CHAPTER 1300
DEPARTMENT OF ADMINISTRATION
MINNESOTA STATE BUILDING CODE
CODE ADMINISTRATION

1300.2100 PURPOSE AND APPLICATION.

[For text of subpart 1, see M.R.]

Subp 2. **Application.** The code applies statewide except as provided for in Minnesota Statutes, sections 16B 72 and 16B.73, and supersedes the building code of any municipality The code does not apply to agricultural buildings except with respect to state inspections required or rulemaking authorized.

The administrative chapters of the Uniform Building Code, chapters 1 and 34, as amended, govern the application of the code

Statutory Authority: *MS s 16B 59 to 16B.75*

History: *23 SR 683*

1300.2400 DEFINITIONS.

[For text of subps 1 to 5, see M R]

Subp. 6 **Code.** "Code" means the Mmnesota State Building Code adopted under Minnesota Statutes, section 16B 61, subdivision 1, and includes the following chapters of Minnesota Rules·

A 1300, Minnesota Building Code;
B 1301, Building Official Certification,
C 1302, Construction Approvals,
D 1305, Adoption of the Uniform Building Code,
E. 1306, Special Fire Protection Systems;
F 1307, Elevators and Related Devices;
G. 1315, Adoption of the National Electrical Code,
H. 1325, Solar Energy Systems,
I 1330, Fallout Shelters,
J 1335, Floodproofing Regulations,
K. 1340, Facilities for the Handicapped,
L 1346, Adoption of the Uniform Mechanical Code,
M 1350, Manufactured Homes;
N. 1360, Prefabricated Buildings,
O 1361, Industriahzed/Modular Buildings;
P 1370, Storm Shelters (Manufactured Home Parks),
Q. 4715, Minnesota Plumbing Code, and
R 7670, Minnesota Energy Code

See part 1300.2900 for those chapters that may be adopted at the option of a municipality which has adopted the code

[For text of subps 7 to 15, see M R]

Statutory Authority: *MS s 16B 59 to 16B 75*

History: *23 SR 683*

1300.3900 RESTROOM FACILITIES IN PUBLIC ACCOMMODATIONS.

Subpart 1 **Ratio.** In a place of public accommodation subject to this part, the ratio of water closets for women to the total of water closets and urinals provided for men must be at least three to two, unless there are two or fewer fixtures for men

[For text of subps 2 and 3, see M R]

Statutory Authority: *MS s 16B.59 to 16B 75*

History: *23 SR 683*

1300.4900 SPECIAL EGRESS DEVICES.

Subpart 1. **Group E, Division 1 occupancies.** If approved by the building official, exit doors in a Group E, Division 1 occupancy or portions of a Group E, Division 1 occupancy, may be equipped with approved, listed egress–control devices of access–control type, provided the building is equipped throughout with an approved, supervised automatic fire alarm and smoke–detection system and the Group E, Division 1 occupancy or portion of the Group E, Division 1 occupancy is protected by an approved automatic sprinkler system

These devices must

[For text of item A, see M.R]

B. automatically deactivate upon loss of electrical power to any of the following

(1) the egress–control device;

(2) the fire alarm system;

(3) the smoke detection system,

(4) exit illumination as required by UBC Section 1003.2.9,

[For text of items C and D, see M R]

Subp 2. **Group A occupancy in conjunction with Group E, Division 1, occupancy.** If approved by the building official, exit doors serving Group A occupancies in conjunction with a Group E, Division 1, occupancy may be equipped with approved, listed, egress–control devices of access–control type, provided the building is equipped throughout with an approved, supervised automatic fire alarm and smoke–detection system and the Group A occupancy or portion of the Group A occupancy is protected by an approved automatic sprinkler system.

These systems must be installed so as to·

[For text of items A and B, see M R]

C automatically deactivate the egress–control device upon loss of electrical power to any of the following

(1) the egress–control device,

(2) the fire alarm system,

(3) the smoke detection system,

(4) exit illumination as required by UBC Section 1003.2.9;

[For text of item D, see M.R]

Statutory Authority: *MS s 16B 59 to 16B 75*

History: *23 SR 683*

1300.5300 CORRIDOR CONSTRUCTION.

[For text of subps 1 and 2, see M R]

Subp 3 **Group E occupancies.** In Group E occupancies, required smoke and draft control assembly doors that separate classrooms or offices from a corridor need not be self–closing or automatic–closing if.

A the building as defined by the exterior walls, area separation walls, or equivalent, is equipped with an approved automatic sprinkler system, and

B the fire alarm system incorporates automatic smoke detection installed throughout the affected corridors and internal rooms where doors are not self–closing or automatic–closing

Statutory Authority: *MS s 16B 59 to 16B 75*

History: *23 SR 683*

1300.6100 CONVENTIONAL FOUNDATION CONSTRUCTION.

Subpart 1 **Conventional foundation construction.** The provisions in this part may be used for the design and construction of conventional foundations serving Group R, Division 3, and Group U, Division 1 occupancies subject to the approval of the building official Other methods may be used provided a satisfactory design is submitted showing compliance with the other provisions of this code.

TABLE 2–A

Foundation wall reinforcement requirements of 12–inch thick hollow unit masonry or eight–inch thick cast–in–place (CIP) concrete

Height of unbalanced backfill	Size of vertical reinforcing bars required when foundation wall is constructed in soil groups I or II of Table 2–B	
	Group I Soil	Group II Soil
5 feet	No 4 bars	No. 4 bars
6 feet	No. 4 bars	No 5 bars
7 feet	No 4 bars	No 5 bars
8 feet	No 5 bars	No 6 bars

Notes

1. All reinforcing is to be installed vertically a maximum of six feet on center. Vertical reinforcing bars must be placed three inches clear maximum from the inside nonpressure face of masonry walls and 1–1/2 inches clear maximum from the inside face of the CIP walls.

2 Reinforcing may be omitted in wall sections ten feet or less in length that are bounded by wall corners or by wall offsets or returns at least two feet in depth

3 Reinforced cells of hollow unit masonry must be filled solid with grout having a specified compressive strength at 28 days of 2,000 psi Reinforcing steel must be ASTM A615 grade 40

4 Hollow masonry units must be ASTM C–90 Grade N–1 and be installed with Type M or Type S mortar

5 Cast–in–place concrete must have a 28–day minimum strength of 3,000 psi

6 Anchor bolts must be installed to align with vertical reinforcing in addition to the locations and in the manner specified in Uniform Buildmg Code, Section 1806 6 or Figure R–303 of the One and Two Family Dwelling Code

7 If foundation walls are parallel to floor framing, solid blocking or diagonal bracing must be installed at the anchor bolt locations m the first two joist or truss spaces

8 Floor framing must be nailed to the sill plate m accordance with Uniform Buildmg Code Table 23–II–B–1 or Table R–402 3a of the One and Two Family Dwelling Code In addition, approved metal angle clips must be used to fasten floor joists, trusses, or blocking to the sill plate at the anchor bolt locations The clips must not be less than 18 gauge and be fastened to the plate and adjoining joists, trusses, or blocking with at least three 1–1/2 inch by 8d nails in each leg of the clip

9 Foundation walls must not exceed a height of 8–1/2 feet, as measured from the basement floor Height of unbalanced fill must also be measured from the basement floor.

10 Prior to backfilling, foundation walls must be laterally supported by floor construction at both top and bottom or by adequate temporary bracing

11 A foundation drainage system must be installed, consisting of a foundation dram complying with Uniform Building Code Appendix 1825 3 and 1825 4, section R–305.1 of the One and Two Family Dwelling Code, or other approved design

12 Foundations must also comply with the applicable construction provisions of Uniform Building Code chapters 19 and 21

Subp 2 **Types of soils and their properties.**

TABLE 2–B

TYPES OF SOILS AND THEIR PROPERTIES

Soil group	Unified soil classification system symbol	Soil description	Drainage Characteristics	Volume change potential expansion
Group I Excellent	GW	Well–graded gravels, gravel sand mixtures, little or no fines	Good	Low
	GP	Poorly graded gravels or gravel sand mixtures little or no fines	Good	Low
	SW	Well–graded sands, gravelly sands, little or no fines	Good	Low
	SP	Poorly graded sands or gravelly sands, little or no fines	Good	Low
	GM	Silty gravels, gravel–sand–silt mixtures	Good	Low
	SM	Silty sand, sand–silt mixtures	Good	Low
Group II Fair to Good	GC	Clayey gravels, gravel–sand–clay mixtures	Medium	Low
	SC	Clayey sands, sand–clay mixture Inorganic silts and very fine sands, rock flour.	Medium	Low
	ML	Silty or clayey fine sands or clayey silts with slight plasticity	Medium	Low
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sands, clays, silty clays, lean clays	Medium	Medium
	CH	Inorganic clays of high plasticity, fat clays	Poor	High

Group III				
Poor	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Poor	High
	OL	Organic silts and organic silty clays of low plasticity	Poor	Medium
Group IV				
	OH	Organic clays of medium to high plasticity, organic silts	Unsatis–factory	High
Unsatis–factory	Pt	Peat and other highly organic soils.	Unsatis–factory	High

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Statutory Authority: *MS s 16B.59 to 16B 75*

History: *23 SR 683*