

15001

ORDINANCE NO. _____
(New Series)

O. 79-206

AUG 13 1979

AN ORDINANCE AMENDING CHAPTER IX, ARTICLE 1 OF THE SAN DIEGO MUNICIPAL CODE BY REPEALING SECTIONS 91.02.0603, 91.02.0703, 91.02.0803, 91.02.0903, 91.02.1003, 91.02.1103, 91.02.1203, 91.02.1303, 91.02.2314, 91.02.TABLE 23-1, 91.02.2518, 91.02.2609, 91.02.2627, 91.02.3803, 91.02.3805, 91.02.4903, 91.02.5406, 91.02.TABLE 54-D AND 91.02.TABLE 54-E; BY AMENDING SECTIONS 91.01, 91.02.0104, 91.02.0204, 91.02.0301, 91.02.0302, 91.02.0304, 91.02.0404, 91.02.0420, 91.02.TABLE 5-A, 91.02.1101, 91.02.1105, 91.02.1302, 91.02.1304, 91.02.1404, 91.02.1502, 91.02.1709, 91.02.2505, 91.02.TABLE 25-C-1, 91.02.2611, 91.02.3203, 91.02.3305, 91.02.3312, 91.02.3603, 91.02.4706, 91.02.5401 AND 91.0405; AND BY ADDING SECTIONS 91.02 AND 91.02.1717 RELATING TO BUILDING AND BUILDING REGULATION.

WHEREAS, the Uniform Building Code, 1976 Edition, has been published by the International Conference of Building Officials and adopted in Title 25, California Administrative Code; and

WHEREAS, Sections 17922 and 17958 of the California Health and Safety Code provide that the governing body of every city or county shall adopt ordinances or regulations imposing the same requirements as those contained in the Uniform Building Code; and

WHEREAS, Sections 17958.5 and 17958.7 of the California Health and Safety Code provide that a city or county may make such changes or modifications in the requirements contained in the Uniform Building Code as it determines are reasonably necessary because of local conditions; and

WHEREAS, the amendments to the Uniform Building Code, 1976 Edition, contained in this ordinance have been recommended by the City of San Diego Board of Appeals and Advisors and endorsed by the San Diego Chapter of the International Conference of

Building Officials in order to provide for uniformity in San Diego County and to provide for local conditions and needs; and

WHEREAS, the Council of The City of San Diego finds and declares in accordance with Section 17958.5 of the California Health and Safety Code that the changes and modifications contained in the Uniform Building Code, 1976 Edition, are reasonably necessary because of local conditions; and

WHEREAS, the Council of The City of San Diego expressly finds and declares that each amendment or change to the Uniform Building Code, 1976 Edition, contained in this ordinance is needed to provide for local conditions; NOW, THEREFORE,

BE IT ORDAINED, by the Council of The City of San Diego,
as follows;

Section 1. That Chapter IX, Article 1 of the San Diego Municipal Code be and the same is hereby amended by repealing Sections 91.02.0603, 91.02.0703, 91.02.0803, 91.02.0903, 91.02.1003, 91.02.1103, 91.02.1203, 91.02.1303, 91.02.2314, 91.02.TABLE 23-1, 91.02.2518, 91.02.2609, 91.02.2627, 91.02.3803, 91.02.3805, 91.02.4903, 91.02.5406, 91.02.TABLE 54-D and 91.02.TABLE 54-E.

Section 2. That Chapter IX, Article 1 of the San Diego Municipal Code be and the same is hereby amended by amending or adding Sections 91.01, 91.02, 91.02.0104, 91.02.0204, 91.02.0301, 91.02.0302, 91.02.0304, 91.02.0404, 91.02.0420, 91.02.TABLE 5-A, 91.02.1101, 91.02.1105, 91.02.1302, 91.02.1304, 91.02.1404, 91.02.1502, 91.02.1709, 91.02.1717, 91.02.2505, 91.02. TABLE 25-C-1, 91.02.2611, 91.02.3203, 91.02.3305, 91.02.3312, 91.02.3603, 91.02.4706, 91.02.5401 and 91.0405 to read as follows:

SEC. 91.01 UNIFORM BUILDING CODE ADOPTED

That certain document, three copies of which are on file in the Office of the City Clerk of the City of San Diego, California, being marked and designated as the "Uniform Building Code, 1976 Edition, published by the International Conference of Building Officials," including only Chapters 38, 48, 49, and 57 of the Appendix thereof, but excluding other portions of the Appendix and those portions of the Code set forth in Section 91.02 of this Code, is hereby adopted as the Building Code of the City of San Diego, California, for regulating the erection, construction, enlargement, alteration, repair, removal, demolition, conversion, occupancy, equipment, use, height, area and maintenance of all privately owned buildings and/or structures in the City of San Diego, California; providing for the issuance of permits and collection of fees therefor; providing penalties for violations of such Code, declaring and establishing fire zones. Each and all of the regulations, provisions, penalties, conditions and terms of such "Uniform Building Code, 1976 Edition, published by the International Conference of Building Officials," on file in the office of the City Clerk, are hereby referred to, adopted and made a part hereof as if fully set forth in this Article; provided, however, that any of the provisions of said Uniform Building Code as herein adopted which are in conflict with any of the provisions of this Article, shall be superseded by the provisions of this Article.

The adoption of the Uniform Building Code shall in no way limit, prohibit, impede or prevent the City Council from adopting an ordinance limiting or preventing the issuance of any type, number, or geographical distribution of permits for construction of any facility for which a permit is required. If a determination is made at a public hearing that such issuance would detrimentally affect the public health, safety or the general welfare of the citizens of the City of San Diego, an ordinance establishing a limitation may be imposed. The ordinance imposing a limitation shall specify: (1) the type of construction, (2) the geographic area, (3) the period of time for which the limitation shall be imposed, and (4) the facts which require the adoption of such an ordinance.

Notice of the time, date and place of the public hearing and a general description of the area affected shall be given by publication thereof for a period not less than five days in a newspaper of general circulation that is published on five or more days in a calendar week in the City of San Diego. Such publication shall be completed at least five days prior to the hearing and shall include a copy of the proposed ordinance.

SEC. 91.02 SECTIONS OF UNIFORM BUILDING CODE NOT ADOPTED

The following sections of the Uniform Building Code are not adopted by The City of San Diego as part of the Municipal Code:

Section 1711 WATER CLOSET COMPARTMENTS AND SHOWERS

(f) Glazing for Shower and Bathtub Enclosures

(g) Plastics

Section 2312 EARTHQUAKE REGULATIONS

(1) Earthquake Recording Instrumentations

SEC. 91.02.0104 SECTION 104(a) OF THE UNIFORM BUILDING CODE AMENDED
SECTION 104(e) OF THE UNIFORM BUILDING CODE AMENDED
SECTION 104(j) OF THE UNIFORM BUILDING CODE DELETED

Section 104(a) General. Buildings or structures to which additions, alterations, or repairs are made shall comply with all the requirements for new buildings or structures except as specifically provided in this Section.

For construction in Fire Zones see Chapter 16.

Regardless of other provisions of this section, any portion of an existing dwelling, apartment, or hotel building may be altered, repaired, or rehabilitated, regardless of the value of the work or the duration of the construction period, without the entire structure being made to comply with the requirements of this code for new construction.

For alterations and repairs of existing dwelling, apartment, or hotel buildings, or buildings or structures accessory thereto, the replacement, retention, and extension of original materials, and the continued use of original methods of construction, shall be allowed, so long as the building does not become or continue to be a substandard building as defined in Section 17920(f) of the California Health and Safety Code. Additions or alterations to existing residential buildings which increase the area, volume or size of an existing building shall comply with the requirements in this code for new buildings or structures. Such additions and alterations shall not cause the building to exceed area or height limitations applicable to new construction.

Section 104(e) Nonstructural Alterations and Repairs: 25 Percent or Less. Alterations or repairs, not exceeding 25 percent of the value of an existing building or structure, which are nonstructural and do not affect any member or part of the building or structure having required fire resistance, may be made with the same materials of which the dwelling or structure is constructed.

SEC. 91.02.0204 SECTION 204 OF THE UNIFORM BUILDING CODE AMENDED

Section 204(a). General Provisions. There shall be a Board of Appeals and Advisors consisting of ten (10) members who are qualified by experience and training to pass upon matters pertaining to design and construction of buildings, fire prevention, and fire protection. At least two members shall be licensed by the State of California as Civil Engineers duly authorized to use the title Structural Engineer and one member each shall be from the electrical and mechanical industries or professions. The members of the Board shall be appointed in accordance with Section 43 of the Charter of the City of San Diego for two year terms and until their successors have been appointed and qualified. However, appointments shall be scheduled so as to provide that no more than five terms shall expire in any year. The Director of Building Inspection, the Chief of the Fire Department and the City Attorney shall be ex officio members of the Board but they shall have no vote. The Director of Building Inspection or his appointed representative shall act as Secretary to the Board. The Board shall select a chairman from its membership annually, unless a chairman is appointed by the Mayor. Five members shall constitute a quorum for the transaction of business and a majority vote, but not less than four affirmative votes shall be necessary to pass any recommendation.

The Board shall adopt rules to govern its meetings and shall render its findings and recommendations in writing to the City Manager and to applicants for Board action. All officers and department heads of the City shall cooperate with the Board and render all reasonable assistance to it.

Section 204(b). Duties of Board. On its own motion, or at the request of an application for Board action, or when requested by the Director of Building Inspection, the Board shall investigate and advise as to the suitability of alternate materials and types of construction and shall recommend reasonable interpretations of the provisions of this chapter. The Board may also conduct public hearings upon, and recommend to the City Council, the passage of new legislation pertaining to the design and construction of buildings.

The Board may recommend approval of minor deviations from the provisions of this chapter upon demonstration:

- (1) That strict application, operation or enforcement thereof would result, in practical difficulty or unnecessary hardship; and
- (2) The alternate materials or type of construction proposed is, for the purpose intended, at least equivalent to the requirements of this chapter in quality, strength, effectiveness, fire resistance and durability, and also in providing for the public health and safety.

The Board may also conduct public hearings and make findings regarding unsafe structures.

SEC. 91.02.0301 SECTION 301(a) AND SECTION 301(c) OF THE UNIFORM BUILDING CODE AMENDED

Section 301(a). Permits required. No person, firm or corporation shall erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish any privately owned buildings or structure in the City, or cause the same to be done, without first obtaining a separate building permit for each such building or structure from the Building Official except the following:

- (1) Fences and free-standing masonry or concrete walls not exceeding 6 feet in height.
- (2) Curbs, retaining walls and planter boxes not exceeding 24 inches in height.
- (3) Free standing patio covers and display booths up to 100 square feet in projected area and located at least 6 feet from any other building on the same property.
- (4) One-story buildings with not more than 100 square feet of projected roof area when located that distance from any other building on the property where protected opening would not be required for either building in accordance with Section 504.
- (5) Television and radio antennas supported on roof.
- (6) Awnings projecting up to 6 feet and attached to the exterior walls of buildings of Group R-3 or M-1, occupancy.
- (7) Electrolier standards, flag poles and antennas not over 30 feet in height above finish grade.
- (8) Exterior walking decks supported on grade and extending not more than 30 inches above grade, which are accessory to buildings of Group R-3 Occupancy (dwellings) and Group M-1 Occupancy (residential accessory structures).
- (9) Renewal of roof coverings on buildings of Group R-3 Occupancy (dwellings) and Group M-1 Occupancy (residential accessory structures).
- (10) Repairs which involve only the replacement of component parts or existing work with similar materials for the purpose of maintenance and which do not aggregate over \$250.00 in valuation in any twelve month period, and do not affect any electrical or mechanical installations. Repairs exempt from permit requirements shall not include any addition, change or modification in construction, exit facilities or permanent fixtures or equipment. Specifically excepted from permit requirements without limit to valuation are:
 - a. Painting and decorating.
 - b. Installation of floor covering.
 - c. Cabinet work.
 - d. Outside paving.

This section shall not be construed to require separate building permits for a dwelling and auxiliary buildings or structures on the same property which are described in the building permit application, plot plan and other drawings.

Section 301(c) Plans and Specifications. With each application for a building permit, and when required by the Building Official for enforcement of any provisions of this Code, four sets of plans and specifications shall be submitted. The Building Official may require plans and specifications to be prepared and designed by an engineer or architect licensed by the state to practice as such.

EXCEPTION: When authorized by the Building Official plans and specifications need not be submitted for the following:

1. One-story building of Type V conventional woodstud construction with an area not exceeding 600 square feet.
2. Group M. Division I Occupancies of Type V conventional woodstud construction.
3. Small and unimportant work.

SEC. 91.02.0302 SECTION 302(a) AND SECTION 302(d) OF THE UNIFORM BUILDING CODE AMENDED

Section 302(a). Issuance. The application, plans and specifications filed by an applicant for a permit shall be checked by the Building Official. Such plans may be reviewed by other departments of the City to check compliance with the laws and ordinances under their jurisdiction. If the Building Official is satisfied that the work described in an application for permit and the plans filed therewith conform to the requirements of this Code and other pertinent laws and ordinances and that the fee specified in Section 303(a) has been paid, he shall issue a permit therefor

to the applicant. In the case of new buildings all fees required for connection to public water and sewer systems must be paid before the permit is issued.

When the Building Official issues the permit, he shall endorse in writing or stamp on both sets of plans and specifications "APPROVED." Such approved plans and specifications shall not be changed, modified or altered without authorization from the Building Official and all work shall be done in accordance with the approved plans.

The Building Official may issue a permit for the construction of part of a building or structure before the entire plans and specifications for the whole building or structure have been submitted or approved provided adequate information and detailed statements have been filed complying with all pertinent requirements of this Code. The holder of such permit shall proceed at his own risk without assurance that the permit for the entire building or structure will be granted.

Permits in San Diego Coast Regional Commission "Coastal Zone." No building permit will be issued by the City of San Diego for a project or development located within the "Coastal Zone" of the San Diego Coast Regional Commission as established by the California Coastal Act of 1976 until such time as a development permit or exemption certificate has been obtained from the Regional Commission, or, if appealed, from the California Coastal Zone Conservation Commission or any court of competent jurisdiction which has authorized said construction, except that building permits for repairs or improvements to single-family dwellings which are not located between the mean high tide line and the first continuous public roadway paralleling the shoreline or 300 feet from the shoreline, whichever distance is furthest, as mapped by the Regional Commission, will not be subject to this provision. Repairs or improvements will include, but not be limited to, additions of rooms, carports, garages, swimming pools, fences, interior remodeling or rewiring. Procedures to be followed when an application is submitted for a building permit in the "Coastal Zone" are: The application, plans and specifications filed by an applicant for a permit shall be reviewed by the Building Official. Such plans shall be reviewed by other City departments to ensure compliance with the laws and ordinances under their jurisdiction. If the Building Official is satisfied that the work described in an application for a permit, and the plans and specifications filed therewith conform to the requirements of this Code, and other pertinent laws and ordinances, he shall issue to the applicant a letter stating that he is prepared to issue a permit therefor to the applicant when the appropriate fees have been paid and the applicant presents an approved permit or certificate of exemption granted by the Regional Commission, the California Coastal Zone Conservation Commission, if appealed, or a court of competent jurisdiction authorizing construction for which the application was filed; provided, however, that the application, plans and specifications comply with all laws and ordinances in effect at the time of the presentation of such permit or certificate and payment of such fee. Upon presentation of such permit or exemption certificate and payment of the fee as specified by Section 91.02.0303 of this Code, the Building Official shall issue a permit to the applicant provided that the application, plans and specifications comply with all laws and ordinances in effect at the time of presentation of such permit or certificate and payment of fee.

Section 302(d). Expiration. Every permit issued by the Building Official under the provisions of this Code shall expire by limitation and become null and void, if the building or work authorized by such permit is not commenced within 120 days from the date of such permit, or if the building or work authorized by such permit is suspended or abandoned at any time after the work is commenced for

a period of 120 days. Before such work can be recommenced a new permit will first be obtained so to do, and the fee therefor shall be one-half the amount required for a new permit for such work, provided no changes have been made or will be made in the original plans and specifications for such work, provided that such suspension or abandonment has not exceeded one year, and provided further that no refunds have been made as authorized by Section 303(a).

SEC. 91.02.0304 SECTION 304(e) OF THE UNIFORM BUILDING CODE AMENDED AND SECTION 304(g) ADDED

Section 304(e). Other Inspections. In addition to the called inspections specified above, the Building Official may make or require any other inspections of any construction work to ascertain compliance with this Code and other laws which are enforced by the Building Inspection Department.

For purpose of determining compliance with Sections 104(h), 105, and 502 the Building Official may inspect any structure.

Section 304(g). Compliance Survey Inspection. Upon receipt of a written request for a compliance survey from the owner and payment of the fee specified in Section 303(e), the Building Official may inspect an existing structure to ascertain its compliance with the provisions of this Code and other applicable laws and ordinances, and report his findings in writing to the owner. A compliance survey may be issued to determine the need for and type of corrections necessary to accomplish substantial compliance with applicable regulations associated with a proposed change in character of occupancy or use of an existing building.

SEC. 91.02.0404 SECTION 404 OF THE UNIFORM BUILDING CODE AMENDED

Section 404. CAST STONE is a precast building stone manufactured from portland cement concrete and used as a trim, veneer or facing on or in buildings or structures.

CELLAR in that portion of a building between floor and ceiling which is wholly or partly below grade (as defined in this Chapter) and so located that the vertical distance from grade to the floor below is equal to or greater than the vertical distance from grade to ceiling. (See "Story.")

CENTRAL HEATING PLANT is comfort heating plant equipment installed in such a manner to supply heat by means of ducts or pipes to areas other than the room in which the equipment is located.

CHIEF OF THE FIRE DEPARTMENT is the head of the Fire Department or his regularly authorized deputy.

CITY, as used in this Code, is any political subdivision which adopts this Code for regulation within its jurisdiction.

COMPLIANCE SURVEY is an inspection service not mandated by this Code, performed at the written request of the owner, or duly authorized agent of the owner, by the Building Official to ascertain, to the extent possible without extensive removal of building elements, that structural, electrical, mechanical, and other fire-life-safety features of a building are in substantial conformance with regulations which permit continued use and/or occupancy of a building.

COURT is a space, open and unobstructed to the sky, located at or above grade level on a lot and bounded on three or more sides by walls of a building.

SEC. 91.02.0420 SECTION 420 OF THE UNIFORM BUILDING CODE AMENDED

Section 420.

SHAFT is a vertical opening through a building for elevators, dumbwaiters, mechanical equipment, or similar purposes.

SHALL as used in this Code, is mandatory.

SMOKE DETECTOR is an approved detector which senses visible or invisible

particles of combustion. The detector shall bear a label or other identification issued by an approved testing agency having a service for inspection of materials and workmanship at the factory during fabrication and assembly.

STAGE is a partially enclosed portion of an assembly building which is designed or used for the presentation of plays, demonstrations, or other entertainment wherein scenery, drops, or other effects may be installed or used, and where the distance between the top of the proscenium opening and the ceiling above the stage is more than 5 feet.

STAIRWAY. Two or more risers shall constitute a stairway.

STORY is that portion of a building included between the upper surface of any floor and the upper surface of the floor next above, except that the topmost story shall be that portion of a building included between the upper surface of the topmost floor and the ceiling or roof above. If the finished floor level directly above a basement, cellar or unused under-floor space is more than 6 feet above grade as defined herein for more than 50 percent of the total perimeter or is more than 12 feet above grade as defined herein at any point, such basement, cellar or unused floor-space shall be considered as a story.

STREET is any thoroughfare or public space not less than 16 feet in width which has been dedicated or deeded to the public for public use.

A **STRUCTURE** is that which is built or constructed, an edifice or building of any kind, or any piece of work artificially built up or composed of parts joined together in some definite manner, and which is under a single ownership.

SEC. 91.02. TABLE 5-A TABLE 5-A OF THE UNIFORM BUILDING CODE AMENDED

TABLE NO. 5-A—WALL AND OPENING PROTECTION OF OCCUPANCIES BASED ON LOCATION ON PROPERTY.
TYPES II, ONE-HOUR, II-N AND V CONSTRUCTION: For exterior wall and opening protection of Types II, one-hour, II-N and V buildings see table below. Type V Construction is not permitted within Fire Zone No. 1. Exceptions to limitation for Types II, one-hour, II-N and Type V Construction, as provided in Sections 1109, 2003 and 2203 apply. For Types I, II-F.R. and III and IV Construction see Sections 1803, 1903, and 2103.

GROUP	DESCRIPTION OF OCCUPANCY	FIRE ZONE	FIRE RESISTANCE OF EXTERIOR WALLS	OPENINGS IN EXTERIOR WALLS
A See also Section 702	1—Any assembly building with a stage and an occupant load of 1000 or more in the building		Not applicable [See Section 602 (a)]	
	2—Any building or portion of a building having an assembly room with an occupant load of less than 1000 and a stage	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 20 feet
	2.1—Any building or portion of a building having an assembly room with an occupant load of 300 or more without a stage, including such buildings used for educational purposes and not classed as a Group E or Group B, Division 2 Occupancy	2 and 3	2 hour less than 10 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 10 feet
	3—Any building or portion of a building having an assembly room with an occupant load of less than 300 without a stage, including such buildings used for educational purposes and not classed as a Group E or Group B, Division 2 Occupancy	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 20 feet
		2	2 hour less than 5 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 10 feet
		3	2 hour less than 5 feet 1 hour less than 10 feet	
	4—Stadiums, reviewing stands, and amusement park structures not included within Group A-1 nor Divisions 2, 2.1 and 3, Group A Occupancies	1	2 hour less than 20 feet 1 hour elsewhere	Protected less than 20 feet
		2	1 hour	Protected less than 10 feet
3		1 hour less than 10 feet		

NOTES: (1) See Section 504 for type of walls affected and requirements covering percentage of openings permitted in exterior walls.
 (2) For additional restrictions see Chapters under Occupancy, Fire Zones, and Types of Construction.
 (3) For walls facing streets, yards and public ways, see Part V.
 (4) Openings shall be protected by a fire assembly having a three-fourths-hour fire-protection rating.

TABLE NO. 5-A—Continued
TYPES II ONE-HOUR, II-N AND V ONLY

E See also Section 802	1—Any building used for educational purposes through the 12th grade by 50 or more persons for more than 12 hours per week or four hours in any one day	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 20 feet
	2—Any building used for educational purposes through the 12th grade by less than 50 persons for more than 12 hours per week or four hours in any one day	2	2 hour less than 10 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 10 feet
	3—Any building used for day care purposes for more than 6 children	3	2 hour less than 5 feet 1 hour less than 10 feet	
I See also Section 902	1—Nurseries for full-time care of children under kindergarten age. Hospitals, sanitariums, nursing homes with nonambulatory patients, and similar buildings (each accommodating more than five persons)	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 20 feet
		2 and 3	2 hour less than 5 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 10 feet
	2—Nursing homes for ambulatory patients, homes for children of kindergarten age or over (each accommodating more than five persons)	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 3 feet Protected less than 20 feet
		2 and 3	1 hour	Not permitted less than 3 feet Protected less than 10 feet
3—Mental hospitals, mental sanitariums, jails, prisons, reformatories, houses of correction, and buildings where personal liberties of inmates are similarly restrained		Permitted in Type I and II-F.R. Buildings only [See Section 602 (b)]		

*Group E, Divisions 2 and 3 Occupancies having an occupant load of not more than 20 may have exterior wall and opening protection as required for Group R, Division 3 Occupancies.

TABLE NO. 5-A—Continued
TYPES II ONE-HOUR, II-N AND V ONLY

GROUP	DESCRIPTION OF OCCUPANCY	FIRE ZONE	FIRE RESISTANCE OF EXTERIOR WALLS	OPENINGS IN EXTERIOR WALLS
H See also Section 1002	1—Storage and handling of hazardous and highly inflammable or explosive materials other than flammable liquids	3	4 hour less than 5 feet 2 hour less than 10 feet 1 hour less than 20 feet	Not permitted less than 5 feet Protected less than 20 feet
	2—Storage and handling of Class I, II and III flammable liquids as specified in U.B.C. Standard No. 10-1, dry cleaning plants using flammable liquids, paint stores with bulk handling, paint shops and spray painting rooms and shops	1	4 hour less than 20 feet 1 hour elsewhere	
	3—Woodworking establishments, planing mills, box factories, buffing rooms for tire rebuilding plants and picking rooms; shops, factories or warehouses where loose combustible fibers or dust are manufactured, processed, generated or stored and pin finishing rooms.	2	4 hour less than 5 feet 2 hour less than 10 feet 1 hour elsewhere	
	4—Repair garages	3	4 hour less than 5 feet 2 hour less than 10 feet 1 hour less than 20 feet	
	5—Aircraft repair hangars		Not permitted in Fire Zones Nos. 1 and 2 except as set forth in Sections 1602 (c) and 1603 (c).	
		3	1 hour less than 60 feet	Protected less than 60 feet
B See also Section 1102	1—Gasoline and service stations, storage garages where no repair work is done except exchange of parts and maintenance requiring no open flame, welding, or the use of highly flammable liquids 2—Wholesale and retail stores, office buildings, drinking and dining establishments having an occupant load of less than 50, printing plants, municipal police and fire stations, factories and workshops using material not highly flammable or combustible, storage and sales rooms for combustible goods, paint stores without bulk handling	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 20 feet
		2	1 hour	
		3	1 hour less than 10 feet	Not permitted less than 5 feet Protected less than 10 feet
		3	1 hour less than 60 feet	Protected less than 60 feet

TABLE NO. 5-A—Continued

	3—Aircraft hangars where no repair work is done except exchange of parts and maintenance requiring no open flame, welding, or the use of highly flammable liquids	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 5 feet Protected less than 20 feet
		2	1 hour	
		3	1 hour less than 20 feet	
B-4	Ice plants, power plants, pumping plants, cold storage, and creameries, factories and workshops using noncombustible and non-explosive materials. Storage and sales rooms of noncombustible and nonexplosive materials	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 3 feet Protected less than 20 feet
		2	1 hour	Not permitted less than 3 feet Protected less than 10 feet
		3	1 hour less than 3 feet	Not permitted less than 3 feet
R See also Section 1302	1—Hotels and apartment houses	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 3 feet Protected less than 20 feet
		2	1 hour	Not permitted less than 3 feet Protected less than 10 feet
		3	1 hour less than 5 feet	Not permitted less than 3 feet Protected less than 5 feet
	Convents and monasteries (each accommodating more than 10 persons)			

(Continued)

**TABLE NO. 5-A—Continued
TYPES II ONE-HOUR, II-N AND V ONLY**

GROUP	DESCRIPTION OF OCCUPANCY	FIRE ZONE	FIRE RESISTANCE OF EXTERIOR WALLS	OPENINGS IN EXTERIOR WALLS
R	3—Dwellings and lodging houses	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 3 feet Protected less than 20 feet
		2	1 hour	Not permitted less than 3 feet Protected less than 10 feet
		3	1 hour less than 3 feet	Not permitted less than 3 feet
M ¹	1—Private garages, carports, sheds and agricultural buildings used as accessories only when not over 1000 square feet in area	1	2 hour less than 20 feet 1 hour elsewhere	Not permitted less than 3 feet Protected less than 20 feet
		2	1 hour	Not permitted less than 3 feet Protected less than 10 feet
		3	1 hour less than 3 feet (or may be protected on the exterior with materials approved for 1 hour fire-resistive construction)	Not permitted less than 3 feet
	2—Fences over 6 feet high, tanks and towers	1	Noncombustible construction not regulated Combustible construction not permitted	
		2	Noncombustible construction not regulated Combustible construction to be 1-hour fire-resistive	
		3	Not regulated	

¹For agricultural buildings see Appendix, Chapter 15.

THE

FOLLOWING

DOCUMENT

IS THE BEST

COPY

AVAILABLE

FOR

FILMING

SEC. 91.02.1101 SECTION 1101 OF THE UNIFORM BUILDING CODE AMENDED

Section 1101. Group B, Division 1, 2, and 3 Occupancies shall be:

Division 1. Gasoline service stations, storage garages where no repair work is done except exchange of parts and maintenance requiring no open flame, welding or the use of highly flammable liquids.

Division 2. Wholesale and retail stores, office buildings, drinking and dining establishments having an open occupant load of less than 50, printing plants, municipal police and fire stations, factories and workshops using materials not highly flammable or combustible, storage and sales rooms for combustible goods, paint stores without bulk handling. (See Section 402 for definition of Assembly Buildings.)

Buildings or portions of buildings having rooms used for educational purposes beyond the 12th grade with less than 50 occupants in any room.

Division 3. Aircraft hangers where no repair work is done except exchange of parts and maintenance requiring no open flame, welding, or the use of highly flammable liquids.

Open parking garages.

Heliports.

For occupancy separations see Table No. 5-B.

For occupant load see Section 3301.

SEC. 91.02.1105 SECTION 1105 OF THE UNIFORM BUILDING CODE AMENDED

Section 1105. All portions of Group B, Division 1, 2 and 3 Occupancies, shall be provided with natural light by means of exterior glazed openings with an area equal to one-tenth of the total floor area, and natural ventilation by means of exterior openings with an area not less than one-twentieth of the total floor area or shall be provided with artificial light and a mechanically operated ventilating system as specified in Section 305.

In all buildings or portions thereof where flammable liquids are used, exhaust ventilation shall be provided, sufficient to produce four air changes per hour. Such exhaust ventilation shall be taken from a point at or near the floor level.

In all enclosed parking garages, used for storing or handling of automobiles operating under their own power and on all loading platforms in bus terminals, ventilation shall be provided capable of exhausting a minimum of 1.5 cfm per square foot of gross floor area. The Building Official may approve an alternate ventilation system designed to exhaust a minimum of 14,000 cfm for each operating vehicle. Such system shall be based upon the anticipated instantaneous movement rate of vehicles but not less than 2.5 percent (or one vehicle) of the garage capacity. A separate source of electrical supply shall be provided to operate any required mechanical ventilating system. Automatic CO sensing devices may be employed to modulate the ventilation system to maintain a maximum average concentration of CO of 50 ppm during any eight hour period, with a maximum concentration not greater than 200 ppm for a period not exceeding one hour. Connecting offices, waiting rooms, ticket booths, etc., shall be supplied with conditioned air under positive pressure.

EXCEPTION: In gasoline service stations without lubrication pits, storage garages and aircraft hangars not exceeding an area of 5000 square feet, the Building Official may authorize the omission of such ventilating equipment where, in his opinion, the building is supplied with unobstructed openings to the outer air which are sufficient to provide the necessary ventilation.

Every building or portion thereof where persons are employed shall be provided with at least one water closet. Separate facilities shall be provided for each sex when the number of employees exceeds four and both sexes are employed. Such toilet facilities shall be located either in such building or conveniently in a building adjacent thereto on the same property.

Such water closet rooms in connection with food establishments where food is prepared, stored, or served, shall have a nonabsorbent interior finish on floors, walls, and ceilings and shall have hand washing facilities therein or adjacent thereto.

All water closets shall be provided with an exterior window at least 3 square feet in area, fully openable; or a vertical duct not less than 100 square inches in area for the first toilet facility with an additional 50 square inches for each additional toilet facility; or a mechanically operated exhaust system, which is connected to the light switch, capable (or) providing a complete change of air every 15 minutes. Such systems shall be vented to the outside air and at the point of discharge shall be at least 5 feet from any openable window.

For other requirements on water closets, see Section 1711.

SEC. 91.02.1302 SECTION 1302 (b) OF THE UNIFORM BUILDING CODE AMENDED

(b) Special Provisions. Group R, Division I Occupancies, more than two stories in height or having more than 3000 square feet of floor area above the first story, shall be not less than one-hour fire-resistive construction throughout.

EXCEPTION: Dwelling units within an apartment house not over two stories in height may have nonbearing walls of unprotected construction, provided the units are separated from each other and from corridors by construction having a fire-resistance rating of not less than one hour. Openings to such corridors shall be equipped with doors conforming to Section 3304(h) or other equivalent protection.

Every apartment house three stories or more in height or containing more than 15 apartments and every hotel three stories or more in height or containing 20 more more guest rooms, shall have an approved fire alarm system as specified in the Fire Code.

For Group R, Division I Occupancies with a Group B, Division I parking garage in the basement or first floor, see Section 1102(a).

For attic space partitions and draft stops see Section 3205.

SEC. 91.02.1304 SECTION 1304 OF THE UNIFORM BUILDING CODE AMENDED

Section 1304. Stairs, exits, and smokeproof enclosures shall be as specified in Chapter 33.

All stairs and exits in Group R, Division I Occupancies shall open directly upon a street or alley or upon a yard or court not less than 4 feet in width directly connected to a street or alley by means of a passageway not less in width than the stairway opening into such passageway and not less than 7 feet in height.

Buildings more than one story in height shall have no transoms or ventilating openings from guest rooms to public corridors.

Door openings from guest rooms to public corridors shall be protected as specified in Section 3304.

Every sleeping room below the fourth story shall have at least one operable window or exterior door approved for emergency egress or rescue. The units shall be operable from the inside to provide a full clear opening without the use of separate tools.

All egress or rescue windows from sleeping rooms shall have a minimum net clear opening of 5.7 square feet. The minimum net clear opening height dimension shall be 24 inches. The minimum net clear opening width dimension shall be 20 inches. Where windows are provided as a means of egress or rescue they shall have a finished sill height not more than 44 inches above the floor.

In single family dwelling units, not exceeding two stories in height, egress windows from sleeping rooms may be omitted when an additional doorway or an approved exit escape hatch is provided for egress from such rooms. The doorways provided shall open directly to the exterior of the building or shall open onto

corridors or passageways which lead to individual exterior exits. The corridors or passageways provided shall not cross nor shall they follow the same route in whole or in part to the building exterior.

Approved exit escape hatches shall be installed in accordance with the terms of their approval.

SEC. 91.02.1404 SECTION 1404 OF THE UNIFORM BUILDING CODE AMENDED

Section 1404. Stairs and exits shall be provided as specified in Chapter 33. Every sleeping room below the fourth story shall have at least one operable window or exterior door approved for emergency egress or rescue. The units shall be operable from the inside to provide a full clear opening without the use of separate tools.

Also egress or rescue windows from sleeping rooms shall have a minimum net clear opening of 5.7 square feet. The minimum net clear opening width dimension shall be 20 inches. Where windows are provided as a means of egress or rescue they shall have a finished sill height not more than 44 inches above the floor.

In single family dwelling units, not exceeding two stories in height, egress windows from sleeping rooms may be omitted when an additional doorway or an approved exit escape hatch is provided for egress from such rooms. The doorways provided shall open directly to the exterior of the building or shall open onto corridors or passageways which lead to individual exterior exits. The corridors or passageways provided shall not cross nor shall they follow the same route in whole or in part to the building exterior.

Approved exit escape hatches shall be installed in accordance with the terms of their approval.

SEC. 91.02.1502 SECTION 1502(a) OF THE UNIFORM BUILDING CODE AMENDED

Section 1502. (a) General. Buildings or parts of buildings classed in Group M, Division 1 because of the use or character of the occupancy shall not exceed 1000 square feet in area or one story in height except as provided in this section. Any building or portion thereof that exceeds the limit specified in this chapter shall be classed in the occupancy group other than Group M, Division 1, that it most nearly resembles.

EXCEPTION: Agricultural and nursery shade structures used only for protection of live plants and vegetation, when covered with noncombustible or plasticized material which is inherently flame retardant and which is approved for external use, may exceed 1000 square feet in area.

For a mixed occupancy building, the total area of private garages used exclusively for the parking of passenger motor vehicles having a capacity of not more than nine persons per vehicle may be 3000 square feet providing the exterior wall and opening protection are as required for the major occupancy of the building. The allowable floor area of the building shall be as permitted for the major occupancy of the building. Each portion of a building separated as specified in Section 505 may be considered a separate building. Such increase in area may apply to a single occupancy building providing the use of the building is as specified and the exterior wall and opening protection are as required for a Group R-1 Occupancy building.

SEC. 91.02.1709 SECTION 1709(a) OF THE UNIFORM BUILDING CODE AMENDED

Section 1709(a). General. Parapets shall be provided on all exterior walls of buildings, except as follows:

1. Walls not required to be of fire-resistive construction.
2. Walls which terminate at roofs of not less than two-hour fire-resistive construction or roofs constructed entirely of noncombustible material.
3. Walls where unprotected openings are permitted.
4. Walls on buildings having a floor area of not more than 1,000 square feet per floor.
5. Walls on buildings of Groups R-1, R-3 or M Occupancy not more than 25 feet in height and provided with a fire-retardant roof.

SEC. 91.02.1717 SECTION 1717 OF THE UNIFORM BUILDING CODE ADDED

SECTION 1717. FOAM PLASTICS

Section 1717.(a) Smoke Density. Foam plastic shall comply with the smoke density requirements of Section 5202.

(b) Interior Finish. Foam plastics shall not be used as interior finish except as provided in this section.

EXCEPTION: Decorative beams may be used on ceilings only and be covered with foam plastic provided:

- (1) The beams are spaced no closer than 48" o.c.
- (2) The maximum thickness of any plane of the foam plastic in the beam shall not exceed 1/2".
- (3) The width or depth of a beam does not exceed 8 inches.
- (4) The flamespread rating of the foam plastic does not exceed 25.
- (5) The beams serve a decorative purpose only and are not permitted to incorporate any electrical, mechanical or plumbing facilities.

(c) Specific Requirements. The following requirements shall apply to all uses of foam plastics in or on the walls, ceilings or both, or in attics, crawl-spaces, or similar areas unless otherwise specifically approved. Such approval shall be based on approved diversified tests such as, but not limited to, tunnel tests conducted in accordance with U.B.C. Standard No. 42-1, corner tests, and an ignition temperature test in accordance with U.B.C. Standard No. 52-3. No foam plastic shall have a flamespread rating in excess of 75 or a smoke developed rating of more than 450.

- (1) Foam plastics may be used in the following locations:
 - (A) Within the cavity of a masonry or concrete wall regardless of the type of construction.
 - (B) On the room side surface of conforming walls or ceilings or other surface on the interior of the building, provided the foam plastic is fully protected from the interior of the building by a thermal barrier such as 1/2 inch gypsum wall-board having a finish rating of not less than 15 minutes,

as determined by U.B.C. Standard No. 43-1, or other approved materials having an equivalent finish rating. Thermal barriers shall be installed in a manner that will assure they will remain in place for a minimum of 15 minutes under the same test conditions.

- (C) As interior trim materials.
 - (D) Within the wall cavity of combustible non fire-resistive wall construction provided the protection is applied as described in Subsection 1717(c)(1)(B). (The presence of plastic foam within the wall makes it a combustible wall).
 - (E) Within the cavity of walls classified as combustible fire-resistive construction provided fire tests are conducted in accordance with U.B.C. Standards No. 43-1 and the protection from the interior of the building is at least equivalent to that required in Subsection 1717(c)(1)(B). (The presence of plastic foam within the wall makes it a combustible wall).
- (2) Foam plastics insulation having a flamespread of 25 or less may be used in a thickness of not more than 4 inches in or on walls when the foam plastic is covered by a metal facing of not less than 0.032 inch aluminum or 26 gauge corrosion-resistant sheet metal and the insulated room, rooms or areas are protected with an approved automatic sprinkler system installed in conformity with U.B.C. Standard No. 38-1. Such walls shall not be used where noncombustible or fire-resistive construction is required.
 - (3) Foam plastics may be used as a roof covering if the foam plastic is a part of a Class A, B, or C roofing assembly complying with U.B.C. Standard No. 32-7. That plastic foam which is nearest the interior of the building shall be protected by an approved thermal barrier.

NOTE: The above subsection (c)(3) is interpreted to mean that foam plastic is only permitted if it has been tested as an integral part of a Class A, B or C roofing assembly.

- (4) Where doors are permitted without a fire-resistive rating, foam plastic having a flamespread rating of 25 or less may be used as a core material when the door facing is of metal having a minimum thickness of 0.032 inches of aluminum or 20 gauge sheet metal. Doors which have been tested and approved for fire resistance having foam plastic cores are acceptable.
- (5) Foam plastics may be used as sheathing or a component of sheathing where combustible non-fire rated wall and ceiling construction is permitted provided the foam plastic has a flamespread of 75 or less and:
 - (A) The protection is applied as described in Subsection 1717(c)(1)(B), or
 - (B) The foam plastic sheathing is 3/8" or less in thickness and is separated from the conforming interior surface by a minimum of 2 inches of mineral fiber insulation, or an equivalent thermal barrier, installed between structural members.
- (6) Foam plastics may be used as sheathing or a component of sheathing where combustible fire rated construction is required provided the plastic has a flamespread of 75 or less and:

- (A) Fire protection is applied as described in Subsection 1717(c)(1)(B), and
 - (B) Fire tests are conducted in accordance with U.B.C. Standard No. 43-1.
- (7) Foam plastics insulation having a flame spread of 75 or less when tested in a thickness of 4 inches may be used in thickness up to 10 inches for use in cold storage rooms, food processing rooms, ice plants and similar rooms when the room is protected with automatic fire-extinguishing system and the insulation is protected from the interior of the building by a thermal barrier of portland cement plaster having a 15-minute finish rating, or other approved material having an equivalent finish rating as determined by U.B.C. Standard No. 43-1. Thermal barriers shall be installed in a manner that will assure they remain in place for 15 minutes.

SEC. 91.02.2505 SECTION 2505 OF THE UNIFORM BUILDING CODE AMENDED

Section 2505. All lumber, plywood, particleboard, structural glued-laminated timber, end jointed lumber, fiberboard sheathing (when used structurally), piles and poles regulated by this Chapter shall conform to the applicable standards or grading rules specified in this Code and shall be so identified by the grade mark or a Certification of Inspection issued by an approved agency.

EXCEPTION: Short framing members such as cripples, headers, blocking, fire stopping, and similar members need not have an identifying grade mark provided it can be shown that members were cut from properly graded material.

All presently treated lumber and plywood shall be identified by the Quality mark of an approved inspection agency in accordance with UBC Standard No. 25-12.

All chord and web members of fabricated trusses shall be identified by the grade mark or a Certificate of Inspection issued by an approved agency except that web members not over 48 inches in length need not be so identified.

SEC. 91.02. TABLE 25-C-1 TABLE 25-C-1 OF THE UNIFORM BUILDING CODE AMENDED

TABLE NO. 25-C-1
PART A—ALLOWABLE UNIT STRESSES FOR STRUCTURAL GLUED-LAMINATED SOFTWOOD
TIMBER FOR NORMAL LOADING DURATION—VISUALLY GRADED

COMBINATION SYMBOL 1	NUMBER OF LAMINATIONS 2	ALLOWABLE UNIT STRESSES IN POUNDS PER SQUARE INCH							
		EXTREME FIBER IN BENDING (F _b)'		TENSION PARALLEL TO GRAIN (F _t) 5	COMPRESSION PARALLEL TO GRAIN (F _c) 6	HORIZONTAL SHEAR (F _v) WHEN LOADED:		COMPRESSION PERPENDICULAR TO GRAIN (F _{c⊥}) 9	MODULUS OF ELASTICITY (E) 10
		Load Parallel to Wide Face of Laminations 3	Load Perpendicular to Wide Face of Laminations 4			Parallel to Wide Face 7	Perpendicular to Wide Face 8		
DRY CONDITIONS OF USE'									
Douglas Fir and Western Larch'									
16F'	4 or more	—	1600	900	1500	—	165	385	1,600,000
18F'	4 or more	—	1800	900	1500	—	165	385	1,700,000
20F'	4 or more	—	2000	1000	1500	—	165	385'	1,700,000
22F'	4 or more	—	2200	1000	1500	—	165	385'	1,800,000
24F'	4 or more	—	2400	1000	1500	—	165	385'	1,800,000
1'	4 or more'	900	1200	900	1500	145	165	385	1,600,000
2'	4 or more'	1500	1800	1300	1800	145	165	385	1,800,000
3'	4 or more'	1900	2200	1400	2100	145	165	450	1,900,000
4'	4 or more'	2100	2400	1500	2000	145	165	410	2,000,000
5'	4 or more'	2400	2600	1600	2200	145	165	450	2,100,000
DRY CONDITIONS OF USE'									
DOUGLAS FIR AND WESTERN LARCH OUTER LAMINATIONS AND WESTERN WOODS INNER LAMINATIONS'									
16F'	11 or more	—	1600	1300	1200	—	145	385'	1,500,000
20F'	12 or more	—	2000	1350	1250	—	145	450	1,700,000
24F'	12 or more	—	2400	1400	1300	—	145	450	1,800,000
1'	4 or more	525	—	—	—	—	—	—	1,000,000

TABLE NO. 25-C-1—(Continued)
PART A—ALLOWABLE UNIT STRESSES FOR STRUCTURAL GLUED-LAMINATED SOFTWOOD
TIMBER FOR NORMAL LOADING DURATION—VISUALLY GRADED

COMBINATION SYMBOL 1	NUMBER OF LAMINATIONS 2	ALLOWABLE UNIT STRESSES IN POUNDS PER SQUARE INCH								
		EXTREME FIBER IN BENDING (F _b)'		TENSION PARALLEL TO GRAIN (F _t) 5	COMPRESSION PARALLEL TO GRAIN (F _c) 6	HORIZONTAL SHEAR (F _v) WHEN LOADED:		COMPRESSION PERPENDICULAR TO GRAIN (F _{c⊥}) 9	MODULUS OF ELASTICITY (E) 10	
		Load Parallel to Wide Face of Laminations 3	Load Perpendicular to Wide Face of Laminations 4			Parallel to Wide Face 7	Perpendicular to Wide Face 8			
DRY CONDITIONS OF USE'										
Southern Pine'										
16F	1'	5 to 13	—	1,600	800	700	—	140	385	1,500,000
	2'	14 or more	—	1,600	800	700	—	140	385	1,500,000
18F	1'	4 or more	—	1,800	900	1,500	—	200	385	1,600,000
	2'	12 or more	—	1,800	900	1,500	—	200	385	1,600,000
20F	1'	8 or more	—	2,000	1000	1,500	—	200	385	1,700,000
	2'	7 or more	—	2,000	1000	1,500	—	200	450	1,700,000
	3'	4 to 15	—	2,000	800	700	—	140	385	1,600,000
	4'	16 or more	—	2,000	800	700	—	140	385	1,600,000
22F	1'	4 or more	—	2,200	1000	1,500	—	200	450	1,700,000
	2'	12 or more	—	2,200	1000	1,500	—	200	385	1,700,000
	3'	14 or more	—	2,200	1000	1,500	—	200	385	1,700,000
24F	1'	10 or more	—	2,400	1000	1,500	—	200	385	1,800,000
	2'	4 or more	—	2,400	1000	1,500	—	200	450	1,800,000
	3'	14 or more	—	2,400	1000	1,500	—	200	450	1,800,000
	4'	12 or more	—	2,400	1000	1,000	—	140	385	1,700,000

DRY CONDITIONS OF USE*									
Southern Pine†									
1"	4 or more*	900	1100	900	1400	165	200	365	1,400,000
2"	4 or more*	1350	1800	1200	1900	165	200	385	1,700,000
3"	4 or more*	1800	2100	1400	2200	165	200	450	1,500,000
4"	4 or more*	1900	2400	1400	2100	165	200	385	1,500,000
5"	4 or more*	2200	2600	1600	2200	165	200	450	2,000,000
6"	4 or more*	600	950	300	700	115	140	255	1,200,000
7"	4 or more*	1000	900	600	1000	115	140	255	1,200,000
California Redwood†									
16F†	4 or more	—	1600	1300	1600	—	125	325	1,400,000
22F 2"	4 or more	—	2200	1800	2000	—	125	325	1,400,000
	4 or more	—	2200	1800	2000	—	125	325	1,400,000
	4 or more	—	2300	1800	2200	—	125	325	1,400,000
1"	4 or more*	1000	1400	1100	1800	115	125	325	1,300,000
2"	4 or more*	1000	1400	1100	1800	115	125	325	1,300,000
3"	4 or more*	1400	2000	1600	2000	125	125	325	1,400,000
4"	4 or more*	2200	2200	1800	2200	125	125	325	1,400,000
5"	4 or more*	2200	2200	1800	2200	125	125	325	1,400,000
Hem-Fir†									
18F†	4 to 8	—	1800	1300	1250	—	155	245	1,600,000
	9 or more	—	1800	1300	1250	—	155	245	1,600,000
20F†	4 or 8	—	2000	1300	1250	—	155	245	1,600,000
	9 or more	—	2000	1300	1250	—	155	245	1,600,000
24F†	4 to 8	—	2400	1300	1250	—	155	245	1,700,000
	9 or more	—	2400	1300	1250	—	155	245	1,700,000
1"	4 or more*	700	1000	800	1250	125	155	245	1,300,000
2"	4 or more*	1200	1400	1150	1500	125	155	245	1,400,000
3"	4 or more*	1350	1800	1450	1550	125	155	245	1,600,000
4"	4 or more*	1800	2400	1700	1900	125	155	245	1,700,000

FOOTNOTES FOR TABLE NO. 25-C-1

- *Unit stresses for bending members are based on a depth of members of 12 inches or less. For members greater than 12 inches in depth, the size effect factor is applicable.
- †Allowable stresses for dry conditions of use shall be applicable when the moisture content in service is 16 percent or less as in most covered structures. For wet conditions of use the following maximum percentage of the dry use stresses shall be permitted:
 F_b (Bending) and F_t (Tension) 80 percent
 F_c (Compression Parallel to Grain) 73 percent
 E (Modulus of Elasticity) 83 percent
 F_v (Horizontal Shear) 88 percent
 $F_{c \perp}$ (Compression Perpendicular to Grain) 67 percent
- ‡For more details, see U. B. C. Standards No. 25-10 and No. 25-11
- §For members stressed principally in bending: load applied perpendicular to the wide face of the laminations.
- ¶For combinations using an L1-C or an L2-D for outer tension and compression laminations, allowable stress for compression perpendicular to grain is as follows: L1-C, 410 psi; L2-D, 450 psi.
- ||Values shown are for compression face. Allowable stress for compression perpendicular to the grain for the tension face is 430 psi.
- |||For members stressed principally in axial tension, axial compression or in bending with load applied parallel to the wide face of the laminations.
- ||||Allowable stresses shown for extreme fiber in bending and horizontal shear when loaded parallel to wide face of lamination and for compression perpendicular to grain are applicable to members containing three or more laminations.
- |||||The values listed for this combination are to be used in calculating allowable bending stresses and moduli of elasticity for combinations above containing Western woods cores when loaded parallel to the wide face of the laminations. Values for Douglas Fir and Western larch for this combination can be obtained from combinations 1, 2, 3, 4, and 5 under Douglas fir and Western larch.

PART B—ALLOWABLE STRESS INCREASES FOR TENSION PARALLEL TO GRAIN AND COMPRESSION PARALLEL TO GRAIN. VALUES SHOWN FOR BENDING MEMBER COMBINATIONS IN PART A WHEN MORE RESTRICTIVE SLOPE OF GRAIN REQUIREMENTS AS INDICATED ARE SATISFIED BY ALL LAMINATIONS

Douglas Fir and Western Larch					
COMBINATION SYMBOL	TENSION PARALLEL TO GRAIN		COMPRESSION PARALLEL TO GRAIN		
	SLOPE OF GRAIN	ALLOWABLE STRESS INCREASE (per cent)	SLOPE OF GRAIN	ALLOWABLE STRESS INCREASE (per cent)	
				10 or Less Laminations	11 or More Laminations
22F	1:14	6	1:12	15	
24F	1:14	19	1:12	20	

Southern Pine				
COMBINATION SYMBOL	TENSION PARALLEL TO GRAIN		COMPRESSION PARALLEL TO GRAIN	
	Slope of Grain	Allowable Stress Increase (per cent)	Slope of Grain	Allowable Stress Increase (per cent)
18F (1)	—	—	1:14	20
18F (2)	—	—	1:12	20
20F (1)	—	—	1:14	26
20F (2)	—	—	1:14	26
22F (1) & 22F (3)	1:14	6	1:14	26
22F (2)	1:12	6	1:15	33
24F (1) & 24F (2)	1:16	19	1:15	33
24F (3)	1:12	19	1:15	33

SEC. 91.02.2611 SECTION 2611(q) OF THE UNIFORM BUILDING CODE AMENDED
 Section 2611(q) Special Provision for Walls. Design for horizontal shear forces in the plane of the wall shall be in accordance with this Section. Walls used to resist seismic forces shall also conform to Section 2627.

The nominal shear stress, V_u , shall be computed by

$$v_u = \frac{V_u}{\phi h d} \dots \dots \dots (11-31)$$

where d shall be taken equal to $0.81 \ell_w$. A larger value of d , equal to the distance from the extreme compression fiber to the center of forces of all reinforcement in tension, may be used when determined by a strain compatibility analysis.

The shear stress carried by the concrete, V_c , shall not be taken greater than the lesser value computed from

$$v_c = 3.3\sqrt{f'_c} + \frac{N_u}{4l_w h} \dots \dots \dots (11-32)$$

and

$$v_c = 0.6\sqrt{f'_c} + \frac{l_w \left(1.25\sqrt{f'_c} + 0.2 \frac{N_u}{l_w h} \right)}{\frac{M_u}{V_u} - \frac{l_w}{2}} \dots \dots \dots (11-33)$$

where N_u is negative for tension. When $M_u/V_u - (\ell_w/2)$ is less than zero, Formula (11-33) shall not apply.

EXCEPTION: N_u when in compression shall be taken as zero for buildings located in Seismic Zones No. 3 and No. 4 when considering earthquake loads.

However, V_c may be taken as $2\sqrt{f'_c}$ if N_u is compression or Section 2611(e)4 may be applied if N_u is tension.

Sections located closer to the base than a distance $\ell_w/2$ or one-half of the wall height, whichever is less, may be designed for the same V_c as that computed at a distance $\ell_w/2$ or one-half the height.

When V_u is less than $V_c/2$, reinforcement shall be provided in accordance with the provisions below or in accordance with Section 2614. When V_u exceeds $V_c/2$, wall reinforcement for resisting shear shall conform to the following.

The area of horizontal shear reinforcement shall be not less than that computed by Formula (11-13). The ratio, ρ_h , of horizontal shear reinforcement

area to the gross concrete area of vertical sections shall be at least 0.0025. The spacing of horizontal shear reinforcement shall not exceed $\ell_w/5$, $3h$, nor 18 inches.

The ratio of vertical shear reinforcement area to gross concrete area of horizontal section shall be not less than

$$\rho_v = 0.0025 + 0.5 \left(2.5 - \frac{h_w}{\ell_w} \right) (\rho_h - 0.0025) \dots\dots(11-34)$$

nor 0.0025, but need not be greater than the value of ρ_h required by the preceding paragraph. The spacing of vertical shear reinforcement shall not exceed $\ell_w/3$, $3h$, nor 18 inches.

The total design shear stress, V_u , at any section shall not exceed $10\sqrt{f'_c}$. The average horizontal shear stress, V_u , for all piers resisting a common seismic force component shall not exceed $8\sqrt{f'_c}$.

Design for shear forces perpendicular to the face of the wall shall be in accordance with provisions for slabs in Section 2611(k).

SEC. 91.02.3203 SECTION 3203(d)6 ADDED TO THE UNIFORM BUILDING CODE

Section 3203(d) 6. Reroofing. The minimum built-up reroofing shall be not less than that for new construction or an approved system. The base sheet shall be nailed unless the deck is nonnailable.

Existing roofing on nonnailable roof decks shall be completely removed prior to the application of a new roof. Nonnailable roof deck shall be cleaned thoroughly to provide sufficient attachment of new roof system.

Existing gravel roofs shall be scraped off and roof swept broom clean. Existing gravel stops shall be removed and new gravel stops reinstalled over base sheets. Except where roofing will be shingles, the gravel stop should be replaced with new metal drip edge.

Staples may not be used for the attachment of reroofing unless the existing roofing is completely removed.

SEC. 91.02.3305 SECTION 3305(j) OF THE UNIFORM BUILDING CODE AMENDED

SECTION 3305(i) OF THE UNIFORM BUILDING CODE AMENDED

Section 3305(j) Handrails. Stairways shall have handrails on each side, and each stairway required to be more than 88 inches for each 88 inches of required width. Intermediate handrails shall be spaced approximately equal within the entire width of the stairway.

Handrails shall be placed not less than 30 inches nor more than 34 inches above the nosing of threads. They shall be continuous the full length of the stairs and except for private stairways at least one handrail shall extend not less than 6 inches beyond the top and bottom risers. Ends shall be returned or shall terminate in newell posts or safety terminals.

EXCEPTION: (1) Stairways 44 inches or less in width and stairways serving dwelling unit in Group R, Division 1 or 3 Occupancies may have one handrail, except that such stairways open on one or both sides shall have handrails provided on open side or sides.

(2) Handrails need not be provided on stairways 30 inches or less in height which serve one individual dwelling unit.

Handrails projecting from a wall shall have a space of not less than 1½ inches between the wall and the handrail.

Section 3305 (i). Exterior stairway protection. All openings in the exterior walls of a building, below or within ten feet measured horizontally of an exterior exit stairway shall be protected by a self-closing or automatically-closing fire

assembly, having a 3/4 hour fire-resistive rating.

- EXCEPTION: 1. Protected openings shall not be required adjacent to stairways in which the distance from the top of the stairway to grade at the foot of the stairway does not exceed 16 feet in vertical projection.
2. Openings may be unprotected when two separate exterior stairways serve an exterior exit balcony.

SEC. 91.02.3312 SECTION 3312(b) AND SECTION 3312(c) OF THE UNIFORM BUILDING CODE AMENDED

Section 3312(b). Exit signs. Any sign required by this Code shall be a noncombustible, internally illuminated sign. The word "exit" shall be lettered in green on a white or opaque background, and the letters shall be at least six inches in height with the principal strokes of the letter 3/4 inch in width.

At the required exit doorway, and wherever otherwise required to clearly indicate the direction of egress, an exit sign shall be provided for all areas serving the occupant load specified in this subsection. In interior stairways the floor level leading directly to the exterior shall be clearly indicated.

1. Group A, Division 1 Occupancies and Group A, Divisions 2, 2.1, 3 and 4, 1 and R, Division 1 Occupancies with an occupancy load of more than 50.

2. All other occupancies serving an occupancy load of more than 100.

EXCEPTION: Main exterior exit doors which obviously and clearly are identifiable as exits need not be sign-posted when approved by the Building Official.

Section 3312(c). Illumination of Signs. Exit signs shall be lighted with two electric lamps producing illumination of not less than 125 lumens each. Separate circuits, one of which shall be separated from all other circuits in the building and independently controlled, shall be provided to serve exit signs and exit illumination. One circuit shall be an emergency circuit.

Two separate sources of supply shall be provided for the following occupancies:

A. Group A, Division 1 Occupancies

B. Division 2 and 2.1 of Group A Occupancies with an occupant load over 500 persons, except churches with an occupant load of less than 750 persons.

C. Group 1 Occupancies with an occupant load over 100 persons.

SEC. 91.02.3603 SECTION 3603 ADDED TO THE UNIFORM BUILDING CODE

Section 3603 Cooling Towers. Cooling towers shall be constructed of non-combustible materials, except that drip bars may be of wood.

EXCEPTION: Cooling towers may be constructed to meet the requirements of Section 3601(d).

SEC. 91.02.4706 SECTION 4706(e) OF THE UNIFORM BUILDING CODE AMENDED

(e) Application of Metal Plaster Bases. The application of metal lath or wire fabric lath shall be as specified in Section 4705(c) and they shall be furred out from vertical supports or backing not less than 1/4 inch except as set forth in footnote No. 2, Table No. 47-8.

Where no external corner reinforcement is used, lath shall be furred out and carried around corners at least one support on frame construction.

A weep screed shall be provided at or below the foundation plate line on all exterior stud walls. The screed shall be placed a minimum of 4 inches above grade and shall be of a type which will allow trapped water to drain to the exterior of the building. The weather-resistive barrier and exterior lath shall cover and terminate on the attachment flange of the screed.

**SEC. 91.02.5401 SECTION 5401(a) AND SECTION 5401(b) OF THE UNIFORM BUILDING CODE
AMENDED**

Section 5401.(a) General. The provisions of this Chapter apply to:

1. Exterior glass and glazing in all occupancies except Groups R and M not over three stories in height.

(b) Standards. Standards for material shall be as specified in this Chapter and U.B.C. Standard No. 54-1.

SEC. 91.0405 SWIMMING AND THERAPEUTIC POOLS - FRONT, SIDE AND REAR YARDS

1. All swimming pools, constructed after the effective date of this section shall be subject to a three-foot rear yard clearance and to the front and side yard requirements of that zone in which they are located as set forth in Chapter X, Article 1 of the San Diego Municipal Code, but in no case shall be located closer than three feet from any front or side property line.

2. All heating, filtering, pumping and accessory equipment, constructed after the effective date of this section shall be subject to a three-foot side and rear yard requirement.

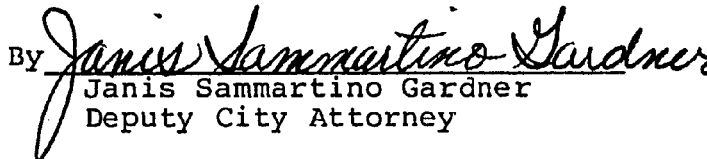
EXCEPTION: All gas fired pool heaters shall be subject to a four-foot minimum side and rear yard requirement.

3. All heating, filtering, pumping and accessory equipment used in connection with a swimming pool, if located entirely below the finished grade of the site and provided with a permanent, durable, protective cover, need not observe the front, side or rear yard requirements.

Section 3. All building permit applications filed with The City of San Diego prior to the effective date of this ordinance shall be exempt from the provisions thereof.

Section 4. This ordinance shall take effect and be in force on the thirtieth day from and after its passage.

APPROVED: JOHN W. WITT, City Attorney

BY 
Janis Sammartino Gardner
Deputy City Attorney

JSG:vl:551
2/26/79
Or. Dept.: Bldg. Insp.

Passed and adopted by the Council of The City of San Diego on _____
by the following vote:

AUG 13 1979

Councilmen	Yeas	Nays	Not Present	Ineligible
Bill Mitchell	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maureen F. O'Connor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bill Lowery	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leon L. Williams	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fred Schnaubelt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tom Gade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Larry Stirling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lucy Killea	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mayor Pete Wilson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

AUTHENTICATED BY:

PETE WILSON

Mayor of The City of San Diego, California.

CHARLES G. ABDELNOUR

City Clerk of The City of San Diego, California.

(Seal)

By Barbara Berridge, Deputy.

I HEREBY CERTIFY that the foregoing ordinance was not finally passed until twelve calendar days had elapsed between the day of its introduction and the day of its final passage, to wit, on

JUL 30 1979

AUG 13 1979

, and on _____

I FURTHER CERTIFY that said ordinance was read in full prior to its final passage.

I FURTHER CERTIFY that the reading of said ordinance in full was dispensed with by a vote of not less than a majority of the members elected to the Council, and that there was available for the consideration of each member of the Council and the public prior to the day of its passage a written or printed copy of said ordinance.

CHARLES G. ABDELNOUR

City Clerk of The City of San Diego, California.

(Seal)

By Barbara Berridge, Deputy.

Office of the City Clerk, San Diego, California

Ordinance Number **15001** Adopted **AUG 13 1979**

ATTORNEY(S)

CERTIFICATE OF PUBLICATION

NO. _____

San Diego, City of
12th Floor, City Admin. Bldg.
202 C Street
San Diego, CA 92101

IN THE MATTER OF

BUILDING AND BUILDING REGULATION

I, Paula J. Santonocito, am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the San Diego Daily Transcript, a newspaper of general circulation, printed and published daily, except Saturdays and Sundays, in the City of San Diego, County of San Diego, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of San Diego, State of California, under the date of January 23, 1909, Decree No. 14894; and the

ORDINANCE NO. 15001
(New Series)
AN ORDINANCE AMENDING CHAPTER IX, ARTICLE 1 OF THE SAN DIEGO MUNICIPAL CODE BY REPEALING SECTIONS 91.02.0603, 91.02.0703, 91.02.0803, 91.02.0903, 91.02.1003, 91.02.1103, 91.02.1203, 91.02.1303, 91.02.2314, 91.02. TABLE 23-1, 91.02.2517, 91.02.2809, 91.02.2827, 91.02.3803, 91.02.3905, 91.02.4903, 91.02.5405, 91.02. TABLE 54-D AND 91.02. TABLE 54-E BY AMENDING SECTIONS 91.01, 91.02.0104, 91.02.0204, 91.02.0301, 91.02.0302, 91.02.0304, 91.02.0404, 91.02.0420, 91.02. TABLE 5-A, 91.02.1101, 91.02.1105, 91.02.1302, 91.02.1304, 91.02.1404, 91.02.1502, 91.02.1709, 91.02.2505, 91.02. TABLE 25-C-1, 91.02.2811, 91.02.3203, 91.02.3305, 91.02.3312, 91.02.3803, 91.02.4706, 91.02.5401 AND 91.0405, AND BY ADDING SECTIONS 91.02 AND 91.02.1717 RELATING TO BUILDING AND BUILDING REGULATION.
Ordinance 79-206 adopts the 1978 Uniform Building Code with certain local amendments. It repeals certain sections of the Municipal Code which have been incorporated into the 1978 Uniform Building Code.
A complete copy of the Ordinance is available for inspection in the Office of the City Clerk of the City of San Diego, 12th Floor, City Administration Building, 202 "C" Street, San Diego, CA 92101.
Introduced on July 30, 1979.
Passed and adopted by the Council of The City of San Diego on August 13, 1979.
AUTENTICATED BY:
PETE WILSON,
Mayor of The City of San Diego, California.
CHARLES G. ABDELNOUR,
City Clerk of The City of San Diego, California.
(SEAL)
By BARBARA BERGHOE,
Deputy.
Published August 27, 1979.

ORDINANCE NO. 15001

is a true and correct copy of which the annexed is a printed copy and was published in said newspaper on the following date(s), to wit:

August 27, 1979

I certify under penalty of perjury that the foregoing is true and correct.

Dated at San Diego, California this 27 day of Aug., 19 79.

Paula J. Santonocito
(Signature)

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