ Concentrated loads (1607.4)
- _____ Partition loads (1607.5)
- _____ Impact loads (1607.8)
- _____ Misc. loads (Table 1607.6, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)

QUALITY ASSURANCE (Chapter 17)

- _____ Approvals/Research report(s)(1703, 1703.4.2) Report No. _____ (1704.7, 1704.8, 1704.9)
- _____ Statement of special inspections (1704.1.1, 1705) _____ Sprayed fire-resistant materials and coatings (1704.10, 1704.11)
- _____ Prefabricated items (1704.2) _____ EIFS (1704.12)
- _____ Steel construction (1704.3) _____ Smoke control (1704.14)
- _____ Concrete construction (1704.4) _____ Seismic resistance (1707)
- _____ Masonry construction (1704.5) _____ Structural testing/Observations (seismic) (1708, 1709)
- _____ Wood construction (1704.6) _____ Testing (other) (1710 - 1715)
- _____ Prepared fill and foundations _____

SOILS AND FOUNDATIONS (Chapter 18)

- _____ Soils investigations/Reports (1802.1, 1802.2, 1802.6) _____ Footings and foundations (1805)
- _____ Soil classification (1802.3) _____ Retaining walls (1806)
- _____ Excavation, grading and fill (1803) _____ Dampproofing and waterproofing (1807)
- _____ Load-bearing values (1804) _____ Foundations (other types) (1808 - 1812)

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 1904.2.2) |
| _____ | 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) |
| _____ | Construction materials (2103) | _____ | Glass unit masonry (2110) |
| _____ | Mortar type (2103.8) | _____ | Fireplaces/Heaters/Chimneys (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) | _____ | Fasteners and fastening (2303.6, 2304.9, Table 2304.9.1) |
| _____ | MATERIAL STANDARDS / CONSTRUCTION REQUIREMENTS (2303 - 2306) | _____ | Heavy timber construction (2304.10) |
| _____ | Lumber (2303.1.1) | _____ | Shear walls and diaphragms (2305, 2306) |
| _____ | Wood I-joists (2303.1.2) | _____ | CONVENTIONAL LIGHT-FRAME CONSTRUCTION (2308) |
| _____ | Glue-laminated timbers (2303.1.3) | _____ | Limitations satisfied (2308.2) |
| _____ | Wood structural panels (2303.1.4, 2304.6, 2304.7) | _____ | Wind/Seismic requirements (2308.2.1, 2308.2.2, 2308.11, 2308.12) |
| _____ | Fiber-, hard-, & particle-, boards (2303.1.5 - 2303.1.7) | _____ | Braced walls (2308.3, 2308.9.3) |
| _____ | Decay and termite protection (2303.1.8, 2304.11) | _____ | Foundation anchorage (2308.3.3, 2308.6) |
| _____ | Structural composite lumber (2303.1.9) | _____ | Floor joists (Tables 2308.8[1], 2308.8[2]) |
| _____ | Structural log members (2303.1.10) | _____ | Wall studs (Table 2308.9.1) |
| _____ | Round timber poles and piles (2303.1.11) | _____ | Girders (Tables 2308.9.5 and 2308.9.6, 2308.7) |
| _____ | Fire-retardant-treated wood (2303.2) | _____ | Ceiling joists (Tables 2308.10.2[1], 2308.10.2[2]) |
| _____ | Hardwood and plywood (2303.3) | _____ | Roof rafters (Tables 2308.10.3.[1] - 2308.10.3[6]) |
| _____ | Trusses (2303.4) | _____ | Roof uplift (2308.10.1) |
| _____ | Joist hangers and connectors (2303.5) | _____ | |

NONSTRUCTURAL MATERIALS (Chapters 24, 25, 26)

GLASS AND GLAZING (Chapter 24)

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

GYPSON BOARD AND PLASTER (Chapter 25)

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

PLASTIC (Chapter 26)

FOAM PLASTIC INSULATION (2603) _____ Protection against termites (2603.8)
_____ Labeling (2603.2, 2603.5.6) _____ Special approval (2603.9)
_____ Surface-burning characteristics _____ MISCELLANEOUS PLASTICS
(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)

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

ELEVATORS AND CONVEYING SYSTEMS (Chapter 30)

_____ Construction standard specified (3001.2) _____ Hoistway venting (3004)
_____ Hoistway enclosures (3002) _____ Conveying systems (3005)
_____ Opening protectives (3002.1.1) _____ Machine rooms (3006)
_____ Emergency operations (3003)

* Also see Electrical (Ch.27), Mechanical (Ch.28) and Plumbing (Ch.29) Plan Review Records

SPECIAL DEVICES AND CONDITIONS (Chapters 31, 34)

SPECIAL CONSTRUCTION (Chapter 31)

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

EXISTING STRUCTURES (Chapter 34)

_____ Additions, alterations, repairs (3403) _____ Accessibility (3409)
_____ Fire escapes (3404) _____ Compliance alternatives (3410)
_____ Change of occupancy (3406)

BUILDING EVALUATION SUMMARY (Table 3410.7)

| | |
|---|---|
| Existing occupancy _____ | Proposed occupancy _____ |
| Year building was constructed _____ | Number of stories _____ Height in feet _____ |
| Type of construction _____ | Area per floor _____ |
| Percentage of frontage _____% | 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 _____ No _____ | type and location _____ |
| Fire alarm system: Yes _____ No _____ | type _____ |
| Smoke control: Yes _____ No _____ | 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) |
|---|------------------|----------------------|---------------------|
| 3410.6.1 Building height | | | |
| 3410.6.2 Building area | | | |
| 3410.6.3 Compartmentation | | | |
| 3410.6.4 Tenant and dwelling unit separations | | | |
| 3410.6.5 Corridor walls | | | |
| 3410.6.6 Vertical openings | | | |
| 3410.6.7 HVAC systems | | | |
| 3410.6.8 Automatic fire detection | | | |
| 3410.6.9 Fire alarm system | | | |
| 3410.6.10 Smoke control | **** | | |
| 3410.6.11 Means of egress | **** | | |
| 3410.12 Dead ends | **** | | |
| 3410.13 Max. exit access travel distance | **** | | |
| 3410.6.14 Elevator control | | | |
| 3410.6.15 Means of egress emergency lighting | **** | | |
| 3410.6.16 Mixed occupancies | | **** | |
| 3410.6.17 Automatic sprinklers | | ÷ 2 = | |
| 3410.6.18 Incidental use | | | |
| Building score — total value | | | |

**** No applicable value to be inserted.

BUILDING SAFETY EVALUATION SCORE (Table 3410.9)

| Formula | Table 3410.7 | | Table 3410.8 | | 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
 GS = General Safety

MFS = Mandatory Fire Safety
 MME = Mandatory Means of Egress
 MGS = Mandatory General Safety

APPENDICES A - J

_____ Appendices adopted (101.2.1)

_____ Compliance verified