

1 Department of Administration

2

3 Adopted Permanent Rules Relating to Manufactured Home Park Storm
4 Shelter Design

5

6 Rules as Adopted

7 1370.0100 PURPOSE.

8 The purpose of parts 1370.0100 to 1370.0230 is to provide
9 minimum standards of design and construction of buildings to
10 provide protection for manufactured home park occupants from
11 tornadoes and extreme winds.

12 1370.0110 SCOPE.

13 Parts 1370.0100 to 1370.0230 apply to buildings or portions
14 of buildings that are designed for use as manufactured home park
15 storm shelters.

16 1370.0120 DEFINITIONS.

17 Subpart 1. Scope. The definitions in this part apply to
18 parts 1370.0100 to 1370.0230.

19 Subp. 2. Storm shelter. "Storm shelter" means a structure
20 or portion of a structure designed in compliance with parts
21 1370.0100 to 1370.0230.

22 Subp. 3. Dual purpose storm shelter. "Dual purpose storm
23 shelter" means a structure or portion of a structure designed
24 for use as a storm shelter and also designed for some other
25 secondary permitted use.

26 Subp. 4. Single purpose storm shelter. "Single purpose
27 storm shelter" means a structure designed for use only as a
28 storm shelter.

29 1370.0130 APPLICABLE REQUIREMENTS.

30 Subpart 1. Incorporation by reference. "Interim
31 Guidelines for Building Occupant Protection from Tornadoes and
32 Extreme Winds," TR-83A January 1980, sections 1 and 2, published
33 by the Federal Emergency Management Agency, Washington, D.C., is
34 incorporated by reference and must be used to determine design

1 loads and as a guide for use in designing storm shelters. The
2 document is not subject to frequent change and is available:
3 (1) in the Minnesota State Law Library; (2) from the Printing
4 and Publications Division, Federal Emergency Management Agency,
5 P.O. Box 8181, Washington, D.C. 20024; and from the Minnesota
6 Department of Public Safety, Division of Emergency Services, 85
7 State Capitol, Saint Paul, Minnesota 55155.

8 Subp. 2. Dual purpose storm shelters. A dual purpose
9 storm shelter must comply with other applicable requirements of
10 the state building code for its other intended uses.

11 1370.0140 PLANS, SPECIFICATIONS, PERMITS.

12 Storm shelter plans, engineering calculations, diagrams,
13 and other required data must be prepared by a registered
14 architect or engineer licensed to practice in Minnesota. For
15 permit procedures, see section 304 of the Uniform Building Code,
16 incorporated by reference in parts 1305.0100 and 1305.0800.

17 1370.0150 SPACE REQUIREMENTS.

18 A minimum of four square feet per person must be provided
19 within a storm shelter. A ceiling height of not less than seven
20 feet must be provided over 60 percent of the floor area.

21 1370.0160 REQUIRED EXITS.

22 Subpart 1. Exits; openings. At least two exits must be
23 provided in compliance with chapter 33 of the Uniform Building
24 Code. The second exit from a single purpose storm shelter may
25 have an opening of at least nine square feet with a minimum of
26 20 inches in width and the bottom of the opening not more than
27 44 inches from the floor.

28 Openings in the exterior walls of the shelter must be
29 protected to prevent flying missiles from entering the interior
30 of the shelter.

31 Subp. 2. Handicapped access. At least one of the exits
32 must comply with chapter 1340, facilities for the handicapped.

33 Subp. 3. Exit to exterior. When a portion of a structure
34 is designed as a storm shelter, one exit must be directly to the

1 exterior of the building or to an exit system complying with the
2 state building code.

3 1370.0170 DRY INTERIOR.

4 Provisions must be made to construct storm shelters outside
5 of flood-prone areas and other nonwater ponding areas and so
6 that the interiors remain reasonably dry.

7 1370.0180 UTILITY LINE HAZARDS.

8 Hazardous utility lines must not be located in or near a
9 storm shelter. The underground electrical service required by
10 part 1370.0200 is exempt from this requirement.

11 1370.0190 MINIMIZING FIRE DANGER.

12 Storm shelters must be constructed to minimize the danger
13 of fire from both external and internal sources.

14 1370.0200 ELECTRICAL POWER.

15 Underground electrical service must be provided to a storm
16 shelter.

17 1370.0210 ILLUMINATION.

18 Subpart 1. Minimum illumination. At least five foot
19 candles of illumination must be provided at floor level.

20 Subp. 2. Source. An emergency lighting system must be
21 supplied from storage batteries or an on-site generator
22 installed in accordance with the requirements of the National
23 Electrical Code, incorporated by reference in chapter 1315.

24 1370.0220 VENTILATION.

25 Ventilation must comply with the criterion on page nine of
26 the interim guidelines incorporated in part 1370.0130.

27 1370.0230 SANITATION FACILITIES.

28 Sanitation facilities and water for drinking are not
29 required for storm shelters.