

NEW BUILDING/ADDITION APPLICATION

PROPOSED USE: Please check one

Address:			Single Family	y-New (A000)		
		_	Two Family-	New (A010)		
Owner:			Residential A	Addition (attached ga	rage) (A020)	
Address:			Res-Accesso	ry Structure (shed, de	etached garage) (A	A030)
City:State:			Manufacture	d Home (A040)		
Phone Number:	_			y (Attached-Condo)	(A050)	
Email Address:				y No. of Units_(C00	,	
	_			-NewHeated _		
Building Contractor:		_		itionsHeated _		
Address:				terations Heated (C03		
City:State:			Industrial—N		/1)	
				tomer Service (C060)	`	
Phone Number:					,	
Email Address:				on/Garage (C070)	`	
		-		, Professional (C080)		
ECTIMATED COCT OF	DDO IFCT.	_		No. of Units:		
ESTIMATED COST OF	PROJECT:		Other:			
DECCRIPTION						
DESCRIPTION:						
Size of Building:						
Principal Building:Nu	mber of Stories	WidthDeptl	hArea	Ht. Above G	rade	
Accessory Building:Atta	chedDetached	WidthDeptl	hArea	Ht. Above G	rade	
Garage:Atta	chedDetached	Width Deptl	h Area	Ht. Above G	rade	
Building Characteristics:						
		Consul	Clab	Comprete	Macanur	Thiolmoss
Foundation:	Full	Crawl _	Slab	Concrete		Thickness
Heating Fuel:	Natural Gas	Electric	Hat Water			
Heating System:	Forced Air	Electric _	Hot Water Plaster			
Interior Wall Covering: Exterior Wall Covering:		Wood Wood	Metal	Masonry		
Roof Covering:	v myr Asphalt	Wood Wood	Metal	iviasom y		
Insulation:	Aspirant Fiberglass	Expanded	IVICIAI		Other	
Fireplace:	Yes		Number		Oulci	
Number of Bedrooms:	Per Unit					
Number of Baths:		Partial				
Number of Dams.	run	1 at tial				
The applicant certifies that all of						
specifications filed, and to be in f						
read the Cautionary Statement to shorter deadline contained in a					therein are always su	bject to any
snorter deadline contained in a	n order imposed by t	ne Division of Commit	imity Development an	dd Housing Sei vices.		
Applicant's Signatur	e:					
Inspector's Signature	e:					
Fee Amount:						
Building Services (608) 36	64-6700 Date	Cash:	Check	Check #:	Credit Card:	:

Site Plan/Plat Map (Required)

- Required Elements:

 Property Lines
 Adjacent Streets
 Existing Structures
 Fence Location & Height
 Distance between fence and property lines
 Distance between fence and existing structures
 Rorms or dramatic changes in grade
 - Berms or dramatic changes in grade

Dept of S Services	afety & Pi	ofessiona	1		Wisconsin Uniform Building Application No.						_			AŢ	plica	ation l	40°			
Industry S	Services D			Permit Application Instructions on back of second ply. The information you provide may be Parcel No.																
Wisconsi	n Stats. 10	1.63, 101	.73 J	instructions o used by other g	n back governn	of seco nent age	nd ply ency p	y. The rograi	info ms [(rma (Priv	tion you pro acy Law, s.	ovide ma 15.04 (ay be 1)(m)]	Pa	rcei .	No.			
	·	QUEST	ED	Constr.		IVAC		Elec	ctri	c [Plumb	ing [B	rosi	on	Cox	ıtrol		ther:	
Owner's	Name				Mail	ling Ad	dress											Tel.		
	or Name &				Lic/	Cert#	Ехр	Date	M	lailin	g Address							Telepl	one & E	mail
Dwelling	Contracto	or (Constr.)	-																
	hall be an	ialifier (Ti owner, CEC		g Contr. employee of the								•								
Electrical	l Contract	or	·····		-												;			
Electrica	l Master E	lectrician																		
Plumbing	ğ																			
PROJE LOCAT		Lot area	Sq.ft.	One acre of soil will be disturbed			Town City o	∏ Vil f	llage					of Se	ction	ı	, T	1	!, R	E/W
Building	Address				Count	у					Subdivisio	u Name					Lot	No.	Block	No.
Zoning I	District(s)			Zoning Pern	it No.			Setb	acks	s:	Front	ft.	Rea	r	ft		eft	ft.	Right	ft.
1. PROJI	ECT	☐ Repai		3. OCCUPAN Single Fan		6. ELE Entran				HVA Furna	C EQUIP.	12. EN Fue		Y SO Na		E LP	Oil	Elec	Solid	Solar
Altera		Raze		☐ Two Famil		Amps:					int Basebd			Ga	- 1	ьr	On	Elec	. Sonu	Geo
☐ Additi		☐ Move		☐ Garage ☐ Other:		Und				Heat Boile	Pump r	Space :				8	H	+-	1	18
						7.WAI	LLS			Centr	al AC	77 (10)	<u> </u>		l.	. <u></u> .	1 1-1	1	<u> </u>	
2. AREA	INVOLVI Unit 1	ED (sq ft) Unit 2	Total	4. CONST. T	YPE	☐ Wo		me		Firep Other		13. HE	TATT	.029	•					
Unfin.	OHILX	OHIL 4	10131	☐ Mfd. per W	IUDC				'	outel	•	13, 11E	VAL L	~~~			Baliu	IR Total	Calculate	-A
Bsmt				☐ Mfd, per U	i	☐ Tin		ole			WER	Į	-			on Lo	sses (a	ıyailable	from "To	
Living				HUD		Otl					icipal	Building Heating Load" on Rescheck report)								
Area				5. STORIES 1-Story		8. USI				Sanit	ary Permit#	14. ES	T. RT	ות, קון	NC	COS	T w/c	TAND		
Garage Deck/				2-Story		☐ Per		ıt	11	. WA	TER	77, 150				-00	A 11/U	THE LINE		
Porch									<u>l</u>			1								
Totals				☐ Other: ☐ Basement		Oth	ner;				nicipal Site Well	\$								
	and that I: a	m subject t	o all applic	able codes, laws	, statute:	s and ord	linance	s, inch				·	erse s	ide of	the	last p	ly of th	is form	am subje	ct to any
condition information managem permissio I voud Contract	s of this per on is accura- ent and the on to enter the th that I ar or Certific	mit; underste. If one a owner shahe premises n or will bation and	stand that the cre or more all sign the sefor which an owner have read	ne issuance of the of soil will be a tatement on the this permit is so occupant of the cautionary.	is permi listurbed back of ught at a is dwell statemen	it creates d, I unde the perm all reason ing for v nt regar	no leg rstand nit if no nable h which i ding c	al liabi that thi ot signi ours ar I am a outrac	ility, is pro ng be nd for pplyi	expre ject i clow. r any ing fo espon	ess or implied s subject to d I expressly a proper purpo or an erosion asibility on t	I, on the sh. NR 15 grant the ose to insp control the secon	state of 1 regated building pect the or conditional pages and pages states	or mur arding ing ins ne woo nstru ge of t	nicip g add spect rk w ction his f	ality; litiona for, or hich i n per: form.	and ce al erosi the in s being mit wi	etify that on controperspector's g done. thout a	t all the ab ol and stor authorized	ove mwater d agent,
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		CONDI		permit or o	her pena	alty.	See a	attach	ed fe	orec	nditions o	f appro	val.							
ISSUL			Town of Village of		County State	of		·····	٠ [.	Agen	-Contracted : icy#:	Inspectio	n	Mu	nicip	ality	Numb	er of Dw	elling Loc	ation
TORIS	DICTION		City of		VIGIG				· .											
FEES:					RMIT(S) ISSU	ED	WIS I	PERI	МІТ	SEAL#	PERMI						•		
Plan Rev		\$,		ruction						Name_		·····						
Inspection Wis. Per	mit Seal	\$			HVAG															
Other		\$			Electr															
Total	•	\$		i i	Plumb	oing on Cont	ro1					Email:								
SBD-58	23(R08/17	') Distribu	ıte; 🗌 Ply	1 – Issuing Ju				Issuer	forv	vards	s to state w/	in 30 da	ıys; [Ply	3-]	inspe	ctor;] Ply 4	- Applic	ant



Planning & Building Services Zoning Certificate Application

For 1- and 2-Family Construction

(Please Type or Print)

1.	Property Address:			
2.	Tax Parcel Number:			
3.	Legal description: Lot,	Block,	_ Subdivision,	
4.	Owner of record:		Phone:	***************************************
	(Address)	(City)	(State)	(Zip)
5.	Applicant's Name:			
	(Address)	(City)	(State)	(Zip)
	(Office Phone #)	(Cell Phone #)	/_ (E-mail Addre	(22)
6.	,	in a(n)	•	,
7.		nis property are:		_
8.		for this property are:		
9.	Lot Size and Dimension			
	Property dimensions are	feet, by	feet =	Square Feet.
10	. Setbacks:			•
	Front Yard: Co	orner Side: Interior Sides: _	& Rear Y	/ard:
11	. Size of Building:			
	Principal Building:	_Number of Stories Width	DepthA	rea
	Ht. Above Grade			
	e applicant's signature be cuments is true and correc	elow indicates the information contact.	nined in this application	on and on any accompanying
		/	/	
•	(Signature of Owner)	(Print name)	(1	Date)
	(Signature of Applicant)	(Print name)		Date)
aw	(Signature of Appheant)			Jaie)
		To be completed by Planning	& Building Staff:	
	oning Certificate: □ Appr			
			Date:	· · · · · · · · · · · · · · · · · · ·
	ertificate of Occupancy:	• •		
Re	eason for Denial:			



2351 Springbrook Court • Beloit, WI 53511 Office: 608/364-2929 • Fax: 608/364-2930 http://www.beloitwi.com Equal Opportunity Employer

CITY OF BELOIT AND THE UNITED STATES POSTAL SERVICE

MAILBOX-CLEARANCE NOTICE

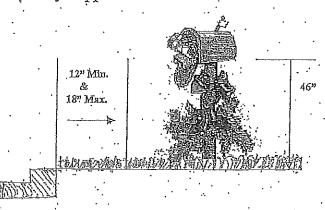
The City of Beloit and the United States Postal Service hereby advise that the location of your mailbox may affect service delivery and snow removal. All mailboxes shall comply with the following requirements unless otherwise instructed by the U.S. Postal Service:

- ♦ Be positioned in height 46" from the bottom of the mailbox to the street.
- Be positioned such that the closest part of the mailbox to the road is a minimum of 12" but no more than 18" from the curb at the street (See picture). Note: The measurement should be taken from the handle or other protrusion. This distance can easily be measured by taping a 4" string with a weight to the end of a one-foot ruler and holding the other end of the ruler against the front of the mailbox. Simply check to see if the weight is hanging over the curb or the street gutter. If over the street gutter, the mailbox is too close and needs to be moved back until the weight touches the face of the curb.
- All mailboxes should have a handle, a flag and the house number on the right hand side as you face it.

If your mailbox doesn't measure up to the standards, please make the necessary changes prior to December 1st. Mailboxes in violation of the minimum serback requirements that are not relocated by December 1st will not be repaired or replaced if damaged by snowplowing activities. All mailboxes replaced by the City of Beloit will be replaced with a standard wooden post and box according to postal regulations.

The Beloit Postmaster would like to remind everyone, including customers with mail receptacles on their homes, approaches to ALL mailboxes need to be clear of ice and snow.

Your cooperation is greatly appreciated as we strive to serve you better. If you have questions, please call the City's Public Works Operations Director, Christine Walsh at 364-2929 or the Postmaster, Jerry Deppisch at 365-7755.



Wisconsin Uniform Dwelling Code Energy Worksheet

Instructions: This worksheet is a Safety & Buildings Division (S&BD)-approved method of manually showing compliance with the energy conservation and heating equipment sizing requirements of the Uniform Dwelling Code (UDC), for new dwelling permits submitted on or after May 1, 1999. It may be necessary for the user to purchase a copy of the UDC from State Document Sales, (608)266-3358. Additional information is printed in the UDC Commentary, which is available for a fee, as are blank copies of this form, from S&BD at POB 2509, Madison, WI 53701, Tel. 608-267-4405. Earlier editions of this worksheet may NOT be used. Numbers in brackets, [1], refer to the footnotes printed on page 2.

You may also submit completed worksheets from the computer program MBCcheck (formerly WIScheck), which is available for free downloading from http://www.energycodes.org/ on the Internet.

A required U-value is the maximum acceptable heat transmittance for an element. A required insulation R-value is the minimum acceptable level of resistance to heat transmittance. (U-values and R-values are reciprocals of each other.) If a component includes two or more areas of different insulation levels, either use the less insulating value for both areas, or use the Optional Weighted Average table in the Prescriptive Package Method section or enter separate areas and insulation values in the System Design Method. All "U" values must be carried to four places after the decimal point, rounded to three places. Other values may be rounded to the whole number.

Window and door U-values must be tested and documented by the manufacturer in accordance with the National Fenestration Rating Council (NFRC) test procedures or be taken from the glazing U-value table in s. Comm 22.05. Center-of-glass U-values cannot be used. If a door contains glass, and an aggregate U-value rating for that door is not available, then include the glass area of the door with your windows and use the opaque door U-value to determine compliance of the door.

A slab-on-grade is an earth-supported floor slab that is above, or less than 12" below, adjacent grade.

High-efficiency heating equipment is given a credit by the code. "High-Efficiency" means a furnace or boiler with an AFUE of 90% or more, or a heat pump with an HSPF of 7.8 or more without the use of electric resistance backup heat of greater than 3 kilowatts. If you plan to install more than one piece of heating equipment, the equipment with the lowest efficiency must meet or exceed the efficiency required by the selected package.

Choice of Method: You have the choice of using the Prescriptive Package Method or the System Design Method to show code compliance. For the simpler Prescriptive Package Method, which is recommended for standard designs, complete Sections A., B., F., and G. Instructions are on page 2. You will be first calculating component areas, then comparing your planned insulation levels to the required insulation levels of the Prescriptive Packages. You will then calculate infiltration and ventilation heat losses to size your heating equipment. If you cannot comply with one of the prescriptive packages, you may be able to show compliance by the System Design Method.

For the System Design Method, which is recommended for alternative designs in which more insulation is installed in one component to offset less in another, complete Sections A., C., D., E., F. and G. You will be first calculating component areas, then a code-allowed heat loss factor, then component U- and R-values and then your calculated heat loss factor which you will compare to the code-allowed heat loss factor. You will then calculate infiltration and ventilation heat losses to size your heating equipment.

The County Zone Table below is use for determining the temperature difference for sizing your heating plant in Section G. You may submit to your local code official more exact calculations to size your heating equipment.

Zone 1 - 95 degrees	Zone 2 : 90 degrees	Zone 3 - 85 degrees	Zone 4 - 80 degrees
Ashland, Barron, Bayfield,	Adams, Buffalo, Clark, Bau Claire,	Brown, Calumet, Columbia, Crawford,	Jefferson, Kenosha,
Burnett, Chippewa, Douglas,	Jackson, Juneau, LaCrosse, Langlade,	Dane, Dodge, Door, Fond du Lac,	Milwaukee, Ozaukee,
Dunn, Florence, Forest, Iron,	Marathon, Marinette, Menominee,	Grant, Green, Green Lake, Iowa, 🔍	Racine, Rock;
Lincoln, Oneida, Pierce, Polk,	Monroe, Portage, Shawano, Oconto,	Kewaunee, LaFayette, Manitowoc,	Wałworth,
Price, Rusk, Saint Croix,	Pepin, Trempeleau, Vernon,	Marquette, Outagamie, Richland, Sauk,	Washington,
Sawyer, Taylor, Vilas, Washburn	Wanpaca, Wood	Sheboygan, Waushara, Winnebago	· Waukesha ·

Detailed Instructions for Section B. Prescriptive Package Method:

R-value requirements are for insulation only and do not include structural components.

For a component with two or more areas of different insulation levels, either use the least insulating value for both areas or use the Weighted Average tables on page 4.

Wall R-values represent the sum of the wall cavify insulation plus insulating sheathing, if used. Do not include exterior siding, structural sheathing or interior drywall. For example, an R-20 requirement could be met EITHER by R-15 cavity insulation plus R-5 sheathing OR R-13 cavity insulation plus R-7 sheathing. Note that there are separate tables for walls with structural sheathing only and for walls with insulating sheathing. To use a table for insulating sheathing, the sheathing used must be at least R-4, except that at least R-2 insulation may be provided over corner bracing. Table wall R-Values apply to wood-frame or mass (concrete, masonry, log) wall assemblies, but not to metal-frame construction. If metal frame is planned, use the adjusted R-Values from the Metal-Frame Wall Tables of the UDC Appendix. Table wall values apply to boxsills.

Ceiling R-values represent the sum of the cavity insulation plus insulating sheathing, if used. For ventilated ceilings, any insulating sheathing must be placed between the conditioned space and the ventilated portion of the roof. Ceiling R-values with "RT" indicates that a raised-heel truss or oversized truss construction must be used so that the insulation achieves the full insulation thickness over the exterior walls.

"Floor" requirements apply to floors over unconditioned spaces (such as un-insulated crawlspaces, basements and garages). Other floors that are over outside air shall have a Uoverall = 0.033 or R-30 added insulation.

"Heated-Slab" requirements apply to slabs that contain heat ducts or pipes. All slab insulation must extend at least 48 inches either 1) down from the top of the slab, or 2) down from the top of the slab to the bottom of the slab and then horizontally underneath the slab, or 3) down from the top of the slab to the bottom of the slab and then horizontally away from the slab, with pavement or at least 10 inches of soil covering the horizontal insulation.

Walls of basements below un-insulated floors must be insulated from the top of the basement wall to the level of the basement floor. Conditioned basement windows and glass doors must be included with the other glazing. Exterior basement doors must meet the door U-value requirements: If more than 50% of the basement is exposed, then all of the basement walls must instead meet the above-foundation wall requirements.

Crawl space wall R-value requirements are for walls of unventilated crawlspaces. The crawlspace wall insulation must extend from the top of the wall (including the sill plate) to at least 12 inches below the outside finished grade. If the distance from the outside finished grade to the top of the footing is less than 12 inches, the insulation must extend vertically downward plus horizontally for a total distance of 24 inches from the outside finished grade.

Footnotes for worksheet:

[1] Opaque wall area is wall area minus opening areas of doors and windows.

[5] If desired manufacturer does not have a furnace of this size, then a designer may select the manufacturer's next larger size.

These below-grade U-values have the insulating value of the soil added to the code-required U-values which apply to the building materials only. See Sect. D.2. for typical insulated component U-values.

^[3] These slab-on-grade F-values are derived from the code-required U-values and include the heat loss through the edge and body of the slab. See Sect. D.2.

^[4] For building additions, show that the existing heating equipment; if used to heat the addition, is large enough. To do so, you must calculate the heat loss of the whole building.

Submit completed worksheet pages 3-6 with dwelling plans to local enforcing municipality.

Belider: Date: Does develing unit have three kilowatts or racro input capacity of permanently installed electrical space heating equipment? You will need to apply the stricts standards shown for electrically-heated homes if you answered "YES" to the above question. A. Area Calculations Bizer appropriate dimensions to obtain area values. Some calculations will be necessary depositing on homo dissign or calculation method. These calculated was for referenced elsewhere on files worksheet, for example, "(A.1.)". 1. Window, Skylight & Patio, Door Area (overall unit area). 2. Date: Date: Door dividence "YES" to the above question. A. Area Calculations Bizer appropriate dimensions to obtain area values. Some calculations will be necessary depositing on homo dissign or calculation method. These calculated was set offerenced elsewhere on files worksheet, for example, "(A.1.)". 1. Window, Skylight & Patio, Door Area (overall unit area). 2. Creque Door Area. 3. In Above-Poundation Walls a. In Above-Poundation Walls b. In Foundation Walls a. In Above-Poundation Walls b. In Foundation Walls a. In Above-Poundation Wall Area Below Grade 34; fl. c. Total (a, + b.) 3. Gross Exposed Basement Wall Area (A.5. + A.4 A.1.b 4. Basement Wall Area Below Grade 34; fl. 5. Opaque [1] Basement Wall Area (A.6. + A.1.b. + A.2.b.) 4. Basement Wall Area Below Grade 34; fl. 5. Opaque [1] Basement Wall Area (A.6 A.1.a A.2.a.) 4. Basement Wall Area Below Grade 34; fl. 5. Opaque [1] Above-Poundation Wall Area (A.6 A.1.a A.2.a.) 4. Basement Wall Area Below Grade 4. Basement Wall Area Below Grade 5. Opaque [1] Above-Poundation Wall Area (A.6 A.1.a A.2.a.) 4. Basement Wall Area Below Grade 5. Opaque [1] Above-Poundation Wall Area (A.6 A.1.a A.2.a.) 4. Basement Wall Area Below Grade 5. Opaque [1] Above-Poundation Wall Area (A.6 A.1.a A.2.a.) 5. Opaque [1] Above-Poundation Wall Area (A.6 A.1.a A.2.a.) 5. Opaque [1] Above-Poundation Wall Area (A.6 A.1.a A.2.a.) 5. Pau	Project Address:	
Does dwelling unit have three kilowatts or more input capacity of permanently installed electrical space heating equipment? If YFS (see below)	Builder:	Owner:
Does dwelling unit have three kilowatts or more input capacity of permanently installed electrical space heating equipment? If YFS (see below)	Worksheet Completed By:	Date:
Now will need to apply the stricter standards shown for elgorically-heated homes if you answered "YIS" to the above question. A. Area Calculations Enter appropriate dimensions to obtain see a values. Some calculations will not be necessary depending on home design or calculation will not be necessary depending on home design or calculation will not be necessary depending on home design or calculation will not be necessary depending on home design or calculation will not have a few referenced elsewhere on this, worksheet, for example, "(A.1)". 2. Opaque Door Area a. In Above-Poundation Walls b. In Foundation Walls c. Total (a. + b.) = 3. Gross Exposed Basement Wall Area 4. Basement Wall Area Below Grade sq. ft. c. Total (a. + b.) = 4. Basement Wall Area Below Grade sq. ft. 5. Opaque [1] Besoment Wall Area (A.5. + A.4 A.1.b. A.2.b.) 6. Gross Heated Above-Foundation Wall Area, including boxsill Fibe rapposed area of A.3 is greater than the below grade area of A.4, add A.5 to A.7 and cross out the number in this cell. 7. Above Foundation Code Wall Area (A.6. + A.1.b. + A.2.b.) 9. Floor Area Over Interior Unconditioned Spaces Less Than 50° sq. ft. 10. Insulated Roof Or Ceiling (less skylights) 11. Floor Over Outside Air (Overhangs) 12. Crawl Space Wall Area [13. Slab On Grade (above or less than 12 inches below grade) [14. Total Heated Rayleope Area (A.5 + A.7 + A.9 + A.10 + A.11 + A.12 + (A.13.×2')) [15. Percent Giazing (for Prescriptive Prekaps Method, Section B, only) (A.1.c. + A.7. × 100%) [16. Windows Description - Above-Foundation Windows: [17. Home Over Outside Air (Overhangs) [18. Windows Description - Above-Foundation Windows: [19. Hand [19. Hinger Daul Thylog Daul Windows Daul Thylog Daul Windows Daul Thylog Daul Thy	Does dwelling unit have three kilowatts or more input capacity of	of permanently installed electrical space heating equipment?
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11. Floor Over Outside Air (Overhangs) sq. ft. sq. ft. 13. Slab On Grade (above or less than 12 inches below grade) lineal feet of slab perimeter lineal feet of slab perimeter 15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Section B, only) (A.1.c. ÷ A.7. × 100%) 12. Crawl Space Wall Area 14. Total Heated Envelope Area (A.5 + A.7 + A.9 + A.10 + A.11 + A.12 + (A.13. × 2′)) 16. Windows Description - Above-Foundation Windows: Frame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4′ □ 3/8″ □ 1/2″ or more Features: □ Low-B □ Argon-filled □ Suspended film		
11. Floor Over Outside Air (Overhangs) sq. ft. sq. ft. 13. Slab On Grade (above or less than 12 inches below grade) lineal feet of slab perimeter lineal feet of slab perimeter 15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Section B, only) (A.1.c. ÷ A.7. × 100%) 12. Crawl Space Wall Area 14. Total Heated Envelope Area (A.5 + A.7 + A.9 + A.10 + A.11 + A.12 + (A.13. × 2′)) 16. Windows Description - Above-Foundation Windows: Frame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4′ □ 3/8″ □ 1/2″ or more Features: □ Low-B □ Argon-filled □ Suspended film	,	
11. Floor Over Outside Air (Overhangs) sq. ft. sq. ft. 13. Slab On Grade (above or less than 12 inches below grade) lineal feet of slab perimeter lineal feet of slab perimeter 15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Section B, only) (A.1.c. ÷ A.7. × 100%) 12. Crawl Space Wall Area 14. Total Heated Envelope Area (A.5 + A.7 + A.9 + A.10 + A.11 + A.12 + (A.13. × 2′)) 16. Windows Description - Above-Foundation Windows: Frame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4′ □ 3/8″ □ 1/2″ or more Features: □ Low-B □ Argon-filled □ Suspended film	r sa ft	sa.ft.
sq. ft. 13. Slab On Grade (above or less than 12 inches below grade) lineal feet of slab perimeter lineal feet of slab perimeter 14. Total Heated Envelope Area (A.5 + A.7 + A.9 + A.10 + A.11 + A.12 + (A.13. × 2)) lineal feet of slab perimeter sq. ft. 15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. + A.7. × 100%) Frame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-B □ Argon-filled □ Suspended film		
13. Slab On Grade (above or less than 12 inches below grade) lineal feet of slab perimeter lineal feet of slab perimeter 15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Frame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-E □ Argon-filled □ Suspended film		
13. Slab On Grade (above or less than 12 inches below grade) lineal feet of slab perimeter lineal feet of slab perimeter 15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Frame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-E □ Argon-filled □ Suspended film		
13. Slab On Grade (above or less than 12 inches below grade) lineal feet of slab perimeter lineal feet of slab perimeter 15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Frame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-E □ Argon-filled □ Suspended film	sa. ft.	sa, ft.
A.12 +(A.13. × 2')) Ineal feet of slab perimeter		14. Total Heated Envelope Area (A.5 + A.7 + A.9 + A.10 + A.11 +
15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Prame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-E □ Argon-filled □ Suspended film		A.12 +(A.13. × 2'))
15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Prame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-E □ Argon-filled □ Suspended film		
15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Prame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-E □ Argon-filled □ Suspended film		
15. Percent Glazing (for Prescriptive Package Method, Section B, only) (A.1.c. ÷ A.7. × 100%) Prame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-E □ Argon-filled □ Suspended film	lineal feet of slab perimeter	sqft.
Section B, only) (A.1.c. ÷ A.7. × 100%) Frame type: □ Wood or Wood Clad □ Vinyl □ Metal Glazing type: □ Dual □ Triple □ Dual w/storm panel Dual-Glazing Air Space: □ 1/4' □ 3/8" □ 1/2" or more Features: □ Low-E □ Argon-filled □ Suspended film		16. Windows Description - Above-Foundation Windows:
Glazing type: ☐ Dual ☐ Triple ☐ Dual w/storm panel Dual-Glazing Air Space: ☐ 1/4' ☐ 3/8" ☐ 1/2" or more Peatures: ☐ Low-E ☐ Argon-filled ☐ Suspended film		
% Features: ☐ Low-E ☐ Argon-filled ☐ Suspended film		
	Ot.	
		Foundation Windows: U Vinyl . U Metal

B. Prescriptive Package Method (Skip this section if using the System Design Method of Sections C-F)

The prescriptive package method is the simplest method for determining compliance with the UDC insulation and window requirements. To use the prescriptive package method, enter your actual design values in the "Actual" row below. For a component, with two or more areas of different insulation levels, such as windows, either use the least insulating value for both areas or use the Weighted Average tables below. Multiply your % glazing by the glazing U-value to obtain your "Glazing Factor". Find the Prescriptive Table that applies to your space heating fuel and sheathing type. Select a package from the table that most closely matches the construction indicated on your plans. Do not exceed the package U-values or glazing factor or fall below the package R-values with your design. Transfer the R-Values and U-values to the blank table below in the "Allowed" row. Then proceed to Section F. See page 2 for detailed instructions for this section.

			,							
	Package	% glazing	U glazing	Glazing Factor	R wall	R ceiling	R Bsmt, Crawl	U door	U	Equip.
	#	·		(% glazing×U			Space, Slab or	:	overall	.Eff.
		:	,	glazing)			Floor		<i>'</i>	. ,
Actual	,	% (A.15)								
Allowed				Max	Min	Min	· 'Min	Max		
(T)I						· · · · · · · · · · · · · · · · · · ·				

(Please go to Section F.)

ptional R-Value/U-Va	alue Weighted Avera	ge Table for Co	mponeņt:	•	
Component Constru	ction Description	R. Value	U-Value	Area	U-Value × Area
			(1+R Value)	· (sq ft)	· (UA)
-					
		ļ.			,
	•		<u> </u>		
• • • •	**		•	Total Area =	Total UA =
(Total UA)	(Total Areá)	==		(for windows or doo -	
(Total Area)	(Total UA)	(Weighted)	Average R-Value	(for all other compo	nents))
otional R-Value/U-Va	ilue Weighted Avera	ge Table for Cor	nponent:		
Component Constru	ction Description	R Value	U-Value	Area	U-Value × Area
			(1+R Value)	· (sq ft)	(UA)
	· · · · · · · · · · · · · · · · · · ·	٠			•
•	•				
+			<u> </u>		
, .				Total Area =	Total UA = ·
(Total UA)	(Total Area)	= (Weighted A	verage U-Value	(for windows or doo	rs))
(Total Area)	' (Total UA)	. (Weighted	Average R-Value	(for all other compo	nents))
	~				•

C. Code-Allowed Heat Loss For System Design Method

Enter area values from Section A as notated and temperature differences per footnote 2 into this table and then multiply across by the electric or non-electric code-required U-value. Total the right column to find the total allowed heat loss factor.

	Area , ·			≓Heat Loss
Component	From Sect A.	× Requi	red U-Ÿalue	UA.
	•	☐ NON-ELEC	DELECTRIC	•
1. Opaque Basement Wall [2]	(A.5.)	. 0.077	0.077	•
2. Above Foundation Code Wall	(A.7.)	0.110	0.080 -	
3. Floor Over Interior Unconditioned Space	· (A.9.)	0.050	0.050	
4. Roof or Ceiling	· (A.10.)	0.026	0.020	
5. Floor Over Exterior	· (A.11.)	. 0.033	0.033 ·	
6. Crawl Space Wall .	(A.12.)	0.060	0:060	
7. Slab On Grade[3] . □ Unheated		' 0.72 'F'	0.68 'F'	
☐ Heated	(A.13.) Lin. ft.	. 0,70 'F'	0.68' F'	
8. Subtotal	•			
9. Credit for High Efficiency Heating Plant: 1.18 for fur	nace or boiler ≥90% AFUE	; 1.15 for heat pun	$p \ge 7.8 \text{ HPSF},$	× ·
Otherwise use 1.0				
10.	. Total Cod	le-Allowed Hea	at Loss Factor	

D. System Design Method - Actual 'U' Values Of Your Home's Components

D.1. Above-Foundation Components - If applicable, check the appropriate typical component constructions listed below, and use the pre-calculated U values. If your wall construction is not listed, you may obtain a pre-calculated U value from the default U-Value tables in the UDC Appendix. (Note that the default Table 2 Wood Frame U-values assume no insulating sheathing which penalizes you if your wall does have insulating sheathing, then you may need to use the Manual Calculation section below.) If you are using exterior metal framing, then you must use the Metal-Frame Wall U-Values of the UDC Appendix. If your component construction is not listed here or in the default tables, you need to use the Manual Calculation section below to manually enter R-values for the different layers of building materials from the Typical Thermal Properties of Building Materials Table of the UDC Appendix, ASHRAB Fundamentals Manual or manufacturer's specifications. Total them across and then obtain the U-value by taking the reciprocal (1/R) of the total R-value.

											•
Above-Foundation V	Yalls □ 2X4	, 16" O.C.	, R-13 bat	tt, R-1 board; I	J079	□ 2X4	, 16" O.C., R-1	3 batt, R-	5 board: \(\text{\text{\$\cdot}}\)	J061	• • •
		, 16" O.Ċ.	, R-19 bà	tt, R-1 board: U	J059		, 16" O.C.; R-1				
☐ Other - describe:	i					·		_ :		fault Table	
Roof or Ceiling				th R-38 insulati			truss, 24" O.C	., with R-5	insulation	on: U02	5
	□ 2X1	2 cathedra	d ceiling,	16" O.C., with	R-38 insula	ition U-,02	7	,			
☐ Other - describe:							Ų	′ ′	from De	fault Table	;
Floor Over Outside	Air or Uncond	itioned S _l	pace	☐ 2X10 joists	, 16" O.C.	, R-19 batt: T	U047				
☐ Other - describe:	• •						บ		from De	fault Table	;
	·	M	Ianual U;	Value Calcula	tion (if ass	embly not li	sted above)				
	Cavity Or	Ext.	Ext.	··Insulation	Shea-	Framing	Ínsulation	Inter-	Int.	Total	U-Value
Component	Solid If .	Air	Finish	Oyer	thing .	Or Solid	Within	ior	Air	R-	(I/R)
Name	Applicable	Film*		Framing		.	Cavity	Finish	Film*	. Value	, ,
	Cavity			•							
	.Solid					,	***************************************			•	
	Ċaγity			•						,	
	Solid								•	•	

* Air Film R-Values

Location.		Heat Flow Direction	
	Upwards	Horizontal	Downwards
Exterior	.17	.17	.17
Interior	.61	.68	.92

D.2. Foundation And Slab-On-Grade Components - Check appropriate boxes for planned type of construction to determine precalculated overall 'U-value' including air films, wall, insulation, soil and cavity/solid differences. Slab on grade F-values are per lineal foot of slab perimeter.

Component Type	ייט	Value
Foundation Wall	Basement	· Crawl Space
☐ Masonry or concrete wall without insulation	0.360	0.477
☐ Masonry or concrete wall with R-5 insulation board for full height	. 0.115	0,136
☐ Masonry or concrete wall with R-10 insulation board or R-11 insulation batt and 2X4's for full be	eight 0.072	0.081
☐ Permanent wood foundation with R-19 batt for full height	. 0.054	0.059
☐ Basement or crawl space floor without insulation	. 0.025	0.025
Slab-On-Grade (or within 12" of grade)	. F.7	Value
☐ Slab-on-grade without insulation	• 1	,04
□ Slab-on-grade with R-5 insulation for 48" total horizontal and vertical application	0	.74
☐ Slab-on-grade with R-10 insulation board for 48" total application	0	.68

D.3. Windows And Doors - Use manufacturer's specifications for window and glazed door values, if they were determined per NFRC Std 100, to enter into Table B. Otherwise see default tables of UDC s. Comm 22.05 for U-values.

E. System Design Method - Calculated Envelope Heat Loss Factor Of Your Home

Enter values into table from elsewhere on this worksheet and multiply across to find the actual heat loss factor of each component. If using pre-calculated component U-values, do not calculate separate cavity and solid figures or apply wood frame factors. Total

component heat loss factors in right column to find total envelope heat loss fac	component heat loss factors in right	column to find total	envelope heat loss factor
--	--------------------------------------	----------------------	---------------------------

	Cavity Or	Area	;. ×	× .	= '	
Component	Solid If	From	Wood Frame	Actual 'U' Value From	Heat Loss Factor	
, , , ,	Applicable	Sect. A.	Factor**	Sect. D	(UA)	
Aboye-Foundation Windows		. (A.1.a.)			,	
Foundation Windows		· (A.1.b)				
Doors	but transport to transform to	(A.2.c)	in recommend on an art many			
Opaque Basement Wall		· · · · (A.5.)	b=k			
Opaque Above-Foundation Wall	Cavity					
	Solid .	(A.8.)				
Floor Over Unconditioned Spaces	Cavity				,	
• • • •	Solid.	(A.9.)	•		•	
Roof or Ceiling	· Cavity		•	, .		
	Solid	(À.10.)			,	
Floor Over Outside Air	Cavity				.,	
•	Solid	. (A.11.)				
Crawl Space Wall		· (A.12.)			•	
-				-		
1		·	,		•	
1277					,	
Slab On Grade	*	. (A.13.)Lin. ft. F-Value				
Total Calculated Envelope I	Heat Loss Fac	ctor- Not to exceed	Total Code All			
Factor of line 10 of Castian C			10/	•	!	

Factor of line 10 of Section C. (Enter here:)by more than 1%

** Adjustment Pactors For Wood-Framed Components - Do not apply if your are using a pre-calculated or default U-Value.

		-F	t pro oldominados doladi	r O TAMOI
Spacing Of Framing	Stud V	Valls	Joists/2	Rafters
Members	Cavity	Solid ·	Cavity	Solid
12"	.70	.30	86	.14
16"	.75	.25	.90 .	10
24"	78	.22	,93	.07

F. Heat Loss Factor Due to Air Infiltration (for heating equipment sizing)

Enter appropriate values. A maximum infiltration air change rate of 0.5 per hour is allowed in addition to exhaust fan ventilation losses.

. Floor Level .	Area (sq ft)	× Height (ft)	Fan Capacity (cfm)	× Constant	× Air Changes Per Hour	= Heat Loss Factor(UA)
Basement			***************************************	.018	,	
Level 1	* *			.018		:
Level 2 ·	• •		,	.018		
Level 3				.018	Ÿ	4.5
Exhaust Fan Ventilation	***************************************	***************************************		.432	~~~~~	,
	•	Total I	nfiltration & \	Ventilation H	leat Loss Factor	4

G. Heating Equipment Sizing

Buter appropriate value to determine the maximum and minimum allowable heating equipment capacity in BTUs/HR. A more

detailed calculation may be submitted to the local code official. [4] .

. Prescriptive ,	
Package ×	
Method: U overall from selected Prescriptive Total Envelope Area	, ,
Package of Section B (A.14.)	· .
OR System Design Method: Calculated Heat Loss Factor from Sect. B.	1 . '.
Infiltration & Ventilation Heat Loss Factor (from Sect. F.)	+
Total Heat Loss Factor (UA):	:
Temperature Difference from County Zone Table on page 1	×
Minimum Heating Equipment Output	· .
Allowable Heating Equipment Size Margin Multiplier	× 1.15
Maximum Allowable Heating Equipment Output [5]	= '
Planned Furnace Output Or Boiler IBR Rating	,
Make & Model if High Efficiency Credit has been taken:	•

Prescriptive Package Tables (Corrected)

(See notes on page 2 of Energy Worksheet; I'= insulating sheathing, RT = raised heel roof truss)

Table B-1 Prescriptive packages, Non-electric Heat. Structural Sheathing and

	Table B-1 Prescriptive packages, Non-electric Heat, Structural Sheathing only						
Package	Glazing Factor	R wall	R ceiling	R basement	U dòor	U oyerall	HVAC Equipment Efficiency
1	0.0370	R21	R42	R7 .	0.35	0.073	Normai .
2	0.0264	R21	R51, RT	· R5	0.35	. 0.073	· Normal .
3,	0.0333	Ŕ15	· R42	R10	0.35	0.073	Normal ·
· 4	0.0440	R19	R33.	R10	0.35	0.073	Normal .
5,	0.0330	R13	R42 .	R11	0.35	. 0.073	Normaí
. 6	0.0480	R19	R33	R11 .	0.35	0.073	Normal
7	0.0600	· R21	R47 ₹	R11.	0.35	0.073	Normal
8	0.0407	R13	R44	R13	0.35	0.073	Normal .
9	0.0600	R19	R42	R13	. 0.35	0.073	Normal .
. 10	0.0680	· R21	R38, RT	R13	0.35	0.073	· Normal
11	0.0296	R13 .	R49	R5	0.35	0.086	High
. 12	0.0440	R19	R30 ·	R5	. 0.35	0.086	High
13	0.0520	R21	. R33	R5	0.35	0.086 .	High
14	0.0720	R13	R47	, R10	0,35	0.086	· High ·
15	0.0784	R19	. R38	R10	0.47	0.086	High
16	0.0640	R13	· R33	R11	. 0.47	0.086	High
17	0.0896	R19	. R49	R11	0.35	0.086	· High
18	0.0896	R21	R34	R11	0.35	0.086	High
19	0.0920	R19	- R34	R11	0.47	0.086	High
20	0.0840	R13	R49 ·	R13	0.35	0.086	High .
21	0.0840	R19	R30	R13	0.47	. 0.086	High
. 22 ·	0.0896	R21	R31	R13	0.47	- 0.086	· High -
Package	Glazing Factor	R wall	R ceiling ·	R crawl	U door	U overall	HYAC Equipment Efficiency
23	0.0520	R19	R34	R19	0.47	0.070	Normal
24 · .	0.0672	R13	R36	R19 -	0,47	0.083	High
25	0.0720	R13	R33	R19-	0.47	0.083	High .
Package	Glazing Factor	R wall	R ceiling	R slab	U door	U oyerall	HYAC Equipment Efficiency
26	0.0560	R21	R36	R 5	0.47	0.103	Normal
27	0.0728	R13	·R36	R5 .	50.47	0.121	High
28	0.0760	R13	R34	R5	0.47	0.121	- High
Package .	Glazing Factor	R wall	R ceiling	R heated-slab	U door	U oyerall	HVAC Equipment Efficiency
29	.0.0560	R21	R47	ጆ3 .	0.47	0.101	, Normat
. 30	0.0728	R13 .	. R42	R5	0.47	0.120	High
31	0.0760	R13.	R38	RS	0.47	0.120	High ·
Package	Glazing Factor	R wall	R ceiling	R floor	U door	U overall	HVAC Equipment Efficiency
32	0.0480	R19 .	. R47	R19	0.35	0.065	Normal
33	0.0728	R19	· R36	R19	: 0.47	0.077	High.
34	0.0560	R13	R34	· R19	. 0.47	0.077	Hìgh ·

	·	<u> </u>					,~~
	,	Table B-2	Prescriptiye pac	kages, Non-elei	ctric Heat. Ir	sulating Sheath	ing
Package	Glazing Factor	R wall	R ceiling	R basement	Udoor	Uoyerall	HVAC Equipment Efficiency
35	0.0370	R20, I	R42.	R7	0.35	0.073	Normal -
36	0.0363	R28, I	R38, RT	R5 .	0,35	0.073	Normal
. 37	0.0552	R18, I ·	R44	R10 ·	0.35	0.073	Normal
38	0.0560	R20, I	R47-	R10	0.35	0.073	· Normal
39	0.0560 ·	R23,I	R34	R10	0.35	. 0.073	Normal
40	0.0560	R18, I	R47 .	. R11	0.35	0.073	· Normal ·
41	0.0616	. R23, I	R42 .	R11 .	0.35	0.073	Normal
4.2	0.0546	R18, I	R44	RII	0.35	0.073	. Normal
43	0.0672	· R23, I	R40	R13	0.35	0.073	· · Normal
44	0.0720	R25, I	R36 ·	R13.	0.35	0.073	'Normal
45	0.0504	R18, I	R40	· R5 '	0.35	0.086	High
46	0.0560	·R19, I	R47	. RS	0.35	0.086 ·	High
47	0.0560	R23, I	. R38	R5	0.47	0.086	· High
48	, 0.0600	R25, I	∙R38	R5	0.47.	0.086	High '
49	0.0680	R26, I	R42	R5 ,	0.35	0.086	High
50	0.0680	R28, I	. R47	R5	0.47	. 0.086	High
51	0.0672	R26, I	· R47	. R5 .	0.35	0.086	High
52	0.0672 、	R28, I	R38	· R5	0.35	0.086.	High
53	∙0.0720	R20, I	· R42	R7 ·	0.47	0.086	High .
- 54	0.0855	RIRT	. R36	P I I	. 035	. 0.006	TT:- 9

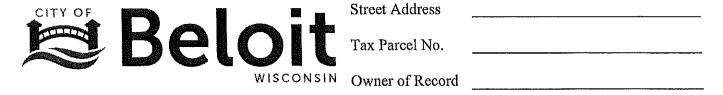
55	0.0896	R23, I	R33	R11:	0.47	0.086	High
56	0.0861 · ·	R18, I	. R36	. R13 -	0.47	0.086	High
. 57	0.1000	R23, I	R33	R13	0.47	0.086	. High
Package	Glazing Factor	R wall	R ceiling	R crawl	U door	U overali	HVAC Equipment Efficiency.
58	0.0546	R18, I	R38	R19 ·	· 0.47	0.070	Normal
59	· 0.0784	R15, I	R30'	. R19	0.47	0.083	High ·
60	0.0880	-R15, I	R38	R19	0.47	Q.083 .	. High
Package	Glazing Factor	R wall	R ceiling	R slab	U door	U overall	HVAC Equipment Efficiency
61	0.0640 ⁻	R23, I	R36	R5	0.47	0,103	Normal
62	0.0896	R15, I	R36 .:	R5 '	0.47	0.121	High
. 63	0.0960	· R15, I	R38 🕏	R5	0.47	0.121	High '
Package	Glazing Factor	R wall	R ceiling	R heated-slab	U door	U oyerall	HVAC Equipment Efficiency
64	0.0640	R23, I	R34 .	. R5	. 0.47	0.101	Normal
65	0.0840	. R15, I	R31	R5 · ·	0.47	0.121	High .
66	0.0920	R15, I	R33	R5	0.47	0.121	· High
Package	Glazing Factor	R wall	R ceiling	R floor	U door	U overall	HVAC Equipment Efficiency
67	. 0.0480	R20, I	R44	R19	0.35	0.065	Normal .
68	. 0,0728	R20, I	R36	' R19	0.47	0.077	High
69	0.0560	R14, I	R38	R19	0.47	0.078	High

Table B-3 Prescriptive packages. Electric Heat. Structural Sheathing Only

Table b-3 rrescriptive packages, Electric Heat, Structural Sheathing Only							
Package .	Glazing Factor	R wall	R ceiling	R basement	U door	U oyerall	HVAC Equipment Efficiency
B70.	0.0396	R21 _.	R37, RT	R19	0.35	0.059	Normal
E71 .	0.0429	R21	R42, RT	R19	0.35	0.059	Normal
B72	0.0520	R21	R49	'R13	0.35	0.068	. High
E 73	0.0640	R19	R42, RT	R19	0.35	0.068	High
E74	0.0693	R21	R49, RT	R19	0.47	0.068 · ·	High
Package	Glazing Factor	R wall	R ceiling	R crawl	U door	. U overall	HVAC Equipment Efficiency
B75	0.0429	R21	R54, RT	· R30	0.35	0.054	Normal
E 76	0.0480	R21	R45, RT	R19	0.35	0.062	' High
B77	0.0627	R21	R54, RT	R30 ¹	0.47	0.062	High
Package	Glazing Factor	R wall	R celling	R slab	U door	U oyerall	HVAC Equipment Efficiency
B78	0.0396	R26	R51, RT	R10.	0.35	0,083	Normal
B79	0.0480	R21	R49	R7	0.35	0.095	High
E 80	0.0528	R21	R49, RT	R5	0.35	0.095	High
Package	Glazing Factor	R wall	R ceiling	R floor	U door	U oyerall	HVAC Equipment Efficiency
E 81	0.0363	R21	R54, RT	- R30	0.35	0.052	Normal .
E 82	0.0520	R21	R49	R30	0.35	0.060	High
E 83	0.0528	R21	R44, RT	R30	0.47	0.060	High

Table B-4 Prescriptive packages, Electric Heat, Insulating Sheathing

Package Glazing Factor R wall R ceiling R basement U door U overall HVAC Equipment Efficiency						
Glazing Factor	R wall	R ceiling	Ŗ basement	U door .	U overall	HYAC Equipment Efficiency
0.0480	R25, I	R48, RT	R16	0.35	0.059	Normal
- 0.0495	R25, I	R48, RT	R16	0.35	0.059	Normal
0.0462	R28, I	R40	R16	0.35	0.059	· Normal
· 0.0429	R25, I	R36	R18	0.35	' 0.059·	. Normal .
0.0528	R23, I	· R58, RT	R18	0.35	0.059	Normal
0.0462	R25, I	R42	R18	0,35	· · · 0.059	Normal
0,0560	. R25, I	R46, RT	R10	0.35	0.068	High
0.0640 • •	R23, I	R48, RT.	R13 ·	. 0.35	0.068	· High
0.0600	R25, I	'R42 · ·	R13	0.35	. 0.068	High
0.0600	R23, I	R37	R18	0.47	0.068 .	· High
0.0759	. R25, I	.R46, RT	R18	0.47	.0.068	· High .
Glazing Factor	R wall	R ceiling	R crawl	U door	U oyerall	HVAC Equipment Efficiency
0.0429	R25, I	R48. RT	R23	0.35	0.054	Normal
0.0520 .	R23, I	R38	R23	0.35	0.062	. High
0.0561	R25, I.	R44	. R23	0.47	0.062	· · · High
Glazing Factor	R wall	R ceiling	R slab .	U door	U oyerall	HVAC Equipment Efficiency
1 · 0.0396	R25, I	R48, RT	R10 ·	0.35	0.083	" Normal
0.0560	'R23, I	· R44	R7	0.35	0.095	High ·
0,0594	R25, I	R46, RT	·R5	0.47	.0.095	High
Glazing Factor	R wall	R ceiling	R floor	U door	U overall '	HVAC Equipment Efficiency
. 0.0429	R25, I	` R46, RT	R30	0.35	0.052	· Normal
0.0560	R23, I	R44	· R30	0.35	0.060	High .
	0.0495 0.0462 0.0429 0.0528 0.0462 0.0560 0.0640 0.0600 0.0759 Glazing Factor 0.0429 0.0520 0.0561 Glazing Factor 0.0396 0.0560 0.0594 Glazing Factor 0.0429	Glazing Factor R wall 0.0480 R25, I 0.0495 R25, I 0.0462 R28, I 0.0528 R25, I 0.0528 R25, I 0.0560 R25, I 0.0640 R23, I 0.0600 R25, I 0.0600 R25, I 0.0759 R25, I 0.0429 R25, I 0.0520 R23, I 0.0520 R23, I 0.0561 R25, I Glazing Factor R wall 0.0396 R25, I 0.0594 R25, I Glazing Factor R wall 0.0594 R25, I Glazing Factor R wall 0.05294 R25, I Glazing Factor R wall 0.0429 R25, I 0.0594 R25, I Glazing Factor R wall 0.0429 R25, I R25, I Glazing Factor R wall 0.0594 R25, I Glazing Factor R wall 0.0429 R25, I	Glazing Factor R wall R ceiling	Glazing Factor R wall R ceiling R basement 0.0480 R25, I R48, RT R16 0.0495 R25, I R48, RT R16 0.0462 R28, I R40 R16 0.0429 R25, I R36 R18 0.0528 R23, I R58, RT R18 0.0528 R23, I R58, RT R18 0.0462 R25, I R42 R18 0.0560 R25, I R46, RT R10 0.0640 R23, I R48, RT R13 0.0600 R23, I R37 R18 0.0759 R25, I R46, RT R18 Glazing Factor R wall R ceiling R crawl 0.0429 R25, I R48, RT R23 0.0520 R23, I R38 R23 0.0561 R25, I R44 R23 Glazing Factor R wall R ceiling R slab 0.0560 R23, I R48, RT R10	Glazing Factor R wall R ceiling R basement U door 0.0480 R25, I R48, RT R16 0.35 0.0495 R25, I R48, RT R16 0.35 0.0462 R28, I R40 R16 0.35 0.0429 R25, I R36 R18 0.35 0.0528 R23, I R58, RT R18 0.35 0.05462 R25, I R42 R18 0.35 0.0560 R25, I R46, RT R10 0.35 0.0540 R23, I R48, RT R13 0.35 0.0600 R25, I R42 R13 0.35 0.0600 R23, I R37 R18 0.47 0.0759 R25, I R46, RT R18 0.47 Glazing Factor R wall R ceiling R crawl U door 0.0429 R25, I R48, RT R23 0.35 0.051 R25, I R44 R23 0.47	Glazing Factor R wall R ceiling R basement U door U overall 0.0480 R25, I R48, RT R16 0.35 0.059 0.0495 R25, I R48, RT R16 0.35 0.059 0.0462 R28, I R40 R16 0.35 0.059 0.0429 R25, I R36 R18 0.35 0.059 0.0528 R23, I R58, RT R18 0.35 0.059 0.0528 R23, I R58, RT R18 0.35 0.059 0.0462 R25, I R42 R18 0.35 0.059 0.0560 R25, I R46, RT R10 0.35 0.068 0.0640 R23, I R48, RT R13 0.35 0.068 0.0600 R25, I R42 R13 0.35 0.068 0.0759 R25, I R46, RT R18 0.47 0.068 Glazing Factor R wall R ceiling R crawl U door



DRIVEWAY PERMIT

Application for Construction, Reconstruction, Alteration or Enlargement of access to public Right of Way

The undersigned applicant represents that this application is for the bona fide purpose of securing access to the above described property. It is not to be used for the purpose of parking or servicing vehicles, the advertising, storage or merchandising of goods, or for any other purpose, within the dedicated portion of a City Street.

The undersigned applicant acknowledges that the City of Beloit, notwithstanding the construction of this driveway, reserves the right to make any changes, additions, repairs, or relocations within the dedicated portion of the City street at any time. This shall include the relocation, reconstruction, widening, and maintaining of said street without compensating the owner of such private driveway for the damage or destruction of such private driveway.

The undersigned applicant, his successors or assigns, agrees to indemnify and hold harmless the City of Beloit, its officials, officers, agents and employees, against any claim or any cause of action for personal injury or property damage sustained by reason of the exercise of this permit.

The undersigned applicant acknowledges that the City of Beloit does not assume any responsibility for the removal or clearance of snow, ice, or sleet, or the opening of any windrows of such material upon such portion of such driveway within the dedicated portion of the City street.

The undersigned applicant acknowledges that the City reserves the right to control or restrict the flow of traffic into and out of said driveway, including the construction of physical barriers within the traveled portion of the street to implement such controls.

The undersigned applicant certifies that he represents all parties in interest for the property involved and has read all of the above and agrees to be bound by the terms stated.

Print Name	Signature	Date
	ng accurately depicting the proposed private driveway, the dir e materials to be used.	nensions thereof, and a
Phone number at whicl	h the applicant can be reached for questions:	
Address to which the c	completed Permit should be mailed:	
Official Use Only, Do not w	write below this line.	
Engineering Recomme		
	Ву	Date
City Engineer:	Approved Denied	
	Signed	Date
Subject to conditions a	and requirements:	
Marine .		
****	•	Page

24-Hour Notice shall be given to Engineering Division before placement of concrete/asphalt. Pre-pour inspection approval must be obtained from Engineering Division before proceeding with construction.



DRIVEWAY SPECIFICATIONS

For Construction, Reconstruction, Alteration or Enlargement of access to public Right of Way

Material:

The City Engineer approves driveway approaches as follows:

On streets with existing curb and gutter: 6 inch thick WDOT Grade A concrete

Concrete driveways must be isolated from the sidewalk and from the curb with ½" thick bituminous felt expansion joint material.

On streets without curb:

2 inch thick bituminous asphalt over 6 inches of gravel.

The City Engineer reserves discretionary approval upon request for brick or other materials for historical, architectural, or aesthetic value. *Ref. 7.23(8)(a-c) & 12.09(4)n

Width:

The maximum width of a residential driveway is 20 feet measured at the sidewalk or the right of way line. The minimum is 10 feet wide. The maximum width of a commercial driveway is 30 feet measured at the sidewalk or the right of way line. The City Engineer reserves discretionary approval of a wider commercial driveway if necessary. *Ref. 11.23

Length:

The driveway approach is that portion of the driveway located in the public right of way. For the purpose of code compliance a property owner may hire a professional land surveyor to accurately determine the right of way line. Alternatively one may estimate the right of way limits based upon: found iron pins; 18 inches toward the house from the existing sidewalk; or from a table of right of way widths, surface widths, and terrace widths of the subject street. When no sidewalk exists, the applicant should request line and grade stakes to be set by the City Engineering Division.

Flare:

A driveway flare is that part of the approach that widens near the street in order to ease the turning movement of cars into the driveway. The flare should be triangular and proportional to the terrace width. An existing curb opening may be enlarged or rebuilt to accommodate the requested improvement. Suggested flare widths are as follows:

Terrace width	Flare width
3 feet or less	1 foot each side
3 to 6 feet	2 feet each side
6 to 9 feet	3 feet each side

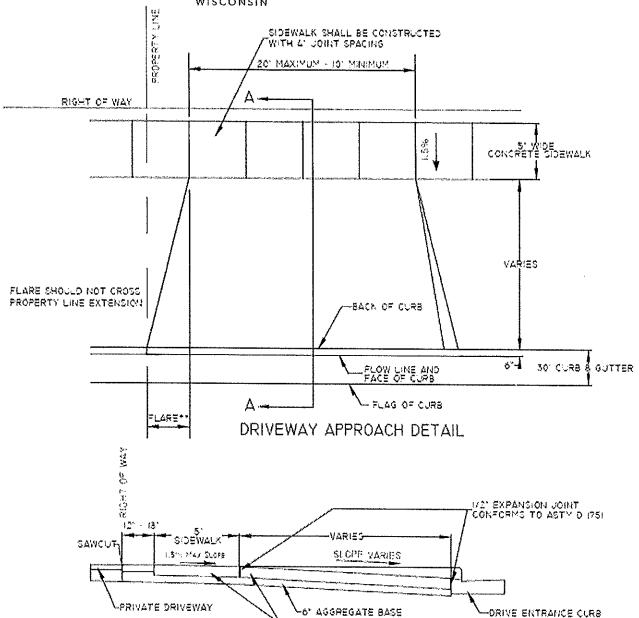
In no case may the flare width exceed 4 feet for a residential drive or 5 feet for a commercial drive.

Other considerations:

All work on driveway approaches requires a permit. Additional conditions may be imposed by the engineer upon review of the application and the site including, but not limited to: separation from other driveways and intersections; alignment and grade of driveway with respect to roadway and site improvements; conflicting utilities; and culvert pipes. Generally only one driveway is permitted for each residential lot, but a corner lot or an extra wide lot may apply for two driveways. Driveway approaches must lead to legal parking spaces. *Ref. 19.XI.3.57

24-Hour Notice shall be given to Engineering Division before placement of concrete/asphalt. Prepour inspection approval must be obtained from Engineering Division before proceeding with construction.





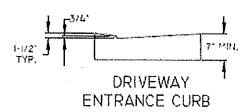
SECTION A~A

6" CONCRÈTE BRIVE AND SIDEWALK

NOTES:

12.07(12) * ALL SIDEWALKS SMALL BE AT LEAST 5 FEET IN WOTH AND CONSTRUCTED OF CONCRETE, ALL SIDEWALKS SMALL BE SEPARATED FROM THE PAYED STREET SURFACE BY A MINIMUM 6-FOOT WIDE GRASSED TERRACE. SIDEWALKS SMALL BE LOCATED 12 TO 18 NOHES INSIDE THE RIGHT-OF-WAY LIKE UNLESS AN ALTERNATIVE LOCATION S CONSICERED APPROPRIATE BY THE CITY ENGINEER.

THE MAXIMUM RESIDENTIAL FLARE IS A FEET, AND THE MAXIMUM COMMERCIAL FLARE IS 6 FEET.



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Driveway Permit Application Checklist (for office use only)

Street Address: Yes No Is the driveway located on a public street under the control and jurisdiction of the City? Will it be constructed, reconstructed, altered or enlarged? Does application include a drawing of the proposed changes, including dimensions? Will the applicant only be using the drive for access to their property? П City Ordinance 11,23 Is the driveway and appurtenances within the limits of the frontage abutting the street? Is there adequate sight distance? Does the driveway open into an intersection or other area of traffic control? If yes, is there a reason for the City Engineer's exception? How many access points are already existing at the property? Are the total number of driveways to the property the minimum deemed necessary П for reasonable and adequate service considering safety, convenience and utility? Does the driveway affect water drainage? (Highway runoff, ditches) Is there a culvert needed? If so, has the culvert been sized for flow? (15" minimum) If so, is there 10' between the culvert and the nearest successive culvert? Will the curb, gutter or sidewalk need to be modified? If there is existing sidewalk, is it in acceptable condition? If there is existing sidewalk, is it likely to be damaged by vehicle traffic? Does any part of the driveway protrude into the limit of the roadway? Commercial Drives: Is the width of the driveway less than 30'? Is the return radius or flare less than 5'? Is the diverging angle from the roadway less than 45°? Is there 30' between the driveway from another driveway serving the property? Non-Commercial Drives: Is the width of the driveway less than 20'? Is the return radius less than 4'? Is the diverging angle from the roadway a right angle? What special considerations should be made, if any?