

ILHR 62.62 Running of engines. At each performance, an instructive trailer shall be shown on the screen informing the patrons of the danger of carbon monoxide poisoning when the engine is running and stating that when it becomes necessary to run the engine, the windows of the vehicle should be opened at least one inch.

History: Cr. Register, January, 1980, No. 289, eff. 2-1-80.

Subchapter V — Assembly Seating Facilities

ILHR 62.70 Scope. The requirements of this subchapter apply to all assembly seating facilities and stadiums intended primarily to support persons for the purpose of spectator seating.

History: Cr. Register, December, 1981, No. 312, eff. 1-1-82; am., Register, August, 1993, No. 452, eff. 3-1-94.

ILHR 62.71 Approval and supervision. (1) APPROVAL OF PLANS. Plans and specifications shall be submitted to the department in accordance with the applicable provisions of ch. ILHR 50. The following information shall also be included with each submittal:

(a) A plot plan for outdoor seating facilities showing location of facility relative to property lines and adjacent buildings or structures on the same premises; or a floor plan for indoor seating facilities showing location of seating relative to all required exits, aisles and passageways;

(b) Location and size of all structural members, seating area and number of seats, aisles and guardrail assemblies and number and spacing of all rows; and

(c) Structural calculations or a test report made by an independent testing agency and certified by a Wisconsin registered architect or engineer showing that the dead and live load in the open or partially open position and dead load in the closed position can be safely carried by the supporting structure.

1. Exception. The information specified in this paragraph need not be submitted if the seating facility has been granted a materials approval as specified in sub. (2).

(2) **APPROVAL OF DESIGN.** The design of each type or model of a seating facility may be approved by the department prior to installation for designs that are structurally repetitive in nature.

Note: See s. ILHR 50.19 for further information.

(3) **INSTALLATION SUPERVISION.** (a) The installation of all permanent seating facilities having more than 5 rows in height shall be erected under the supervision of a Wisconsin registered architect or engineer.

(b) Every temporary seating facility shall be inspected for proper erection in accordance with the manufacturer's instructions prior to initial public occupancy.

History: Cr. Register, December, 1981, No. 312, eff. 1-1-82.

ILHR 62.72 Inspection and maintenance. Every seating facility shall be inspected at least annually. Any loose connections, defective or broken members shall be repaired before the facility is used. All repairs and maintenance

shall conform with the provisions of chs. ILHR 50-64.

History: Cr. Register, December, 1981, No. 312, eff. 1-1-82.

ILHR 62.73 Design loads. (1) DEAD LOADS. All seating facilities shall be designed and constructed to support the actual dead weight of all component members.

(2) **LIVE LOADS.** All seating facilities shall be designed and constructed to support the superimposed minimum live loads specified in Table 62.73. In every case where the live load is greater than the minimum, the actual load shall be used. The most severe distribution, concentration and combination of design loads and forces shall be taken into consideration.

TABLE 62.73

MINIMUM STRUCTURAL LOADINGS

| Component or Load Orientation | Load* |
|------------------------------------------------------------------------|-------------------------|
| Vertical loads: | |
| Seating structure with load applied over the horizontal projected area | 100 PSF |
| Seats and footboards | 120 PLF |
| Seating platforms | 100 PSF |
| Nonseating areas, such as aisles and passageways | 100 PSF |
| Sway loads in combination with vertical loads: | |
| Acting parallel to seating | 24 PLF |
| Acting normal to seating, such as front to rear and rear to front | 10 PLF |
| Wind loads in combination with live, dead and sway loads: | |
| Vertical projected area when occupied | 15 PSF |
| Vertical projected area when unoccupied | 30 PSF |
| Guardrail loads: | |
| All rail members with load acting vertically and horizontally | 50 PLF |
| Floor and ground loadings: | |
| Floors supporting seating facilities | See Table 53-1 |
| Ground supporting seating facilities | See ch. ILHR 53-Part II |

* PSF = Pounds per square foot; PLF = Pounds per linear foot

(3) **PARTIAL LOADING.** (a) Except as provided in par. (b), structural members in which the stresses are greater under a partial loading than under full loading shall be designed to meet the conditions of greatest stress.

(b) Allowable stresses due to dead and live loads combined with either the wind or sway load or both, may be increased 33% provided the structural capacity of the component used is not less than that required for dead and live loads alone.

(4) **ANCHORAGE LOADS.** Folding or telescoping seating facilities that are attached to a floor or wall shall be anchored to withstand all impact loads in addition to the required live and dead loads.

(5) **STRUCTURAL MEMBER OMISSION.** All seating facilities shall be designed and manufactured so that if any structural member essential to the strength and stability of the structure is omitted during erection, the absence of such unused member will be self-evident.

(6) **FOUNDATIONS, BASE PLATES AND MUDSILLS.** (a) Where provided, foundations for seating facilities shall comply with the requirements of ch. ILHR 53, Part II.

(b) Mudsills of approved material sized to prevent settlement shall be provided when seating facilities rest directly on the ground. All bearing surfaces between mud-

sills and base plates shall be in full contact with each other.

History: Cr. Register, December, 1981, No. 312, eff. 1-1-82.

ILHR 62.74 Construction requirements. (1) AREA LIMITATIONS. (a) *Combustible construction.* Seating facilities constructed entirely of combustible construction shall not exceed 10,000 square feet in ground area or 200 feet in length.

(b) *Partially noncombustible construction.* Seating facilities shall not exceed 20,000 square feet in ground area or 400 feet in length when constructed of any of the following:

1. Noncombustible framing and combustible seatboards or footboards;
2. Entirely of fire retardant treated wood; or
3. Entirely of members conforming to dimensions for heavy timber construction as specified in s. ILHR 51.03 (4).

(c) *Noncombustible construction.* Seating facilities constructed of totally noncombustible construction shall not be limited in ground area or length.

(2) HEIGHT LIMITATION. (a) *Combustible construction.* Seating facilities constructed entirely of combustible materials shall not exceed 20 feet above the ground or floor.

(b) *Noncombustible construction.* Seating facilities constructed of totally or partially noncombustible construction shall not be limited in height.

(c) *Within tents.* The highest level of seat platforms of any portable seating facility within a tent shall not exceed 12 feet above the ground or floor.

(d) *Folding or telescoping.* The highest level of seat platforms of any folding or telescoping seating facility not attached to a wall shall not exceed 12 rows or 11 feet above the floor, whichever is lower.

(3) CLEARANCE LIMITATIONS. A minimum of 7 feet vertical clearance shall be provided between any platform, seatboard or footboard and any ceiling or projection beneath the ceiling.

(4) LOCATION AND SETBACK. Outdoor seating facilities shall be located at least 10 feet from any other building or adjoining property line unless the exterior walls of such adjacent building are of one-hour fire-resistive construction or better and all openings therein are protected with fire-resistive doors and windows as specified in ss. ILHR 51.047 and 51.048.

(5) BARRIER-FREE REQUIREMENTS. Permanent, elevated seating facilities such as bleachers and grandstands shall provide accessible seating in accordance with the applicable requirements in ch. ILHR 69.

History: Cr. Register, December, 1981, No. 312, eff. 1-1-82; r. and recr. (6), Register, November, 1994, No. 467, 12-1-94.

ILHR 62.75 Means of egress. (1) TYPE OF EXITS. (a) Except as provided in par. (b), all required exits from any part of a seating facility shall be doorways, stairways or ramps conforming to the requirements specified in ss. ILHR 55.08 through 55.10.

(b) Doorways, stairways and ramps are not required for assembly seating facilities when aisles are not required.

(2) NUMBER OF EXITS. (a) *Outdoor seating.* Every outdoor seating facility, and every balcony or tier considered separately, shall be provided with at least 2 exits located as remote from each other as practicable and leading directly to the outside at grade. If the capacity of any such facility, balcony or tier exceeds 1,000 persons, there shall be at least 3 exits and where the capacity exceeds 4,000 persons, there shall be at least 4 exits.

(b) *Indoor seating.* The number of exits for every indoor seating facility shall comply with the requirements as specified in s. ILHR 55.07.

(3) DISTANCE TO EXITS. Exits shall be distributed uniformly to prevent congestion and shall be so located that the line of travel to an exit or to a street, alley or open court is not greater than 150 feet.

(4) AGGREGATE WIDTH OF EXITS. (a) *Outdoor seating.* The total clear width of exits from any outdoor seating facility shall be not less than 22 inches for each 500 persons, or fraction thereof.

(b) *Indoor seating.* The total clear width of exits off of any indoor seating facility shall be not less than 22 inches per 100 persons, or fraction thereof. The required exit width of the room and building shall be determined under the specific occupancy chapter and s. ILHR 51.15.

(5) EXIT LIGHTS AND SIGNS. Exit lights and signs shall comply with the requirements as specified in s. ILHR 55.11.

(6) AISLES REQUIRED. (a) Except as provided in par. (b), aisles shall be required in all seating facilities.

(b) Aisles may be omitted provided all of the following conditions exist:

1. Seats are without backrests;
2. The rise between rows does not exceed 12 inches;
3. The number of rows does not exceed 20 for outdoor seating facilities or 16 for indoor seating facilities;
4. The row spacing does not exceed 28 inches; and
5. The first seatboard is not more than 20 inches above the ground or floor.

(7) AISLE WIDTH. Aisles having seats on both sides shall be not less than 42 inches in width and aisles having seats on one side only shall be not less than 36 inches wide.

(8) AISLE LOCATION. (a) *Outdoor seating.* For seating not within a building, the number of seats between any seat and an aisle shall not be greater than 20 when the seats are without backrests and 11 when the seats have backrests.

(b) *Indoor seating.* Except as provided in par. (c), the number of seats between any seat and an aisle for seating within a building, shall not be greater than 9 when the seats are without backrests and 6 when the seats have backrests.

(c) *Continental seating.* The number of seats between any seat and an aisle may be increased to 49 where:

1. A minimum unobstructed passage of 22 inches is provided between rows of unoccupied seats; and