

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

ADMINISTRATION (Chapter 1)

_____ Complete construction documents (107.1, 107.2) _____ Signed/sealed construction documents (107.1, State laws vary)

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 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)

| | | | | |
|--|-------------------|------------------|-------------------|------------------|
| | _____ North _____ | _____ East _____ | _____ South _____ | _____ West _____ |
|--|-------------------|------------------|-------------------|------------------|

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 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 |

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

*Adjusted floor area = actual floor area ÷ conversion factor

CHECK ALLOWABLE AREA (506.5) _____ 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, one story (507.2) _____ Group H occupancies (507.8)

_____ Sprinklered, one story (507.3) _____ Aircraft paint hangar (507.9)

_____ Two 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

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

COVERED MALL AND OPEN MALL BUILDINGS (402) _____ Smoke control (402.10)

_____ Egress (402.4) _____ Kiosk requirements (402.11)

_____ Mall width (402.5) _____ Playground structures (402.12)

_____ Unlimited area (402.6) _____ Security grilles and doors (402.13)

_____ Fire separations (402.7) _____ Standby power and emergency voice/alarm (402.14, 402.15)

_____ Interior finish (402.8) _____ Plastic signs (402.16)

_____ Automatic sprinkler system (402.9) _____ Fire department access (402.17)

_____ Standpipe system (402.9.1) _____

| | | |
|--|-------|--|
| HIGH-RISE BUILDINGS (403) | | Standby power (404.7) |
| _____ Construction (403.2) | _____ | Interior finish (404.8) |
| _____ Automatic sprinkler system (403.3) | _____ | Travel distance (404.9) |
| _____ Smoke detection (403.4.1) | | OTHER SPECIAL USE AND OCCUPANCY |
| _____ Fire alarm system (403.4.2) | _____ | Underground structures (405) |
| _____ Emergency voice/alarm systems (403.4.3) | _____ | Motor-vehicle-related occupancies (406, 509) |
| _____ Emergency responder radio coverage (403.4.4) | _____ | Group I-2 (407) |
| _____ Fire command center (403.4.5) | _____ | Group I-3 (408) |
| _____ Smoke removal (403.4.6) | _____ | Motion picture projection rooms (409) |
| _____ Elevators (403.6) | _____ | Stages and platforms (410) |
| _____ Standby power (403.4.7) | _____ | Special amusement buildings (411) |
| _____ Emergency power (403.4.8) | _____ | Aircraft-related occupancies (412) |
| _____ Stair remoteness (403.5.1) | _____ | Combustible storage (413) |
| _____ Additional stairway (403.5.2) | _____ | Hazardous materials (307.1, 414) |
| _____ Stairway doors (403.5.3) | _____ | Groups H-1, H-2, H-3, H-4 and H-5 (415) |
| _____ Smokeproof exit (403.5.4) | _____ | Application of flammable finishes (416) |
| _____ Luminous egress path (403.5.5) | _____ | Drying rooms (417) |
| ATRIUMS (404) | _____ | Organic coatings manufacturing (418) |
| _____ Use (404.2) | _____ | Live/work units (419) |
| _____ Automatic sprinkler system (404.3) | _____ | Groups I-1, R-1, R-2, R-3 (420) |
| _____ Fire alarm system (404.4) | _____ | Hydrogen cutoff rooms (421) |
| _____ Smoke control (404.5) | _____ | Ambulatory health care facilities (422) |
| _____ Enclosure (404.6) | _____ | Storm shelters (423) |

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) |
| _____ Rated glazing (703.5) |
| _____ Marking and identification (703.6) |

BUILDING ELEMENTS (Table 601)

- _____ Structural frame (704)
- _____ Interior bearing walls
- _____ Interior nonbearing walls
- _____ Floor construction (712)
- _____ Roof construction (712)

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

| | 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"/> _____ |

- _____ Opening protection (705.8.1 - 705.8.4)
- _____ Vertical fire spread protection (705.8.5, 705.8.6)
- _____ Parapets (705.11)

FIRE BARRIERS (707)

- _____ Shaft enclosures (707.3.1)
- _____ Exit enclosures/exit passageway (707.3.2, 707.3.3)
- _____ Horizontal exits (707.3.4)
- _____ Atriums (707.3.5)

- _____ Incidental accessory occupancies (707.3.6)
- _____ Control areas (707.3.7)
- _____ Mixed occupancy and fire area separations (707.3.8, 707.3.9, 901.7)
- _____ Construction (707.5 - 707.9)

SHAFTS (708)

- _____ Exceptions (708.2)
- _____ Construction (708.3 - 708.12, 708.14)
- _____ Refuse and laundry chutes (708.13)
- _____ Elevator lobby (708.14.1, 708.14.2)

OTHER FIRE-RESISTANT CONSTRUCTION

- _____ Fire walls (706)
- _____ Fire partitions (709)
- _____ Smoke barriers (710)
- _____ Smoke partitions (711)
- _____ Penetrations (713)
- _____ 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)
- _____ Actuation (903.3.4)

- _____ 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) | _____ | Fire safety functions (907.3) |
| _____ Required locations (906.1, 906.5, 906.6) | _____ | Initiating devices (907.4) |
| _____ Installation standard (906.2) | _____ | Occupant notification (907.5) |
| _____ Size and distribution (906.3) | _____ | Installation (907.6, 907.7) |
| _____ Cabinets (906.8) | | |
| _____ Installation (906.9) | | |
| | | EMERGENCY ALARM SYSTEMS (908) |
| | | _____ Detection system applicable (908.1 - 908.6) |
| FIRE ALARM AND DETECTION SYSTEMS (907) (Where required) | | SMOKE CONTROL SYSTEMS (909) |
| _____ Construction documents/shop drawings (907.1.1, 907.1.2) | _____ | Where required (402.10, 404.5, 405.5, 408.9, 410.3.7.2, 1022.9, 1028.6.2.1) |
| _____ Assembly (A-1, A-2, A-3, A-4, A-5) (907.2.1) | _____ | Design requirements (909.1 - 909.4) |
| _____ Business (B) (907.2.2) | _____ | Smoke barriers (909.5) |
| _____ Educational (E) (907.2.3) | _____ | Pressurization method (909.6) |
| _____ Factory (F-1, F-2) (907.2.4) | _____ | Airflow design method (909.7) |
| _____ High-hazard (H-1, H-2, H-3, H-4, H-5) (907.2.5) | _____ | Exhaust method (909.8) |
| _____ Institutional (I-1, I-2, I-3, I-4) (907.2.6) | _____ | Design fire (909.9) |
| _____ Mercantile (M) (907.2.7) | _____ | Equipment/Power (909.10, 909.11) |
| _____ Residential (R-1, R-2, R-4) (907.2.8, 907.2.9, 907.2.10) | _____ | Detection and control (909.12 - 909.18) |
| _____ Single/multiple station smoke alarms (907.2.11) | _____ | Smokeproof enclosures (909.20) |
| _____ High-rise buildings (907.2.13) | | |
| _____ Atriums (907.2.14) | | |
| _____ Other buildings/areas (907.2.12, 907.2.15 - 907.2.23) | | |
| | | 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) |
| FIRE ALARM AND DETECTION SYSTEMS (907) (Design) | | EMERGENCY RESPONDER SAFETY FEATURES/ RADIO COVERAGE (914, 915) |
| _____ Residential smoke alarm interconnection (907.2.11.3) | _____ | Requirements (914.1, 914.2, 915.1) |
| _____ Residential smoke alarm power source (907.2.11.4) | _____ | |

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) |

*Also see Accessibility Plan Review Record

INTERIOR ENVIRONMENT (Chapter 12)

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

Ventilation (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)

EIFS (1408)

ROOF ASSEMBLIES AND ROOFTOP STRUCTURES (Chapter 15)

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

Weather protection (1503)

Flashing (1503.2, 1507.2.9, 1507.3.9, 1507.5.7, 1507.7.7, 1507.8.8, 1507.9.9)

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, 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; 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)

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) |
| _____ Steel construction (1704.3) | _____ Wind requirements (1706) |
| _____ Concrete construction (1704.4) | _____ Seismic resistance (1707) |
| _____ Masonry construction (1704.5) | _____ Contractor responsibility (1709) |
| _____ Wood construction (1704.6) | _____ Structural testing/Observations (seismic) (1708, 1710) |
| _____ Prepared fill and foundations (1704.7 - 1704.11) | _____ Testing (other) (1711 - 1716) |

SOILS AND FOUNDATIONS (Chapter 18)

| | |
|---|---|
| _____ Soils investigations/Reports (1803.1, 1803.2, 1803.3, 1803.6) | _____ Foundation walls, retaining walls and embedded posts and poles (1807) |
| _____ Soil classification (1803.5) | _____ Foundations (1808) |
| _____ Excavation, grading and fill (1804) | _____ Shallow foundations (1809) |
| _____ Dampproofing and waterproofing (1805) | _____ Deep foundations (1810) |
| _____ Load-bearing values (1603.1.6, 1806) | |

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) |
| _____ | Construction materials (2103) | _____ | Glass unit masonry (2110) |
| _____ | Mortar 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) |
| _____ | Lumber (2303.1.1) | _____ | CONVENTIONAL LIGHT-FRAME CONSTRUCTION (2308) |
| _____ | Wood I-joists (2303.1.2) | _____ | Limitations satisfied (2308.2) |
| _____ | Glue-laminated timbers (2303.1.3) | _____ | Wind/Seismic requirements (2308.2.1, 2308.2.2, 2308.11, 2308.12) |
| _____ | Wood structural panels (2303.1.4, 2304.6, 2304.7) | _____ | Braced walls (2308.3, 2308.9.3) |
| _____ | Fiber-, hard-, & particle-, boards (2303.1.5 - 2303.1.7) | _____ | Foundation anchorage (2308.3.3, 2308.6) |
| _____ | Decay and termite protection (2303.1.8, 2304.11) | _____ | Floor joists (Tables 2308.8[1], 2308.8[2]) |
| _____ | Structural composite lumber (2303.1.9) | _____ | Wall studs (Table 2308.9.1) |
| _____ | Structural log members (2303.1.10) | _____ | Girders (Tables 2308.9.5 and 2308.9.6, 2308.7) |
| _____ | Round timber poles and piles (2303.1.11) | _____ | Ceiling joists (Tables 2308.10.2[1], 2308.10.2[2]) |
| _____ | Fire-retardant-treated wood (2303.2) | _____ | Roof rafters (Tables 2308.10.3.[1] - 2308.10.3[6]) |
| _____ | Hardwood and plywood (2303.3) | _____ | Roof uplift (2308.10.1) |
| _____ | 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 _____ Plaster (2507, 2508, 2510 - 2513)
(2506, Table 2506.2, Table 2508.1)

PLASTIC (Chapter 26)

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

* 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) _____ Automatic vehicular gates (3110)
_____ Temporary structures (3103) _____ 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)
_____ Telecommunication and broadcast _____ Egress (3104.7 - 3104.9)
towers (3108) _____
_____ Swimming pool enclosures (3109)

EXISTING STRUCTURES (Chapter 34)

_____ Building materials (3401.4) _____ Change of occupancy (3408)
_____ Additions, alterations, repairs _____ Accessibility (3411)
(3403 - 3405) _____ Compliance alternatives (3412)
_____ Fire escapes (3406)

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 _____ 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) |
|---|------------------|----------------------|---------------------|
| 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 | | ÷ 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
 GS = General Safety

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

APPENDICES A - K

_____ Appendices adopted (101.2.1)

_____ Compliance verified