Appendix A

The material contained in the appendix is for clarification purposes only. The notes, illustrations, etc. are numbered to correspond to the number of the rule as it appears in the text of the code.

A-50.21 CERTIFIED MUNICIPALITIES. The following municipalities have been certified by the department to review plans and conduct inspections under s. ILHR 50.21. These lists are current as of the date of printing this code. Additions and deletions may occur during the effective period of this code. For information regarding the current status of a municipality, call 608-267-7586.

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	FIRST	CLASS CITIES Milwaukee	
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Antigo Appleton Augusta Beloit Brookfield Burlington Cudahy Delafield Eau Claire Fond du Lac Fort Atkinson Franklin	Glendale Green Bay Greenfield Janesville Kaukauna Kenosha La Crosse Lake Geneva Madison Manitowoc Marshfield Mequon	Middleton Muskego Neenah New Berlin New Richmond Oak Creek Oconomowoc Oshkosh Racine Rhinelander Seymour Sheboygan	Stevens Point Superior Two Rivers Waukesha Waupun Wausau Wauwatosa West Allis West Bend Wisconsin Rapids
		VILLAGES	
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A-50.10-50.25 FORMS. The following forms (SB2, 8, 8A, 8B, 118, 198, 224B, and SBD-5686) are referred to in ss. ILHR 50.10, 50.12, 50.14, 50.18, 50.20 and 50.25. Copies of these forms are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707.

Widoonsin Bepartment of Ind. Labor & Human Relations	BUILDING INSPECTIO	ON REPORT AND ORDERS	Safety and Bulldings Division P.O. Box 7859, Madson, WI 53707		
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INDUSTRY, LABOR & HUMAN RELATIONS Appendix A

PETITION FOR VARIANCE APPLICATION

OFFICT USE CHAY Wisconsin De Mount Fail 201 Secent Ro.	Human Relations Box 7969 E-K.sber	
Name of Omer/Petitioner	Sailding or Project	Agent, Architect or Engineering firm
Company	Tenant Name, 1f any	Street & Number
Street & Nuizer	Location, Street & Number	City State Zip Code
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Telephone Number	Plan Number, If Loows	Kame of Contact Person

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The following alternative(s) and supporting information are proposed as a means of providing an equivalent degree of health, safety or voltare as addressed by the rule;

Note: Please attach any pictures, plans, sketches or required position statements.

VERIFICATION BY DARER - PETITION IS VALID ONLY IF NOTARIZED AND ACCOMPANIED BY REVIEW FEE See Section Ind 69.75 for complete fee information Note: Petitioner must be the devinition por project. Tenants, agent, designers, contractors, attorneys, etc. may not sign petition unless a Pewer of Attorney is submitted with the Petition for Variance Application.

(NME OF FEITIINER, Please type/print) , being duly swarn, 1 state as petitioner that 1 have read the foregoing . petition, that I believe it to be true and I have significant ownership rights in the subject building or project.

_____ Subscribed and sworn to before we this date: _____

Signature of Petitioner

_____ Hy commission expires: Rotary Public

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o be compiled by Nat of Fire Department	DIVISION OF SAFET P.O. BOX 7959 M	Y & BUILDINGS ADISON WI 5370	ns 7	
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PLEASE COMPLETE AND SUBMIT PROMPTLY TO DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS AT THE ADDRESS SHOWN ABOVE, S3 2A (R. 1234)

Register, April, 1991, No. 424

INDUSTRY, LABOR & HUMAN RELATIONS Appendix A

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Please complete and submit PROMPTLY to DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS at the address shown above.

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WISCONSIN ADMINISTRATIVE CODE

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Appendix A

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INDUSTRY, LABOR & HUMAN RELATIONS Appendix A



DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS SAFETY & BUILDINGS DIVISION P.O. 80X 7399 MADISON, WISCONSIN 53707

PERMISSION TO START CONSTRUCTION FEURED IN ADDITION TO EXAMINATION/INSPECTION FLLS

- Location	ъf	Project:

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Location of Project.	
Street:	<u>Ε</u>
(ii):	Plan File Number
County:	Date Plans Rec'd
Occupancy:	
We, the undersigned, request to begin footing and foundation work prior	to approval of the plans in accordence with Ind. 50.14.
Plans have been submitted to the Department of Industry, Labor & Ha requested by Code Iod, 50.32 or Ind. 50.13 has been included with the sc	nion Relations, Safety and Buildings Division, and all information beniltan
We have reviewed the specific code requirements for the budding or str have shown compliance of the drawings.	octure and its use, as set forth in Ind. 50-64, and, where applicable

C We agree to make any changes required after the plans have been review or with a remain or replace noncode complying parts of the foon-dation and or footings. We agree to proceed with the footings and footidation only an event of evolution with the remainder of the budding or structure until approval less been received. We understand that, prior to the start of covariantical, a graduate Primit must be obtained from the local auto-inters having juriduction in accordance with their less and ordinances.

Owner's Separate	Date	Accepted by	Date
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		Plots will be examined within the next	
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INDUSTRY, LABOR & HUMAN RELATIONS Appendix A

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Naccush Department of Industry Labor & Human Relations RE: INSPECTION PROGRESS REPORT Safety and Buildings Division P.O. Box 7569, Madison, WI 53707 File Number Plan No. E-Inspection Date: No. 1. Person Contacted 3 o. Bidg. Final H & V Final Other Final CompSance Date: το. Office Instruction (Check one): Supervisory Review Voluntary Compliance Process \$8-2 Violations explained to owner V Order Corrected X Order Net Corrected 1 2 3 Final INSPECTION FINDINGS tams listed before should be corrected before the next inspection or final hopestion. These items are violations of the Building Onde sectors noted. SAMPLE Owner's Name and Address (if different from above): Deputy's Name: Deputy's Signature: Deputy's Office Hours and Telephone Number: 560-224 (R. 07/28)

WISCONSIN ADMINISTRATIVE CODE 434

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A-51.01 (12) BUILDING. The intent was to consider permanent awnings as part of a building.

- A-51.01 (42) FAMILY. The intent of this definition is to clarify the use of the word "family" in reference to s. ILHR 51.01 (102a); it is not intended as a variance to the definition stated under s. ILHR 51.01 (102a) (b).
- A-51.01 (67a) HABITABLE ROOM. It is the intent that rooms designated as recreation, study, den, family room, office, etc. and providing the only space for living and/or sleeping are considered habitable rooms.
- A-51.01 (115) SETBACK. The intent was to not include gutters, downspouts, outdoor lighting fixtures, signs and similar attachments as parts of a building.

A-51.01 (121) STORIES, NUMBER OF. For further clarification, refer to A-51.02 (14).

A-51.01 (144) WALL (DIVISION).

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- (a) Building division wall is intended to denote a wall constructed in a manner sufficient to meet requirements for a party wall [see "Wall (Party)"] and is acceptable as a dividing wall or enclosing wall when determining the volume of a building as referred to in ss. ILHR 50.07, 50.10 and 50.12.
- (b) Fire division wall is intended to relate to construction that provides separation between portions of a building to satisfy allowable floor area limitations, separation between 2 classes of construction, or separation of hazardous occupancies. For other separations, see "occupancy separations" and isolation of hazards sections of this code.
- A-51.01 (151) WALL (PARTY). It is intended that a property consisting of joining plotted subdivisions owned by one individual, that can be owned by separate individuals, is included in the definition of party wall.

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A-51.02 (14) DETERMINATION OF NUMBER OF STORIES. The following illustrations are provided to give visual aid to this rule and the definition of s. ILHR 51.01 (121) Stories, Number of.



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INDUSTRY, LABOR & HUMAN RELATIONS Appendix A

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A-51.03 (5) (a) EXTERIOR MASONRY CONSTRUCTION. The following Figures 1, 2, 3, 4, 5A and 5B illustrate typical details for various wall construction alternatives, which satisfy the intent of this rule for Type 5—Exterior Masonry Construction.

This Figure Illustrates Typical Betails for an Exterior Wall. The Same Details also are Applicable to Interior Walls.



Note:

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FIGURE 1 Single Wythe Masonry Wall (Bearing Condition)

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This Figure Illustrates Typical Betails for an Exterior Wall. The Same Details also are Applicable to Interior Walls.



FIGURE 2 Single Wythe Masonry Wall (Non-Bearing Condition)

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This Figure Illustrates Typical Details for an Exterior Wall. The Same Details also are Applicable to Interior Walls.

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FIGURE 3 Multi-Wythe Masonry Wall (Bearing Condition)

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Appendix A



FIGURE 4 Multi-Wythe Masonry Wall (Non-Bearing Condition)

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This Figure Illustrates Typical Details for an Exterior Wall. The Same Details are also Applicable to Interior Walls.

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This Figure Illustrates Typical Betails for an Exterior Wall. The Same Betails also are Applicable to Interior Walls,



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Note:

te: Sasonry will rust be laterally supported by horizontal structural components only (i.e., fleer, floor/selling or rouf/refling assenblies). Sasonry cannot rely upon the back-up will component for lateral support.

FIGURE 5B Combination Masonry/Frame Wall (Bearing and Non-Bearing Condition)

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A-51,044 APPROVED TESTING LABORATORIES. The following laboratories have been approved by the department under s. ILHR 50,19. This list is current as of the date of printing this code. Additions and deletions may occur during the effective period of this code. For information regarding the current status of a testing laboratory, call 608-266-1542.

TABLE A-51.044 APPROVED TESTING LABORATORIES

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		AST	M ST/	ANDA	RD T	EST	
Name of Recognized Laboratory	E-84	E-108	E-119	E-136	E-152	E-163	E-648
1. Applied Research Laboritories, Inc., Miami, FL	x	х	x	х	x	х	x
2. Commercial Testing Co., Inc., Dalton, GA	x		х	x	x	_	x
 Construction Technologies, Laboratories, Skokie, IL 			x	_	_	_	
4. Factory Mutual Research Corp., Norwood, MA	х	x	х	х	х	х	x
5. Forest Product Laboratories, Madison, WI*	_		х	_	х	-	x
6. Hardwood Plywood Mfgrs. Assoc., Reston, VA	х	_	_		—		x
7. Northwest Testing Lab., Inc., Portland, OR		_	х		x	x	_
8. Omega Point Laboratories, Inc. San Antonio, TX	х	х	х	х	x	х	x
9. PFS Corporation Madison, WI	Х		х	_	х	_	-
10. Radco Carson, CA	х	_	_	_	_		_
11. Southwest Research Inst., San Antonio, TX.	x	х	х	x	х	х	x
12. Underwriters Lab., Inc., Northbrook, IL	x	х	х	х	х	x	x
13. Univ. of Calif.—Berkley, Richmond, CA	_	х	х	-			_
14. U.S. Testing Co. Fairfield, NJ	х	x	_	х	<u></u>		x
15. U.S. Testing Co. Los Angles, CA	х	х		х	_	_	x
16. VTEC, Inc., Bronx, NY	х	x	x	x	_		x
17. Warnock Hersey Intnl-Inc., Pittsburg, CA	x	х	х		x	x	

* Reference based on research and development data. Facility is not available for conducting routine rating tests.

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A-51.15 (6) EXAMPLE TO DETERMINE TOTAL AGGREGATE EXIT WIDTE.



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Total stair width required;

5th to 4th	- 300 persons $(1007) \times 30''/100$ persons = 90''			
4th to 3rd	~ [400 persons (100%) + 300 persons (50%)} 30 $^{\prime\prime}/100$ persons = 165 $^{\prime\prime}$			
3rd to 2nd	- [500 persons (1007) + 400 persons (507) + 300 persons (257)] 30"/100 persons = 232.5"			
2nd to 1st	- [200 persons (1002) + 500 persons (507) + 400 persons (252)] 30"/100 persons = 165" (Use 232.5")			
lst to exterior	- [600 persons (1007) + (200 persons + 100 persons) (507) + (500 persons + 300 persons) (25%)] 30"/100 persons = 285"			
B ₁ to Ist	- [100 persons (1007) + 300 persons (597) + 400 persons (257)] 10"/100 persons = 165" (Use 150")			
B ₂ to B ₁	- [300 persons (1002) + 400 persons (507)] 30"/100 persons = 150"			
^B] ^{to B} 2	- 400 persons (1002) x 30"/100 persons = 120"			
Stair width required from \mathbf{B}_1 to 1 is 150° as stair cannot decrease in width along				
path to exit [1	nd 51.16 (2) (c)].			

A-51.151 EXIT DISTRIBUTION. The following diagrams are provided to aid building designers in determining proper exit distribution:

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A-51.22 FIRE EXTINGUISHERS. The following information is taken from the National Fire Protection Association Standard #10-1988 - Portable Fire Extinguishers. The information is provided to assist building designers in determining the number, type and location of fire extinguishers needed to comply with the provisions of the standard.

1-4 Classification and ratings of fire extinguishers.

1-4.1 Portable fire extinguishers are classified for use on certain classes of fires and rated for relative extinguishing effectiveness at a temperature of plus 70°F by testing laboratories. This is based upon the preceding classification of fires and the fire-extinguishment potentials as determined by fire tests.

1-4.2 The classification and rating system described in this standard is that used by Underwriters Laboratories, Inc., and Underwriters Laboratories of Canada and is based on extinguishing preplanned fires of determined size and description as follows:

Class A Rating - Wood and excelsior.

Class B Rating - Two-inch depth n-heptane fires in square pans.

Class C Rating - No fire test. Agent must be a nonconductor of electricity.

Class D Rating - Special tests on specific combustible metal fires.

1-5 CLASSIFICATION OF HAZARDS.

1-5.1 Light (low) hazard. Light hazard occupancies are locations where the total amount of Class A combustible materials, including furnishings, decorations and contents, is of minor quantity. This may include some buildings or rooms occupied as offices, classrooms, churches, assembly halls, etc. This classification anticipates that the majority of contents items are either noncombustible or so arranged that a fire is not likely to spread rapidly. Small amounts of Class B flammables used for duplicating machines, art departments, etc., are included provided that they are kept in closed containers and safely stored.

1-5.2 Ordinary (moderate) hazard. Ordinary hazard occupancies are locations where the total amount of Class A combustibles and Class B flammables are present in greater amounts than expected under light (low) hazard occupancies. These occupancies could consist of offices, classrooms, mercantile shops and allied storage, light manufacturing, research operations, auto showrooms, parking garages, workshop or support service areas of light (low) hazard occupancies and warehouses containing Class I or Class II commodities as defined by NFPA 231, Standard for General Storage.

1-5.3 Extra (high) hazard. Extra hazard occupancies locations where the total amount of Class A combustibles and Class B flammables are present, in storage, production use and/or finlshed product is over and above those expected and classed as ordinary (moderate) hazards. These occupancies could consist of woodworking, vehicle repair, aircraft and boat servicing, individual product display showrooms, product convention center displays, storage and manufacturing processes such as painting, dipping, coating, including flammable liquid handling. Also included is warehousing of, or in-process storage of other than Class I and Class I commodities.

3-2 FIRE EXTINGUISHER SIZE AND PLACEMENT FOR CLASS A HAZARDS.

3-2.1 Minimal sizes of fire extinguishers for the listed grades of hazards shall be provided on the basis of Table 3-2.1 except as modified by 3-2.3. Extinguishers shall be located so that the maximum travel distances shall not exceed those specified in Table 3-2.1, except as modified by 3-2.3.

3-2.1.1 Certain smaller extinguishers which are charged with multipurpose dry chemical or Halon 1211 are rated on Class B and Class C fires, but have insufficient effectiveness to earn the minimum 1-A rating even though they have value in extinguishing smaller Class A fires. They shall not be used to meet the requirements of 3-2.1.

3-2.2 Up to one-half of the complement of extinguishers as specified in Table 3-2.1 may be replaced by uniformly spaced 1½ inch hose stations for use by the occupants of the building. When hose stations are so provided they shall conform to NFPA 14, Installation of Standpipe and Hose Systems. The location of hose stations and the placement of fire extinguishers shall be in such a manner that the hose stations do not replace more than every other extinguisher.

3-2.3 Where the floor area of a building is less than that specified in Table 3-2.1, at least one extinguisher of the minimum size recommended shall be provided.

3-2.4 The protection requirements may be fulfilled with extinguishers of higher rating provided the travel distance to such larger extinguishers shall not exceed 75 feet.

Table 3-2.1

Ordinary (Moderate) Hazard Occupancy Light (Low) Hazard Extra (High) Hazard Occupancy Occupancy Minimum rated single extin-4-A* guisher Maximum floor area per unit of A 2-A 2-A 1,000 sq. ft. 3,000 sq. ft. 1,500 sq. ft. Maximum floor area for extin-11,250 sq. ft. 11,250 sq. ft. 11,250 sq. ft. guisher Maximum travel distance to extinguisher 75 ft. 75 ft. 75 ft.

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*Two 2½ gal water type extinguishers can be used to fulfill the requirements of one 4-A rated extinguisher.

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A52.011 HAZARD CLASSIFICATIONS. The following information is provided to assist building owners and designers in determining the hazard classifications of typical building usage or occupancy:

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HAZARD CLASSI- FICATION	DESCRIPTION OF FUEL LOAD	TYPICAL EXAMPLES
Low Hazard	Buildings or structures used for the manufacture or storage of noncom- bustible or low hazard materials, that do not ordinarily burn rapidly, such as but not limited to: asbestos; chalk; non-alcoholic beverages; brick and masonry; ceramic products; gypsum; glass and metals; foods in noncom- bustible containers; fresh fruits and vegetables in non-plastic containers; dairy products in non-wax coated pa- per containers; beer or wine in metal or glass containers; electrical motors and coils; and fertilizer.	Metal fabricating and assembly; foun- dries; water pumping and waste water treatment plants; fertilizer storage; telephone exchanges; freezer ware- houses; storage in closed front metal cabinets; storage of noncombustible or low hazard materials on wood pallets or in paper cartons without significant amounts of combustible wrappings; and similar occupancies with slight combustibles.
Moderate Hazard	Buildings and structures used for the manufacture or storage of moderate hazard materials, which are likely to burn with moderate rapidity, but which do not produce either poison- ous gases, fumes or explosives, such as but not limited to: cloth, burlap and paper bags; bamboo and rattan; canvas and leather belting; baskets; books and paper in rolls or packs; books and shoes; cardboard and card- board boxes; clothing; cordage; furni- ture; furs; glue, mucilage, paste and size; linoleum; silk; soag; sugar; to- bacco products; wax candles; athletic equipment; musical instruments; bev- erages containing more than 12% al- cohol; furniture other than metal; business machines; electronics; and plastic products not classified as high hazard.	Mercantile storage and display; offices; schoolrooms; auto showrooms; aircraft storage; light manufacturing; school shop areas; leather enameling or ja- panning operations; grain elevators with less than one million bushel bulk storage capacity; livestock shelters; fertilizer bagging operations; feed, flour and grist mills; lumber yards; motor vehicle repair shops; petroleum warehouses for storage of lubricating oils with a flash point of 200°F. or higher; photo engraving operations; public garages; stables; upholstering and mattress manufacturing; aircraft servicing; woodworking and millwork- ing; bakeries; boat building operations; food processing; condensed and pow- dered milk manufacturing; paper mills or products; printing or publishing; refuse incinerators; and textile mills.
High Hazard	Buildings and structures used for the storage, manufacture or processing of: highly combustible or explosive prod- ucts or materials, which are likely to burn with extreme rapidity or which may produce poisonous fumes or ex- plosions; highly corrosive, toxic or noxious alkalies, acids or other liquids or ehemicals producing flame, fumes, poisonous, irritant or corrosive gases; materials producing explosive mix- tures or dusts or which result in the division of matter into fine particles subject to spontaneous ignition.	Ammunition, explosive and firework manufacture; artificial flowers and syn- thetic leather manufacture; celluloid and celluloid products; cotton batting and waste processes; dry cleaning es- tablishments using or storing more than 3 gallons of flammable liquids with a flash point below 100°F. or more than 60 gallons of flammable li- quids with a flash point between 100°F. and 140°F.; feather renovating; fruit ripening processes; grain eleva- tors with one million bushel or more bulk storage capacity; hydrogenation processes; match manufacture and storage; metal enameling and japan- ning; nitro-cellulose film exchanges and laboratories; paint and varnish manufacture; perloleum manufacture; processing of paper or cardboard in loose form; pyroxylin product storage and manufacture; smoke houses; facto- ries or warehouses where loose com- bustible fibers or dust are manufac- tured, processed, generated or stored; handling or using flammable liquids under conditions; involving possible re- lease of flammable vapors; and fabrication facilities and research and development areas in which hazardous production materials are used.

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A-52.04 REQUIREMENTS FOR BARRIER-FREE ENVIRONMENTS. The following illustrations are provided to give the designer visual aids for making facilities accessible.



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TURNING SPACE

DOORS IN SERIES





180-360° Turn



Doors in series should be hinged on the same side and should swing in the same direction. A minimum of 18 inches of clear space should be provided on the door knob side of the door. The length of the vestibule should be a minimum of 78 inches.

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EXAMPLES OF ACCESSIBLE TOILET COMPARTMENTS AS SPECIFIED IN TABLE 52.04-A

EXAMPLES OF ACCESSIBLE TOILET COMPARTMENTS





Elongated bowl;
 Wall mounted.

Note: These are examples of toilet room compartments which are located within accessible toilet rooms.



72" Min.

48"

Xin.



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The door of the 54" x 57" water closet compartment having a frontal approach should not align with the placement of the water closet.

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Nore 11: These examples of accessible toilet rooms may be used in health care facilities in that sufficient room for the attendant is provided.

Note 12: These examples may be modified by subscituting pocket sliding doors for the swing doors shown in the examples. Surface-mounted hardware is recommended for pocket sliding doors.

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A-52.04 (3) (a) SITE REQUIREMENTS — PARKING SPACE IDENTIFICATION. The following is a reprint of Wisconsin Department of Transportation's administrative rule, s. Trans 200.07, dealing with the signage for parking spaces designated for the physically disabled:

Trans 200.07 Handicapped parking signs. (1) PURPOSE. The purpose of this section is to define and illustrate the design, size and installation requirements of the official traffic signs required under s. 346.503 (1), Stats., related to reserved parking spaces for handicapped persons.

(2) SIGN DESCRIPTION. (a) The sign shall consist of a white rectangle with longer dimension vertical, having green message, a green arrow, if required under this section, and a blue and white international symbol for the barrier-free environments. The sign may be reflective or nonreflective.

(b) The sign shall include the words "reserved parking" and the words "vehicles with VET or DIS plates or state disabled card" or other words with a similar meaning.

(c) The size of the sign shall be not less than 12 inches by 18 inches. When used on a highway with a speed limit of more than 35 miles per hour, it shall be not less than 18 inches by 24 inches.

(d) A right arrow, left arrow or the words "This Stall" or similar wording shall be included near the bottom of the sign.

(3) SIGN PLACEMENT. Each sign shall be erected on an adequate support. On highways, the vertical distance from roadway to the bottom of a sign shall be not less than 7 feet, except when overhead obstructions necessitate a lower height. In off-highway parking lots, the vertical distance from the parking lot surface, or top of curb if any, to the bottom of a sign shall be not less than 4 feet. A single sign with the message "This Space" or similar wording shall be used to designate a single reserved space. At least 2 signs are required for multiple reserved spaces. When 2 signs are used they shall be located at the outermost limits of the spaces reserved and, by arrow, designate the location of the reserved spaces.

(a) A sign shall be located at the end of an angled or right-angled space and shall be set to face a motorist entering the space.

(b) When the reserved space is parallel to the edge of a roadway, a sign shall be set at an angle of approximately 30° degrees with the line of traffic.

(4) Signs which are in place prior to the effective date of this section may remain in place and have the same effect as the signs described herein for 5 years after the effective date of this chapter provided that they include the international symbol for barrier-free environments and the wording required under (2) (b) either as part of the original sign or on a supplementary placque or placques. The requirements under (3) do not apply to these signs.

A-52.04 (3) (b) SITE REQUIREMENTS — CURB RAMPS. The following is a reprint of s. 66.616 (3) (a), Stats., dealing with the design and construction of curb ramps:

(a) Curb ramping shall be of permanent construction. The ramp shall be at least 40 inches wide. The sides of the ramp shall slope from the sidewalk or apron elevations to the ramp elevation with the widest portion of the side slope not less than 18 inches nor more than 24 inches wide at the curb. The ramp slope may not exceed one inch vertical to 12 inches horizontal from the flow line elevation of the curb. The curb opening shall be not less than 40 inches nor more than 80 inches wide at the flow line of the curb. The taper of the curb from the top of the curb to the flow line of the curb at the curb opening shall be not less than 18 inches nor more than 24 inches wide. The ramp shall be bordered on both sides and on the curb line with a 4-inch-wide yellow stripe or with brick of a contrasting color.

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EXAMPLES OF GRASPABLE HANDRAILS

A-52.04 (3) (d) 3. and (7) (c)

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The handgrip portion of the handrail, if round, shall be not less than l-1/4 in. nor more than 2 in. in diameter. If the shape of the handrail is not round, then the larger dimension shall be not more than 2 in.

If handrails are mounted adjacent to walls or other surfaces, provide a 1-1/2 in. -2 in. clear space between the surface and the handrail. The handrail and the surfaces adjacent to the handrail shall be free of any sharp or abrasive elements.





<u>handrail</u>



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A-52.04 (3) (a) <u>Parking spaces</u>. Where parking spaces are provided, accessible parking spaces, at least 12 feet wide, shall be provided and designated as spacified in Table 52.04-A. <u>Access ramps or curb ramps shall not be located in the accessible parking space or any other parking space.</u>

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A-52.04 (4) (b) LIFTS FOR THE PHYSICALLY DISABLED. Information for lifting devices for the physically disabled and procedures for approval may be obtained from the Division of Safety and Buildings, Bureau of Technical Services, Elevator Section, P.O. Box 7969, Madison, Wisconsin 53707.

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Appendix A

ILHR 52.04 (8) TOILET FACILITY DETAILS. (a) Accessible toilet rooms and compariments. Accessible toilet rooms and toilet compartments shall be sized to privide ease of access, usability and uninterrupted mobility. Fixtures, doors and other obstructions shall be arranged to insure accessibility.

The space underneath lavatories can be utilized in sizing a toilet room for accessibility.



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ACCESSIBLE TOILET ROOMS



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It is recommended that grab bars be from 30 to 42 inches in length and located no more than 12 inches from the back wall.



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ACCESSIBLE BATHING FACILITIES



Side Elevation - Bathtub



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End Elevation - Sathtub





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These diagrams are examples of accessible bathrooms which may be used for motels, hotels, hospitals and nursing homes.

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ACCESSIBLE BATHING FACILITIES



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Section View - Shower



60" turning space

EXAMPLES OF ACCESSIBLE WATER COOLERS



share between the bottom of the apron and the floor or ground at least 27 inches high, 32 inches wide, and 17 inches to 19 inches deep.

A-52.04 (11) (a) 4.a. Wall and post≝ounted cantilevered units

shall have a clear knee

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drinking fountain

A-52.04 (11) (a) 5. 'Alcoves'. Water fountains and water coolers shall be located completely within alcoves, or positioned so as not to encroach into pedestrian walkways. Alcoves shall be not less than 32 inches in width and 18 inches in depth.

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EXAMPLES OF ACCESSIBLE WATER COOLERS

A-52.04 (11) (a) 4.b.

Free-standing or built-in units not having a clear space under then shall have a clear floor space at least 36 inches by 48 inches that allows a person in a wheelchair to make a parallel.



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INTERNATIONAL SYMBOL FOR BARRIER-FREE ENVIRONMENTS

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A 52.07 (11) ACCEPTANCE OF THE ATRIUM SMOKE CONTROL SYSTEM. The following is a reprint of an approved test procedure:

Acceptance test procedure for the atrium smoke management system.

1. All testing shall be in the presence of a representative from the department.

All exhaust and supply-air systems shall be operationally balanced and tested. Complete air-balance reports shall be recorded on each piece of equipment, all exhaust inlets, and all supply outlets.

3. Each automatic initiating device shall be tripped to observe proper function. This test shall be performed on both normal and emergency power.

4. Each manual switch and override shall be tripped to observe proper function. This test shall be performed on both normal and emergency power.

5. All indicator lights shall display the appropriate detection and operating status.

6. Select a location on the first floor approximately $5\,ft.$ outside the perimeter of the atrium opening. The location shall be acceptable to the department's representative.

7. Prepare three two-minute smoke bombs.

8. Ignite all three smoke bombs. When they become fully active, manually activate the atrium smoke-management system.

9. Observe and record the results.

10. After all smoke has been cleared, select an additional location on an upper level acceptable to the department's representative.

11. Prepare three more two-minute smoke bombs.

12. Ignite all three smoke bombs. When they become fully activated, again manually activate the atrium smoke-management system.

13. Observe and record the results.

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14. Acceptable performance shall be movement of the smoke from the source into the atrium and out through exhaust at the top of the atrium. Smoke migration down the corridors shall be limited to no more than a light haze at a point 25 ft from the source. Furthermore, the balconies around the perimeter of the atrium shall maintain a smoke-free zone.

15. Upon the successful completion of these tests, a signed and dated copy of the department's acceptance shall be filed with the test records and a copy shall be maintained with the quarterly test log.

16. A copy of this acceptance test procedure and all plans, specifications, and calculations for the building shall be maintained with the quarterly test log.

A-52.20 Chapter ILHR 16, Wisconsin State Electrical Code, Volume 2, requires the installation of stanby emergency power for certain occupancies; the following is a reprint of s. ILHR 16.46 (1):

(1) WHERE REQUIRED. Standby emergency power of a type recognized by NEC 700-12 (a), (b), (c) or (f) shall be provided as a source of supply for required exit lights, emergency lighting or power in occupancies where people are housed, assembled or confined with a capacity or area equal to or greater than those listed in Column B of Table 16.46.

Appendix A

TABLE 16.46 OCCUPANCIES REQUING STANDBY EMERGENCY POWER

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	Column A Occupancy	Column B Calculated Capacity or Area
1. 2. 8. 4.	Apartment buildings Arenas Art galleries Assembly halls such as church dining rooms and fellowship halls, dance halls, banquet halls, dining rooms, restaurants, taverns, night clubs, school and day care center multi-pur-	50 bedrooms, including efficiency units 800 square feet (Use seated space only) 20,000 square feet
5. 6. 7. 8.	pose rooms, and similar occupancies Assembly halls with stage Auditoriums Banks Bowling alleys	2,000 square feet 1,400 square feet 1,400 square feet 30,000 square feet 200 persons based on 5 persons per alley plus number of spectator seats and 10 square feet per person for bar and dining areas
9. 10. 11. 12. 13.	Centers for developmentally disabled Children's homes Community-based residential facilities Convents Dormitories, including those used in de-	20 inmate beds 20 beds 20 beds 20 beds 200 beds
14, 15, 16, 17,	Exhibition schools Exhibition buildings Factories Field houses Gymnasiums	200 beds 12,000 square feet 30,000 square feet 800 square feet (Use seated space only) 200 persons based on 6 square feet per son for seated space and 15 square feet per
18. 19. 20. 21. 22.	Hospitals HotelsJails Jails Lecture halls Libraries	person for unseated space 20 patient beds 200 rooms 20 inmate beds 1,400 square feet 200 persons based on 20 square feet per person for reading rooms and 100 square
23.	Lodge halls	teet per person for balance 200 persons based on 6 square feet per per- son for seated space and 15 square feet per person for unseated space
24, 25, 26, 27, 28, 29, 30,	Motels Musseums Nursing homes Office buildings Rooming houses Skating rinks Stores	100 rooms 20,000 square feet 20 patient beds 30,000 square feet 200 rooms 3,000 square feet 200 persons based on 30 square feet per person for first floor and 60 square feet per person for first floor and 60 square feet per
31. 32. 33.	Swimming pools (indoor) Theaters and theater lobbies Warehouses	450 square feet 1,400 square feet (Theater and lobby must be combined in determining total area) 120,000 square feet

A-52.60 (1) WATER CLOSETS. The following is a reprint of s. ILHR 84.20 (5) (m) 7. from the plumbing code:

7. A water closet may not be located closer than 15 inches from its center of any side wall, partition, vanity, or other obstruction, nor closer than 30 inches center to center, between water closets. There shall be at least 24 inches clearance in front of a water closet to any wall, fixture or door.

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A-53.11 (4) (c) Increase in roof loads. The following design provisions may be used to determine the increase in roof loads as required by this section.



Lower level of multi-level roofs (when upper roof is part of the same building or on an adjacent building not more than 15 feet away).

SNOW LOAD DISTRIBUTIONS AND COEFFICIENTS, LIMITATIONS



a = distance between buildings < 15 ft.

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Design upper roof for loads applicable to single-level roofs.

*An upper limit of 3 times the basic roof load has been suggested. It should be noted, however, that higher loads have been observed where an upper roof was very long (measured perpendicularly to the step between the upper and lower roofs). On the other hand, for relatively short upper roofs (say less than 50 ft), a reduction below the calculated C_g value may be judged adequate by the designer.

ROOF SHAPES



For both α_1 and $\alpha_2 \, \leq \, 10^\circ$ use Case I only; otherwise use Case I, II and III

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ROOF SHAPES

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Roof areas adjacent to projections and obstructions on roofs



SNOW LOAD DISTRIBUTIONS AND COEFFICIENTS, LIMITATIONS

Appendix A

ROOF SHAPES



Lower of multi-level roofs with upper roof sloped towards lower roof, where α exceeds $10^\circ.$



Design lower roof for loads applicable to multi-level roof plus a portion of the sliding snow from the upper roof.*

Design upper roof for loads applicable to single-level roofs.

*Where snow is likely to slide onto a lower roof from an upper roof, the lower roof should be designed for the load as provided for multi-level roofs plus an additional load produced by the snow that may slide from the upper roof. It is not possible to provide coefficients for this situation, but the following guide is recommended. Because of the resote probability that both upper and lower roofs will have their full load over the full areas simultaneously when sliding occurs, it may be assumed that the lower roof would be carrying its full load and that sliding of 50% of the total weight of the applicable uniformly distributed snow load from the upper roof would occur.

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A-53.11 (4) (d) Roof Designed for Control Flow Drainage. This section refers to the requirements of the Plumbing Code (ch. ILHR 82) for storm drain sizes where control flow drainage roof design is used. The following information from the plumbing code is provided for use by the building designer:

Partial Reprint of s. ILHR 82.36 (4) and (5)

(4) LOAD ON DRAIN PIPING. (a) Storm water drainage. The load factor on storm water drain piping shall be computed in terms of gallons per minute or on the square footage of the horizontal projection of roofs, paved areas, yards and other tributary areas.

(b) Continuous flow devices. Where there is a continuous or semicontinuous discharge into the storm building drain or storm building sewer, as from a pump, air conditioning unit, or similar device, each gallon per minute of such discharge shall be computed as being equivalent to 26 square feet of roof area.

(5) SELECTING SIZE OF STORM AND CLEAR WATER DRAIN PIPING. (a) *Horizontal storm water drain piping*. The pipe size for horizontal drain piping for storm water shall be determined from Tables 82.36-1 to 82.36-4.

Table 82.36-1

MINIMUM SIZE OF STORM WATER HORIZONTAL DRAIN PIPING SERVING ROOF AREAS

Pipe Diameters (in inches)	Maximum	n Roof Areas (i	n square feet)			
(,	Pit	Pitch of Piping Per Foot				
	1/16 inch	1⁄4 inch	1/4 inch	½ inch		
3	650	910	1,300	1,820		
4	1,300	1,950	2,990	3,770		
5	2,470	3,640	5,070	7,020		
6	4,160	5,980	8,320	11,700		
8	9,320	13,000	18,200	26,000		
10	17.680	24,700	33,800	50,440		
12	27,300	41.080	57,200	81,900		
15	52,000	72.800	105,300	146,640		
18	85,800	121,550	174,200	247,000		
21	156.520	179,660	256,880	374,400		
24	187,200	261,560	382,200	546,000		
		4				

Note: Divide square footage by 26 to obtain flow in gpm.

Table 82.36-4

MAXIMUM CAPACITY OF STORM WATER HORIZONTAL DRAIN PIPING FLOWING FULL

Pipe Diameters (in inches)	Maximum C	apacities in Gal	lons Per Minu	ite	
•	Pitch of Piping Per Foot				
	1/16 inch	1/2 inch	1⁄4 inch	½ inch	
3	25	35	50	70	
4	50	75	115	145	
5	97	140	195	270	
6	160	230	320	450	
8	355	500	700	1,000	
10	680	950	1,300	1,940	
12	1,050	1,580	2,200	3,150	
15	2,000	2,800	4,050	5,640	
18	3,300	4,675	6,700	9,500	
21	6,020	6,910	9,880	14,400	
24	7,200	10,060	14,700	21,000	
		1		1	

(b) Vertical conductors for storm water. 1. A vertical conductor for storm water shall not be smaller than the largest horizontal branch connected thereto.

2. Vertical conductors shall be sized in accordance with Table 82.36-5 or the diameter D, where

$$D = 1.128 \sqrt{\frac{A}{X}}$$

Where,

A = the area of the roof in square feet

- X = 300 square feet per square inch for a roof covered with gravel or slag and with a pitch not exceeding ¼ inch per foot; or
 - = 250 square feet per square inch for a roof covered with gravel or slag and with a pitch of greater than ¼ inch per foot; or
 - = 200 square feet per square inch for a roof with a metal, tile, brick or slate covering and of any pitch.

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Table 82.36-5

	Maximum Roof Areas (in square feet)							
Type of Roof	Pipe Diameters (in inches)							
	2½	3	4	5	6	8		
Roofs covered with gravel, slag, or similar material and with a pitch of %" per foot or less.	1,645	2,120	3,780	5,885	8,490	15,125		
Roofs covered with gravel, slag or similar material and with a pitch greater than ¼" per foot.	1,220	1,770	3,150	4,905	7,075	12,600		
Roofs covered with metal, tile, brick, slate or similar material and of any pitch.	975	1,415	2,520	3,925	5,660	10,080		

MINIMUM DIAMETER OF VERTICAL CONDUCTORS

Note: Divide square footage by 26 to obtain flow in gpm.

A-53.15 LOAD COMBINATIONS. It is the intent of this section that the loads specified in ss. ILHR 53.10 through 53.14 be considered to act in the following combinations, whichever is critical, for the design of the building frame, foundation or structural member:

1. Dead load plus live load.

2. Dead load plus wind load.

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- 3. Dead load plus live load plus wind load.
- 4. Dead load plus live load plus crane loads.

Distribution of live loads which would cause the maximum shear, bending moment or stress in structural members should be investigated.

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Section 297. A-54.02 j(4) is repealed and recreated to read:

A-54.02 (4). EXIT DISTANCE. The following illustrations and text are provided to explain the procedure and intent of using the triangulation method of exit distance determination.

Exit travel must terminate at one of the following types of exits:

- 1. Standard exit to grade (ILHR 51.15)
- 2. Enclosed stairways (ILHR 51,17 and 51,18) 3. Horizontal exits (ILHR 51,19)
- 4. Fire escapes (ILHR 51,20)

Therefore, exit distance must be measured from one of these exit types. All exits must lead to a street, alley or open court which is connected to a street or alley.



Procedure:

1. Beginning at designated exit type, measure required exit distance (150 feet, for example) at right angles to and parallel with (on both sides) the exit.

2. Connect end points to form the "exit triangle".

3. All areas within the triangle are within the required exit distance when traveling toward or at right angles to the exit.

4. All the interioe space of a building must fall within the "exit triangles" formed by using the required exits for the building.

5. When measuring exit distance in stairways, only the horizontal travel distance is included in the determination.

Section 298. A-54.02 (4) (c) is created to read:

A-54.02 (4) (c). The use of the term "high hazard" as referred to in this section is intended to apply to the following list of operations and occupancies:

1. Aircraft hangars.

2. Dry cleaning establishments: using gasoline or other volatile flammable liquids.

3. Enameling or japaning.

4. Mills: sugar, starch cereal, feed, flour and grist mills.

5. Paint and varnish: manufacturing, storing, handling, spaying, and other related operations.

6. Proxylin products: manufacture and storage.

7. Repair garages.

Smoke houses.

9. Storage of: explosive gases under pressure (15 psi and over 2500 cubic feet) such as acetylene, hydrogen, natural gas, etc.

10. Storage of: materials with a flash point under 200° F. such as celluloid products, kerosene, oils, etc.

11. Woodworking establishments.

A-57.02 (2) (b) VERTICAL DIVISION WALLS. See drawings and illustrations in s. A 51.03 (5) (a) for typical floor/celling-wall connection details for vertical division walls. Disregard masonry components shown in drawings when masonry is not used in the construction of the vertical division wall.

A-57.07 (3) CHANGES OF ELEVATION WITHIN INDIVIDUAL LIVING UNITS. Section ILHR 57.07 (3) permits the steps, stairs and ramps within individual living units to conform with s. ILHR 21.04 of the Uniform Dwelling Code. The following is a reprint of the applicable portions of that section:

ILHR 21.04 Stairs. Every exterior or interior stairs, except those leading to attics or crawl space or similar non-habitable spaces, shall conform to the requirements of this section.

(1) LANDINGS. (a) Intermediate landings. Intermediate landings located in a flight of stairs shall be at least as wide as the stairs and shall measure at least 3 feet in the direction of travel. Trim and handrails may project no more than 3% inches into the required width.

(b) Landings at the top and base of stairs. A level landing shall be provided at the top and at the foot of every stairs. The landing shall be at least as wide as the stairs and shall measure at least 3 feet in the direction of travel.

(c) *Doors at landings.* Except as provided in subds. I to 4, level landings shall be provided on each side of any door located at the foot or head of a stairway, regardless of the door swing. In the application of the exceptions given in subds. I to 4, stairways to attached garages or porches are considered to be interior stairways.

1. Exception. A landing shall not be required between the door and the head of interior stairs, provided the door does not swing over the stairs.

2. Exception. A landing shall not be required between the door and the head of an interior stairway of 2 or fewer risers, regardless of doorswing.

Exception. A landing shall not be required between a sliding glass door and the head of an exterior stairway of 3 or fewer risers.

4. Exception. The exterior landing, platform or sidewalk at an exterior doorway shall be located not more than 8 inches below the interior floor elevation. The landing platform shall have a length at least equal to the width of the door.

(2) HANDRAILS AND GUARDRAILS. (a) Handrails. Every stairs of more than 3 risers shall be provided with at least one handrail. Handrails shall be provided on all open sides of stairways.

(b) Guardrails. All openings between floors, open sides of landings, platforms, balconies or porches which are more than 24 inches above grade or a floor, shall be protected with guardrails.

(c) Handrail and guardrail details. 1. Height. Handrails shall be located at least 30 inches, but not more than 34 inches, above the nosing of the treads. Guardrails shall be located at least 36 inches above the upper surface of the floor.

2. Open railings. Open guardrails or handrails shall be provided with intermediate rails or an ornamental pattern to prevent the passage of a sphere with a diameter larger than 9 inches.

3. Clearance. The clearance between the handrail and the wall surface shall be at least 1% inches.

Loading. Handrails and guardrails shall be designed and constructed to withstand a 200
pound load applied in any direction.

Exterior rails. Exterior handrails and guardrails shall be constructed of metal, decay
resistant or pressure treated wood or shall be protected from the weather.

(3) STAIR DETAILS. Stairs shall meet the following requirements:

(a) Minimum width. Every stairs shall measure at least 3 feet in width.

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(b) *Headroom*. Every stairs shall be provided with a minimum headroom clearance of 6 feet 4 inches. The minimum clearance shall be measured vertically from a line parallel to the nosing of the treads to the ceiling or soffit directly above that line.

(c) TREADS AND RISERS. Risers shall not exceed 8 inches in height, measured vertically from tread to tread. Treads shall be at least 9 inches wide, measured horizontally from nosing to nosing. There shall be no variation in uniformity exceeding 3/16 inch in the width of tread or in the height of risers. No flight of stairs shall exceed 12 feet in height unless landings are provided.

(d) Winders. Winder steps may be used in stairs where the length of the tread is at least 3 feet and the winder tread measures at least 7 inches in width from nosing to nosing at a point one foot from the narrow end of the tread.

(e) Spiral stairs. Spiral stairs may be used as an exit stairs. The tread shall measure at least 26 inches from the outer edge of the supporting column to the inner edge of the handrail and at least 7 inches in width from nosing to nosing at a point one foot from the narrow end of the tread.

A-57.11 The intent of this section is to apply to floor levels not more than one story below grade (at building).

A-57.11 (1) (f) It is the intent of this subsection that each living unit needs only one means of exit from within the unit and that the entire building be provided with no less than 2 exits.

A-59.14 (2) (c) Exit distance. See the information and illustration contained in A-54.02 (4).

A-60.19 (4) The standard is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

A-60.35 Class A fires are fires in ordinary combustible materials such as wood, cloth, paper, rubber, and many plastics. Class B fires are fires in flammable liquids, gases and greases.

A-60.86 (1) (a), See A-60.19 (4).

A-62.25 (1) CLEARANCE LIMITATIONS. The intent is to require the minimum 7 feet θ inches clearance only in traffic lanes and in all areas normally used by the public to leave from and return to their vehicles.

A-62.50 FIRE EXTINGUISHERS. See A-51.22 for related information.

A-63.41 FORM. Copies of the following form (SBD 5315) are available from the Division of Safety and Buildings, P.O. Box 7989, Madison, Wisconsin 58707. This form may be used to verify compliance with the illumination requirements of this section.

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INTOVINATION SUDGET

Department of INDUSTRY, LABOR AND HUMAN RELATIONS

Safety & Buoding Division Box 7565 201 E. Walt region Averue Medison, Wittonian 53107

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NOTES AND INSTRUCTIONS

- Fixture schedules must accompany this form, or be shown on the plans, or in the specifications. If this form is used in Figure of Riumination plans, four copies of the form shall be submitted.
- A completed SB-118, Plans Approval Application Form, must accompany these relialations if they are submitted separately from the building plans.
- The first sheet of this form must be signed and sealed by a Witcontin registered architect, engineer or electrical designer if the total building volume is greater than 50,000 cubic feet.
- 4. All electric discharge sighting must meet the minimum power factor requirements of (nd 63.40.
- 6. Use of form:
 - A. Calculations are on an individual room or area basis.
 - Enter room or area designation in column (1). This is the correspond to the designations shown on the building plane.
 C. Calciviate the Poor area, in Sq. Ft., of the room of a superstrain column (2).
 - D. Determine the allowable "Watts pur Sq. Common Ind 63.41. Enter this value in column (3).
 - E. Multiply value in column (2 Gravit in column (3). Enter product in column (4),
 - F. Enter fixture type(s) from fixture schedule in column (5).
 - G. Enter number of fixtures of each type, located in the room or area, in column (6).
 - H. Enter the wattage for one fixture of that type in column (7).
 - 1. Multiply value in column (6) by value in column (7). Enter product in column (8).
 - Total columns (4) and (8), entering sheet totals at the bottom of each sheet, and the total of all sheets at the bottom of the final sheet.
 - K. Column (8) building total must be less than, or equal to, the building total in column (4).

Appendix A

A-64.20. EQUIPMENT RATINGS AND SAFETY CONTROLS. The department recognizes the following reference standards for the testing and installation of heating and ventilating equipment:

- (1) American National Standards Institute, Inc., 1430 Broadway, New York, N.Y. 10018:
 (a) GAS-FIRED ROOM HEATERS, Vol. 1, ANSI Z21,11,1;
 (b) GAS-FIRED LOW PRESSURE STEAM AND HOT WATER BOILERS, ANSI
 - Z21.13:

 - (c) GAS UNIT HEATERS, ANSI Z21.16; (d) DOMESTIC GAS CONVERSION BURNERS, ANSI Z21.17;
 - (e) GAS APPLIANCE PRESSURE REGULATORS, ANSI Z21.18;
 - (I) AUTOMATIC GAS IGNITION SYSTEMS AND COMPONENTS, ANSI Z21.20;
 - (b) RELIEF VALVES AND AUTOMATIC GAS SHUTOFF DEVICES FOR HOT WA-TER SYSTEMS, ANSI Z21.22

 - (i) GAS APPLIANCE THERMOSTATS, ANSI Z21.23; (i) GAS-FIRED DUCT FURNACES, ANSI Z21.34; (k) GAS FILTERS ON APPLIANCES, ANSI Z21.35; (l) GAS-FIRED GRAVITY AND FAN TYPE DIRECT VENT WALL FURNACES, ANSI Z21.44;
 - (m) GAS-FIRED GRAVITY AND FORCED AIR CENTRAL FURNACES, ANSI Z21.47;
 - (n) GAS-FÍRED GRAVITY AND FAN TYPE FLOOR FURNACES, ANSI Z21.48; (o) GAS-FIRED GRAVITY AND FAN TYPE VENTED WALL FURNACES, ANSI
 - Z21.49
 - (p) VENTÉD DECORATIVE GAS APPLIANCES, ANSI Z21.50; (q) GAS-FIRED SINGLE FIREBOX BOILERS, ANSI Z21.52;
 - (r) GAS-FIRED HIGH PRESSURE STEAM AND HOT WATER BOILERS (Inputs
 - not over 400,000 Btu/hour), ANSI Z21.59; (s) DECORATIVE GAS APPLIANCES FOR INSTALLATION IN VENTED FIRE-PLACES, ANSI Z21.60;

 - (t) DIRECT GAS-FIRED MAKE-UP AIR HEATERS, ANSI Z83.4; (u) GAS-FIRED HEAVY DUTY FORCED AIR HEATERS, ANSI Z83.5; and (v) GAS-FIRED INFRARED HEATERS, ANSI Z83.6.
- (2) Canadian Standards Association, Certification Division, Rexdale, Ontario Canada, M9W IR3:

(a) Solid-Fuel Fired Appliances for Residential Use, CSAB 366M.

- (3) Energy Testing Laboratory of Maine, South Maine Vocational Technical Institute, South Portland, Maine 04106.
 - (a) Testing for Safety-Requirements and Test Procedures for Solid-Fuel Burning Central Heating Appliances and Combination Oil- and Solid-Fuel Burning Central Heating Appliances, ETLM Standard #78-1.
- (4) International Conference of Building Officials, Inc., 5360 South Workman Mill Road. Whittier, California 90601:

(a) Research Committee Acceptance Criteria for Fireplace Heat Exchangers.

- (5) Underwriters' Laboratories, Inc., 333 Pfingsten Road, Northbrook, Illinois 60062:
 - (a) CHIMNEYS, FACTORY-BUILT, RESIDENTIAL TYPE AND BUILDING (a) GHIMMERS, FROTOKI-BOHL, RESIDENTIAL TIPE AND BUILDING HEATING APPLIANCES, UL 103;
 (b) FACTORY BUILT FIREPLACES, UL 127;
 (c) OIL BURNERS, UL 296;
 (d) CONTROLS, PRIMARY SAFETY FOR GAS- AND OIL-FIRED APPLIANCES, YUL 2005

 - UL 372
 - (e) SOLID-FUEL FIRED CENTRAL FURNACES, UL 391;

 - (d) GAS VENTS, UL 441; (g) HEATING APPLIANCES, ELECTRIC, UL 499; (h) HEAT PUMPS, UL 559;

 - (i) TYPE L LOW TEMPERATURE VENTING SYSTEMS, UL 641;

 - (i) OIL-FIRED BOILER ASSEMBLIES, UL 726;
 (k) OIL-FIRED CENTRAL FURNACES, UL 727;
 (l) OIL-FIRED FLOOR FURNACES, UL 729;
 (m) OIL-FIRED WALL FURNACES, UL 730;

 - (m) OIL-FIRED WALL FURNACES, UL 730; (n) OIL-FIRED UNIT HEATERS, UL 731; (o) HEATERS, AIR AND DIRECT-FIRED HEATERS, OIL-FIRED, UL 733; (p) FIREPLACE STOVES, UL 737; (q) COMMERCIAL-INDUSTRIAL GAS HEATING EQUIPMENT (Inputs over 400,000 Btu/hour), UL 795;

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- (r) HEATERS, ELECTRIC, FOR USE IN HAZARDOUS LOCATIONS; Class I, Groups A, B, C and D, and Class II, Groups E, F and G, UL 823;
 (s) ELECTRIC BOILERS, UL 834;
 (t) HEATERS, ELECTRIC DRY BATH, UL 875;
 (u) FAN COIL UNITS AND ROOM FAN HEATER UNITS, UL 883;
 (v) OIL-BURNING STOVES, UL 896;
 (w) HEATERS, ELECTRIC AIR, UL 1025;
 (x) HEATING EQUIPMENT, ELECTRIC CENTRAL AIR, UL 1096; and
 (z) ROOM HEATERS, SOLID-FUEL TYPE, UL 1482.

Note: The table on the following page is a tabular summary of UL 296 and UL 795.

	1	OIL BURNE	RS UL 296	····.		COMMERCIAL/	INDUSTRIAL GAS U	L 795	
	3 CPH	7 GPH	20 GPH			Mechanical Dr	aft Burners		
FUNCTION/BURNER INPUTS	400.000 Btu	1 million Bru	3 million Btu	Over 20 GPR	Over 400,000	Over 2,500,000	Over 5,000,000	Over	ATM Draft
	or less	or less	or less	3 million Btu	to 2,500,000	to 5,000,000	to 12,500,000	12,500,000	·
					4	4	4	4	90 sec ³
Prepurge timing					4	4	4	4	
Air changes	Voe	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interiock Controls (Recycle)	6	R	8	- 8	Yes	Yes	Үсө	Yes	
Value wal overtravel ⁹						Optional	Yes	Yes	13
lar any prodeute						Yes 20	Yes 20	Yes ²⁰	1.0
Hich gas pressure						Yes 20	Yes 20	Yes 20	12
Low fire start	11	11	11	11	11	1	••		
High limit (press, or temp.)	Yes	Yes	Yes	Yes	Yea	Yes	Yes	Yes	13
Low water cutoff	Boilers ²¹	Boilers ²¹	Boilers ²¹	Boilers ²¹	Boilers	Boilers	Boilers	Boilers	12
Pilot - Intermittent	Optional	Optional	Optional		Optional	Optional	Optional 2	Oprional ²	2 10
Pilot - Interrupted	19	19	13	Yes	Optional	Oprional.	Optional-	operonar-	· · ·
Direct spark ignition	Yes	Yes	Yes	2				_	
System & sequence approved						Var	Vor	Yos	Yes
safety control	Yes	Yes	Yes	Yes	168	165	103		
Approved safety shutoff					Var14	Vac 14	Yes14	Yes ¹⁴	$Yes^{13}, 14$
valves (SSOV)	! IN	BURNER	DESTON		106			Yes	13
No vent valve	1 18	18	16	Van	Vor ⁵	Yes	Yes	Yes	Yes
Pilot valve	1	Ann. 1	Omericanal	Vos	Yes	Yea	Yes	Yes	Yes
Proved pilot	1 Optional	17	17	15 800	15 BCC	10 sec	10 sec	10 sec	13
Trial for pilot	00 4002 117	20 0002, 17	15 0002. 17	10/30 sec ⁷	15 sec^{22}	10 sec	10 sec	10 sec	13
Trial for main flame	90 sec.	4 noo may 16,17	4 acc max15,17	4 sec max	4 sec max	4 sec max	4 sec max	2 sec max	13
Fiame failure response clute	23	23	23	23	5 sec max	l sec max	1 sec max	l sec max	13
Valve closing clase (aak.)	17	17	17	Yes		Yes ²	Yes ²	Yes ²	2,10
Action on finna failura	Recycle			Lockout or	Lockout or	•			1.1.1
ACCION ON FILMS TURBLE	optional ¹	1	1	recycle	recycle ⁶	Lockout	Lockout	Lockout	, ,, ,,,
Action on limit open	Close SSOV	Close SSÓV	Close SSOV	Close \$\$0V	Clese SSOV	Close SSOV	Close SSOV	Close SSOV	

TABULAR SUMMARY UL STANDARD 296 AND UL STANDARD 795

See following page for footnotes.

 $N_{\rm max}$

INDUSTRY, LABOR & HUMAN RELATIONS

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FOOTNOTES TO TABULAR SUMMARY UL STANDARD 296 AND UL STANDARD 795:

SSOV = Safety shutoff valve.

¹May relight if ignition is re-energized within 0.8 sec. See 15 and 16.

²Where intermittent pilot is desired, it is allowable to switch from pilot detector to main flame detector if main flame detector responds to main flame only.

³Without shutters, no prepurge required.

⁴Options (whichever is chosen, a minimum of 4 air changes must be provided):

30 sec at high fire rate; OR

60 sec at ½ high fire rate; OR

90 sec at 1/2 high fire rate.

⁵With 2-stage lightoff, direct ignition is permitted if first stage is 20 gph or less (requirements for 20 gph or less apply). Pilot is required if igniting more than 20 gph.

⁶Lockout on interrupted pilot applications; recycle on intermittent pilot applications.

⁷10 sec for distillate fuel (No. 1 or No. 2); 30 sec for residual fuel (No. 4, 5, 6).

⁸Conventional type pressure burner—none needed. Needed for applications with combustion air supply separate from oil supply.

 $^9 \rm Valve$ seal overtravel switch can be wired into either the start circuit or pre-ignition interlock circuit (if provided).

 $10 {\rm Interrupted}$ pilot over 2.5 million Btuh if modulating or high/low firing rate. Otherwise over 5 million Btuh.

¹¹If low fire start is not proved, UL will test for smooth lightoff at high fire.

¹²Intermittent up to 5 million Btuh unless firing rate control is over 2,500,000 Btuh.

¹³Requirements same as mechanical draft burners.

¹⁴See Table 1 at end of footnotes for main gas valves.

 $^{15}\mathrm{Up}$ to 15 sec is permitted if intermittent ignition is employed, or if the ignition system is reenergized in not more than 0.8 sec after flame is extinguished.

16 Up to 30 sec is permitted if intermittent ignition is employed, or if the ignition system is re-energized in not more than 0.8 sec after flame is extinguished.

 $^{17}\mathrm{If}$ proved pilot igniter is used, timings for over 20 gal flame safeguard control may be applied.

¹⁸Required for electrically ignited, gas-piloted systems.

19Interrupted pilot may be required if using flame safeguard control with a proved pilot. Otherwise, interrupted pilot is optional.

 20 Safety shutdown by this limit can be accomplished either by manual reset limits or in the programmer limit circuit.

²¹Required on boilers fired by oil burners-not a requirement of UL 296.

²²If intermittent pilot is used, no main burner flame-establishing period is required.

 23 If a separate oil value is used, it must close within 5 sec max when de-energized.

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Appendix A

TABLE 1—AUTOMATIC MAIN GAS SAFETY SHUTOFF VALVES (SSOV) FOR MECHANICAL OR ATMOSPHERIC BURNERS—UL 795 REQUIREMENTS, EFFECTIVE OCTOBER 1, 1974

	400,000 to 2,500,000 BTUH	Over 2,500,000 to 5,000,000 BTUH	Over 5,000,000 to 12,500,000 BTUH	Over 12,500,000 BTUH
Main Valve Requirement	One valve rated for safety shutoff services (SSOV). Closing time 5 sec.	Two SSOV's in series, or one SSOV of the type incorporating a valve seal overtravel interlock. Closing time 1 see max.	Two SSOV's in series, one of which incorporates a valve seal overtravel interlock. Closing time I sec max.	Two SSOV's in series, one of which incorporates a valve seal overtravel interlock. When fuel gas has specific gravity of less than 1.0, include a N.0. % include a N.0. % include a N.0. % include a N.0. % include a v.0. % include a start include a start i

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Appendix B

The material contained in this appendix is for clarification purposes only. The information is for the benefit of fire department inspectors making inspections pursuant to s. 101.14 (2) (b), Stats. (See s. ILHR 50.02 Special Note #2)

Rule Number	Topic of Rule	Subject of Investigation				
	Ch. ILHR 50—Administration and Enforcement					
50,25	Petition for Variance	1. Fire Department Position Statement (form SB-8A)				
	Ch. ILHR 51—Definitions and	Standards				
51.047	Fire Rated Door Assemblies in Fire Rated Construction	1. Maintenance 2. Operation 3. Unobstructed				
51.047 (6)	Door Closing Devices (Fire Doors)	1. Maintenance 2. Use of Fusible Link				
51.06 (3)	Foam Plastics (Thermal Barrier)	1. Proper Type and Correct In- stallation 2. Maintenance				
51.15 (2)	Exit Doors	1. Maintenance 2. Unobstructed				
51.15 (3)	Exit Hardware	 Proper Type Signage Security Locks and Key Locks Occupied Periods 				
51.15 (4)	Exit Doorway	 Proper Size and Type Maintenance 				
51.16 (5) (e)	Stairways and Ramps	1. Area Beneath Stairways and Ramps				
51.161	Handrails	 Maintenance Replacement, when Needed 				
51.162	Guardrails	1. Maintenance 2. Replacement, when Needed				
51.165	Stairway Identification	1. Proper Posting 2. Proper Signage on Buildings Constructed After January 1, 1982				
51.166	Stairway Discharge	1. Proper Type 2. Maintenance				
51.167	Exiting Through Areas of Hazard	1. Proper Type				
51.20	Fire Escapes	1. Maintenance				
51.21	Standpipe & Hose Systems	1. Correct Installation 2. Maintenance				
51.22	Fire Extinguishers	1. Proper Type 2. Location 3. Maintenance 4. Operational				

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Rule Number	Topic of Rule	Subject of Investigation
51.23	Automatic Sprinklers	 Water Supply Obstruction of Sprinkler Heads Location of Fire Department Connection Accessibility of Fire Depart- ment Connection
51.24 (5)	Fire Alarm Systems	1. Operation & Testing 2. Location of Pull Stations
51.245	Smoke Detectors	1, Correct Installation 2. Maintenance of Detectors 3. Operational
	Ch. ILHR 52—General Requi	rements
52.01	Fire Prevention, Detection and Suppression (High Rise Construc- tion)	1. Proper Installation 2. Maintenance 3. Operation and Testing
52.015	Automatic Fire Sprinkler Systems for Low Rise Buildings	1. Proper Installation 2. Maintenance 3. Operation and Testing
52.02 (2)	Fire Department Access Openings	1. Proper Type, Size and Loca- tion 2. Maintenance
52.07	Atriums	1. Proper Type 2. Smoke Control System 3. Maintenance 4. Test Reports
52.19	Gas and Oil Lamps	1. Proper Type and Clearance 2. Maintenance
52.20	Electrical Work	1. Electrical Check List
52.21	Location and Maintenance of Ex-	1. Maintenance
52.22 52.23	its Repairs Cleanliness	1. Conformance 1. Conformance
	Ch. ILHR 53—Structural Requ	uirements
53.63 (1) (a)-(c)	Firestops	1. Maintenance
	Ch. ILHR 54—Factory, Office, I	Mercantile
54.01(3)	Fire Door Closing Devices	1. Maintenance 2. Operational
54.02	Number and Location of Exits	1. Maintenance 2. Proper Exit Hardware
54.06	Exit Doors, Exit Lights	1. Maintenance of Illumination
54.07	Passageways	1. Maintain in Clear, Unob- structed Condition
54.08	Stairway Enclosure	1. Maintenance
54.11	Lighting	1. Maintenance of Illumination
54.14	Isolation of Hazards	1. Maintenance

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Rule Number	Topic of Rule	Subject of Investigation
54.145	Fire Extinguishers	1. For Buildings Constructed After January 1, 1982: A. Proper Type B. Location C. Maintenance D. Operational
54,15	Standpipes	1. Maintenance
54,17	Fire Alarm	1. Maintenance 2. Location of Pull Stations
54.20	No Smoking Signs	1. Proper Posting
	Ch, ILHR 55Theaters and As	sembly Halls
55.07	Number and Location of Exits	1. Maintenance of Illumination
55.08	Type of Exits	 Maintenance To be Clear and Unob- structed
55.09	Stairways	1. Maintenance 2. To be Clear and Unob- structed
55.10	Exit Doorways and Doors	1. See 51.15
55.11 55.12	Exit Lights Required Exit Width	1. Maintenance of Illumination 1. To be Unobstructed
55.14	Width of Aisles	1. To be Unobstructed
55.15	Lobbies and Foyers	1. To be Clear and Unob- structed
55.17	Obstructions	1. Maintenance
55.22 (3)	Proscentum Wall (Openings)	1. Proper Type 2. Maintenance
55.24	Automatic Smoke Outlets	1. Operation
55.29	Isolation of Hazards	1. Maintenance of Enclosures
55.33	Standpipes	1. Correct Installation 2. Maintenance
55.34	Fire Extinguishers	1. For Buildings Constructed After January 1, 1982: A. Proper Type B. Location C. Maintenance D. Operational
55.43	Openings	1. Operational 2. Maintenance
55.45	Relief Outlets	1. Maintenance
55.46	Electric Wiring	1. Electrical Check List
55.50	Maintenance	1. Elimination of Fire Hazard

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Rule Number	Topic of Rule	Subject of Investigation
	Ch. ILHR 56—Schools and Places of	of Instruction
56.03	Smoke Detection	1. For Existing Buildings with Basements not Protected by Automatic Sprinklers or Smoke Detectors as of January 1, 1982, Automatic Smoke Detector Sys- tem in Basement Corridors by January 1, 1983. A. Correct Installation B. Maintenance of Detectors
56.06	Exit	1. Maintenance
56.06 (6)	Exit Lights	1. Maintenance of Illumination
56.07	Required Exit Width	1. To be Unobstructed
56.09	Passageways	1. To be Unobstructed 2. Maintenance of Exit Doors
56.15	Isolation of Hazards	1. Maintenance of Enclosure
56.18	Fire Extinguishers	1. Proper Type 2. Location 3. Maintenance 4. Operational
56.19	Fire Alarms	1. Operation of System 2. Location of Pull Stations
56.20	Standpipes	1. Correct Installation 2. Maintenance
56.34	Exit Doors and Lights	1. Maintenance of Doors 2. To be Clear and Unob- structed
56.38	Fire Alarms	1. Operational 2. Testing 3. Location of Pull Stations
56.43	Exit Doors and Exit Lights	1. Maintenance of Doors
Be Clear and Unobstructed		2. 10
56.46	Fire Alarms	1. Operational 2. Testing 3. Location of Pull Stations
	Ch, ILHR 57—Residential Oco	cupancies
57.01 (3)	Basement and Ground Floor Pro- tection	1. Proper Installation 2. Maintenance
57.02	Allowable Height and Area (Corridor Door Hold-Open De- vice, Access Roadways)	1. Maintenance 2. Operational 3. Clear and Unobstructed
67.03	Number and Location of Exits	1. Maintenance 2. Proper Exit Hardware
57.05	Type of Exits	1. Maintenance 2. To be Clear and Unob- structed 3. Proper Illumination
57.08	Enclosure of Interior Stairways and Shafts	1. Maintenance of Enclosure

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Rule Number	Topic of Rule	Subject of Investigation
57.09	Passageways	1. To Be Clear and Unob- structed 2. Maintenance of Exit Doors
57.10	Illumination of Exits and Exit Signs	1. Maintenance of Illumination and Signs
67.14 67.15	Isolation of Hazards Standpipes	1. Maintenance of Enclosure 1. Correction Installation 2. Maintenance
57.16	Smoke Detectors - All Buildings Except CBRF	 For Existing Buildings Con- structed Before May 23, 1978, Specified Smoke Detectors by January 1, 1983. A. Correct Installation B. Maintenance of Detectors 2. For Buildings Constructed After January 1, 1983: A. Correction Installation B. Maintenance of Detectors C. Interconnection of Corridor/ Stairway Detectors to Required Manual Fire Alarm System D. Corridor/Stairway Smoke Detectors Provided with Emer- gency Power, if Required for the Building
57.165	Smoke Detectors CBRF	 Correct Installation Maintenance of Detectors Interconnection of Stairway, Complete Corridor and Com- mon Use Room Detectors Interconnection of Sleeping Room Detectors if Smoking is Permitted
67.17	Fire Alarms	1. Operation of Systems 2. Location of Pull Stations
57.18	Fire Extinguishers	1. For Buildings Constructed After January 1, 1982: A. Proper Type B. Location C. Maintenance D. Operational
57.19	Rowhouse (Living Unit Separa- tion)	1. Proper Installation 2. Maintenance
	Ch. ILHR 58-Health Care	Facilities -
58.04-58.05	Number, Type and Location of Exits	1. Maintenance 2. Proper Exit Hardware
58.06	Stairs	1. Maintenance 2. To Be Clear and Unob- structed 3. Proper Illumination.
58.18	Marking of Means of Egress	1. Correct Signage 2. Proper Illumination
58.20	Key Locking Hardware	1. Correct Hardware Type and Installation 2. Building Satisfies Rules for Detention and Correctional Fa- cilities 3. Maintenance

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Rule Number	Topic of Rule	Subject of Investigation
58.21-58.23	Protection of Openings	1. Maintenance
58.24	Isolation of Hazards	1. Maintenance of Enclosure and Required Automatic Sprin- kler System
58.25	Rubbish Chutes and Laundry Chutes	1. Protection of Enclosure 2. Sprinkler System Mainte- nance
58.27	Detection, Alarm and Communi- cation Systems	1. Operational 2. Testing 3. Location of Pull Stations 4. Correct Installation 5. Maintenance
58.28	Standpipes	1. Correct Installation 2. Maintenance
58.29	Automatic Sprinkler and Other Suppression Systems	1. Water Supply 2. Obstruction of Sprinkler Heads 3. Location and Accessibility of Fire Department Connection
58.30-58.31	Smoke Barriers, Corridor Walls	1. Correct Installation 2. Maintenance
	Ch. ILHR 58—Places of De-	tention
58.48-58.49	Number, Type and Location of Exits	1. Maintenance 2. Proper Exit Hardware
58.50-58.51	Stairways and Smokeproof Tow- ers	1. Maintenance 2. To Be Clear and Unob- structed 3. Proper Illumination
58.575	Emergency Lighting	1. Proper Type 2. Maintenance
58.58	Marking of Means of Egress	1. Correct Signage 2. Proper Illumination
58.59	Door Locks	1. Correct Type and Installa- tion 2. Maintenance
58.60-58.61	Protection of Openings	1. Maintenance
58,62	Isolation of Hazards	1. Maintenance of Enclosure
58.63	Standpipes	1. Correct Installation 2. Maintenance
58.635	Fire Extinguishers	1. Proper Type 2. Location 3. Maintenance 4. Operational
58.64	Fire Alarms	1. Operation of System 2. Location of Pull Stations
58.65	Automatic Smoke Detection Sys- tems	1. Correct Installation 2. Maintenance of Detectors
58.67	Smoke Barrier	1. Correct Installation 2. Maintenance

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Rule Number	Topic of Rule	Subject of Investigation
	Ch. ILHR 59-Hazardous O	ccupancies
59.13	Type of Exits	1. Maintenance 2. Proper Exit Hardware
59,14	Number and Type of Exits	1. Maintenance 2. To Be Clear and Unob- structed
59.17	Enclosure of Stairways and Shafts	1. Maintenance of Enclosures
59.19 59.21	Illumination Levels Isolation of Hazards	1. Proper Illumination 1. Maintenance of Enclosures
59.23	Fire Protection	 Operation of System Proper Type of Extinguisher Location of Extinguisher Extinguisher Operational Water Supply Obstruction of Sprinkler Heads Location and Accessibility of Fire Department Connection Maintenance of Systems
59.24	Fire Alarms	1. Operation and Testing 2. Location of Pull Stations
	Ch. ILHR 60—Child Day Ca	re Facilities
60.12	Doors	1. Joint Inspection Made
60.16	Electrical Work	1. Electrical Check List
60.19	Operating Features	1. Owner Responsibility
60.31	Exiting	1. Joint Inspection Made
60.32	Required Exit Width	1. Width to be Unobstructed
60.33	Passageways	1. Joint Inspection Made
60.34	Stair and Shaft Enclosure	1. Joint Inspection Made
60.35	Fire Extinguisher	1. Proper Type 2. Location 3. Maintenance 4. Operational
60.36	Fire Alarm System	1. Operation and Testing 2. Location of Pull Station
60.37	Hazardous Areas	1. Joint Inspection Made
60.38	Exit and Emergency Lighting	1. Joint Inspection Made
	Ch. ILHR 61—Community-Based R	esidential Facilities
61.10 (1) (h)	Construction, Building and Site	1.Maintenance
61.10 (3)	Smoke Separation	1. Maintenance
61,12	Exiting and Doors	1. To be Clear and Unob- structed 2. Maintenance
61.14	Smoke Detection	1. Correct Installation 2. Maintenance of Detectors
61.18 (4)	Ramp Requirements	1. Maintenance

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Rule Number	Topic of Rule	Subject of Investigation
61.20	Fire Extinguisher	1. Proper Type 2. Location 3. Maintenance 4.Operational
61.24	Heating and Ventilating	1. Maintenance
61.25	Electrical	1. Electrical Check List
	Ch. ILHR 62-Subch. I—Open Parl	king Structures
62.26	Number, Location and Type of Pedestrian Exits	1. Maintenance
62.29	Illumination and Exit Lights	1. Maintenance of Illumination and Exit Lights
62.30	Fire Protection	1. Correct Installation of Stand- pipes
62.32	Isolation of Hazards	1. Maintenance
	Ch. ILHR 62-Subch. III-	Tents
62.46	Fire Hazards	1. Elimination of Fire Hazard
62.47	Exits	1. Maintenance
62.49	Electrical Installation	1. Proper Installation
62.50	Fire Extinguishing Equipment	1. Proper Type 2. Location 3. Maintenance 4. Operational
62.51	Illumination, Exit Lights and Signs	1. Maintenance of Illumination
	Ch. ILHR 62-Subch. V-Assembly	Seating Facilities
62.72	Inspection and Maintenance	1. Proper Maintenance 2. Conformance With Rules
62.75	Means of Egress	1. Maintenance 2. To Be Clear and Unob- structed
62.78	Isolation of Hazards	1. Maintenance of Enclosure
62.80	Illumination and Emergency Lighting	1. Proper Illumination
62.81	Fire Prevention	1. Maintenance
Ch. ILHR	62—Subch. VII—Pedestrian Access S	tructures Connecting Buildings
62.98	General Requirements Construc- tion	1. Protection of Openings 2. Maintenance
62.99	Exiting	1. Maintenance 2. To Be Clear and Unob- structed
	Ch. ILHR 64-HVA	VC
64.08	Exhaust Ventilation System	1. Maintenance
64.09	Combustion Air Intakes	1. Maintenance
64,16	Air Cleansing Devices	1. Maintenance

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Rule Number	Topic of Rule	Subject of Investigation
64.19	Location of Outside Air Intakes and Exhausts for Mechanical Ventilating Systems	1. Maintenance
64,21	Location of Equipment	1. Proper Equipment 2. Maintenance
64,22(5)	Unvented Space Heaters	1. Use Prohibited
64.22 (7)	Fireplaces and Fireplace Stoves	1. Proper Installation 2. Maintenance 3. Operation and Testing
64.23 (5) (a) and (b)	Piping	1. Installation 2. Maintenance
64.42	Fire Dampers and Fire Curtains	1. Maintenance
64.45	Chimneys, Smoke Stacks, Gas Vents, Mechanical Draft and Venting Devices	1. Maintenance
64.46	Masonry Chimneys	1. Maintenance
64.47	Metal Smokestacks	1. Maintenance
64.48	Factory-Built Chimneys and Gas Vents	1. Maintenance
64.49	Gas Vent	1. Maintenance
64.50	Chimney and Vent Connectors	1. Maintenance
64.51 (4)	Fire Protection	1. Correct Equipment 2. Proper Installation 3. Proper Clearances and Pro- tection
64.52(1)	Maintenance	1. Inspection of Chimney After Fire Before Reuse
64.61(2)	Repair Areas	1. Maintenance
64.62 (2)	Vehicle Service Buildings	1. Maintenance
64.63 (2)	Garages	1. Maintenance
64.67 (5) (e), (f) and (g)	Kitchens	1. Maintenance
64.67 (6)	Automatic Suppression Systems	1. Correct System 2. Proper Installation 3. Maintenance and Operational

See s, ILHR 50.02—Special Note #2