

MINNESOTA RULES 1983

103 AMENDMENTS TO THE UNIFORM BUILDING CODE 1305.0200

CHAPTER 1305 DEPARTMENT OF ADMINISTRATION STATE BUILDING CODE AMENDMENTS TO THE UNIFORM BUILDING CODE

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1305.0100 ADOPTION OF THE UNIFORM BUILDING CODE BY REFERENCE.

Chapters 1 to 60 and appendixes of the 1982 edition of the Uniform Building Code as promulgated by the International Conference of Building Officials, Whittier, California, are incorporated by reference and hereby made part of the State Building Code except as qualified by part 1300.1900. The UBC is amended as follows in parts 1305.0200 to 1305.6900.

Statutory Authority: *MS s 16.85*

1305.0200 SECTIONS 101, 102, AND 103.

UBC Sections 101, 102, and 103 are deleted in their entirety.

Statutory Authority: *MS s 16.85*

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1305.0300 AMENDMENTS TO THE UNIFORM BUILDING CODE

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1305.0300 SECTION 104.

UBC Section 104(a) is amended by changing the last sentence and adding a sentence to read: See Section 1210 for provisions requiring installation of smoke detectors in existing Group R, Division 3 or 4 occupancies. Unsafe conditions as defined in Section 203 shall be abated.

UBC Section 104(f) is amended by adding an additional item number 4 as follows:

4. All approvals must be based on the applicant's submission of complete architectural and engineering plans and specifications.

Statutory Authority: *MS s 16.85*

1305.0400 SECTION 203.

UBC Section 203 is amended to read as follows:

UBC Section 203. All buildings or structures regulated by this code which are structurally unsafe or not provided with adequate egress, or which constitute a fire hazard, or are otherwise dangerous to human life are, for the purpose of this section, unsafe. Any use of buildings or structures constituting a hazard to safety, health, or public welfare by reason of inadequate maintenance, dilapidation, obsolescence, fire hazard, disaster, damage, or abandonment are, for the purpose of this section, unsafe uses. Parapet walls, cornices, spires, towers, tanks, stuary, and other appendages or structural members which are supported by, attached to, or part of a building and which are in deteriorated condition or otherwise unable to sustain the design loads which are specified in the code are unsafe building appendages. All unsafe buildings, structures, or appendages are public nuisances and must be abated by repair, rehabilitation, demolition, or removal in accordance with the procedures set forth in Minnesota Statutes, sections 463.15 to 463.26.

Statutory Authority: *MS s 16.85*

1305.0500 SECTION 204.

UBC Section 204 is amended by amending the last sentence as follows: The board shall adopt reasonable rules and regulations for conducting its investigations and shall render all decisions and findings in writing to the building official with a duplicate copy to the appellant and to the state building inspector within 15 days of such decision.

Statutory Authority: *MS s 16.85*

1305.0600 SECTION 205.

UBC Section 205 is amended by adding a sentence as follows: Any violation of provisions of this code is a misdemeanor (Minnesota Statutes, section 16.865).

Statutory Authority: *MS s 16.85*

1305.0700 SECTION 301.

UBC Section 301(b) is amended by the addition of item 12 as follows:

12. Agricultural buildings as defined in Minnesota Statutes, section 16.84, subdivision 6.

Statutory Authority: *MS s 16.85*

1305.0800 SECTION 304.

Section 304(a) of the UBC is amended to read as follows:

UBC Section 304. (a) Permit Fees. Each municipality must adopt its own schedule of permit fees. The fee schedule of Table No. 3-A is optional for use by the local authority and is a recommended schedule. In areas outside of the enforcement authority of a city, the fee charged for the issuance of permits and inspections for single family dwellings may not exceed the greater of \$100 or .005

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times the value of the structure, addition, or alteration. (Minnesota Statutes, section 16.851.)

The determination of value or valuation under any of the provisions of this code must be made by the building official. The value to be used in computing the building permit and building plan review fees is the total value of all construction work for which the permit is issued as well as all finish work, painting, roofing, electrical, plumbing, heating, air conditioning, elevators, fire-extinguishing systems, and any other permanent equipment.

Statutory Authority: *MS s 16.85*

1305.0900 SECTION 305.

Section 305(e) of the UBC is amended to read as follows:

UBC Section 305(e) Required Inspections. Reinforcing steel or structural framework of any part of any building or structure shall not be covered or concealed without first obtaining the approval of the building official.

The building official, upon notification from the permit holder or his agent, shall make the following inspections and shall either approve that portion of the construction as completed or shall notify the permit holder or his agent wherein the same fails to comply with this code:

1. Foundation inspection: To be made after trenches are excavated and forms erected and when all materials for the foundation are delivered on the job. Where concrete from a central mixing plant (commonly termed "transit mixed") is to be used, materials need not be on the job.

2. Concrete slab or under-floor inspection: To be made after all in-slab or under-floor building service equipment, conduit, piping accessories, and other ancillary equipment items are in place but before any concrete is poured or floor sheathing installed, including the subfloor.

3. Frame inspection: To be made after the roof, all framing, fire blocking, and bracing are in place and all pipes, chimneys, and vents are complete and the rough electrical, plumbing, and heating wires, pipes, and ducts are approved.

4. Insulation inspection: To be made after all required insulation is in place but before any covering material is in place.

5. Lath and/or gypsum board inspection: To be made after all lathing and gypsum board, interior and exterior, used as a structural element or a part of a fire-resistive assembly, is in place but before any plastering is applied or before gypsum board joints and fasteners are taped and finished.

6. Final inspection: To be made after finish grading and the building is completed and ready for occupancy.

7. Installation of mobile homes: To be made after the installation of the support system and all utility service connections. This shall include the inspection of the anchoring system where installed.

Statutory Authority: *MS s 16.85*

1305.1000 SECTION 307.

Section 307(a) of the UBC is amended to read as follows:

Certificate of Occupancy

Section 307(a) Use or Occupancy. No building or structure of Groups A, E, I, H, B, or R, Division 1 occupancy, shall be used or occupied, and no change in the existing occupancy classification of a building or structure or portion thereof shall be made until the building official has issued a certificate of occupancy therefor as provided herein. A municipality may require certificates of occupancy for Group R3, R4 and Group M occupancies.

Statutory Authority: *MS s 16.85*

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1305.1100 AMENDMENTS TO THE UNIFORM BUILDING CODE

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1305.1100 SECTION 405.

Section 405 of the UBC, Definition of Dwelling, is amended to read:

"Dwelling" is any building or any portion of a building which contains not more than two "dwelling units," including Class A-1 supervised living facilities as defined in section 420.

Statutory Authority: *MS s 16.85*

1305.1200 SECTION 406.

Section 406 of the UBC is amended by the addition of the following definition:

"Earth sheltered structure" is a building constructed so that more than 50 percent of the exterior surface area of the building, excluding garages or other accessory buildings, is covered with earth. Partially completed buildings shall not be considered to be earth sheltered. (See Minnesota Statutes, section 116H.02, subdivision 3.)

Statutory Authority: *MS s 16.85*

1305.1300 SECTION 407.

Section 407 of the UBC, Definition of Fire Code, is amended as follows:

UBC Section 407. "Fire code" is the Minnesota Uniform Fire Code, authorized by Minnesota Statutes, section 299F.011.

Statutory Authority: *MS s 16.85*

1305.1350 SECTION 414.

UBC Section 414, Definition of Mechanical Code, is amended as follows:

UBC Section 414. "Mechanical code" is the Minnesota Heating, Ventilating, Air Conditioning, and Refrigeration Code, chapter 1345.

Statutory Authority: *MS s 16.85*

1305.1400 SECTION 420.

Section 420 of the UBC is amended by adding the following definitions:

"Supervised living facility" means a facility in which there is provided supervision, lodging, meals, and, in accordance with the provisions of rules of the Department of Public Welfare, and the Department of Health, counseling and developmental habilitative or rehabilitative services to five or more persons who are mentally retarded, chemically dependent, adult mentally ill, or physically handicapped.

"Class A supervised living facility" means a supervised living facility for ambulatory and mobile persons who are capable of taking appropriate action for self-preservation under emergency conditions as determined by program licensure provisions.

Class A-1 supervised living facilities include homes providing boarding and lodging for six or fewer ambulatory or mobile disabled persons.

Class A-2 supervised living facilities include homes providing boarding and lodging for more than six ambulatory or mobile disabled persons.

"Class B supervised living facility" means a supervised living facility for ambulatory, nonambulatory, mobile or nonmobile persons who are not mentally or physically capable of taking appropriate action for self-preservation under emergency conditions as determined by program licensure provisions.

Statutory Authority: *MS s 16.85*

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AMENDMENTS TO THE UNIFORM BUILDING CODE 1305.1750

1305.1500 TABLE 5-A.

UBC Table 5-A, Groups I-1, I-2, R1, and R3 are amended to read as follows:

UBC Section 501 Table 5-A.

I.1 - Nurseries for full-time care of children under the age of six (each accommodating more than four persons). Hospitals, sanitariums, nursing homes, and similar buildings (each accommodating more than four persons).

I.2 - Detoxification centers, homes for children six years of age or over, supervised living facilities Class B as defined in UBC Section 420, for the mentally retarded, mentally ill, or the physically handicapped (each accommodating more than four persons).

R.1 - Hotels and apartment houses, convents and monasteries (each accommodating more than ten persons). Supervised living facilities Class A2 as defined in UBC Section 420 (accommodating more than six persons).

R.3 - Dwellings and lodging houses. Supervised living facilities Class A-1 as defined in UBC Section 420 (each accommodating six or fewer persons).

Statutory Authority: *MS s 16.85*

1305.1600 SECTION 510.

Section 510 of the UBC is amended by adding a new subsection (c) that reads as follows:

UBC Section 510(c) Sanitation Facilities. Sanitation facilities must be provided for each Occupancy in accordance with Table 5-E and UBC Sections 605, 705, 805, 905, 1005 or 1205 as amended herein. Fixtures must be provided for each sex in accordance with the percentage of occupants of each sex. When the percentage of each sex is not known, one-half for each sex shall be assumed. For sanitation facilities for the handicapped see parts 1340.0400 and 1340.0500.

Types of building occupancy not shown, or when the provisions of Table No. 5-E are excessive due to a specific use or occupant load, facilities may be considered individually by the administrative authority.

Statutory Authority: *MS s 16.85*

1305.1700 SECTION 511.

Section 511(a) of the UBC is amended to read as follows:

UBC Section 511(a) Toilet Facilities. Each water closet stool must be located in a clear space not less than 30 inches in width and have a clear space in front of the water closet of not less than 24 inches.

For provisions for the physically handicapped, see chapter 1340.

Section 511(b) of the UBC is deleted in its entirety.

Statutory Authority: *MS s 16.85*

1305.1750 NEW SECTION 514.

Chapter 5 of the UBC is amended by adding a new section to read as follows:

UBC Section 514 Roof Access. Unless specifically exempted by the building official due to space limitation, roof height above grade or other special considerations, buildings on which any heating, air conditioning, or refrigeration equipment is hereafter installed on the roof and which equipment will require periodic inspection, service and maintenance in accordance with the mechanical code, chapter 1345, shall meet the following requirements:

A stairway complying with UBC Chapter 33 or a stair leading to a scuttle or bulkhead in the roof having such equipment shall be provided to make such equipment safely accessible. Said stair leading to the scuttle or bulkhead shall be placed at an angle of not more than 60 degrees measured from the horizontal with flat treads not less than six inches in width and a minimum length of 24

inches at the tread. No riser shall be more than nine inches and handrails shall be provided on both sides of the access stairs. The minimum opening of the scuttle or bulkhead shall be not less than nine square feet in area with the minimum dimension being not less than two feet. In no case shall this required access be located in or pass through the elevator shaft or elevator machine room.

Equipment should be located with at least six feet of clearance from the edge of the roof or similar hazards. If the clearance is less than six feet, a suitable rail or guard not less than forty-two inches in height shall be provided.

Each unit of equipment shall have an accessible disconnect switch. A 20-ampere 110 to 120-volt AC ground type convenience outlet shall be installed on or adjacent to the unit or equipment. The circuit for this convenience outlet shall be approved ground-fault protection and shall not be connected to the equipment circuit.

Statutory Authority: *MS s 16.85*

1305.1800 SECTION 605.

Section 605 of the UBC is amended to read as follows:

UBC Section 605. All enclosed portions of Group A occupancies customarily used by human beings and all dressing rooms must be provided with natural light by means of exterior glazed openings with an area not less than one-tenth of the total floor area, and natural ventilation by means of openable exterior openings with an area of not less than 1/20 of the total floor area or must be provided with artificial light and a mechanically operated ventilating system. The mechanically operated ventilating systems must be capable of supplying a minimum of five cubic feet per minute of outside air with a total circulated of not less than 15 cubic feet per minute per occupant in all portions of the building during the time the building is occupied. If the velocity of the air at the register exceeds ten feet per second, the register must be placed more than eight feet above the floor directly beneath.

Toilet rooms must be provided with a fully openable exterior window at least three square feet in area; or a vertical duct not less than 100 square inches in area for the toilet facility, with 50 additional inches for each additional facility; or a mechanically operated exhaust system capable of providing a complete change of air every 15 minutes. The systems must be connected directly to the outside, and the point of discharge must be at least five feet from any openable window.

Exit lighting in portions of buildings other than the stage must be on a separate circuit from that of the stage and must be controlled from the box office or other approved central control center located in a portion of the building other than the stage.

All registers or vents supplying air backstage must be equipped with automatic closing devices with fusible links. The closing devices must be located where the vents or ducts pass through the proscenium walls, and must be operated by fusible links located on both sides of the proscenium wall and both inside of and outside of the vent or duct.

There must be provided in an approved location at least one lavatory for each two water closets for each sex, and at least one drinking fountain for each floor level.

For other requirements on water closets, see UBC section 511(a) as amended in this chapter.

For additional sanitation facilities requirements, see UBC Section 510(c) as specified in this chapter.

Statutory Authority: *MS s 16.85*

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1305.1900 SECTION 705.

Section 705 of the UBC is amended to read as follows:

UBC Section 705. All portions of Group B occupancies must 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 1/20 of total floor area, or must be provided with artificial light and mechanically operated ventilating system as specified in Section 605 and the applicable sections of the mechanical code.

In all buildings or portions of buildings where flammable liquids are used, exhaust ventilation must be provided sufficient to produce four air changes per hour. The exhaust ventilation must 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 must be provided capable of exhausting a minimum of 3/4 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. The alternate system must be based upon the anticipated instantaneous movement rate of vehicles but not less than 2.5 percent (or one vehicle) of the garage capacity. 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., must 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 5,000 square feet, the building official may authorize the omission of ventilating equipment required in this section 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 of a building where persons are employed must be provided with at least one water closet. Separate facilities must be provided for each sex when the number of employees exceeds four and both sexes are employed. The toilet facilities must be located either in the building or conveniently in a building adjacent to it on the same property.

Water closet rooms in connection with food establishments where food is prepared, stored or served must have a nonabsorbent interior finish as specified in section 510(b), must have hand-washing facilities in or adjacent to them, and must be separated from food preparation or storage rooms as specified in Section 510(a).

A toilet room must be provided with a fully openable exterior window at least three square feet in area, or a vertical duct not less than 100 square inches in area for the toilet facility, with 50 additional inches for each additional facility, or a mechanically operated exhaust system, capable of providing a complete change of air every 15 minutes. Exhaust systems must be connected directly to the outside and the point of discharge must be at least five feet from any openable window.

For other requirements on water closets, see UBC Section 511(a) as amended in this chapter.

For additional sanitation facilities requirements, see UBC Section 510(c) as specified in this rule.

Statutory Authority: *MS s 16.85*

1305.2000 SECTION 709.

Section 709(e) of the UBC is amended to read as follows:

UBC Section 709(e) Area and Height Increases. The area and height of structures with cross ventilation throughout may be increased in accordance with provisions of this subsection. In structures with sides open (as defined in Subsection (b)) three-fourths of the building perimeter may be increased 25 percent in area and one tier in height. Structures with sides open (as defined in Subsection (b)) around the entire building perimeter may be increased 50 percent in area and one tier in height. Structures of Type II-FR, Type II-1 hr, or Type II-N construction, with sides open (as defined in subsection (b)) around the entire building, may be unlimited in area when the height does not exceed eight tiers.

Open parking garages constructed to heights less than the maximums established by Table No. 7-A may have individual tier areas exceeding those otherwise permitted, provided the gross tier area of the structure does not exceed that permitted for the higher structure. At least three sides of each such larger tier shall have continuous horizontal openings not less than 30 inches in clear height extending for at least 80 percent of the length of the sides and no part of such larger tier shall be more than 200 feet horizontally from such an opening. In addition, each storage opening shall face a street or yard accessible to a street with a width of at least 30 feet for the full length of the opening and standpipes shall be provided in each tier.

Section 709 of the UBC is amended by adding a new paragraph (m):

UBC Section 709(m) Every parking ramp or other parking facility shall include spaces for the parking of motor vehicles having a capacity of seven to 16 persons. The number of required spaces shall be determined by two percent of the gross designed parking area with a minimum of two spaces. Such spaces to accommodate commuter vehicles, shall be at least ten feet in width, 20 feet in length, and a height clearance of ten feet six inches in the entry level and shall not apply to other levels of a ramp.

Statutory Authority: *MS s 16.85*

1305.2100 SECTION 802.

Section 802(c) of the UBC is amended to read as follows:

UBC Section 802(c) Special Provisions. Rooms in Divisions 1 and 2 occupancies used for day-care purposes, kindergarten pupils, and Division 3 occupancies may not be located above the first story, and they may not be located in a basement unless there is provided at least one exit without intervening stairs directly on grade from the occupied space.

Storage and janitor closets must be of one-hour fire-resistive construction. Stages and enclosed platforms must be constructed in accordance with chapter 39. For attic space partitions and draft stops, see section 2516(f).

Statutory Authority: *MS s 16.85*

1305.2200 SECTION 805.

Section 805 of the UBC is amended to read as follows:

UBC Section 805. All portions of Group E occupancies must be provided with light and ventilation, either natural or artificial, as specified in Section 605.

For other requirements on water closets, see part 1305.4100, section 511(a) as amended in this rule.

For additional sanitation facilities requirements, see UBC section 510(c) as specified in this rule.

Statutory Authority: *MS s 16.85*

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1305.2300 SECTION 809.

Section 809 of the UBC is amended to read as follows:

UBC Section 809. Approved fire alarms must be provided for all Group E occupancies with an occupant load of more than 50 persons, and in Group E Division 3 occupancies with an occupant load of more than 29 persons. In every Group E occupancy with an automatic sprinkler or detection system, the operation of the system must automatically activate the school fire alarm system.

The fire alarm system must be installed in compliance with NFPA Standard 72-A-75, "Local Protective Signaling Systems."

An approved fire alarm is a fire alarm and detection system consisting of the following:

1. A complete noncoded continuously sounding until manually reset, electronically supervised type.
2. Sounding stations on 100-foot to 150-foot spacing (a) in corridors, (b) in areas of high noise levels, such as band rooms, shops, boiler rooms, and (c) a weatherproof station on exterior of building facing residential areas.
3. Shall have automatic sending stations (detectors) in boiler rooms, kitchens, shops, painting areas, lounges, laundries, janitor's closets, storerooms, etc., or unsupervised and unoccupied spaces; namely, critical or hazardous areas.
4. Manual sending stations shall be provided in the natural path of escape from fire, near each exit from an area, on each floor, and shall be readily accessible, unobstructed, and at visible locations.

Statutory Authority: *MS s 16.85*

1305.2400 SECTION 905.

Section 905 of the UBC is amended to read as follows:

UBC Section 905. All portions of Group H occupancies must 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 1/20 of the total floor area, or must be provided with artificial light and a mechanically operated ventilating system as specified in Section 605 and the applicable sections of the mechanical code.

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

In all buildings used for the repair or handling of automobiles operating under their own power, ventilation must be provided capable of exhausting a minimum of 3/4 cfm per square foot. Additionally, each engine repair stall must be equipped with an exhaust pipe extension duct, extending to the outside of the building, which, if over ten feet in length, must mechanically exhaust 300 cubic feet per minute. Connecting offices and waiting rooms must be supplied with conditioned air under positive pressure.

Exception: In public repair garages and aircraft hangars not exceeding an area of 5,000 square feet, the building official may authorize the omission of ventilating equipment required by this section 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 of a building where persons are employed must be provided with at least one water closet. Separate facilities must be provided for each sex when the number of employees exceeds four and both sexes are employed.

The toilet facilities must be located either in the building or conveniently in a building adjacent to it on the same property.

A toilet room must be provided with a fully openable exterior window at least three square feet in area, or a vertical duct not less than 100 square inches in area for the toilet facility, with 50 additional inches for each additional facility, or a mechanically operated exhaust system, capable of providing a complete change of air every 15 minutes. The exhaust systems must be connected directly to the outside, and the point of discharge must be at least five feet from any openable window.

For other requirements on water closets, see UBC Section 511(a) as amended in this chapter.

For additional sanitation facilities requirements, see UBC Section 510(c), as specified in this chapter.

Statutory Authority: *MS s 16.85*

1305.2500 SECTION 1001.

Section 1001 of the UBC is amended to read as follows:

UBC Section 1001. Group I occupancies shall be:

Division 1. Nurseries for the full-time care of children under the age of six (each accommodating more than four persons). Hospitals, sanitariums, nursing homes, and similar buildings (each accommodating more than four persons).

Division 2. Detoxification centers, homes for children six years of age or over, supervised living facilities Class B as defined for the mentally retarded, mentally ill, or the physically handicapped (each accommodating more than four persons).

Division 3. Mental hospitals, mental sanitariums, jails, prisons, reformatories, and buildings where personal liberties of inmates are similarly restrained.

For occupancy separations, see Table No. 5-B.

For occupant load, see Section 3301.

Exception: Group I occupancies shall not include buildings used only for private residential purposes for a family group.

Statutory Authority: *MS s 16.85*

1305.2600 SECTION 1002.

Section 1002(b) of the UBC is amended to read as follows:

UBC Section 1002(b) Special Provisions. Division 3 occupancies must be housed in buildings of Type I or Type II-F.R. construction.

Every story of a Group I, Division 1 occupancy accommodating more than five nonambulatory persons, unless provided with a horizontal exit, must be divided into not less than two compartments accommodating approximately the same number of nonambulatory persons in each compartment by a smoke-stop partition meeting the requirements of one-hour occupancy separation so as to provide an area of refuge within the building. Corridor openings in the smoke-stop partition must be protected with doors as required in Section 3305(h). Other openings must be limited to ducts which have fire dampers in the plane of the wall activated by detectors of products of combustion other than heat conforming to Section 4306(b) 2.

Rooms occupied by inmates or patients whose personal liberties are restrained must have noncombustible floor surfaces.

Statutory Authority: *MS s 16.85*

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1305.2700 SECTION 1005.

Section 1005 of the UBC is amended to read as follows:

UBC Section 1005. All portions of Group I occupancies must 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 1/20 the total floor area, or must be provided with artificial light and a mechanically operated ventilating system as specified in section 605 and the mechanical code.

For other requirements on water closets, see UBC Section 511(a) as amended in this chapter.

For additional sanitation facilities requirements, see UBC Section 510(c) as specified in this chapter.

Statutory Authority: *MS s 16.85*

1305.2800 SECTION 1009.

Section 1009 of the UBC is amended to read as follows:

UBC Section 1009. An approved fire alarm system shall be provided for all Group I occupancies. Audible alarm devices shall be used in all nonpatient areas. Visible alarm devices may be used in lieu of audible devices in patient-occupied areas. An approved alarm system shall comply with UBC Section 809 as amended herein. Operation of any fire alarm activating device shall automatically, without delay, accomplish general alarm indication and control functions. Zoned, coded systems shall be permitted to be used. Exception: Alarm systems may be installed in accordance with NFPA 101, 1977 edition, 10-3.3.3.

Statutory Authority: *MS s 16.85*

1305.2900 SECTION 1101.

UBC Section 1101 Group M, sixth line is amended to read as follows:

For occupancy separations, see Table No. 5-B. For purposes of occupancy separation, manufactured homes, as defined in Minnesota Statutes, section 327.31, subdivision 3, are Group R, Division 3 occupancies.

Statutory Authority: *MS s 16.85*

1305.3000 SECTION 1201.

Section 1201 of the UBC is amended by adding a new Division to read as follows:

UBC Section 1201 Group R, Division 4 occupancies: This use group includes all one- and two-family dwellings built exclusively by the standards as established in the 1975 One and Two Family Dwelling Code as promulgated by the national model code organizations and parts 1325.0200 to 1325.0700. Use and installation of foam plastics must comply with Section 1712 of the UBC as amended herein.

Exception: The plumbing requirements found in Part V (Chapters 20 to 25) and the referenced portions of Part VII (2-26.2001-S-26.2103) are deleted in their entirety. The requirements of the Minnesota Plumbing Code, parts 4715.0200 to 4715.2860, for plumbing shall apply to this occupancy group.

Statutory Authority: *MS s 16.85*

1305.3100 ONE AND TWO FAMILY DWELLING CODE, SECTION R-202.

Section R-202 of the One and Two Family Dwelling Code is amended to read as follows:

Section R-202. Buildings must be constructed in accordance with the provisions of this code using the design criteria set forth in Table No. 2-A. These criteria shall be established by the jurisdiction based solely or in part on the climatic and geographic conditions set forth in Appendix A.

Roof snow loads must be in accordance with part 1305.4700. Frost line depth must be in accordance with part 1305.5400. Wind velocity must be in accordance with the conditions set forth in Appendix A of the One and Two Family Dwelling Code.

Statutory Authority: *MS s 16.85*

1305.3200 ONE AND TWO FAMILY DWELLING CODE, SECTION R-204.

Section R-204 of the One and Two Family Dwelling Code is amended to read as follows:

Section R-204. All habitable rooms must be provided with aggregate glazing area of not less than eight square feet or eight percent of the floor area of the rooms. One-half of the required area of glazing must be openable.

Exception: The glazed areas need not be openable where an approved mechanical ventilation system is provided capable of producing a change of air every 30 minutes and the opening is not required by Section R-211.

Bathrooms, water-closet compartments and other similar rooms must be provided with aggregate glazing area in windows of not less than three square feet, one-half of which must be openable.

Exception: The glazed areas are not required where artificial light and an approved mechanical ventilation system is provided capable of producing a change of air every 12 minutes.

Required glazed openings must open directly onto a street or public alley, or a yard or court located on the same lot as the building.

Exception: Required glazed openings may face into a roofed porch where the porch abuts a street, yard or court and the longer side of the porch is at least 65 percent open and unobstructed and the ceiling height is not less than seven feet.

Statutory Authority: *MS s 16.85*

1305.3300 ONE AND TWO FAMILY DWELLING CODE, SECTION R-211.

Section R-211 of the One and Two Family Dwelling Code is amended to read as follows:

Section R-211 Exits. At least one exit conforming to this chapter must be provided from each dwelling unit.

Every sleeping room must have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside to a full clear opening without the use of separate tools. Where windows are provided as a means of egress or rescue they must have a sill height of not more than 48 inches above the floor.

All egress or rescue windows from sleeping rooms must have a minimum net clear opening of 5.7 square feet. The minimum net clear opening height dimension must be 24 inches. The minimum net clear opening width dimension must be 20 inches.

Statutory Authority: *MS s 16.85*

1305.3400 SECTION 1201.

UBC Section 1201 Group R Division 1 occupancy definition is amended to read as follows:

Division 1. Hotels and apartment houses. Convents and monasteries (each accommodating more than ten persons), supervised living facilities Class A-2 as defined in Section 420 for the mentally retarded, mentally ill, chemically dependent, and the physically handicapped (each accommodating more than six persons). Physically handicapped persons shall be housed at street level in supervised living facilities.

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UBC Section 1201 Group R, Division 3 is amended to read as follows:

UBC Section 1201, Division 3. Dwellings and lodging houses, supervised living facilities Class A-1 as defined in Section 420. For occupancy separations, see Table No. 5-B.

Statutory Authority: *MS s 16.85*

1305.3500 SECTION 1204.

Section 1204 of the UBC is amended to read as follows:

UBC Section 1204. Exit facilities. Stairs, exits, and smokeproof enclosures must be as specified in Chapter 33.

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

All escape or rescue windows from sleeping rooms must have a minimum net clear opening of 5.7 square feet. The minimum net clear opening height dimension must be 24 inches. The minimum net clear opening width dimension must be 20 inches. Where windows are provided as a means of escape or rescue they must have a finished sill height not more than 48 inches above the floor.

Bars, grilles, and similar devices may be installed on emergency escape and rescue windows or doors if:

1. the devices are equipped with approved release mechanisms which are openable from the inside without the use of a key or special knowledge or effort; and

2. the building is equipped with smoke detectors installed in accordance with UBC Section 1210.

Statutory Authority: *MS s 16.85*

1305.3600 SECTION 1205.

Section 1205 of the UBC is amended to read as follows:

UBC Section 1205. (a) Light and Ventilation. All guest rooms, dormitories, and habitable rooms within a dwelling unit shall be provided with natural light by means of exterior glazed openings with an area not less than eight percent of the floor area of such rooms with a minimum of eight square feet. All bathrooms, water closet compartments, laundry rooms, and similar rooms shall be provided with natural ventilation by means of openable exterior openings with an area not less than 1/20 of the floor area of such rooms with a minimum of 1-1/2 square feet.

All guest rooms, dormitories, and habitable rooms within a dwelling unit shall be provided with natural ventilation by means of openable exterior openings with an area of not less than four percent of the floor area of such rooms with a minimum of four square feet.

In lieu of required exterior openings for natural ventilation, a mechanical ventilating system may be provided. Such system shall be capable of providing two air changes per hour in all guest rooms, dormitories, habitable rooms, and in public corridors. One-fifth of the air supply shall be taken from the outside. In bathrooms, water closet compartments, laundry rooms, and similar rooms a mechanical ventilations system connected directly to the outside, capable of providing five air changes per hour, shall be provided.

For the purpose of determining light and ventilation requirements, any room may be considered as a portion of an adjoining room when one-half of the area of the common wall is open and unobstructed and provides an opening of not less than one-tenth of the floor area of the interior room or 25 square feet, whichever is greater.

Required exterior openings for natural light and ventilation shall open directly onto a street or public alley or a yard or court located on the same lot as the building.

Exception: Required windows may open into a roofed porch where the porch:

1. abuts a street, yard, or court; and
2. has a ceiling height of not less than seven feet; and
3. has the longer side at least 65 percent open and unobstructed.

(b) Sanitation. Every building must be provided with at least one water closet. Every hotel or subdivision of a hotel where both sexes are accommodated must contain at least two separate toilet facilities which are conspicuously identified for male or female use, each of which contains at least one water closet.

Additional water closets must be provided on each floor for each sex at the rate of one for every additional ten guests, or fractional part of ten guests, in excess of ten.

Every dwelling unit must be provided with a kitchen equipped with a kitchen sink. Every dwelling unit and every lodging house must be provided with a bathroom equipped with facilities consisting of a water closet, lavatory, and either a bathtub or shower. Each sink, lavatory, and either a bathtub or shower must be equipped with hot and cold running water necessary for its normal operation.

For other requirements on water closets, see UBC Section 511(a) as amended in this chapter.

For additional sanitation facilities requirements, see UBC Section 510(c), as specified in this chapter.

Statutory Authority: *MS s 16.85*

1305.3700 SECTION 1210.

Section 1210(a) of the UBC is amended to read as follows:

UBC Section 1210. (a) Fire-warning Systems. Every dwelling unit and every guest room in a hotel or lodging house used for sleeping purposes must be provided with smoke detectors conforming to UBC Standard No. 43-6. In dwelling units, detectors must be mounted on the ceiling or wall at a point centrally located in the corridor or area giving access to rooms used for sleeping purposes. In an efficiency dwelling unit, hotel sleeping room, and in hotel suites, the detector must be centrally located on the ceiling of the main room or hotel sleeping room. Where sleeping rooms are on an upper level, the detector must be placed at the center of the ceiling directly above the stairway. All detectors must be located in accordance with approved manufacturer's instructions. When actuated, the detector must provide an alarm in the dwelling unit or guest room.

When alterations, repairs, or additions requiring a permit and having a valuation in excess of \$1,000 occur, or when one or more sleeping rooms are added or created in existing Group R, Division 3 or 4 occupancies, the entire building must be provided with smoke detectors located as required for new Group R, Division 3 or 4 occupancies.

In new construction, required smoke detectors must receive their primary power from the building wiring when that wiring is served from a commercial source. Wiring must be permanent and without a disconnecting switch other than those required for overcurrent protection.

Smoke detectors may be battery operated when installed in existing buildings, in buildings without commercial power, or in buildings which undergo alterations, repairs, or additions regulated by the second paragraph of this section.

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A smoke detector must be installed in the basement of a dwelling unit having a stairway which opens from the basement into the dwelling. The detector must be connected to a sounding device or other detector to provide an alarm which will be audible in the sleeping area.

Statutory Authority: *MS s 16.85*

1305.3800 SECTION 1213.

Section 1213 of the UBC is deleted in its entirety.

Statutory Authority: *MS s 16.85*

1305.3850 NEW SECTION 1216.

Chapter 12 of the UBC is amended by adding a new section to read as follows:

UBC Section 1216. For Group R, Division 1 occupancies sound transmission control shall be provided to meet the standards defined in UBC Appendix Chapter 35.

Statutory Authority: *MS s 16.85*

1305.3900 NEW SECTION 1217.

Chapter 12 of the UBC is amended by adding a new section to read as follows:

UBC Section 1217. Deadbolt Locks Required. All doors leading to public or shared areas from all apartment dwelling units and hotel units must be provided with deadbolt locks, at least one of which must be capable of being locked with a key from the exterior of each unit. For the purpose of this section a "deadbolt lock" is a locking bolt, which, when in the locked position, can only be moved positively by turning a knob, key, or sliding bolt.

Deadbolt locks having a bolt moved by turning a key must be of the five-pin tumbler type or an approved equivalent. The lock throw may not be less than three-quarters of an inch. Locks must meet the requirements of UBC Section 3304(c).

Statutory Authority: *MS s 16.85*

1305.4000 SECTION 1706.

Section 1706(d) of the UBC is deleted in its entirety. See parts 1320.0700 to 1320.2000.

Statutory Authority: *MS s 16.85*

1305.4100 SECTION 1711.

Section 1711 of the UBC is amended to read as follows:

UBC Section 1711. All unenclosed floor and roof openings, open and glazed sides of landings and ramps, balconies or porches which are more than 30 inches above grade or floor below, and roofs used for other than service of the building must be protected by a guardrail. Guardrails may not be less than 42 inches in height. Open guardrail and stair railings must have intermediate rails or an ornamental pattern so that a sphere six inches in diameter cannot pass through. The height of stair railings on open sides may be as specified in Section 3306 (j) in lieu of providing a guardrail. Ramps must, in addition, have handrails when required by Section 3307.

On all earth-sheltered structures a means must be provided to restrict access to the roof area unless guardrails are provided and the roof is designed for vehicular loads.

Exceptions:

1. Guardrails need not be provided on the loading side of loading docks.
2. Guardrails for Group R, Division 3 and Group M, Division 1 occupancies may be 36 inches in height.

3. Interior guardrails within individual dwelling units or guest rooms of Group R, Division 1 occupancies may be 36 inches in height.

4. The open space between the intermediate rails or ornamental pattern of guardrails in areas of commercial and industrial type occupancies which are not accessible to the public may be increased such that a 12-inch-diameter sphere cannot pass through.

5. Guardrails on a balcony immediately in front of the first row of fixed seats and which are not at the end of an aisle may be 26 inches in height.

6. Guardrails need not be provided on the auditorium side of a stage or enclosed platform.

Statutory Authority: *MS s 16.85*

1305.4200 SECTION 1712.

Section 1712(a) General. The provisions of this section govern the requirements and uses of foam plastic in buildings and structures. For trim, see Section 1705(e).

Except where otherwise noted in this section, all foam plastics used in building construction must have a flame-spread rating of not more than 75 and must have a smoke-developed rating of not more than 450 when tested in the maximum thickness intended for use in accordance with UBC Standard No. 42-1. All packages and containers of foam plastic and foam plastic ingredients must bear the label of an approved agency showing either the flame-spread rating and smoke-developed rating of the product at the thickness tested or the use for which the product has been listed. The interior of the building must be separated from the foam plastic by an approved thermal barrier having an index of 15 when tested over calcium silicate board in accordance with UBC Standard No. 17-3 or protected from the interior of the building by a thermal barrier of one-half inch gypsum wallboard. The thermal barrier must be installed in such a manner that it will remain in place for the time of its index classification based upon approved diversified tests.

Statutory Authority: *MS s 16.85*

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1305.4300 REQUIRED SANITATION FIXTURES BASED ON OCCUPANCY LOAD (1)(2).

OCCUPANCY	USE	S.F. per Occ.	WATER CLOSETS	URINALS	LAVA- TORIES	DRINKING FOUNTAINS	BATHTUBS OR SHOWERS	KITCHEN SINKS	SERVICE SINKS
Group A Occupancies	Auditoriums	30							
	Bowling alleys	30							
	Churches	60	<u>Churches</u>	<u>Churches</u>	<u>Churches</u>				
	Conference Rooms	80		(3)					
	Dance Floors	30		1 for each 300 Men 1 for each 300 women		1 for each 300			
	Dining, Drinking Exhibit Rooms	30 80				1 for each 300			
	Gymnasiums	30		<u>Other</u>		<u>Other</u>			
	Libraries	100		<u>Occupants</u> <u>Fixtures</u>		<u>Occupants</u> <u>Fixtures</u>			
	Lodge Rooms	80		1-100 1		1-200 1			
	Lounges	80		101-200 2		201-400 2			
Rinks	30		201-400 3		401-750 3				
Stadiums, Grandstands	80		Over 400 1 add'l each 500	(3)	Over 750 1 add'l for each 500				
Theaters	30								
Waiting Rooms	80								
Group E Occupancies (6)	Elementary	85	Boys Girls 1/ea. 100 1/ea. 30			1 for each 100			
	Secondary	130	1/ea. 100 1/ea. 25	1/ea. 30		1 for each 100	—		1 per floor
Group I Occupancies			1/ea. cell		1 in each cell		1 at each cell block floor		1 per floor
	Prisons, Jails	100	1/ea. exercise room		1 ea. exercise rm 1 for ea. 10 patients	1 for each 100			
	Hospitals, Nursing Homes	100	1/ea. 8 patients 1/ea. waiting room				1 for each 20 Other		1 per floor
			<u>Other</u> 1/ea. 25 men 1/ea. 20 women	1/ea. 50	<u>Other</u> 1 for each 10	1 for each 100	1 for each 10		

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Statutory Authority: MS s 16.85

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Group	Occupancies		Fact. Occ.	Whrse. Fixt.	Fact. Occ.	Whrse. Fixt.	Fact. Occ.	Whrse. Fixt.	Factories Warehouses				
Group H Occupancies	Aircraft Hangars	500	1-10	1	(3)								
	Factories	200	11-25	2			1-100	for each 1-10(4)					
Group B Occupancies	Municipal Buildings	80	26-50	3			Over 100	1-15(5)	1 for each 75				
	Office Buildings	200	51-75	4									
	Sales	200	76-100	5									
	Service Stations	200	Over 100	J add'l			Sales. Occ.	Offices Fixt.	Sales. Offices			1 per floor	
	Storage Garages	500		for 30									
Group B-4 Occupancies	Warehouses	500	Sales, Office, etc.		Sales, Office (3)	1-15	1	1 for each 150					
			Occ.	Fixt.		16-35	2						
						36-60	3						
						61-90	4						
						91-125	5						
						Over 125	1 to 45						
Group R-1 Occupancies	Dwelling Units, Apt.	—		1	—		1	—	—	1	—	1 laundry tray for each 10 dwelling units or guest rooms	
	Motel, Hotel Units	—		1 for each 10	—		1 for each 10	—	—	1 for each 10	—		
	Rooming Houses	200		1 for each 10	—		1 for each 10	—	—	1 for each 10	—		
	Dormitories	200		1 for each 10	—		1 for each 10	—	—	1 for each 10	—		
Group R-3 and R-4 Occupancies	1 and 2 Family	—		1	—		1	—	—	1	—		
Group M Occupancies	—	—		—	—		—	—	—	—	—		
TEMPORARY FACILITIES				1 for each 30			1 for each 30		1 for each 100				

*A—Area of building occupancy classification served
S.F.—per Occ.—from Column 3 of this table

Footnotes:

- (1) Occupant load is computed using the equation: $\frac{*A}{S.F. \text{ per Occ.}} = \text{Occupant Load}$
- (2) Square feet per occupant is only for computing the occupant load to determine the plumbing fixtures required.
- (3) Urinals may be furnished in place of water closets at the rate of one urinal for one water closet, but not to exceed one-third of the required water closets.
- (4) 1 fixture for each 10 occupants.
- (5) 1 fixture for each 15 occupants.
- (6) For waterclosets, and lavatories, these numbers are *minimum* & equal number for each sex is required.

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1305.4500 SECTION 1807.

Section 1807(h) of the UBC is amended to read as follows:

UBC Section 1807(h) Elevators. Elevators and elevator lobbies must comply with the provisions of parts 1320.0100 to 1320.2000 and the following:

Note: A bank of elevators is a group of elevators or a single elevator controlled by a common operating system; that is, all those elevators which respond to a single call button constitute a bank of elevators. There is no limit on the number of cars which may be in a bank or group but there may not be more than four cars within a common hoistway.

1. Elevators on all floors must open into elevator lobbies which are separated from the remainder of the building, including corridors and other exits, by walls extending from the floor to the underside of the fire-resistive floor or roof above. The walls must be of not less than one-hour fire-resistive construction. Openings through the walls must conform to UBC Section 3305(h).

Exception: This requirement does not apply to:

- (1) the main entrance level elevator lobby in an office building; or
- (2) an elevator lobby located in an atrium which complies with UBC Section 1715.

2. Each elevator lobby shall be provided with an approved smoke detector located on the lobby ceiling. When the detector is activated, elevator doors shall not open and all cars serving that lobby are to return to the main floor and be under manual control only. If the main floor detector or a transfer floor detector is activated, all cars serving the main floor or transfer floor shall return to a location approved by the fire department and building official and be under manual control only. The smoke detector is to operate before the optical density reaches 0.03 per foot. The detector may serve to close the lobby doors.

3. Elevator hoistways shall not be vented through an elevator machine room. Cable slots entering the machine room shall be sleeved beneath the machine room floor and extend to not less than 12 inches below the shaft vent to inhibit the passage of smoke into the machine room.

4. For car size requirements, see part 1320.0600, subpart 3, fourth paragraph.

Statutory Authority: *MS s 16.85*

1305.4600 SECTION 2303.

Section 2303(a) of the UBC is amended to read as follows:

UBC Section 2303. (a) General. All buildings and portions thereof shall be designed and constructed to sustain, within the stress limitations specified in this code, all dead loads and all other loads specified in this chapter or elsewhere in this code. Impact loads shall be considered in the design of any structure where impact loads occur.

Exception: Unless otherwise required by the building official, buildings or portions thereof, other than earth-sheltered structures, which are constructed in accordance with the conventional framing requirements specified in Chapter 25 of this code shall be deemed to meet the requirements of this section.

Statutory Authority: *MS s 16.85*

1305.4700 SECTION 2305.

Section 2305(d) of the UBC is amended to read as follows:

UBC Section 2305(d) Snow Loads. Snow loads full or unbalanced shall be considered in place of loads set forth in Table No. 23-C, where such loading will result in larger members or connections.

A basic snow load of 40 pounds per square foot of horizontal projection is required in the following counties: Anoka, Carlton, Carver, Chisago, Cook,

Dakota, Hennepin, Isanti, Lake, Pine, Ramsey, Saint Louis, Scott, and Washington. A basic snow load of 30 pounds per square foot of horizontal projection is required for all other counties.

Potential accumulation of snow at valleys, parapets, roof structures, and offsets in roofs of uneven configuration shall be considered. Where snow loads occur, the snow loads shall be determined by the building official in accordance with chapter 1365.

Exceptions:

1. The requirements of chapter 1365 shall not apply to Group R Division 3, Group R Division 4, and Group M occupancies.

2. A basic snow load of 30 pounds per square foot of horizontal projection shall be acceptable for detached Group M, Division 1 occupancies in all counties.

Snow loads in excess of 20 pounds per square foot may be reduced for each degree of pitch over 20 degrees. See chapter 1365.

Statutory Authority: *MS s 16.85*

1305.4800 SECTION 2311.

Section 2311(a) of the UBC is amended to read:

UBC Section 2311(a) General. Every building or structure and every portion of a building or structure must be designed and built to resist the wind effects determined in accordance with the requirements of this section. Wind is presumed to come from any horizontal direction. No reduction in wind pressure may be taken for the shielding effect of adjacent structures.

Structures sensitive to dynamic effects, such as buildings with a height-width ratio greater than five, structures sensitive to wind-excited oscillations, such as vortex shedding or icing, and buildings over 400 feet in height, must be, and any structure may be, designed in accordance with approved national standards.

The effect of one-half inch of radial ice must be included in the design of open frame towers including all supporting guys. This effect must include the weight of the ice and the increased profile of each such tower component so coated.

Statutory Authority: *MS s 16.85*

1305.4900 SECTION 2312.

Section 2312(a) of the UBC is amended to read as follows:

UBC Section 2312(a) General. For the purpose of the code this state shall be considered to be in Zone "0," no damage area. Every building or structure and every portion thereof shall be designed and constructed to resist stresses produced by lateral forces as provided in this section. Stresses shall be calculated as the effect of a force applied horizontally at each floor or roof level above the base. The force shall be assumed to come from any horizontal direction.

Structural concepts other than set forth in this section may be approved by the building official when evidence is submitted showing the equivalent ductility and energy absorption are provided.

Where prescribed wind loads produce higher stresses, such loads shall be used in lieu of the loads resulting from earthquake forces.

Statutory Authority: *MS s 16.85*

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1305.5000 SECTION 2403.

Section 2403(e) is amended to read as follows:

UBC Section 2403(e). Concrete Masonry Units. Concrete masonry units must be of a quality at least equal to the requirements set forth in UBC Standard No. 24-4 or No. 24-5 when used for bearing walls or piers or when in contact with ground or exposed to the weather; or equal to the requirements set forth in UBC Standard No. 24-6 when used for nonbearing purposes and not exposed to the weather. Solid units subject to the action of weather or soil must be Grade N. Concrete masonry units must be tested as set forth in UBC Standard No. 24-7.

Concrete masonry units used for walls below grade or for other uses as determined by the designer are not subject to the moisture control provisions of Table No. 24-4-A of UBC Standard No. 24-4.

Statutory Authority: *MS s 16.85*

1305.5100 SECTION 2416.

Section 2416 is amended by the addition of paragraph (n):

UBC Section 2416(n) Alternate Design Method. The specification for the Design and Construction of Load-Bearing Concrete Masonry, eighth printing, May, 1978, published by the National Concrete Masonry Association may be used as an alternate design method providing the following conditions are satisfied.

1. The permit applicant must inform the building official, in writing, that the masonry design is based on the requirements of this subsection prior to granting of a building permit.

2. An outline of testing and field inspection schedules and design calculations signed by the responsible design professional shall be submitted to the building official prior to granting of a building permit.

3. Prior to occupancy, the permit applicant shall submit to the building official written evidence from a registered professional engineer certifying compliance with all requirements of this subsection.

Statutory Authority: *MS s 16.85*

1305.5200 SECTION 2501.

Section 2501(a) of the UBC is amended to read as follows:

UBC Section 2501(a) Quality and Design. The quality and design of wood members and their fastenings shall conform to the provisions of this chapter, and to the applicable standards listed in chapter 60 as amended herein.

Statutory Authority: *MS s 16.85*

1305.5300 SECTION 2510.

Section 2510(h) of the UBC is amended to read as follows:

UBC Section 2510(h) Metal Plate Connectors. Metal plate connectors employed as joint connectors in light wood trusses, and the design and testing of such trusses, shall conform to the Design Specification for Metal Plate Connected Wood Trusses, 1978 edition published by the Truss Plate Institute Inc., TPI-78 and the following amendments, thereto.

Section 102(c) 5 of TPI-78 shall be amended to read as follows: Concentrated loads, and their points and method of application.

Section 310 of TPI-78 shall be added and reads: 310 Cross Grain Stress. Where design loads or their method of application induce cross-grain tension or bending stress, such cross-grain stress shall be considered in the design.

Snow loads shall be determined in accordance with the requirements of part 1305.4700, UBC Section 2305(d). Wind loads shall be determined in accordance with the requirements of UBC Section 2311.

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Other loads shall be determined in accordance with the design requirements of UBC Chapter 23.

Each truss manufacturer shall retain an approved agency having no financial interest in the plant being inspected to make nonscheduled inspections of truss fabrication and delivery and operations.

The inspection shall cover all phases of truss operation, including lumber storage, handling, cutting, fixtures, presses or rollers, fabrication, bundling and banding, handling, and delivery.

Statutory Authority: *MS s 16.85*

1305.5400 SECTION 2907.

Section 2907(a) of the UBC is amended to read as follows:

UBC Section 2907(a) General. Footings and foundation, unless otherwise specifically provided, must be constructed of masonry, concrete or treated wood in conformance with UBC Standard No. 29-3 and in all cases must extend below the frost line. Footings of concrete and masonry must be of solid material. Foundations supporting wood must extend at least six inches above the adjacent finish grade. Footings must have a minimum depth below finished grade for the zone as established below unless another depth is recommended by a foundation investigation.

1. In the absence of a determination by an engineer competent in soil mechanics, the minimum allowable footing depth in feet due to freezing is five feet in Zone I and 3-1/2 feet in Zone II.

Zone I includes the counties of: Aitkin, Becker, Beltrami, Carlton, Cass, Clay, Clearwater, Cook, Crow Wing, Douglas, Grant, Hubbard, Itasca, Kanabec, Kittson, Koochiching, Lake, Lake of the Woods, Mahnomon, Marshall, Mille Lacs, Morrison, Norman, Otter Tail, Pennington, Pine, Polk, Red Lake, Roseau, Saint Louis, Todd, Traverse, Wadena, and Wilkin.

Zone II shall include the counties of: Anoka, Benton, Big Stone, Blue Earth, Brown, Carver, Chippewa, Chisago, Cottonwood, Dakota, Dodge, Faribault, Fillmore, Freeborn, Goodhue, Hennepin, Houston, Isanti, Jackson, Kandiyohi, Lac Qui Parle, Le Sueur, Lincoln, Lyon, McLeod, Martin, Meeker, Mower, Murray, Nicollet, Nobles, Olmsted, Pipestone, Pope, Ramsey, Redwood, Renville, Rice, Rock, Scott, Sibley, Sherburne, Stearns, Steele, Stevens, Swift, Wabasha, Waseca, Washington, Watonwan, Winona, Wright, and Yellow Medicine. Less depths may be permitted when supporting evidence is presented by an engineer competent in soil mechanics.

2. Soil Under Slab on Grade Construction for Buildings. When soil, natural or fill, is sand or pit run sand and gravel, and of depth in accordance with minimum footings depth requirements for each zone, slab on grade construction which supports roof and wall loads shall be permitted. Slab on grade construction for detached buildings Group M, Division 1 occupancies may be placed on any soil except peat or muck.

Statutory Authority: *MS s 16.85*

1305.5500 SECTION 3203.

UBC Section 3203(d) 3 is amended to read as follows:

UBC Section 3203(d) 3. Shingle; shake and tile roofs. A General. Installation shall be in accordance with Table No. 32-B. Underlayment, when required, shall be lapped horizontally and vertically so as to shed water.

In areas subject to roof ice buildup, underlayment consisting of two layers of Type 15 felt applied shingle fashion shall be installed and solid mopped together with approved cementing material between the plies extending from the eave up the roof to a point 24 inches inside the exterior wall line of the building.

The entire state of Minnesota shall be deemed an area subject to roof ice buildup.

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Exceptions:

1. For wood shingle or wood shake roofs the underlayment shall extend 36 inches inside the exterior wall line of the building.
2. When interlocking tiles are used, the underlayment may consist of one layer of Type 40 or heavier asphalt-coated base sheet extending from the eave to a point 24 inches inside the exterior wall line of the building. When this method is used, all horizontal and vertical seams of the base sheet shall be lapped six inches and be continuously sealed with approved cementing material and shall be applied only over solid sheathing.

Statutory Authority: *MS s 16.85*

1305.5700 SECTION 3207.

Section 3207(c) of the UBC is amended to read as follows:

UBC Section 3207(c). Where roof drains are required, overflow drains having the same size as roof drains shall be installed with the inlet flow line located two inches above the low point of the roof, or overflow scuppers having three times the size of the roof drains may be installed in adjacent parapet walls with the inlet flow line located two inches above the low point of the adjacent roof and having a minimum opening height of four inches. Overflow drains shall be connected to drain lines independent from the roof drains, and shall discharge above grade.

Statutory Authority: *MS s 16.85*

1305.5800 SECTION 3304.

UBC Section 3304(a) is amended to read as follows:

UBC Section 3304. (a) General. This section applies to every exit door serving an area having an occupant load of more than ten, or serving hazardous rooms or areas, except that Subsections (c), (h), and (i) shall apply to all exit doors regardless of occupant load. Buildings or structures used for human occupancy and each dwelling unit or guest room leased for gain must have at least one exit door that meets the requirements of Subsection (e).

Statutory Authority: *MS s 16.85*

1305.5900 SECTION 3305.

UBC Section 3305(h) is amended by adding an exception 2 to read as follows:

Exception:

2. In Type I and II-F.R. buildings housing Group B-2 occupancies, corridor walls may be of approved wired glass set in metal frames. The glass height shall not exceed two-thirds of the width of the corridor. A draft curtain of at least one hour fire-resistive construction and not less than 24 inches in height shall be provided to protect the corridor from the Group B-2 occupancy area (tenant space). The draft curtain shall be located above the glass and extend a minimum of 24 inches below any finished ceilings in the tenant space. If the finished ceiling is not a fire-rated assembly, the draft curtain shall extend from the wire glass to a rated ceiling or floor assembly. When the B-2 occupancy area (tenant space) is protected by an approved automatic fire-extinguishing system for a distance of 12 feet in depth adjoining the corridor, and the corridor is not less than 12 feet in width, glass other than wired glass may be approved. Open grille type gates and similar enclosing or security devices may be used in corridor walls of corridors not less than 12 feet in width, when the entire story is protected by an approved fire-extinguishing system.

In buildings of other than Type I or Type II-F.R. construction, this exception shall not be allowed, unless the entire building is provided with an

approved automatic fire-extinguishing system.

Statutory Authority: *MS s 16.85*

1305.6000 SECTION 3321.

UBC Section 3321(b) is amended to read as follows:

UBC Section 3321(b). Minimum size of exits. Every exit opening through which patients are transported on stretchers or beds must be of sufficient width to permit the ready passage of stretchers or beds but must have a clear width of not less than 44 inches, except as hereinafter provided. Exit openings in Division 2 Occupancies must have a clear width of not less than 34 inches. There must be no projections within the required clear widths.

UBC Section 3321(c) is amended to read as follows:

UBC Section 3321(c). Corridors. The minimum clear width of a corridor must be 44 inches except as follows:

Corridors serving any Group I, Division 1 Occupancies must be at least eight feet in width; corridors serving any Group I, Division 2 Occupancies must be at least six feet in width.

There may be no change of elevation in a corridor serving nonambulatory persons unless ramps are used.

In Group I, Division 3 Occupancies such as jails, prisons, reformatories, and similar buildings with open barred cells forming corridor walls, the corridor and cell doors need not be fire resistive.

Statutory Authority: *MS s 16.85*

1305.6200 TABLE NO. 33A.

UBC Table No. 33A is amended as follows:

Delete the right hand column entitled "Egress by means of a ramp or elevator must be provided for the physically handicapped as indicated."

Also delete footnotes 2, 3, 4, 5, 6, 8, 10, and 11.

Statutory Authority: *MS s 16.85*

1305.6300 SECTION 3802.

UBC Section 3802 is amended by adding a section (h) as follows:

UBC Section 3802(h). Special Automatic Fire Extinguishing Systems. In all occupancies having commercial cooking equipment (see NFPA No. 96-1976), automatic fire extinguishing systems complying with UBC Standard 38-1 or NFPA No. 12-73 must be installed for protection of duct systems, grease removal devices, hoods, and over commercial cooking equipment which may be a source of ignition (such as fat fryers, ranges, griddles, and boilers). Systems installed in accordance with the following standards are also permitted.

1. Standards for foam-water sprinkler systems and foam-spray systems, NFPA No. 16-1974.

2. Standard for dry-chemical extinguishing system, NFPA No. 17-1975.

Exception: These requirements shall not apply to Group R-3 and Group R-4 occupancies.

Statutory Authority: *MS s 16.85*

1305.6400 SECTION 3805.

Section 3805(a) of the UBC is amended as follows:

UBC Section 3805(a) General. Standpipes must comply with the requirements of this section and with UBC Standard No. 38-2, amended as follows:

UBC Standard 38-2 Section 38.207(a) Assured Source Required. Class I, Class II, and Class III standpipe systems shall be provided with an approved source of water supply. With prior approval of the fire chief, Class I standpipes

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systems may be supplied only through a fire department connection.

Statutory Authority: *MS s 16.85*

1305.6500 TABLE NO. 38-A.

UBC Table No. 38-A is amended as follows:

Section 2, occupancy column, shall read: Occupancies three stories or more but less than 150 feet in height, except Group R, Division 3 or 4. Class II standpipes are not required in Group E or Group R-1 occupancies.

Statutory Authority: *MS s 16.85*

1305.6600 SECTION 4701.

UBC Section 4701(a) is amended to read as follows:

UBC Section 4701(a) General. The installation of lath, plaster, and gypsum board shall be done in a manner and with materials as specified in this Chapter, or as set forth in ANSI A42.2, 1971 Specifications for Portland Cement and Portland Cement-Lime Plastering, Exterior (Stucco) and Interior and ANSI A42.3, 1971 Specifications for Lathing and Furring for Portland Cement and Portland Cement-Lime Plastering, Exterior (Stucco) and Interior; and, when required for fire-resistive construction, also shall conform with the provisions of UBC Chapter 43.

Other approved wall or ceiling coverings may be installed in accordance with the recommendations of the manufacturer and the conditions of approval.

Statutory Authority: *MS s 16.85*

1305.6700 SECTIONS 5001 TO 5006.

UBC Sections 5001 to 5006 are amended to read as follows:

UBC Sections 5001 to 5006 are deleted and replaced by chapter 1360.

Statutory Authority: *MS s 16.85*

1305.6800 SECTIONS 5101 TO 5105.

UBC Sections 5101 to 5105 are amended to read as follows:

UBC Sections 5101 to 5105, Elevators, Dumbwaiters, Escalators, Manlifts, Moving Walks, Hoists, and Lifts are deleted. Refer to parts 1320.0100 to 1320.2000.

Statutory Authority: *MS s 16.85*

1305.6900 SECTION 6001.

Section 6001 of the UBC is amended to read as follows:

UBC Section 6001. The UBC Standards which are referred to in various parts of this code are the Uniform Building Code Standards, 1982 edition, and are a part of this code with the following amendment:

UBC Section 6001, Chapter 25, 25-17 is amended to read as follows:

Chapter 25, 25-17, 2510(a), 2510(b), 2510(c), 2510(d), 2510(e), 2510(h), 2514(b)1, 2514(b)2, 2516(j)1, 3203(c)4, Tables Nos. 25-F, 25-G, 25-H and 47-H Timber Connector Joints, Bolted Joints, Drift Bolts and Wood Screws, Lag Screws. National Design Specification for Wood Construction (1977), National Forest Products Association. Metal Plate Connected Wood Trusses TPI-78, Truss Plate Institute. Nails and Staples, Federal Specification No. FF-N-105B (March 17, 1971).

Statutory Authority: *MS s 16.85*

1305.7000 VALIDITY CLAUSE.

If any section, subsection, sentence, clause, or phrase of this code is, for any reason, held to be unconstitutional, that decision does not affect the validity of the remaining portions of this code.

The Department of Administration would have adopted this code and each section, subsection, clause, or phrase of this code, whether or not any one or more sections, subsections, sentences, clauses, and phrases is declared unconstitutional.

Statutory Authority: *MS s 16.85*

1305.7100 SPECIAL PROVISIONS FOR THE CITY OF ROCHESTER.

The following sections of the Uniform Building Code are amended to read as follows.

UBC 3802(b)6 In Group H, Divisions 1 and 2 occupancies having an area of more than 1,500 square feet; in Group H, Division 3 occupancies having an area of more than 3,000 square feet; and in Group H, Division 4 occupancies more than one story in height, or exceeding 8,400 square feet in floor area located in Zone No. 1 or No. 2 exceeding 20,200 square feet in floor area located in Zone No. 3. The area and height increases specified in Section No. 506 and No. 507 shall be permitted.

In rooms where flammable or combustible liquids are stored or handled in excess of the quantities set forth in Table No. 10-A, or any combination of flammable liquids totaling 240 gallons, as defined in the Fire Code.

For special provisions on hazardous chemicals and magnesium, and calcium carbide, see Fire Code.

UBC 3802(b)8 In retail sales rooms, classed as Group B, Division 2 occupancies where the floor area exceeds 12,000 square feet on any floor or 24,000 square feet on all floors; however, the area and height increases specified in Sections 506(c) and 507 shall be permitted. In Group B occupancies exceeding 13,500 square feet in floor area located in Zone No. 1 or No. 2, or when of Type V construction exceeding 10,500 square feet of floor area located in Zone No. 2, or exceeding 20,200 square feet in floor area located in Zone No. 3. The area and height increases specified in Section No. 506 and No. 507 shall be permitted.

Exception: Open parking garages.

UBC 3802(b)12 In Group R1 occupancies exceeding 20,200 square feet in floor area or four stories in height located in Zone No. 1 or No. 2, or exceeding 30,000 square feet in floor area located in Zone No. 3. The area and height increases specified in Section No. 506 and No. 507 shall be permitted.

Statutory Authority: *MS s 16.85*