

Worksheet index/project summary

809 N. Broadway/PO Box 324/Milwaukee, WI 53201-0324/414-286-8211

Project	address				1	Plan type	(s) = eh	eck	all (hat app	ily
1020 N	Jackson Str	eet, Milwaukee	\M/L51	3202	1	New consti	ruction	1	Ac	ldition	
1023 N.	Jackson Sti	eet, wiiwaanee	, W 1 30	<i>)</i>	Ī	Alteration			H۱	/AC	
IBC clas	s of constr		oe I-A			is chapter 70 r	eview re	ques:	ted?		
		ancy classif	cation	l econdany						150	
Floor =	SF	Primary		Fire alarm/de) FAS	sion sy	/stems		
Bsmt	0				_	Manual fire ala		1	\downarrow		
1st	9,725	A-3		<u>B</u>		Automatic fire o		····			
2nd	0					Automatic fire s					
Upper	0					Fire protection	standpipe	s			,,,,
Please indicate which worksheets are enclosed with the plans. Grade plane determination worksheet Determination of number of stories above grade worksheet Occupant load worksheet Egress width worksheet Assembly egress width sub-worksheet (required only for Group A occupancy) Multiple occupancies worksheet Allowable areas worksheet (2 pages – one story per worksheet) Exterior wall opening worksheet Fire apparatus access and fire lane worksheet Sanitary fixture determination worksheet Control area worksheet Control area worksheet Control area sub-worksheet (required only for Group H occupancy) Control area sub-worksheet (required only for Group H occupancy) Lateral load resisting systems and connections worksheet (6 pages) Structural design worksheet (4 pages) Combustion air sizing worksheet (required only for HVAC plans) Outdoor air ventilation worksheet (required only for HVAC plans) Accessibility analysis (required for alterations; may be required for additions)											
archite 61.50,	supervised by a Wisconsin registered architect or engineer under Section COMM 61.50, except that a Wisconsin registered										
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OCCUPANT LOAD WORKSHEET

A CONTRACTOR OF THE CONTRACTOR		Amada e e e e e e e e e e e e e e e e e e	***************************************	A LABAMATTATATA		i de la company	Annual Print	Œ	A-3	A-3	1 ROOM OR SPACE DESIGNATION
				And the state of t				Business	Assembly	Assembly	2 CLASSIFICATION OF Table 1003.2.2.2 OCCUPANCY OR USE
					-			5,719	813	2,661	3 Floor Area (square feet)
			٠					100	15	15	4 DENSITY SF/PERSON (specify if net or gross value)
			· ·					58	54	177	4 5 DENSITY OCCUPANT SF/PERSON LOAD BY (specify if CALCULATION ret or gross value)
- Indiana and a second a second and a second a second and	-		-			A STATE OF THE STA		58	49	177	6 OCCUPANT LOAD BY ACTUAL NUMBER
	A CONTRACTOR OF THE CONTRACTOR				The state of the s			0	0	0	OCCUPANT LOAD BY COMBINATION
							A CONTRACTOR OF THE CONTRACTOR	58	49	177	ROOM OR SPACE TOTAL
								no	по	no	ROOM OR OCCUPANTS SPACE ACCOUNTED FOR IN OTHER SPACES

The total occupant load for this worksheet page (or story of the building) = $\frac{284}{100}$ Occupants

The total occupant load for this building = $\frac{284}{}$ Occupants (total of all worksheets/stories)

Caution: Note that this form is not adequate for use of covered mall total occupant calculations.

EGRESS WIDTH WORKSHEET

ROOM OR SPACE DESIGNATION	OCCUPANCY OR USE CLASSIFICATION	LOAD FROM	STAIR WIDTH FACTOR	REQUIRED STAIRWAY WIDTH	OTHER EGRESS COMPONENT FACTOR	OTHER EGRESS COMPONENT WIDTH
LOBBY, BAR/DINING, CLUB RM	A-3	188	0.3	0	0.2	37.6"
PRIVATE BARVDINING	A-3	49	0.3	0	0.2	9.8"
BUSINESS	В	58	0.3	0	0.2	11.6"
			,			
				-		

	-			-		
					TOTAL PROVIDED WIDTH	301.5"
						-
L				C 11: 0 ==	I	

Is part of the space shown above an assembly seating facility? no ____ If yes, then the Assembly Egress Width Sub-Worksheet should be completed for calculating minimum width requirements.

Ideally the Occupant Load Worksheet should be completed first, before this worksheet, so that the results of that sheet may be simply inserted into the first three columns of this worksheet.

MULTIPLE OCCUPANCIES WORKSHEET

☐ I am using separated uses in a	my design. (IBC 302.3.3)	
☑ I am using non-separated use	s in my design. (IBC 302.3.2)	
☐ I am using a combination of s	separated and non-separated uses in my design.	
SEPARATED USES LOCATION (story or side of building)	OCCUPANCIES SEPARATED (both classifications)	FIRE RATING (hourly rating)
(sample) east third floor	office B and lunch room A-2	2 hours
NON-SEPARATED USES LOCATION (story or side of building)	CONSTRUCTION OCCUPANCIES NOT SEPARATED (all classifications)	CTION TYPE -A MOST RESTRICTIVE
(sample) east third floor	office B and lunch room A-2	<u>A-2</u>
FIRST FLOOR	BUSINESS & PRIVATE BAR/DINING A-3	A-3
FIRST FLOOR	BUSINESS & LOBBY, CLUB RM, BAR/DINING A-3	A-3
	· .	

Go to Allowable Areas Worksheets to verify building size allowable for uses shown above.

ALLOWABLE AREAS WORKSHEET

AREA MODIFICATIONS TO TABLE 503 Allowable area = Tabular area + Frontage increase + Sprinkler increase $A_a = X_t + [(A_t)(I_f)/100] + [(A_t)(I_s)/100] =$ $A_a = Allowable$ area per floor $A_t = \text{Table } 503$ area per floor I_f = Area increase due to frontages = (100)[F/P - 0.25](W/30) I_s = Area increase due to complete sprinkler protection (NFPA 13) F = Building perimeter which fronts an open space having a minimum width of 20 feet P = Perimeter of the entire building W = Minimum width of open space for frontage exposure on any side Sprinkler increase $I_s = Sprinkler increase for one-story buildings = 300 percent$ I_s = Sprinkler increase for multi-story buildings = 200 percent I_s = Building not completely sprinkler protected = 0 percent Frontage calculation (note that frontage is only permitted on open space that is a public way or space that/s a minimum 20 feet wide which is accessed from a street or fire lane) Building frontage lengths South wall West wall North wall East wall Minimum width of open space _____ Minimum width of open space (W) = _____ (least of above ≥ 20 feet) Total building frontage $(F) = \underline{\hspace{1cm}}$ (total of above four frontages) Total building perimeter (P) = _____ (total of four building sides)

Area increase due to frontages $I_f = (100)[F/P - 0.25](W/30) =$ ______

ALLOWABLE AREAS WORKSHEET

(One story per worksheet - add additional worksheets as necessary)

Is actual total area less than maximum allowable area? yes

STORY LOCATION	USE GROUP	ACTUAL FLOOR AREA	TABLE 503 AREA	MODIFIED AREA ALLOWABLE	RATIO Actual/Allowable
FIRST	A-3	3,655	UL	N/A	N/A
FIRST	В	5,719	UL	N/A	N/A
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		1	TOTA	L OF ALL RATIOS =	Must be ≤ 1.0
MAXIMUM A	AREA DETERM	INATION OF B	BUILDING (cl	neck only required	if > 3 stories)
Total floor area	a of the building (a	all stories) =	9,725 (the d	actual building tota	l square feet)
Largest value of	of allowable area (any story) =	UL	·	
Allowable floo	or area of building	(IBC 503.3) = _	UL (3 tim	es the maximum m	odified area)

Note that this IBC 503.3 check is still under review for compliance with IBC intent. This BOCA method shown will not meet ICBO interpretation for compliance to IBC 503.3 check.

THE CLASS OF CONSTRUCTION IS TYPE I-A. THE PRIMARY FRAME STRUCTURE REQUIRES A 3-HOUR RATING, BUT THE EXTERIOR WALLS ARE DESIGNED AS NON-LOAD BEARING. THE CLASS OF CONSTRUCTION AND PRIMARY FRAME RATINGS ELIMINATE THE NEED TO RATE THE EXTERIOR WALL AT ALL AND THERE IS NO LIMITATION ON OPENINGS. THIS IS BASED ON THE PROVISIONS OF IBC 2015 ss. 503.1.2 AND 705.3, EXCEPTION #1. THAT EXCEPTION PERMITS TWO BUILDINGS ON THE SAME LOT TO BE EXEMPT FROM IBC 2015 ss. 705.5 AND 705.8 WHEN CONSIDERED AS ONE BUILDING IN ACCORDANCE WITH SECTION 503.1.2. THIS IS POSSIBLE BECAUSE THE ALLOWABLE AREA FOR ALL OCCUPANCY CLASSIFICATIONS (A-3 & B) IS UNLIMITED.

SANITARY FIXTURE DETERMINATION WORKSHEET

Total building design occupancy = $\underline{^{284}}$	(determined from IB	$\mathbb{Z}[1003.2.2)$
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Building occupancy which most closely resembles the use of the space (list each separately) (Caution: Table 2902.1 uses may be more exact than general use groups of IBC chapter 3)

As in the past, a submitter may document an actual occupancy load, rather than the load determined strictly by square footage, to the building reviewer for consideration of a reasonable number of toilet fixtures. In no case, will the reviewer accept less than 50% capacity or less than the seating indicated on the plans, except possibly via the petition for variance process.

OCCUPANCY		WATER CLOSETS			LAVATORIES		TUB/SHOWER		DF	OTHER
Type	Number People	Factors	Fixtures # Male	Fixtures # Female	Factor	Number Fixtures	Factor	Number Fixtures	Number Fixtures	List the Type SERVICE SINK
A-3	274	1/125 - men 1/65 - female	1.1	2.1	1/200	0.7	N/A	0.0	1.0	1.0
В	10	1/25 for first 50	0.4	0.4	1/40 for first 80	0.3	N/A	0.0	0.0	0.0

Total = $\frac{284}{}$ (this number should equal building total shown at top on this page)

Round fractions up to a whole number or to one decimal place, if shared facilities are used.

Note that urinals may be substituted for up to 50% of water closets for men per COMM 62.2902(1)(a).

COMPLIANCE	Men		Women	Lavatories	Bath Tub/	Drinking	Other	
CHECK	Urinals	Water Closets	Water Closets		Shower	Fountain	(List) SERV	CE SINK
REQUIRED	0	1.5	2.5	1	0	1	1	
PROVIDED	1	1	3	5	0	1	1	

ONE SERVICE SINK IS PROVIDED FOR THE ENTIRE BUILDING. NOT EACH OCCUPANCY GROUP.

See IBC 2902.2 & 2902.3 for special exceptions, as well as COMM 62.2902 special restrictions.