DEPT. OF INDUSTRY, LABOR & HUMAN RELATIONS 261 $_{\rm Appendix}$

APPENDIX A

The material contained in this 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-50.10-50.25 Forms. The following forms (SB2, 8, 8A, 118, 198, 224B and SBD-4927) are referred to in sections Ind 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 7946, Madison, Wisconsin 53707.

Appendix

112 EV: 7/	74	ι	Pepartment of Industry	y, Labor and Human R	elations	
ISPECTIO	N DATE	·]	Inspection Re	port and Or	ders	
WNERS N	AME			OCCUPANCY INSPEC		
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	An Inspec	tion of the above	necupancy discloses via	plations of orders of the	Deat of Industry Labor & Human	
	Relations				Dept. of Industry, Labor & Human Wisconsin.	
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		• Keep u	s informed			 ,.
	"Failure of Shall cons	f an employer rea- titute failure by th	onably to enforce compli e employer to comply wi	iance by employes with su th such statute or order."	ech statute or order of the Department Sec. 402.57 Wis, Stats.	(
MAIJANC	CE DATE	VIOLĀT	IONS EXPLAINED TO:		TLE	
				DISTRICT NO.		
<u>, </u>		all Correspondence		Deputy	Safety & Buildings D	ivision

SB-8(6/77)
PETITION FOR MODIFICATION
OF A RULE IN THE
WISCONSIN ADMINISTRATIVE CODE

WISCONSIN DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS DIVISION OF SAFETY & BUILDINGS P. O. BOX 7946. MADISON, WI 53707

PETITION REVIEW FEE - \$75.00

me of Owner		Building Occupancy or Use		Agent, Architect or	Engineering Firm
трапу		Tenant Name, if any		Street & No.	
eet & No.		Building Location, Street & ?	Vo.	City	State & Zip
·	State & Zip	Crity	County	Phone	
Rufe Ind.		of the Wisconsin Adminstrati	ve code cannot	be entirely satisfied t	ecause:
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n Rieu of complying a degree of safety:	exactly with the	rule, the following alternative	is proposed as a	means of providing	an equivalent
Jegree or salety.					
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Supporting arguments	are:				
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Vertification by own	e <i>r</i>				
		, being duly sworr	n, says he is the i	oetitioner herein, thi	is he has read the fore
going petition and th		e, as he verily believes.	•		
				signature of owner	т .
subscribed and sworr	to me this	day of 19 in	Co	unty, Wisconsin.	
				Notary !	Public
				ivotary :	- upinc
Commission Action			Му сог	nmission expires:	

Appendix

POSITION STATEMENT: To be compiled by Chief of Fire Department SB 8-A (2-77)

WISCONSIN DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS DIVISION OF SAFETY & BUILDINGS P.O. BOX 7946 MADISON WI 53707

City State & Zip City 1. I have read the petition for modification of rule: Ind	reet & No.	City Sta	
City State & Zip City 1. I have read the petition for modification of rule: Ind 2. I recommend (Check appropriate box)	County	Phone	
1. I have read the petition for modification of rule: Ind 2. I recommend Openial App (Check appropriate box)			nment *
2. I recommend Denial App (Check appropriate box)	roval Conditional A	pprova! No Cor	nment *
(Check appropriate box)	Conditional A	Approve! No Cor	mment *
Building Location, Street & No. City State & Zip			
•			
	non-fire safety issues such as	sanitary, energy conservatio	on, structural,
parrier tree environments, etc.			
4. I find no conflict with local rules and regulations			
I find that the petition is in conflict with focal rules and	regulations		
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Signature of Fire Chief	e de la companya della companya della companya de la companya della companya dell	Date .	.

PLEASE COMPLETE AND SUBMIT PROMPTLY TO DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS AT THE ADDRESS SHOWN ABOVE.

PLANS APPROVAL APPLICATION

Department of INDUSTRY, LABOR AND HUMAN RELATIONS

Safety & Building Division Box 7946 201 E. Washington Avenue Madison, Wiscontin 53707

\$8 -118 (Rev. 6/77)

THIS APPLICATION IS FOR:	☐Building Plan App	rovat DHeat	ing Plan Approval	[]Other_		
PLANS FOR: New Builds Hevision to	ng []Addition []All previously approved plans		tural 🏻 🗆 Footing	& Foundation		,
PROJECT INFORMATION						
sme of Owner		Building Occupa-	ncy or Use		Designer or D	esign Firm
		Yana Mana			Street & Na.	
ompany		Tenant Name, d	any		Street & rkg.	
freet & No.	· · · · · · · · · · · · · · · · · · ·	Building Location	n, Street & No.	···•	City	State & Zip
City	State & Zip	City Village Town		County	Рооле	· · · ·
revious Owner if any		Return Plans to	OAner []	Designer		
	ASS AULE 100 AS 200	1				**************
DETERMINATION OF FEES SEE BACK OF PAGE	FOR FEE CALCULATION			ULE		FOR OFFICE USE ONL
	4a Building Plan Fee	s \$				Amount Rec'd
Total Voluma	46 Reating Ventilasi	on Fee \$				Date Rec'd
	4c Other	\$				Heceipa No
	4d Inspection	\$				
	4e TOTAL	\$				
OTHER INFORMATION						
5a Type of Construction						
☐Fire Resistive Type A		d 🗆 🖺 Exterior Ma	sonry	Frame Protected	I	
[]Fire Resistive Type B	☐ Hewy Timber	☐ Meral Fram	e Unprotected (Wood Frame i	Inprotected	
5b Mechanical Information	Type of Heating		Net Rating n	f Fleating Units		
		•				
5c SOft BEARING CAPACI	ITY (See Ind (53.71)		Ys	n No		
Method used to determin		_	1 0	1 0	Sprinkler Syste	m Provided?
	Venturd Presumpto				Fire Alarm Pro	
Check Value Used	PSF 2000 () 3000 6000 [12000 []		أ ا			n System Provided?
	1000 🖸 17000 🖸	, Office	1 2		Emergency Pay	•
				, .,	-	Terr roman
Architect Engine	CUND 50,131 omputations and specific or □Designer in Wisconsis additions, contains over 50,	as provided in S	Section 443,01 of	the Wisconsin	Statutes. 🔲 Lan	
Signature of designer			Registration Nu	mb.s-	_	Date

of a Wisconsin registered architect, engineer or in the case of heating and ventilating, designer

Plans for buildings over 50,000 cu. It will not be approved until the name of the supervising professional is known.

NOTE: The supervising professional shall file a written report with the Department upon completion of construction. [Ind 50.13 [3] (ci]

4. DETERMINATION OF FEES

INSTRUCTIONS:

- Refer to fee schedule shown below.

- Enter area of each floor in appropriate space.

 Enter hight of each floor (Height includes attic and space between floors).

 Compute volume of each floor/attic space and total volume for building.*

 Compute building and/or heating fee per building.
- Enter other fee (if any) in space per building. Compute inspection fees per building.
- Total fees and transfer information to front page.

"The "total volume" is determined by the overall outside dimensions of length, width and height.

EXAMINATION FEES PER BUILDING

Fire Escapes \$25.00 per fire escape

Building Plan Fee: Fee, 60 per 1000 cu. Fe. Minimum Fee \$25.00 Minimum Fee \$25.00
Histing & Venitating Plan Fee: Fee. 40 per 1000 cu. ft. Minimum Fee \$25.00
Attentions to bidge: Fee \$1.50 per \$1,000 ett. cost. Minimum fee \$25.00
*Structurát Plans \$25.00 per Bidg. **Structural Pann acouse per noig: Revision to approved Plan \$25.00 **Exhaus Systems \$25.00 per plan (Govt. Owned only) **Spray Booths \$25.00 per Plan (Govt. Owned only) **Permit to Stert Construction (SB-198) \$35.00 per Bidg. Footing & Foundation Plans \$25.00 per Bldg. *Stadium, Grandstand, Bleacher \$10,00/1000 Seats Minknum Fee \$25,00

- (1) Heating & Ventilating Plans submitted separately
- require an inspection fee of \$44.00.

 12) Plans other than building or healing require an inspection fee of \$26.00.
 (3) Warehouses-Reduce plan examination fees (Not
- inspection fees) by 30%.
 (4) Building plan fee for Bldgs, exceeding 1,000,000 cu. ft. is \$600 plus \$0.40 per 1,000 cu. ft. in excess of 1,000,000 cu. ft..
- (5) Heating & Ventilation plan Fee for Buildings exceeding 1,000,000 cu, ft. is \$400 plus \$0.25 per 1000 cu, ft. in excess of 1,000,000 cu, fs.

INSPECTION FEES PER BUILDING:

8uiding Volume/Alt. Cost Up to 25,000 cu. ft./dollars 25,001 - 100,000 cu. ft./dollars 100,001 - 500,000 cu. ft./dollars Fee \$50.00 \$75.00 \$100.00 500,001 - 1,000,000 cu, fr./dollars \$125.00 In excess of 1,000,000 cu, fr./dollars \$150.00

No. of Floors	Area .	Řeight	Total each Floor	Total Vol./1000	x	Exam Fee	Building Plan Fee	
Basement/Ground	×		ev.ft.	}	x.	.60 -	\$	
1st Floor	×	,	ev.ft.	Total Vol./1000	×	Exam Fee	Heating Ventilating Fee	
2nd	·×		= cu. /(.	1	×	.40 =	s	
3rdi	×		≖ cυ. ft,	Structural \$25.00		Alteration \$1.60/1000	Olper	
4th & 5th attic & etc.	*		≠ cu. (1,	□Permit to start \$35 □Ftg. & Found \$25			s	
	Total Volume or Total Cost of Alteration						Inspection Fee	
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							Total	
	TRA	NSFEA ALL	. DOLLAR AMOUNTS AND	VOLUME TO FROM	T PA	GE	1_	

DEPT. OF INDUSTRY, LABOR & HUMAN RELATIONS 267 $_{\rm Appendix}$

SB~198 Rev. 6/77



Location of Project:

DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS SAFETY & BUILDINGS DIVISION P.O. BOX 7946 MADISON, WISCONSIN 53707

PERMIT TO START CONSTRUCTION FEE \$35.09 (per bldg.) IN ADDITION TO EXAMINATION/INSPECTION FEES

Owner:	E
Street:	Pian File Number
City:	Date Plans Rec'd
County:	
Occupancy:	
We, the undersigned, request to begin footing and foundation we	ork prior to approval of the plans.
Complete plans have been submitted to the Department of Ind Buildings, and all information requested by Code Ind. 50.12 has	ustry, Labor & Human Relations, Division of Industrial Safety and been included with the submittal.
We have reviewed the specific code requirements for the buildir Ind. 56.02, Ind. 57.01 (construction, height and allowable area applicable, and have shown compliance on the drawings.	ng or structure including, but not limited to, Ind. 54.01, Ind. 55.02, b, Ind. 50.12, Ind. 51.03, Ind. 53, Ind. 55.05 and Ind. 54.50, when
We agree to make any changes required after the plans have be the foundation and/or footings.	en reviewed and to remove or replace noncode complying parts of
We agree to proceed with the footings and foundation only an until approval has been received.	d will not continue with the remainder of the building or structure
Owner's Signature Date	Accepted By Date
Name:	Dept. of Ind., Labor & Human Relations Div. of Industrial Safety & Buildings
Address:	Not Accepted Because
Designer's Signature Date	Plans will be examined within the nextdays.
Name:	NOTE: Footing and foundation plans submitted prior to final building plans will not be accepted for this permit.

Appendix

WISPECTION PROGRESS REPORT 88-2248 Rev. 2/75									Wisconsin Department of Industry , Labor & Muman Relations DIVISION OF SAFETY AND BUILDINGS P.O. Box 7946 - Madison, Wisconsin 53707					
S.101.10 each line the own	paction	Wilde n req	onsin uired	Statules to obta	i, requires a in complian	\$15 Inspection feelow after the final in	for each buildin rispection. Failu	g inspecti re to com	an conducted ply with safet	f. psylable at time	of plan review. Owner may result in issuing f	will be billed \$15	tor	
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	CITY	,		_	STATE		ZIP	Ti	LEPHONE					

DILHR-SBD-4927

CERTIFICATE OF COMPLETION Date___ TO: Department of Industry, Labor and Human Relations Safety and Buildings Division P. O. Box 7946 201 E. Washington Avenue Madison, WI 53707 Gentlemen: RE: File Number: _____ Plan Number: Owner: Оссирансу: __ Building Street Address: ___ County: _ This is to certify that construction of the referenced project was under my supervision, in accordance with Ind 50.10, and that to the best of my knowledge and belief it has been completed in substantial compliance with the approved plans and specifications with the following exceptions: (IF NONE, STATE NONE) This certificate covers: Building Heating & Ventilation Structural [___] Other ____ (Specify)

Registration Number:

A-50.20 Fzzs. The following reprint of section Ind 69.09 may be used to determine the amount of fee required for building-related services offered by the department:

Ind 69.09 Buildings, structures, heating and ventilating. (1) PLAN EXAMINATION AND APPROVAL FRES. Fees for the examination and approval of all plans submitted in accordance with the requirements of Wis. Adm. Code chapters Ind 50-64 will be determined in accordance with the following schedules.

(a) Building; heating and ventilating. Fees for the examination and approval of all building and heating and ventilating plans will be computed on the basis of the total volume of the building and at the following rates:

Note: For the purpose of determining fees, the volume is determined by the overall outside dimensions of length, width and height.

Total volume	Building plans	Heat & vent plans
0-1,000,000 cubic feet	\$0.60 per 1000 cubic feet. Minimum fee-\$25.00 per plan.	\$0.40 per 1000 cubic feet. Minimum fee-\$25.00 per plan.
Over 1,000,000 cubic feet	\$600 plus \$0.40 per 1000 cubic feet in excess of 1,000,000 cubic feet.	\$400 plus \$0.25 per 1000 cubic feet in excess of 1,000,000 cubic feet.
1. Exceptions.	,	
 a. Warehouses. The fees determined in accordance w 30%. Minimum fee—\$25.00. 	for plan examination and ar ith Ind 69.09 (1) (a) except	proval of warehouses shall be that the fee may be reduced by
existing heating system with		t of a boiler or a furnace in an system requires no fee. See Ind
(b) Permit to start	***************************************	\$35.00 per permit.
(c) Alteration plans for the determined in accordance walteration, or the following:	ouildings and structures and lith (1) (a), based on total bu	heating and ventilating may be ailding volume affected by such
\$1.50 for every \$100 per plan.	00 or fraction of \$1000 estimate	ed cost. Minimum fee—\$25.00
(Estimated fee needecorating.)	d not include cost of razing	, piping, electrical, painting or
(d) Revisions to previously	examined plans	\$25.00 per plan.
	s are revised, for reasons other before construction of the spec	than those that were requested ific item commences.)
(e). Footing and foundation	n plans submitted separately	\$25.00 per plan.
(f) Structures		\$25,00 per plan.
	nitted separately and not inclu ast concrete and other structur	ded with general building plans, res.)
(g) Fire escapes		\$25.00 per plan.
(h) Stadia, grandstands ar	nd bleachers	\$10,00 per 1000 seats or fraction of 1000 seats, Minimum fee—\$25.00.
		and gases (government owned\$25.00 per plan.

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- (3) Inspection fees. Field inspection fees shall be remitted for each building or structure in accordance with the following:
- (a) General building, heating and ventilating inspection fees. When plans for the building and the heating and ventilating system are submitted together, inspection fees shall be determined in accordance with the following:

New building construction (cubic feet)	Fee
Up to 25,000 cubic feet	\$50.00
25,001 - 100,000 cubic feet	75.00
100,001 - 500,000 cubic feet	100.00
500,001 - 1,000,000 cubic feet	125.00
1,000,001 cubic feet and over	150.00

- (c) Inspection fees for alterations to existing buildings. Inspection fees for alterations to existing buildings shall be determined in accordance with (3) (a) or the following:

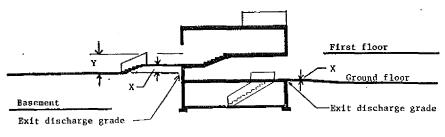
Alteration or repair (dollar amount)	<u>Fee</u>
Up to \$25,000	\$50.00
\$25.001 - \$100,000	75.00
\$100,001 - \$500,000	100.00
\$500,001 - \$1,000,000,	125.00
\$1,000,001 and over	150.00

- (4) COLLECTION OF FEES. All fees shall be remitted at the time the plans are submitted. No plan examinations, approvals or inspections will be made until the fees are received.
- (5) MICROFILM FEES. Microfilm prints of approved plans for the years 1967-1972 are available at a nominal cost upon approval of the original designer.
- (6) Petitions for modification. The department will consider and may grant modification to an administrative rule upon receipt of a fee of \$75.00, a completed petition for modification form from the owner, and a position statement from the fire department having responsibility and an interest in the rule, provided an equivalent degree of safety is established in the petition for modification which meets the intent of the rule being petitioned.
- 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 subsection Ind 57.001 (2) (a); it is not intended as a variance to requirements stated under Ind 57.001 (2) (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) Setrack. 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).
 - (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 sections Ind 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.

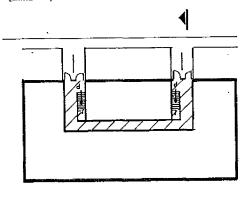
A-51.01 (151) Wall (Party). It is intended that a property consisting of joining plotted subdivisions owned by one individual, that can be owned by separate individuals, is included in the definition of party wall.

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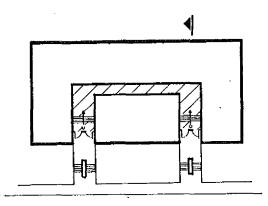
A-51.02 (14) Determination of number of stories. The following illustrations are provided to give visual aid to this rule and the definition of Ind 51.01 (121) Stories, Number of.



Note: $X = 3^{\dagger} - 0^{\dagger \dagger}$ (maximum) $Y = 6^{\dagger} - 0^{\dagger \dagger}$ (maximum)



Ground floor



First floor

274 WISCONSIN ADMINISTRATIVE CODE

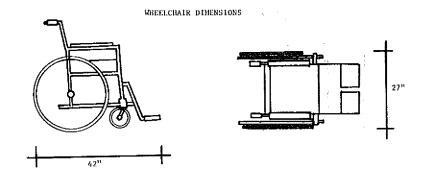
Appendix

A-51.042 (5) 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:

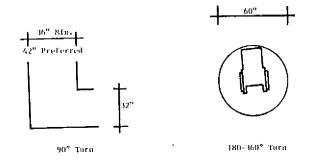
- 1. Aircraft hangars.
- Dry cleaning establishments: using or storing gasoline or other volatile flammable liquids.
- 3. Enameling or japanning operations.
- 4. Mills; sugar, starch, cereal, feed, flour and grist mills.
- Paint and varnish: manufacturing, storing, handling, spraying, and other related operations.
- 6. Pyroxylin products: manufacture and storage.
- 7. Repair garages.
- 8. Smoke houses.
- Storage of: explosive gases under pressure (15 psi and over 2,500 cubic feet) such as acetylene, hydrogen, natural gas, etc.
- Storage of: materials with a flash point under 200° F, such as celluloid products, kerosene, oils, etc.
- 11. Woodworking establishments.

A-51.15 (6) Example to determine total aggregate exit width.

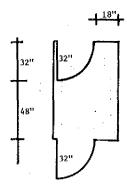
A-62.04 Requirements for barrier-free environments. The following illustrations are provided to give the designer visual aids for making facilities accessible.



TURNING SPACE



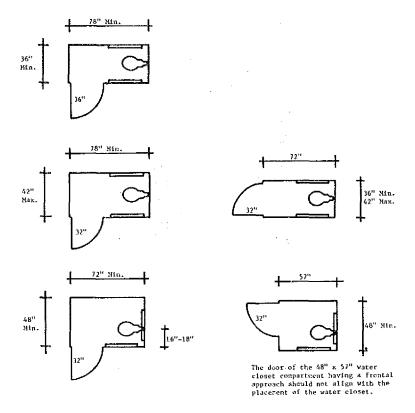
DOORS IN SERIES



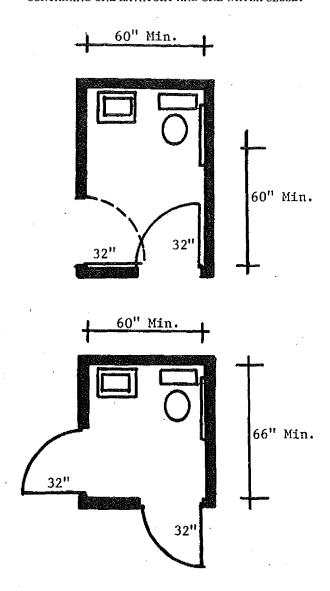
Doors in series should be hinged on the same side and should swing in the same direction. A minimum of 18 inches of clear space should be provided on the door knob side of the door. The length of the vestibule should be a minimum of 48 inches plus the width of the door in the open position (i.e., 32-inch door plus 48 inches length equals 80 inches overall length of vestibule).

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

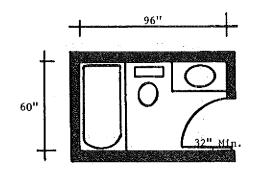


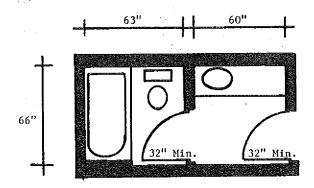
EXAMPLES OF ACCESSIBLE TOILET ROOMS CONTAINING ONE LAVATORY AND ONE WATER CLOSET

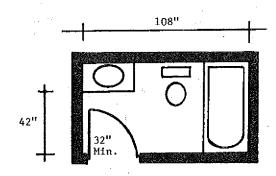


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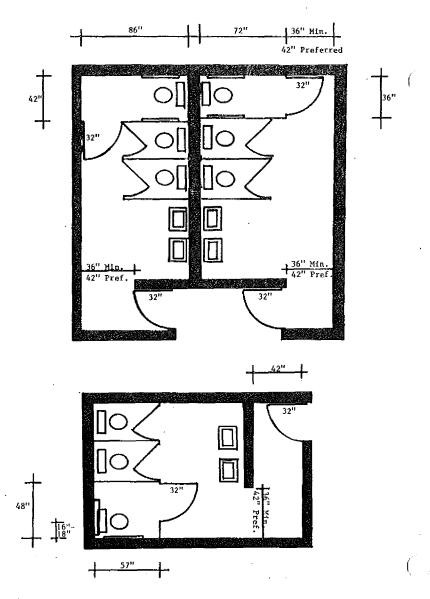
EXAMPLES OF ACCESSIBLE BATHROOM LAYOUTS FOR RESIDENTIAL LIVING UNITS



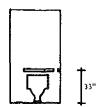




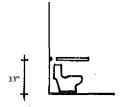
EXAMPLES OF ACCESSIBLE TOILET ROOMS

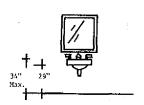


ACCESSIBLE TOILET ROOMS

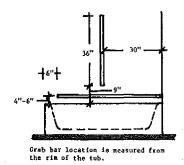


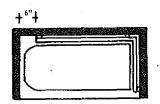
It is recommended that grab bars be from 30 to 42 inches in length and located no more than 12 inches from the back wall,



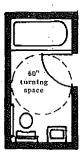


ACCESSIBLE BATHING FACILITIES

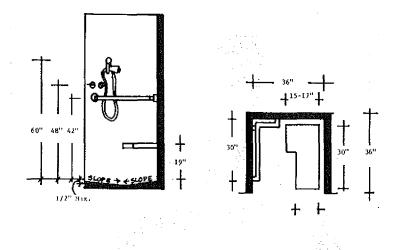


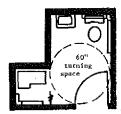


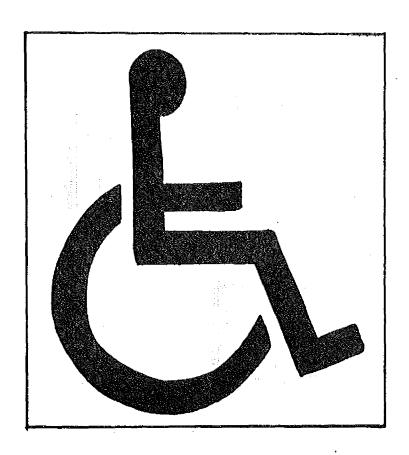




ACCESSIBLE BATHING FACILITIES







INTERNATIONAL SYMBOL FOR BARRIER-FREE ENVIRONMENTS

A-52.04 (4) (b) Lifts for the physically disabled. The stair-mounted lifting devices, providing interior circulation for the physically disabled, are either of a platform type accommodating the wheelchair and its user or a seat type which requires the person to transfer from the wheelchair.

In new construction, the seat-type lifting device will be acceptable only in private group type occupancies such as, but not limited to, senior citizen centers, fraternal organizations, small churches with less than 100 occupants, and private residences. In remodeled situations where adequate space for other lifting devices is not available, a seat-type lifting device will be acceptable.

The following guidelines should be used for lifting devices provided for interior circulation:

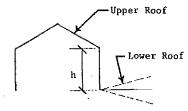
- If the lifting device is to be located in a required exit stairway, the lifting device, in its
 open position, cannot infringe upon the required exit width for the floor the stairway
 serves. To determine the required exit width, refer to the specific occupancy chapters
 of this code.
- The department recommends that the building plans submitted for approval indicate the type of lifting device to be used, the location, and the width of the lifting device in its open position.
- 3. The guidelines of the elevator section of this department require platform lifts to be designed with proper safety devices such as 42-inch high sides and gates, gate locks and contacts, guarding of space under the lift, etc., to provide safety for the public and persons using the lift with aids such as wheelchairs, crutches, braces or canes.
- 4. Vertical lifts having a travel distance in excess of 56 inches are considered to be elevators and must comply with the requirements for passenger elevators, Wis. Adm. Code chapter Ind 4, Elevator Code.
- After the building plans are approved for the location and use, 3 sets of mechanical drawings for the lifting device must be submitted to the elevator section in accordance with chapter Ind 4, Elevator Code.
 - a. Two copies of the elevator application form are required to be submitted along with an examination fee and an inspection fees.
 - b. A copy of the building approval letter should accompany the mechanical drawings.

Appendix

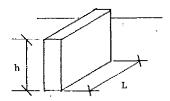
A-53.11 (4) (b) Increase in roof loads. The following design provisions may be used to determine the increase in roof loads as required by this section.

SNOW LOAD DISTRIBUTIONS AND COEFFICIENTS

ROOF SHAPES

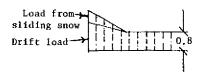


Lower of multi-level roofs with upper roof sloped towards lower roof



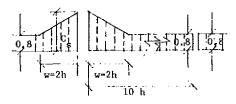
Roof areas adjacent to projections and obstructions on roofs

SNOW LOAD DISTRIBUTIONS AND COEFFICIENTS. LIMITATIONS



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

<u>Design upper roof</u> for loads applicable to single-level roofs



$$C_s = 10 \frac{h}{g}$$

When $10 \frac{h}{g} \le 0.8$ use $C_s = 0.8$
When $10 \frac{h}{g} > 2.0$ use $C_s = 2.0$
When $L \le \frac{R}{6}$ use $C_s = 0.8$

w = 2 h

When $h \le 5$ ft use $w \ne 10$ ft When $h \ge 15$ ft use w = 30 ft

h = height of projection in ft

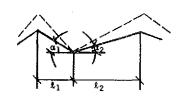
g = roof live load in psf [53.11 (4)]

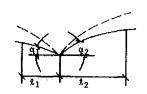
w = width of snow drift in ft

L = length of projection in ft

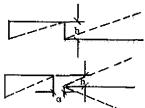
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ROOF SHAPES



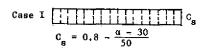


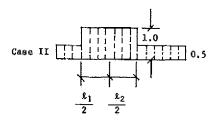
Valley areas of two-span and multiple series sloped or curved roofs

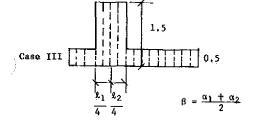


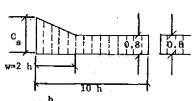
Lower level of multi-level roofs (when upper roof is part of the same building or on an adjacent building not more than 15 ft. away)

SNOW LOAD DISTRIBUTIONS AND COEFFICIENTS LIMITATIONS









 $C_8 = 15 \frac{h}{g}$ when $15 \frac{h}{g} < 0.8$ use $C_8 = 0.8$ when $15 \frac{h}{a} > 3.0$ use $C_2 = 3.0$

w = 2 b

when h < 5 ft use w = 10 ft h > 15 ft use w = 30 ft

h = difference of roof heights in ft g = roof live load in PSF [Ind 53.11(f)] w = width of drift from higher bldg, in ft α = distance between buildings < 15 ft

Design upper roof for loads applicable to single-level roofs

For $\beta \le 10^{\circ}$ use Case I only For $10^{\circ} < \beta < 20^{\circ}$ use Case I and II For $\beta \ge 20^{\circ}$ use Case I, II and III

- A-53.15 LOAD COMBINATIONS. It is the intent of this section that the loads specified in sections Ind 53.10 through Ind 53.13 be considered to act in the following combinations, whichever is critical, for the design of the building frame, foundation or structural
 - 1. Dead load plus live load.
 - 2. Dead load plus wind load.
 - Dead load plus live load plus wind load.
 - 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. Alternate span loading need not be considered in the application of roof loads.

- A-57.18 The intent of this section is to apply to floor levels not more than one story below grade (at building).
- A-57.18 (6) 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
- A-60.19 (4). The standard is available from the National Fire Protection Association, 470 Atlantic Ave. Boston, Massachusetts 02210.
- A-60.24 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-60.35 See A-60.24.

- A-60.36 (1) (a), See A-60.19 (4).
- A-62.25 (1) Clearance limitations. The intent is to require the minimum 7 feet 0 inches clearance only in traffic lanes and in all areas normally used by the public to leave and
- 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) National Fire Protection Association, 470 Atlantic Ave., Boston, Mass. 02210:
 - (a) OIL-BURNING EQUIPMENT, NFPA No. 31;
 - (b) NATIONAL FUEL GAS CODE, NFPA No. 54.
- (2) American National Standards Institute, Inc., 1430 Broadway, New York, N.Y. 10018;

 - (a) GAS-FIRED ROOM HEATERS, Vol. 1, ANSI 221.11.1; (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;
- (f). AUTOMATIC GAS IGNITION SYSTEMS AND COMPONENTS, ANSI 721.20;
- (g) AUTOMATIC GAS VALVES, ANSI 221.21; (h) RELIEF VALVES AND AUTOMATIC GAS SHUTOFF DEVICES FOR HOT WATER SYSTEMS, ANSI 221.22;

- (i) GAS APPLIANCE THERMOSTATS, ANSI Z21.23; (j) GAS-FIRED DUCT FURNACES, ANSI Z21.34; (k) GAS-FIRED GNAPPLIANCES, 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-FIRED GRAVITY AND FAN TYPE FLOOR FURNACES, ANSI Z21.48; (6) GAS-FIRED GRAVITY AND FAN TYPE VENTED WALL FURNACES, ANSI Z21.49;
- VENTED 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;

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- (s) DECORATIVE GAS APPLIANCES FOR INSTALLATION IN VENTED FIREPLACES, 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; (v) GAS-FIRED INFRARED HEATERS, ANSI Z83.6.

- (3) Underwriters' Laboratories, Inc., 207 East Ohio St., Chicago, Illinois 60611:
 (a) OIL BURNERS, UL 296;
 (b) CONTROLS, PRIMARY SAFETY FOR GAS- AND OIL-FIRED APPLIANCES,

 - UL 372;
 (c) HEATING APPLIANCES, ELECTRIC, UL 499;
 (d) HEAT PUMPS, UL 569;
 (e) OIL-FIRED BOILER ASSEMBLIES, UL 726;
 (f) OIL-FIRED CENTRAL FURNACES, UL 727;
 (g) HEATERS, AIR, AND DIRECT-FIRED HEATERS, OIL-FIRED, UL 733;
 (h) COMMERCIAL-INDUSTRIAL GAS HEATING EQUIPMENT (Inputs over 400,000 Btu/hour), UL 795;
 (i) 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;
 (j) ELECTRIC BOILERS, UL 834;
 (k) HEATERS, ELECTRIC DRY BATH, UL 876;
 (l) FAN COIL UNITS AND ROOM FAN HEATER UNITS, UL 883;
 (m) HEATERS, ELECTRIC AIR, UL 1025;
 (n) HEATING EQUIPMENT, ELECTRIC BASEBOARD, UL 1042;
 (c) HEATING EQUIPMENT, ELECTRIC CENTRAL AIR, UL 1096.

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

TABULAR	SUMMARY	UL.	STANDARD	296	AND	ur.	STANDARD	795

			ers ul 296		COMMERCIAL/INDUSTRIAL GAS UL 795					
FUNCTION/BURNER INPUTS	3 GPH 400,000 Btu or less	7 GPH 1 million Btu or less	20 CPH 3 million Btu or less	Over 20 GPH 3 million Bru	Over 400,000 to 2,500,000	Mechanical Dr Over 2,500,000 to 5,000,000	Over 5,000,000	Over 12,500,000	ATK Dra	
Propurge timing			,		4	4	4	4	90 sec	
Air changes	i –		_		4	4	4	4	_	
Interlock Controls (Recycle)	Yes	Yes	Yes	Yes	Yes '	Yes	Yes	Yes	Yes	
Proven combustion air	8	8	8	8	Yes	Yes	Yes	Yes		
Valve seal overtravel 9			l '			Optional	Yes	Yes	13	
Low gas pressure						Yes 20	Yes 20	Yes 20	13	
High gas pressure						Yes 20	Yes 20	Yes 20	13	
Low fire start	11	11	11	11,	11	11	11	11	13	
High limit (press. or temp.)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Ye	
Low water cutoff	Boilers 21	Boilers 21	Boilers 21	Boilers 21	Boilers	Boilers	Boilers	Boilers	13	
Pilot - Intermittent	Optional	Optional	Optional		Optional	Optional	Optional	Optional	12	
Pilot - Interrupted	19	19	` 19	Yes	Optional	Optional ²	Optional ²	Optional ²	2, 10	
Direct spark ignition .	Yes	Yes	Yes	5	· -		·			
System & sequence approved					i				1	
safety control	· Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Ye	
Approved safety shutoff		1					. 1			
valves (SSOV)	IN	BURNER	DESIGN		Yes ¹⁴	Yesl	Yeslu	Yes ¹⁴	Yes13.	
No vent valve							-	Yes	13	
Pilot valve	16	18	18	Yes	Yes ⁵	Yes	Yes	Yes	Yes	
Proved pilot	Optional	Optional	Optional	Yes	Yes	Yes	Yes	Yes	Ye	
Trial for pilot	17	17	17	15 sec	15 sec	10 sec	10 sec	10 sec	13	
Trial for main flame	90 sec ² :17	30 sec ² · 17	15 sec ² · 17	10/30 sec ⁷	15 sec ²²	10 sec	10 sec	10 sec	13	
Flame failure response time	90 sec 17	4 sec max 16,17	4 sec max15,17	4 sec max	4 вес так	4 sec max	4 sec max	2 sec max	13	
Valve closing time (max.)	23	23	23	23	5 sec max	1 sec max	l sec max	1 вес жах	13	
Supervise main flame .	17	17	17	Yes		Yes ²	Yes ²	Yos ²	2, 10	
Action on flame failure	Recycle optional ¹	1	1	Lockout or recycle	Lockout or recycle ⁶	Lockout	Lockout	Lockout	13	
Action on limit open	Close SSOV	Close SSOV	Close SSOV	Close SSOV	Close SSOV :	Close SSOV	Close SSOV	Close SSOV	13	

See following page for footnotes.

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

SSOV=Safety shutoff valve.

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

Where 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.

Without shutters, no prepurge required.

'Options (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 ½ high fire rate.

With 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.

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

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

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

*Valve seal overtravel switch can be wired into either the start circuit or pre-ignition interlock circuit (if provided).

*Interrupted pilot over 2.5 million Btuh if modulating or high/low firing rate. Otherwise over 5 million Btuh.

"If 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.

"Requirements same as mechanical draft burners.

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

"Up to 15 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.

*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.

"If proved pilot igniter is used, timings for over 20 gal flame safeguard control may be applied.

"Required for electrically ignited, gas-piloted systems.

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

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

²'Required on boilers fired by oil burners—not a requirement of UL 296.

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

 $^{\mathrm{a}}\mathrm{If}$ a separate oil valve is used, it must close within 5 sec max when de-energized.

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 5,000,000 to 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 I sec max.	series, one of which incorporates a valve seal overtravel interlock. Closing time 1	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. % inch or larger electrically operated valve in a vent line between the two SSOV's.