

(25) **WIDTH.** The least of the exterior dimensions of a mobile home unit or section including roof overhangs, bay windows, awnings and similar accessories and permanent projections.

History: Cr. Register, September, 1974, No. 225, eff. 10-1-74; am. (1), (12) (intro), (b) and (e), Register, June, No. 270, eff. 7-1-78.

Part II CONSTRUCTION

Ind 14.01 Adoption of and consent to incorporate A119.1—1974.

(1) The "Standard for Mobile Homes," designated as ANSI A119.1—1974 and adopted by the American national standards institute January 17, 1974, is hereby incorporated by reference into this code, subject to omissions specified in par. (c).

(a) Interim amendments of A119.1—1974 shall have no effect in the state of Wisconsin until such time as this section is correspondingly revised to reflect those amendments.

(b) National Institute of Occupational Safety and Health, 4676 Columbia Parkway, Cincinnati, Ohio 45226, NIOSH Manual of Analytical Methods, Second Edition, Volume 1, NIOSH 77-157-A, 1977, method number P & CAM 125, Formaldehyde in Air, except as amended by NIOSH Manual of Analytical Methods, Vol. 7, DHSS (NIOSH) Publication No. 82-100, August, 1981, Page xi.

(c) Omissions from A119.1—1974 shall be as specified below and are not incorporated as a part of this code.

1. A119.1—1974, Part A—General, section 2.1, definition of "mobile home" is omitted.

2. A119.1—1974, Part C—Plumbing Systems, is entirely omitted (see Ind 14.02 (1) (a)).

Note: See H 62, Wis. Adm. Code, Design, Construction, Installation, Supervision and Inspection of Plumbing, for rules applicable to plumbing systems.

(d) Copies of the aforementioned standard are on file in the offices of the department of industry, labor and human relations; the secretary of state; and the revisor of statutes.

(2) Pursuant to s. 227.025, Stats., consent has been granted to incorporate by reference the rules contained in A119.1—1974, "Standard for Mobile Homes," adopted by the American national standards institute January 17, 1974, except those omitted in (1) (b) [(c)].

(a) Copies of the ANSI A119.1—1974, "Standard for Mobile Homes," may be obtained from the American National Standards Institute, 1430 Broadway, New York, New York 10018; National Fire Protection Association, 470 Atlantic Avenue, Boston, Massachusetts 02210; Mobile Homes Manufacturers Association, 6650 North Northwest Highway, Chicago, Illinois 60631; and the Trailer Coach Association, 3855 East LaPalma Avenue, Anaheim, California 92806.

Note: The current address of the National Fire Protection Association is Batterymarch Park, Quincy, Mass. 02269.

Ind 14

(b) Copies of NIOSH 77-157-A, 1977, "Manual of Analytical Methods," volume 1, may be obtained from the Superintendent of Documents, United States Government Printing Office, Washington, D.C. 20402 (Order DHEW (NIOSH) publication number 77-157-A).

History: Cr. Register, September, 1974, No. 225, eff. 10-1-74; renum. (1) (b) and (c) to be (1) (e) and (d), cr. (1) (b), Register, March 1981, No. 303, eff. 10-1-81; am. (1) (intro) and (b), Register, April, 1982, No. 316, eff. 5-1-82.

Ind 14.02 Design and construction. (1) The design and construction of mobile homes manufactured or assembled after the first effective date of this code shall conform to ANSI Standard A119.1—1974 and all additions or revisions thereto adopted by the department.

Note: The first effective date of this code is October 1, 1974.

(a) Exception. Plumbing systems shall conform to the applicable rules of ch. H 62, Wis. Adm. Code, Design, Construction, Installation, Supervision and Inspection of Plumbing.

History: Cr. Register, September, 1974, No. 225, eff. 10-1-74.

Ind 14.03 Indoor ambient air quality standards. (1) **CHEMICAL LEVELS.** All new mobile homes designed and constructed on or after the effective date of this rule and offered for retail sale in Wisconsin shall not exceed the chemical concentration in ambient indoor air established in Table 14.03 as of 60 days after the date of manufacture.

TABLE 14.03

Chemical	Ambient Indoor Air Maximum Concentration
Formaldehyde	40 ppm time weighted average (TWA) for duration of test

(a) Sale of Mobile Homes. Nothing in this section shall preclude the sale of mobile homes within the 60 day period from the date of manufacture.

(b) Penalties. The penalty provisions of s. 101.94 (8), Stats., for enforcement of ambient air quality standards shall apply only where corrective action as specified in sub. (9) is not taken and for failure to comply with the product safety information provisions of sub. (10).

(2) **INDOOR TESTS.** Tests performed to determine the presence and concentration of formaldehyde (HCHO), shall be performed within the mobile home. This section does not require mandatory in-plant testing of mobile homes at the manufacturing plant or dealer's lot.

(3) **TEST METHODS.** All tests performed by the department to determine the presence and concentration of formaldehyde shall be conducted in accordance with the National Institute of Occupational Safety and Health Manual of Analytical Methods, Second Edition, Volume 1, NIOSH 77-157-A, 1977, method number P & CAM 125, Formaldehyde in Air, except as amended by NIOSH Manual of Analytical Methods, Vol. 7, DHSS (NIOSH) Publication No. 82-100, August, 1981, Page xi, or other test methods established by department rule.

Register, April, 1982, No. 316
Mobile Homes

(4) **SPECIAL TEST CONDITIONS AND PROCEDURES.** In addition to the test methods specified in sub. (3), the department shall comply with the following conditions and procedures:

(a) *Temperature and relative humidity.* Testing shall be carried out at an indoor temperature within the range from 70° F. to 85° F. and at ambient relative humidity conditions. The resulting formaldehyde test levels shall be corrected to a 78° F. condition using the following formula:

$$C = C_0 \times e^{-R(1/t - 1/t_0)}$$

Where,

C = Test Formaldehyde Concentration Level
C₀ = Corrected Formaldehyde Concentration Level
e = Natural Log Base
R = Coefficient of Temperature = 9799
t = Actual Test Condition Temperature in °K
t₀ = Corrected Temperature in °K

(b) *Ventilation.* The mobile home shall be aired out with all interior doors, cabinets, closets and drawers open for maximum air exchange, for 2 hours prior to the close-up period. The windows and exterior doors of the mobile home shall be closed for 2 hours prior to commencement of the test with all gas appliances turned off and no smoking permitted while the home is closed prior to testing and during the test.

1. **EXCEPTION.** Mobile homes equipped to provide tempered outside air may be tested with the ventilation system operating at a maximum rate of 1 air change per hour.

(c) *Furniture and contents.* Tests shall be conducted with carpeting, furniture, draperies and other furnishings in place.

(d) *Location of samples.* Except as specified in subd. 2., each sample shall be taken in the center of the habitable room, at a point which is approximately equidistant from opposing walls and at a height of 3-½ to 4 feet above the floor. Samples shall be taken in the habitable portion of each of the following habitable rooms:

1. Bedroom
2. Kitchen, on or in vicinity of kitchen cabinets
3. Living room.

(e) *Length of sampling.* The test sampling for both indoor and outdoor ambient air shall be performed for at least one hour, unless otherwise approved by the department.

(5) **TEST RESULTS AND TEST REPORT.** (a) *Validity.* No tests shall be considered valid for the determination of formaldehyde concentration in the air unless made after a minimum of 60 days from the date of the manufacture of the mobile home tested.

(b) *Test results.* The ambient indoor formaldehyde concentration of a mobile home shall be the arithmetic average of the 3 samples specified in sub. (4) (d).

(c) *Test report.* A test report will be made by the department on each mobile home tested pursuant to this section. The test report will contain the following information: name of manufacturer; serial number; model name; indoor temperature; indoor barometric pressure and relative humidity; location of test samples; indoor air formaldehyde concentration; outdoor temperature; and outdoor relative humidity and barometric pressure. The department will keep copies of the test reports for at least 24 months. The test reports will be available for inspection at the department during normal working hours. The department will provide a copy of the test report to the owner and manufacturer.

(6) **RANDOM TESTING.** The department may conduct random testing of mobile homes to determine compliance with the indoor air quality standard specified in this section.

(7) **COMPLAINT TESTING.** (a) *Complaint test.* Upon complaint notification from an owner of a mobile home, the department or its authorized representative shall test the mobile home to determine compliance with the indoor air quality standards specified in Table 14.03. The department will not respond to complaints filed for mobile homes which are more than 24 months old, including mobile homes where the manufacturer has extended the warranty beyond the 24 month period.

(b) *Retesting.* The department or its authorized representative will limit mobile home retesting to mobile homes in which nonconformance with the indoor air quality standard specified in Table 14.03 have been found and in which modifications have been made by the manufacturer.

(8) **COST OF TESTS.** (a) *Cost to manufacturer.* The manufacturer shall bear the cost of complaint investigation tests conducted by the department where the maximum formaldehyde concentration exceeds that specified in Table 14.03, and any testing conducted by the manufacturer. Where random tests are performed, and the formaldehyde concentration exceeds that specified in Table 14.03, the manufacturer shall bear the costs of such tests.

(b) *Cost to owner.* The owner shall bear the cost of complaint investigation tests conducted by the department when the maximum concentration is equal to or less than that specified in Table 14.03.

(9) **CORRECTIVE ACTION.** (a) *In excess of code allowable concentrations.* If the department determines after investigation that the formaldehyde emissions from mobile home building products as sold by the manufacturer exceed the concentration specified in Table 14.03, the manufacturer shall, within 30 days of departmental notification, lower the concentration to a level equal to or less than the maximum concentration specified in Table 14.03, notwithstanding the provisions of s. Ind 14.50. Mobile homes with formaldehyde concentrations in excess of those specified in Table 14.03 shall be tagged as specified in s. Ind 14.46. Dilution of indoor air by mechanical means up to 1 air change per hour may be used to lower the concentration to the standard specified in Table 14.03.

(b) *Equal to or less than code allowable concentrations.* If the formaldehyde emissions from the mobile home building products as sold by the manufacturer is equal to or less than the maximum concentration

specified in Table 14.03, no corrective action is necessary on the part of the manufacturer.

(10) **PRODUCT SAFETY INFORMATION.** (a) *Pre-sale warning.* Prior to retail sale, the purchaser shall be notified in writing that building materials and other products in mobile homes may emit formaldehyde which may result in unpleasant odors and adverse physical effects including eye, nose and throat irritation in humans. The wording of the warning shall be approved by the department. The warning shall indicate that formaldehyde concentrations are regulated by the Wisconsin Department of Industry, Labor and Human Relations.

(b) *Mobile home label.* All mobile homes offered for retail sale in this state on or after the effective date of this rule shall have affixed to the front door or pre-sale warning label which shall be obtained from the department and which shall read as follows:

WARNING

Formaldehyde concentrations in this mobile home are regulated by the Wisconsin Department of Industry, Labor and Human Relations. Product safety information, approved by the department about the effects of formaldehyde and the department's regulation of formaldehyde shall be provided to the purchaser prior to the sale of this home. This label shall not be removed by the mobile home manufacturer or any person offering this mobile home for retail sale in Wisconsin.

(c) *Removal of label.* Any mobile home manufacturer or person offering the mobile home for retail sale in Wisconsin who removes the label specified in par. (b) prior to the sale of the mobile home shall be subjected to the penalties and remedies of the laws and regulations of this code.

(11) **SEVERABILITY.** Should any subsection or portion of this section be declared invalid or unconstitutional for any reason, the remainder of the section shall not be affected thereby.

History: Cr. Register, March, 1981, No. 303, eff. 10-1-81; am. (1), (2), (3), (4) (intro.) (b) and (d), (5) (c) and (10) (a), Register, April, 1982, No. 316, eff. 5-1-82.

Part III LICENSING

Ind 14.10 Licensing. (1) All manufacturers shall obtain a license issued by the department before manufacturing, selling or offering mobile homes for sale in Wisconsin.

(a) A separate license shall be required for each manufacturing plant location.

(b) Licenses shall be renewed by January 1st of each year.

(2) All manufacturers applying for a license shall certify that they will comply with this code and the Wisconsin Statutes.

(3) The manufacturer shall keep such license at the plant location for which the license is issued.

Register, April, 1982, No. 316
Mobile Homes

(4) Failure of the manufacturer to comply with the rules of this code or Wisconsin Statutes shall constitute grounds for department revocation or suspension of such license.

History: Cr. Register, September, 1974, No. 225, eff. 10-1-74; am. (2), Register, June, 1978, No. 270, eff. 7-1-18.

Part IV

APPROVALS, CONFORMANCE, QUALITY CONTROL

Ind 14.20 Application for plans and specifications approval. (1)
All manufacturers, prior to the construction of any model, shall submit all information required by this section for each manufacturing location. Submittals shall be made to: