

# **MEMO**

## PLANNING AND COMMUNITY DEVELOPMENT

To: Redevelopment Authority of the City of Kaukauna (RACK)

From: Lily Paul, Associate Planner

Date: March 31, 2022

Re: Certificate of Appropriateness for 102 W Wisconsin Ave

John Lorbiecki, owner of Lorbiecki Homes, LLC, is renovating the building located at 102 W Wisconsin Ave, on the corner of Wisconsin Ave and Lawe Street. This site is in the Commercial Core District (CCD). This building will serve as the offices for Lorbiecki Homes, LLC.

The proposed façade renovations include covering the existing CMU wall with EIFS and new thin-stone veneer system. The original design plan showed the façade as Lap Siding, but the updated design was recommended to be EIFS instead. See attached the design and site plan created by Gries Architectural Group, Inc.

CCD – Commercial Core District zoning regulations grant design review to RACK for façade improvements.

#### Staff Recommendation:

Staff recommends to approve the design for façade improvements to 102 W Wisconsin Ave and grant a Certificate of Appropriateness.

Name ELEVATION MARK - EXISTING

Name ELEVATION MARK - NEW

- DRAWING NUMBER ON WHICH SECTION APPEARS

DRAWING NUMBER ON WHICH DETAIL APPEARS

DRAWING NUMBER ON WHICH DETAIL APPEARS

PLAN DETAIL / ENLARGED PLAN SYMBOL

# **Conditionally Approved**

# 11/5/2021

# A BUILDING RENOVATION FOR:

# 102 W. WISCONSIN AVE.

# KAUKAUNA,

## WISCONSIN

MATE	RIAL INDEX-PLANS,SEC	TIONS	
	EARTH		FINISHED LUMBER
	COMPACTED FILL		RIGID INSULATION
3.4.5	GRAVEL FILL	10,100	BATT INSULATION
1	CERAMIC TILE	2.5.6	DRYWALL
1 1	POURED CONCRETE		STEEL
	CONCRETE BLOCK		PRECAST CONCRETE
//_	CONCRETE BLOCK FILLED	4111	ACOUSTIC TILE
	FACE BRICK		BITUMINOUS PAVING
	STONE		EXISTING WALL TO BE REMOVED
$\geq \leq$	ROUGH LUMBER		EXISTING WALL TO REMAIN
	PLYWOOD		CONSTRUCT NEW WALL
REFE	RENCE SYMBOLS		DRAWING SYMBOLS
	CECTION OUT OVARDOL (AVAIL) OF	-0710110	DOOR TAG
	SECTION CUT SYMBOL (WALL SE SECTION DESIGNATION (NUMBER FOR CROSS	<u>-CTIONS</u>	A REVISION NUMBER
1	SECTION DESIGNATION (NUMBER FOR CROSS SECTION & LETTER FOR WALL SECTION)		(W) MANDOW TAC

	(4.)	BOOK IAG
	$\triangle$	REVISION NUMBER
	<b>(M)</b>	WINDOW TAG
0		COLUMN LINE DESIGNATION- NEW
*		WALL TYPE
UF	-	STAIRWAY DIRECTION INDICATION
	?	KEYNOTE MARK - ACCESSORIES

	0	RETNOTE WARK - FLAN N	U
10	7-0" A.F.F	SPOT ELEVATION MARKE	R

(P) KEYNOTE MARK - DEMOLITION NOTES

GOVERNING AUTHORITY - WISCONS	IN DEPT. OF COMMERCE SAFETY AND BUILDINGS DIVISION
REFERENCED CODE	INTERNATIONAL BUILDING CODE 2015 (EXISTING)
CLASS OF CONSTRUCTION	V-B
OCCUPANCY CLASSIFICATION	BUSINESS (B)
LOCAL ZONING AUTHORITY	CITY OF KAUKAUNA
BUILDING SPRINKLED	NO
BUILDING AREA:	
EXISTING FIRST FLOOR:	1,000 S.F.
TOTAL BUILDING SQ. FT.:	1,000 S.F. (EXISTING)

#### SHEET INDEX

C-S COVER SHEET

ARCHITECTURAL
A.10. LIFE SAFETY PLAN
A.11. LIFE SAFETY PLAN
A.11. FLOOR PLAN, DEMOLITION PLAN, REFLECTED CEILING
PLAN, & BUILDING SECTION
A.21. ROOM FINISH SCHEDULE, NOTES, INT. WALL TYPE(S),
& ADA GUIDELINES

PROJECT LOCATION 102 W. WISCONSIN AVE. KAUKAUNA, WISCONSIN 54130

VICINITY PLAN

ADA GUIDELINES
 AS-1 DOOR SCHEDULE, DOOR & FRAME ELEVATIONS, WINDOW ELEVATION
 A-4.1 EXTERIOR ELEVATIONS & 3D VIEWS
 A-6.1 WALL SECTION & DETAILS

NOTE:
ALL TRADES SHALL CROSS REFERENCE ALL CONSTRUCTION DOCUMENTS FOR COORDINATION AND SCOPE OF WORK.



## SITE PLAN





## **CONSULTANTS**

500 N. COMMERCIAL STREET NEENAH, WI 54956 PH (920)722-2445 FX (920)722-6605 CONTACT: BRANNIN GRIES, AIA



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DOCS. 10-25-21 CONST. I



BUILDING RENOVATION FOR

102 M. MISCONSIN AVE.







#### EMERGENCY LIGHTING NOTES:

LEIGHBOURD LIGHTING NOTES:

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3. ELECTRICAL CONTRACTOR BALL, PROVIDE A PHOTOMETRIC PLAN SHOWING THE DHERRONCY LISHTING TRATIFE LAYOUT FOR REVISED BY THE ARCHITECT PRICE TO ORDERNO FILTINGE, IT THE CONTRACTOR CHANNET PROVIDE BUCK A PLAN. THIS MAY BE COORDINATED THROUGH THE ARCHITECT AT AN ADDITIONAL COST TO THE CONTRACTOR.

#### FIRE EXTINGUISHER NOTES

FRE DETINIORIER NOTES:

FIRST ESTIMATERS SHALL BE PROVIDED, AT A
MINIMA TO MEET BIS FOO RECURSIONING. SIC NO
RETURNING SECTION FOO OF THE CY, HAPPEN
PAGE 160.501 MIDATES THE MINIMA
PAGE 160.501 MIDATES THE MINIMAPER SHALL BIS THAT
PAGE 160.501 MIDATES THE MINIMAPER SHALL BIS THAT
COMES 1,000 ST.

COM

GENERAL CONTRACTOR SHALL COORDINATE ANY ADDITIONAL LOCAL REQUIREMENTS WITH THE LOCAL FIRE DEPARTMENT OFFICIALS.

EXTERIOR FALL OFFINES

\*THORE IS NO LINT ON LINTROTECTED OPENINGS FOR
THIS BULDING, AS PIKE BEPARATION DISTANCE IS
ORDATER THAN 30 ON 3 DEES OF EXTEND BULDING
(PER TABLE 105.0), SEE STE PLANS FOR DISTANCE

HAZARDOM MATERIAL NOTE:

\*THERE FILL DE NO NAZARDOUS MATERIALS N
GUANTITES GREATER THAN ALLOYED BY TABILIAR
VALUES N SECTION 4'4 STORED IN BULDING, SO NO
CONTROL AREAS ARE REQUIRED.

#### MECHANICAL EQUIPMENT NOTE:

\*NO SNOUL PECE OF MECH, EQUIPMENT SHALL EXCEED 400,000 B.T.L. REPER TO SEMERAL, NOTES ON SHT. A-LL FOR ADDITIONAL INFORMATION.

#### FIRE RESISTANCE REQUIREMENTS

CONSTRUCTION TYPE :	TYPE V-B	TABLE 601
STRUCTURAL FRAME:		-
EXTERIOR DEARNS MALLS:	0	TABLE DOS
NTERIOR BEARING WALLS:	0	
EXTERIOR NON-DEARING MALLS:	0	
PERMANENT PARTITIONS:	0	
CORRIDOR WALLS:	0	
SHAFT DICLOSURES:	N/A	
INTERIOR SHAFT MALLS:	N/A	
ELEVATOR MACHINE ROOM	N/A	
PLOORS:	0	
ROOPS:	0	

		CODE REFERENCE
CITY COUNTY:	KALKALNA OUTAGAME	
CLOSEST INTERSECTION:	IN MEGONEN & LANE ST.	
DIRECTION FROM INTERBECTION:	NORTHEAST	
SEMER TYPE :	PUBLIC	
PAGLITY USE :	OPPICE	
SCOPE OF MORK :	RENOVATION OF EXIST, BULDING	
BULDING OCCUPANCY TYPE :	Butiness (B)	BECTION 300.2
CONSTRUCTION TYPE:	TYPE V-B	
NO. OF PERSONS EMPLOYED :	UNKNOWN	
NO. OF FERSONS (PUBLIC):	Varies	
HANDICAP ACCESSIBILITY:	YES	
INTIAL ALLONABLE AREA :	9,000 BO, PT,/FLOOR	TABLE 503
INTIAL ALLOYABLE STORES:	TMO (2)	TABLE 503
ACTUAL STORIES:	ONE (I)	
AREA MODIFICATIONS :	NO PRONTAGE INCREASE TAKEN (EXIST.)	SECTION 506
SPRINKLER INCREASE:	NONE TAKEN- NO SPRIKLER	
ALLONABLE AREA W/ MODS: :	NONE TAKEN (EXIST.)	SECTION 506.2
AUTOMATIC SPRINKLER:	NONE- EXIST. BLDG.	
FIRST FLOOR AREA:	1,000 S.F. (EXST.)	
TOTAL BLDG, AREA	1,000 tig. FT. (Exist.)	

ROOMSPACE	USE PER TA	USE FER TABLE 1004,1.2 RM, AREA SQ. FT, AREA/OCG.						
FIRST FLOOR	BUSNESS (E	9)	1,000 9,F.	100 GROS	56	10		
TOTAL BLDG. C	CCUPANT LOAD					10		
EGRES	5 MIDTH	CALC	<b>5</b> .	REQ. STAIR BORE				
ROOM/SPACE	USE CLASS. OR	occ.						
ROOM/SPACE BUSINESS/OFF	USE CLASS, OR OCCUPANCY	LOAD	STAIR MEDTH FACTOR	REQ. STAIR MEDTH		TOR		

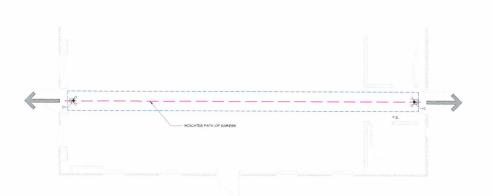
MAX EXIT DIST. - FRST FLOOR 60 PT. (TOTAL)

LEGEND:	
PEC PE	FRE EXTINGUISHER/FIRE EXTINGUISHER CABINET - MIN, 10F "A-B-C" (JALESS NOTED OTHERWISE) OR OTHER AS REOLD, BY STATE AND/OR LOCAL CODE
>	EXIT/EXIT PATH
, ×	NDICATES EXTILIBRITISION,
(A)	DHERGENCY EGRESS EXTERIOR BATTERY BACK-UP LIGHT PIXTURE PER, ISC 2015, SECTION 1006.

OCCUPANCY			MATER C	LOSETS			LAVAT	ORIES	TUB/9H	ONER	D. FOU	NTAINE	
TYPE	A PEOPLE		FACTOR(6)		# FIX (M) # FIX (F)		FACTOR.	* FIX	FACTOR.	# FIX	FACTOR	# FIX	
FIRST FLOOR (B)	10	1/25 Pu	OR 18T 50	.40	40		1/40	.25	N/A	N/A	1/100	.10	
COMPLIANCE CHECK	м	N	MOMEN	LAVATO	UES	TUB.	ASHONER.	D. Fo	CINTANS	отне	R		
COMPLIANCE CHECK	UNINALS	M. C.9	N. G.S					-					
FIRST FLOOR REQUIRED	-	.40	.40 .40		25 (EA) N.		/A		1 50%		SNK NOT REGIT		
PROVIDED	-	1- LN3	1- UNIBEX UBE*		1- INMEX DRES		N/A		100		NONE		

\* SHASLE TOLET ROOM IS BEING PROVIDED AS TOTAL OCCUPANT LOAD IS LESS THAN 15, AS FER (P) 24022, EVGEPTION F2.

\*\* PORTABLE MATER DISPOSER TO BE INSTALLED AT TIME OF TENANT OCCUPANCY, IN LIEU OF DRINKING FIGURIAN.





date: 10/25/21

Gries Architectural Group Is

**MISCONSIN** 

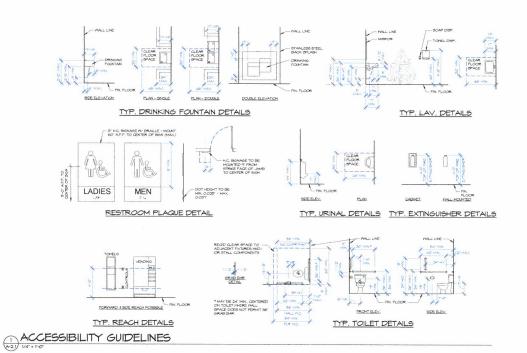
BUILDING RENOVATION FOR:

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SECT. 1005.3.2 SECT. 1005.3.2

102 M. WISCONSIN AVE.

d. by: BUS, LCF



				ROOM F	NISH SCHE	DULE			
õ					MAI	LS			
SOOM	ROOM NAME	FLOOR	BASE	NORTH	SOUTH	EAST	WEST	CEILING	REMARKS
RST	FLOOR			1.011111				OLILINO	14000
100	OPEN OFFICE	FF-1	BP-1	MF-I	PF-1	MF-I	NF-I	CF-I	-
101	TOLET	FF-2	DF-2	PVF-1	PF-1	7F-1	1/4F-1	CF-1	-
102	MECH.	PF-3	DP-2	ME(-)	INF-1	PF-1	PNF-1	CF-I	

	MATERIAL SCHEDULE
rlook	NG .
PF-1;	CARPET TILE-STYLE/COLOR: T.B.D SIZE: 24" X 24" (VERIFY)
PF-2	CERAMIC/PORCELAN TILE- BIZE: 12' × 12' (VERFY)
FF-9:	EXIST, CONC. BEALED
BACE	
DF-1:	VINYL COVE BASE- SIZE: 4" HISH
DF-2:	CERAMIC/POCELAN TILE-9/2E- 6" HIGH FINSH MATCH FLOOR
NALLS	
PNF-1:	6YPSUM BOARD - PAINTED, PAINT TYPE: INTERIOR 6RADE LATEX, PAINT COLOR: T.B.D.
GELNS	
GF-1:	6175UM BOARD - PANTED, PANT TYPE: INTERIOR GRADE LATEX, PANT GOLOR: T.B.D.

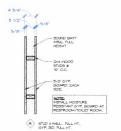
#### GENERAL ROOM FINISH NOTES:

- ALL 6YP, BOARD SURFACES SHALL BE TAPED, MUDDED, PRIMED, AI PRISHED WITH TWO (2) COATS OF PAINT.
- PROVIDE TRANSITION STRIPS BETWEEN CONCRETE PLOORS AND FINISH FLOORS TYPICAL.
- FLOOR FINISH MATERIALS SHALL TRANSITION AT THE CENTER OF THE
- SYPPIM BOARD IN THE RESTROOMS AND SURROUNDING THE UTILITY SIX
- METAL EDGE STRIPS TO BE INSTALLED WHERE EXPOSED EDGE OF TILE MEETS CARPET WOOD OR OTHER PLOCEING.
- USE SCALUTER RONDES AT TOP OF TILE (WHERE APPLICABLE, OR NO-BULL-NOSE TRIM IS USED) & OUTSIDE CORNERS.
- PROVIDE CRACK IDOLATION MEMBRANE AS REQUIRED,

#### GYPSUM BOARD CONTROL (EXPANSION) JOINT NOTE:

INSTALL CONTROL (EXPANSION) JOINTS ACCORDING TO ASTM C480 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT.

- CONTROL (EXPANSION), JOINTS SHALL BE INSTALLED IN CRILINGS EXCERDING 2500 SF, IN AREA, THE DISTANCE SHALL NOT BE MORE THAN 50 FEET BETWEEN CELLING CONTROL (EXPANSION), JOINTS IN EITHER DIRECTION WITH PERIMETER RELIEF, 30 FEET IN EITHER DIRECTION WITHOUT PERIMETER RELIEF.
- PARTITION, WALL AND WALL FURRING RUIS EXCEEDING NOT MORE THAN 30 FEET. A CONTROL (EXPANSION) JOINT SHALL BI INSTALLED WHERE A CONTROL (EXPANSION) JOINT OCCURS IN THE BASE EXTERIOR WALL.
- CONTROL (EXPANSION) JOINTS ARE NOT REQUIRED FOR WALL LENGTHS LESS THAN 30 FEET.
- 4 EXTEND CONTROL (EXPANSION) JOINTS THE PULL HEIGHT ( THE WALL OR LENGTH OF SOFFTICELLING MEMBRANE.
- 5. LOCATE CONTROL (EXPANSION) JOINTS AT BOTH JAMBS OF OPENINGS IF GYPSLIM BOARD IS NOT "YOKED" (CENTERED ON
- WHERE VERTICAL AND HORIZONTAL CONTROL (EXPANSION JOINTS INTERSECT, VERTICAL CONTROL (EXPANSION) JOIN SHALL BE CONTROLUS; HORIZONTAL CONTROL (EXPANSION)



INTERIOR WALL TYPES

date: 10/28/21 job: 21-122

d. by: Bus, LCF

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Architectural Group In

**NISCONSIN** 

KAUKAUNA

A BUILDING RENOVATION FOR:

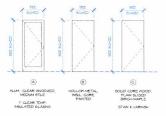
102 M. WISCONSIN AVE.

A-2.1

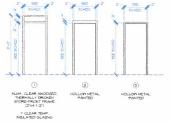
							D00	R SCHEDL	JLE							
				DOOR					FRAME				FIRE			
DOOR				OPE	NING	THICKNE			1						RATIN	
NO.	FROM	TO	HAND	MIDTH	HEIGHT	55	TYPE	MATL	FINISH	TYPE	MATL	FINISH	HRD'W, GROUP	G	REMARKS	
TROT FLOC	R				1		-		1			1 11 11011	111-011-011-001		14011444	
100A	EXTERIOR.	OPEN OFFICE	LAR	9-0	1 7-0		A	AUM.	ANOD.	1	ALIM.	ANCO.	ENTRY	- T	-	
1000	EXTERIOR	OPEN OFFICE	RHR	3 - 0	T-0		A	ALIM.	ANOD.	1	ALUM.	ANOD.	INTRY	-	-	
1000	EXTERIOR	OPEN OFFICE	RHR	9'-0"	7-0	0'-19/4"	B	HJM., NBUL.	PANT	2	H.M.	PANT	ENTRY			
101A	OPEN OFFICE	TOLET	RH	3'-0	T - 0"	0 -19/4"	6	5.C. MOCO	260	3	H.M.	PANT	PRIVACY	-		
102A	OPEN OFFICE	MECH	RH	3-0	7-0	0-13/4	- 6	8.G. POOD	94	9	HAM.	PANT	STORAGE CLASSROOM	-	-	

#### GENERAL DOOR & WINDOW NOTES:

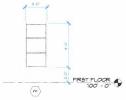
- VERIFY ALL OFFINING DIMENSIONS PRIOR TO FABRICATION OR CONSTRUCTION OF ALL DOORS 4 PRAMES.
- ALL HARDWARE TO BE AMERICANS WITH DISABILITIES ACT (A.D.A.)
  COMPLIANT,
- FROPER ENT HARDWARE & REQUIRED ON ALL ENT AND ENT ACCESS
  DOCKES, HARDWARE & HALL COMPLY WITH REQUIREMENTS OF SIG SECTION
  1006.13 THRU 1006.14.
- ALL TRAVES TO BE FIELD VERIFIED PRIOR TO FABRICATION BY PINDOWS SUPPLIER.
- ALL GLAZING IN HAZARDOUS IMPACT AREAS SHALL BE SAFETY GLAZING IN ACCORDANCE WITH SECTION 2406.
- ALL HOLLOW METAL DOORS/FRAMES SHALL BE WELDED. NO KNOCK DOWN FRAMES FERMITTED.
- ALL EXPOSED STEEL LINTELS TO BE FRANCE & PANTED.
- ALL EXTERIOR HOLLOW METAL EXIT DOORS TO HAVE LATCH GUARDS AND CLOSERS.
- ALIMNIM ENTRANCE DOORS SHALL BE EQUIPPED WITH CYLINDER LOCK, INTERIOR TURN-LOCK, SURFACE MOUNTED SELF CLOSER AND DOOR STOP.
- STANDARD ROUND PUBLIPULLS UNLESS NOTED OTHERASE. FINSH TO MATCH DOORS.
- ALL NEYING SHALL BE COORDINATED AND VERIFIED WITH OWNER AND/OR. OWNER'S REPRESENTATIVE.
- ALL ALIMINUM STOREPRONT TO BE CLASS I ANODIZED ALIMINUM.



DOOR ELEVATIONS



FRAME ELEVATIONS 1/4" = 1'-0"



date: 10/25/21

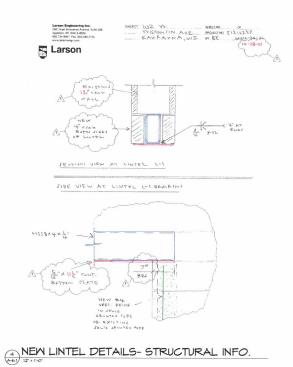
Gries
Architectural Group Inc.

**MISCONSIN** 

KAUKAUNA

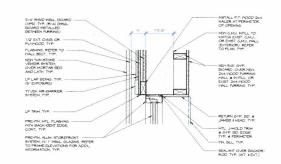
A BUILDING RENOVATION FOR: 102 M. MISCONSIN AVE.

A-3.1

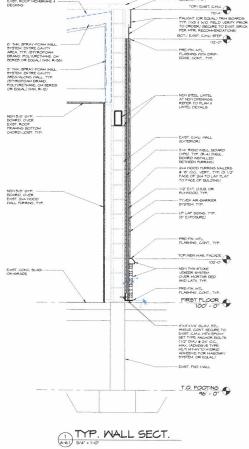


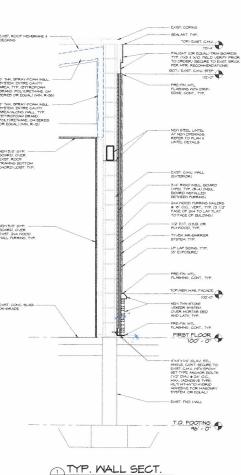
INSTALL P.T. PLOOD 2X4 AT END OF WALL PRE-PIN. MTL. FLASHING WITH BACK-BENT EDGE, GONT., TYP. SEALANT, TYP. LP TRM. TYP. FLASHING, REFER TO WALL SECT., TYP. LP LAP SDNS, TYP. TYVEK AR-BARRIER SYSTEM, TYP, 1/2" EXT. O.S.B. OR FLYWOOD, TYP. 3/4 RISO NEUL BOARD — (XPB), TYP. (R-4) (NSL. BOARD INSTALLED BETYERN FURRING) 2/4 WOOD FURRING NALERS 9 10° O.C., VERT., TYP. (3 1/2 FACE OF 244 TO LAY FLAT TO FACE OF BULDING)

# PLAN DET. @ NEW FACADE TO EXIST. C.M.U.



PLAN DET. @ EXT. OPENING JAMB





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BUILDING RENOVATION FOR:

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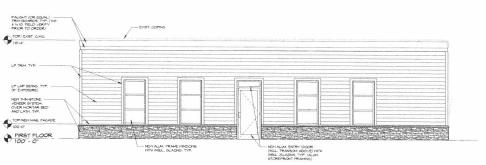
date: 10/25/21 d. by: Buo, Lor rev.: REV. #1 (10-28-21)

A-6.1

102 M. WISCONSIN AVE.

MISCONSIN

KAUKAUNA

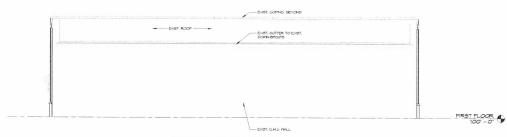


SOUTH ELEVATION



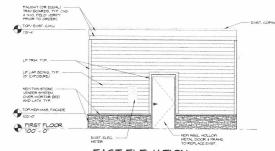
WEST ELEVATION

1 1/4" = 1-0"

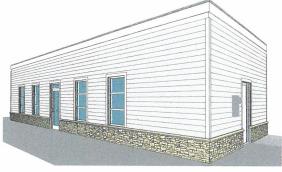


NORTH ELEVATION

AND 1/4" & 1"-0"



EAST ELEVATION



3D VIEW- SOUTHEAST CORNER



3D VIEW- SOUTHWEST CORNER

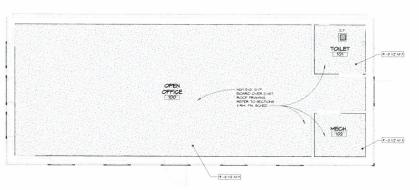
Gries Architectural Group Inc. 900 Nath Cremental Same Newsh. Warcom 59546 www. paradolings.



**MISCONSIN** A BUILDING RENOVATION FOR: 102 M. WISCONSIN AVE.

KAUKAUNA,

job: 21-122 d. by: Bub, LCF



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#### GENERAL PLAN DEMOLITION NOTES:

- ALL CONTRACTORS SHALL VISIT THE SITE AND FELD VERIFY THE LOGATION OF ALL WALLS, DOORS, LIGHTS, DUCTS, PLIMBING FIXTURES, ETC. TO SE REMOVED.
- ALL MATERIAL SHALL BESCHE THE PROPERTY OF THE CONTRACTOR AND MIST BE REMOVED PROMITHE SITE IN A TIMELY MANNER UNLESS NOTED CTHERMISE.
- REMOVE ALL EXISTING ROOM FINISHES AS REQUIRED TO ALLOW FOR APPLICATION OF NEW MATTERS AS ALLOW FOR APPLICATION OF THE BOOM FAMILY ACCIONS.
- PATCH OPENINGS IN PLOCRS, WALLS, AND ROOF INFERE MEGHNICAL EQUINITY FLIMBING DUCTS, PIFES, CONDUTTS, ETC, ARE REMOVED, MATCH ALL EVISTING FINISHES.
- PATCH ANY AREAS OF LAPH, PAVING, OR CONCRETE PAVING AND/OR CONCRETE CURPS DISTRIBUTED BY CONSTRUCTION AND MATERIAL DRI MESS.
- ALL SITE UTLITED MIST BE PIELD VERIFIED PRIOR TO DEMOLITION WORK.
   IRCOVIDE PROTECTION FOR ANY EXISTING CONSTRUCTION OFEN TO THE ELEMENTS DUE TO DEMOLITION.
- PATCHING OF MASCHARY TO BE TOOTHED IN WHEN PATCHING NEW AND EXISTING
- . PRIOR TO DEMOLITION, VERIFY THAT ALL OWNER ITEMS HAVE BEEN REMOVED.

#### GENERAL FLOOR PLAN NOTES:

- CONTRACTOR TO PROVIDE ALL NEGESBARY PERMITS & FEES REQUIRED TO COMPLETE THE PROJECT.
- CONSTRUCTION & INSTALLATION SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE & NATIONAL BUILDING CODES & THE AMERICANS WITH DRABLITY ACT.
- ALL NEW YALLS SHALL BE CONSTRUCTED AS PER THE YALL TYPE I SHALL DI CARRIED TO THE STRUCTURE ABOVE, UNLESS OTHERWISE NOTED, PREPARE
- CONTRACTOR TO PROVIDE BLOCKING FOR ALL HALL SUPPORTED CASENORY, TOLET ACCESSORIES, HANDRALS, EQUIPMENT, DOOR STOPS

# 2 FIRST FLOOR- DEMOLITION PLAN



#### GENERAL FLOOR PLAN NOTES:

- YHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT INDIVIDUAL UNITS OF HORK AT AD A. STANDARD MOUNTING HEIGHTS FOR THE PARTICULAR APPLICATION INDICATED, REFER QUESTIONABLE MOUNTING HEIGHT CHOICES TO THE ARCHITECT FOR A FINAL DECISION.
- DO NOT SCALE THE DRAWNOS.
- ALL DIMENSIONS AND INTERIOR WALL THICKNESSES ARE FROM THE PINSHED FACE OF WALL TO FINSHED PACE OF WALL, UNLESS NOTED OTHERWISE.
- ALL DOOR OFFEETS (HINSE SIDE) TO BE A MINIMUM OF 4", UNLESS NOTED.
  OTHERWISE.
- ALL 6YF, BOARD SHALL RETURN TO ALL WINDOW/DOOR FRAMES AT JAMBS I HEAD, TYPICAL, UNLESS NOTED OTHERWISE.

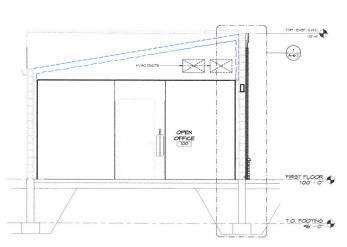
#### STANDARD FLOOR PLAN NOTATION:

-INDICATES ENT LIGHTS (SEE LIFE-SAFETY PLAN SHEET, REPL. CLG.
PLANS AND ELECTRICAL PLANS FOR LOCATIONS)

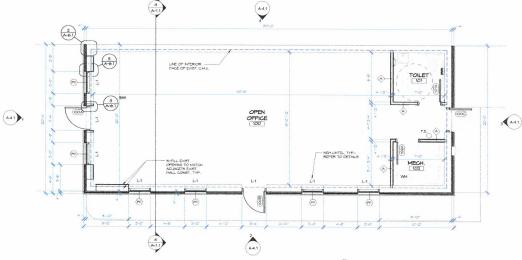
P.E.C. - NDICATES SOM-RECEIVED PIRE EXTINGUISHER CASINET

NDICATED FRE EXTINGUISHER - MIN. 108 "A-B-C" (IN-ESSO NOTED
 OTHERWEEL OR OTHER AS REOD, BY STATE AND/OR LOCAL COPE, SEE
 SPECIFICATIONS, (MOINT AT 4-0" AFI.F. MAX, TO TOP/EXTINGUISHER).

- NDICATES HALL TYPES, REFER TO INT. HALL TYPES POR INFORMATION.







FIRST FLOOR PLAN



A BUILDING RENOVATION FOR: 102 M. WISCONSIN AVE.

Gries
Architectural Group In

500 North Cramarca Neemb. Wiscoun 5 Phone: 920-722 2445 www.gdes.design

MISCONSIN

TO2 M. AUKAUNA,

date: 10/25/21 job: 21-122

job; 21-122 d. by: 9us, LCF rev.;

A-1

Larson Engineering, Inc. 2801 E. Enterprise Avenue, Suite 200 Appleton, WI 54913-7889 920.734.9867 Fax: 920.734.9880 www.larsonengr.com



## A Building Renovation For:

# 102 W. Wisconsin Ave.

Kaukauna, Wisconsin

## **Structural Calculations**

Book 1 of 1 Calculation Release #1

Prepared for Gries Architectural Group Inc. 500 North Commercial Street Neenah, Wisconsin



Larson Engineering, Inc. Appleton, Wisconsin Project Number 31210253.000



## ASCE 7 Hazards Report

Address:

Kaukauna Wisconsin, Standard:

ASCE/SEI 7-10

O EI

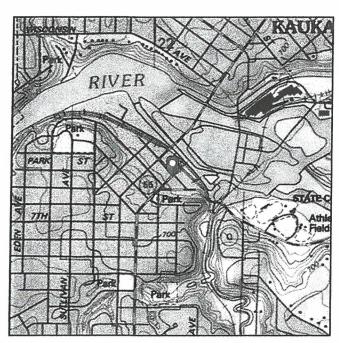
Elevation: 657.94 ft (NAVD 88)

Risk Category: II

Soil Class:

D - Stiff Soil

**Latitude:** 44.27702 **Longitude:** -88.27116





#### Wind

#### Results:

Wind Speed:	115 Vmph
10-year MRI	76 Vmph
25-year MRI	84 Vmph
50-year MRI	89 Vmph
100-year MRI	96 Vmph

Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

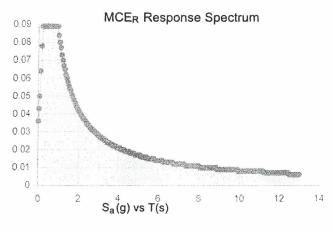
Site is not in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2.



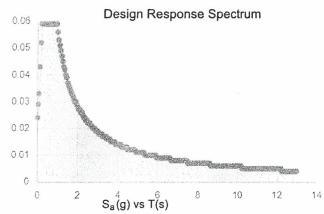
## **Seismic**

Site Soil Class: Results:	D - Stiff Soil			
S <sub>s</sub> :	0.056	S <sub>DS</sub> :	0.059	
$S_1$ :	0.035	S <sub>D1</sub> :	0.056	
Fa:	1.6	$T_L$ :	12	
F <sub>v</sub> :	2.4	PGA:	0.026	
S <sub>MS</sub> :	0.089	PGA M:	0.042	
S <sub>M1</sub> :	0.084	F <sub>PGA</sub> :	1.6	
		l <sub>e</sub> :	1	

#### Seismic Design Category



Α



Data Accessed: Date Source:

Sat Oct 02 2021

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.



#### Snow

Results:

Ground Snow Load, pg:

40 lb/ft<sup>2</sup>

Elevation:

657.9 ft

Data Source:

ASCE/SEI 7-10, Fig. 7-1.

Date Accessed:

Sat Oct 02 2021

Values provided are ground snow loads. In areas designated "case study required," extreme local variations in ground snow loads preclude mapping at this scale. Site-specific case studies are required to establish ground snow

loads at elevations not covered.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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JOB TITLE 102 W. Wisconsin Ave.

Kaukauna, Wisconsin JOB NO. 31210253.000 SHEET NO. CALCULATED BY BBE 10/20/21 DATE CHECKED BY DATE

www.struware.com

## **Code Search**

Code:

International Building Code 2015

Occupancy:

Occupancy Group =

**Business** 

#### Risk Category & Importance Factors:

Risk Category =

11

Wind factor =

1.00

use 0.60 NOTE: Output will be nominal wind pressures

Snow factor = 1.00 Seismic factor = 1.00

### Type of Construction:

Fire Rating:

Roof = See Arch.

Floor = See Arch.

#### **Building Geometry:**

Roof angle (θ)	2.00 / 12	9.5 deg
Building length (L)	50.0 ft	
Least width (B)	20.3 ft	
Mean Roof Ht (h)	11.7 ft	
Parapet ht above grd	13.3 ft	
Minimum parapet ht	0.0 ft	

#### Live Loads:

Roof

0 to 200 sf: 20 psf

200 to 600 sf: 24 - 0.02Area, but not less than 12 psf

over 600 sf: 12 psf

Floor:

100 psf

N/A

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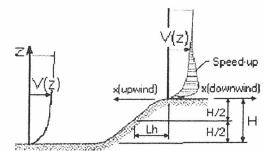
#### JOB TITLE 102 W. Wisconsin Ave.

	Kaukauna, Wiscons		
JOB NO.	31210253.000	SHEET NO.	
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#### Wind Loads: ASCE 7- 10

Ultimate Wind Speed	115 mph		
Nominal Wind Speed	89.1 mph		
Risk Category	II		
Exposure Category	В		
Enclosure Classif.	<b>Enclosed Building</b>		
Internal pressure	+/-0.18		
Directionality (Kd)	0.85		
Kh case 1	0.701		
Kh case 2	0.575		
Type of roof	Monoslope		

H<	60ft;exp	В
.:.	Kzt=1.0	

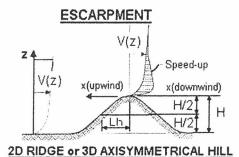


#### Topographic Factor (Kzt) Topography Flat Hill Height (H) 0.0 ft Half Hill Length (Lh) 0.0 ft Actual H/Lh 0.00 Use H/Lh 0.00 Modified Lh 0.0 ft From top of crest: x = 0.0 ft Bldg up/down wind? downwind

H/Lh= 0.00  $K_1 = 0.000$  x/Lh = 0.00  $K_2 = 0.000$   $K_3 = 1.000$ 

At Mean Roof Ht:

 $Kzt = (1+K_1K_2K_3)^2 = 1.00$ 



# Gust Effect Factor h = 11.7 ft B = 20.3 ft /z (0.6h) = 30.0 ft

Flexible structure if natural frequency < 1 Hz (T > 1 second). However, if building h/B < 4 then probably rigid structure (rule of thumb).  $h/B = 0.58 \qquad \qquad \text{Rigid structure}$ 

#### G = 0.85 Using rigid structure default

Rigi	d Structure	Flexible or Dyn	amically Se	nsitive St	tructure		
ē =	0.33	Natural Frequency $(\eta_1) =$	0.0 Hz				
<b>ℓ</b> =	320 ft	Damping ratio $(\beta)$ =	0				
z <sub>min</sub> =	30 ft	/b =	0.45				
c =	0.30	/a =	0.25				
$g_Q, g_V =$	3.4	Vz =	74.1				
$L_z =$	310.0 ft	N <sub>1</sub> =	0.00				
Q =	0.93	$R_n =$	0.000				
I <sub>z</sub> =	0.30	$R_h =$	28.282	η =	0.000	h =	11.7 ft
G =	0.88 use $G = 0.85$	R <sub>B</sub> =	28.282	η =	0.000		
		$R_L =$	28.282	η =	0.000		
		g <sub>R</sub> =	0.000				
		R =	0.000				
		G =	0.000				

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#### **Enclosure Classification**

Test for Enclosed Building: A building that does not qualify as open or partially enclosed.

Test for Open Building:

All walls are at least 80% open.

Ao ≥ 0.8Ag

Test for Partially Enclosed Building:

	Input			Test	
Ao	100000.0	sf	Ao ≥ 1.1Aoi	YES	1
Ag	0.0	sf	Ao > 4' or 0.01Ag	YES	
Aoi	0.0	sf	Aoi / Agi ≤ 0.20	NO	Building is NOT
Agi	0.0	sf			Partially Enclosed
_					

ERROR: Ag must be greater than Ao

Conditions to qualify as Partially Enclosed Building. Must satisfy all of the following:

Ao ≥ 1.1Aoi

Ao > smaller of 4' or 0.01 Ag

Aoi / Agi ≤ 0.20

Where:

Ao = the total area of openings in a wall that receives positive external pressure.

Ag = the gross area of that wall in which Ao is identified.

Aoi = the sum of the areas of openings in the building envelope (walls and roof) not including Ao.

Agi = the sum of the gross surface areas of the building envelope (walls and roof) not including Ag.

#### Reduction Factor for large volume partially enclosed buildings (Ri):

If the partially enclosed building contains a single room that is unpartitioned, the internal pressure coefficient may be multiplied by the reduction factor Ri.

Total area of all wall & roof openings (Aog):

0 sf

Unpartitioned internal volume (Vi):

0 cf

Ri = 1.00

#### Altitude adjustment to constant 0.00256 (caution - see code):

Altitude = 0 feet

0.0765 lbm/ft3 Average Air Density =

0.00256 Constant =

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#### Wind Loads - MWFRS h≤60' (Low-rise Buildings) Enclosed/partially enclosed only

Kz = Kh (case 1) = 0.70 Base pressure (qh) = 12.1 psf GCpi = +/-0.18 Edge Strip (a) = 3.0 ft End Zone (2a) = 6.0 ft Zone 2 length = 10.2 ft

#### **Wind Pressure Coefficients**

	C	ASE A			CASE B	
		$\theta = 9.5 \deg$				
Surface	GCpf	w/-GCpi	w/+GCpi	GCpf	w/-GCpi	w/+GCpi
1	0.44	0.62	0.26	-0.45	-0.27	-0.63
2 3	-0.69	-0.51	-0.87	-0.69	-0.51	-0.87
3	-0.40	-0.22	-0.58	-0.37	-0.19	-0.55
4	-0.33	-0.15	-0.51	-0.45	-0.27	-0.63
5				0.40	0.58	0.22
6				-0.29	-0.11	-0.47
1E	0.67	0.85	0.49	-0.48	-0.30	-0.66
2E	-1.07	-0.89	-1.25	-1.07	-0.89	-1.25
3E	-0.58	-0.40	-0.76	-0.53	-0.35	-0.71
4E	-0.49	-0.31	-0.67	-0.48	-0.30	-0.66
5E				0.61	0.79	0.43
6E				-0.43	-0.25	-0.61

#### Nominal Wind Surface Pressures (psf)

1	7.5	3.1	-3.3	-7.6
2	-6.2	-10.5	-6.2	-10.5
3	-2.7	-7.0	-2.3	-6.7
4	-1.8	-6.2	-3.3	-7.6
5			7.0	2.7
6			-1.3	2.7 -5.7
1E	10.2	5.9	-3.6	-8.0
2E	-10.8	-15.1	-10.8	-15.1
3E	-4.8	-9.2	-4.2	-8.6
3E 4E	-3.8	-8.1	-3.6	-8.0
5E 6E			9.6	-8.0 5.2
6E			-3.0	-7.4

#### **Parapet**

Windward parapet = 18.1 psf (GCpn = +1.5) Leeward parapet = -12.1 psf (GCpn = -1.0)

Windward roof overhangs =

8.5 psf (upward) add to windward roof pressure

#### Horizontal MWFRS Simple Diaphragm Pressures (psf)

#### Transverse direction (normal to L)

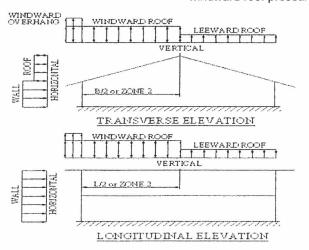
Interior Zone: Wall 9.3 psf
Roof -3.5 psf \*\*
End Zone: Wall 14.0 psf
Roof -6.0 psf \*\*

Longitudinal direction (parallel to L)

Interior Zone: Wall 8.3 psf End Zone: Wall 12.6 psf

\*\* NOTE: Total horiz force shall not be less than that determined by neglecting roof forces (except for MWFRS moment frames).

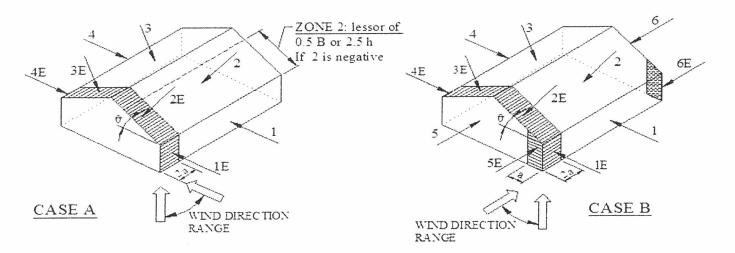
The code requires the MWFRS be designed for a min ultimate force of 16 psf multiplied by the wall area plus an 8 psf force applied to the vertical projection of the roof.



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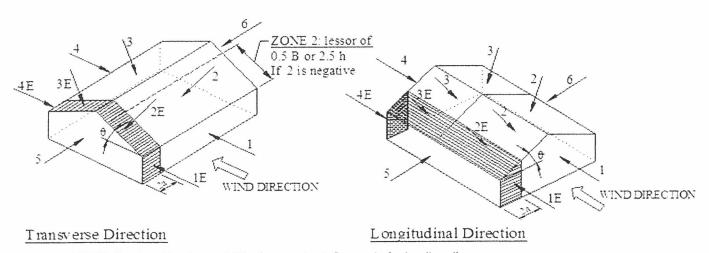
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NOTE: Torsional loads are 25% of zones 1 - 6. See code for loading diagram.

## **ASCE 7 -99 and ASCE 7-10 (& later)**



NOTE: Torsional loads are 25% of zones 1 - 4. See code for loading diagram.

## ASCE 7-02 and ASCE 7-05

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#### JOB TITLE 102 W. Wisconsin Ave.

Kaukauna, Wisconsin

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DATE

Nominal Wind Pressures

#### Wind Loads - Components & Cladding : h <= 60'

Kh (case 1) = 0.70 h = 11.7 ft Base pressure (qh) = 12.1 psf a = 3.0 ft Minimum parapet ht = 0.0 ft GCpi = +/-0.18

Roof Angle  $(\theta)$  = 9.5 deg Type of roof = Monoslope

Roof	GCp +/- GCpi		Surfac	Surface Pressure (psf)			User input	
Area	10 sf	50 sf	100 sf	10 sf	50 sf	100 sf	10 sf	100 sf
Negative Zone 1	-1.28	-1.28	-1.28	-15.5	-15.5	-15.5	-15.5	-15.5
Negative Zone 2	-1.48	-1.41	-1.38	-17.9	-17.1	-16.7	-17.9	-16.7
Negative Zone 3	-1.98	-1.56	-1.38	-24.0	-18.9	-16.7	-24.0	-16.7
Positive All Zones	0.48	0.41	0.38	10.0	10.0	10.0	10.0	10.0
				1				
Negative Zone 2'	-1.78	-1.71	-1.68	-21.5	-20.7	-20.3	-21.5	-20.3
Negative Zone 3'	-2.78	-2.08	-1.78	-33.6	-25.2	-21.5	-33.6	-21.5

**Parapet** 

qp = 12.1 psf

CASE A = pressure towards building (pos) CASE B = pressure away from bldg (neg)

Ī	Surfac	User input		
Solid Parapet Pressure	10 sf	100 sf	500 sf	10 sf
CASE A: Interior zone:	0.0	0.0	0.0	0.0
Corner zone:	0.0	0.0	0.0	0.0
CASE B : Interior zone:	0.0	0.0	0.0	0.0
Corner zone:	0.0	0.0	0.0	0.0

<u>Walls</u>	GCp +/- GCpi		Surfa	ce Pressure	User input			
Area	10 sf	100 sf	500 sf	10 sf	100 sf	500 sf	10 sf	59 sf
Negative Zone 4	-1.17	-1.01	-0.90	-14.2	-12.2	-10.9	-14.2	-12.7
Negative Zone 5	-1.44	-1.12	-0.90	-17.4	-13.6	-10.9	-17.4	-14.5
Positive Zone 4 & 5	1.08	0.92	0.81	13.1	11.1	10.0	13.1	11.6

Note: GCp reduced by 10% due to roof angle <= 10 deg.

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Kaukauna, Wisconsin

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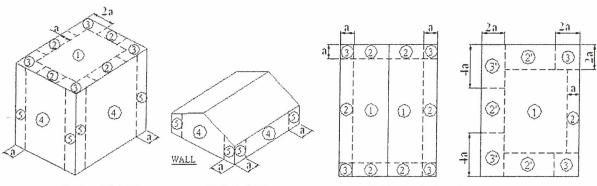
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DATE

Nominal Wind Pressures

#### **Location of C&C Wind Pressure Zones**



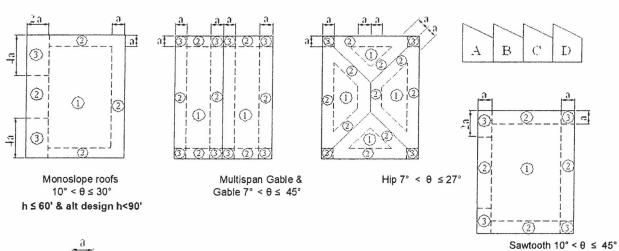
Roofs w/  $\theta \le 10^{\circ}$ and all walls h > 60'

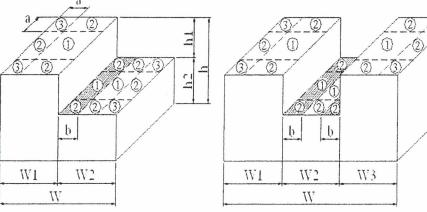
Walls h ≤ 60' & alt design h<90'

Gable, Sawtooth and Multispan Gable θ ≤ 7 degrees & Monoslope ≤ 3 degrees h ≤ 60' & alt design h<90'

Monoslope roofs  $3^{\circ} < \theta \le 10^{\circ}$   $h \le 60'$  & alt design h<90'

h ≤ 60' & alt design h<90'





Stepped roofs  $\theta \le 3^{\circ}$ h  $\le 60'$  & alt design h<90'

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#### JOB TITLE 102 W. Wisconsin Ave.

Nominal Snow Forces

### Snow Loads: ASCE 7-10

Roof slope = 9.5 deg
Horiz. eave to ridge dist (W) = 10.2 ft
Roof length parallel to ridge (L) = 50.0 ft

Hip and gable w/ trussed systems Type of Roof Ground Snow Load 40.0 psf Risk Category 11 Importance Factor | = 1.0 Thermal Factor Ct = 1 10 **Exposure Factor** Ce = 1.0 Pf = 0.7\*Ce\*Ct\*I\*Pg 30.8 psf Unobstructed Slippery Surface no Sloped-roof Factor Cs = 1.00 Ps = Balanced Snow Load 30.8 psf Rain on Snow Surcharge Angle 0.20 deg Code Maximum Rain Surcharge 5.0 psf Rain on Snow Surcharge 0.0 psf 30.8 psf Ps plus rain surcharge Minimum Snow Load Pm = 20.0 psf Uniform Roof Design Snow Load = 30.8 psf

NOTE: Alternate spans of continuous beams and other areas shall be loaded with half the design roof snow load so as to produce the greatest possible effect - see code.

#### Unbalanced Snow Loads - for Hip & Gable roofs only

Required if slope is between 7 on 12 = 30.26 deg

and 2.38 deg = 2.38 deg Unbalanced snow loads must be applied

Windward snow load = 9.2 psf = 0.3Ps

Leeward snow load from ridge to 12.04' = 45.2 psf = hdy / √S + Ps

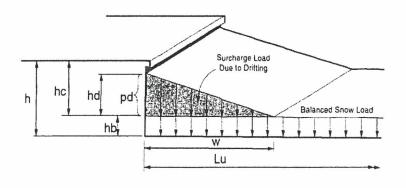
Leeward snow load from 12.04' to the eave = 30.8 psf = Ps

#### Windward Snow Drifts 1 - Against walls, parapets, etc more than 15' long

Upwind fetch 50.0 ft lu = Projection height h = 3.3 ft Snow density g = 19.2 pct Balanced snow height hb =1.60 ft hd =2.03 ft hc = 1.73 ft hc/hb > 0.2 = 1.1Therefore, design for drift Drift height (hc) 1.73 ft Drift width w = 9.59 ft Surcharge load: pd = y\*hd =33.1 psf Balanced Snow load: 30.8 psf 63.9 psf

#### Windward Snow Drifts 2 - Against walls, parapets, etc > 15'

Tu onon omis 2 - Agan	ist waiis, parapets	, 010 - 10
Upwind fetch	lu =	
Projection height	h =	
Snow density	g =	19.2 pcf
Balanced snow height	hb =	1.60 ft
	hd =	1.20 ft
	hc =	-1.60 ft
hc/hb < 0.2 = -1.0	Therefore, no	drift
Drift height (hc)	=	0.00 ft
Drift width	w =	-12.83 ft
Surcharge load:	pd = y*hd =	0.0 psf
Balanced Snow load:	=	30.8 psf
	- Marie Contraction	30.8 psf



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#### Snow Loads - from adjacent building or roof:

		7.	

20.0 psf

30.8 psf

Nominal Snow Forces

Roof slo Horiz. eave to ridge Roof length parallel to r Projection height (roof s Building separa	ope = dist (W) = idge (L) = step) h =	9.5 deg 20.3 ft 50.0 ft	2.00 / 12 = 20.3 ft 50.0 ft 20.0 ft	= 9.5 deg
Type of Roof		Monoslope	Monoslope	
Ground Snow Load	Pg =	40.0 psf	40.0 psf	
Risk Category	=	11	II	

0 ,					
Importance Factor	1	=	1.0	1.0	
Thermal Factor	Ct	=	1.10	1.10	
Exposure Factor	Се	=	1.0	1.0	
Pf = 0.7*Ce*Ct*I*Pg Unobstructed Slippery Surface		=	30.8 psf no	30.8 psf no	
Sloped-roof Factor	Cs	=	1.00	1.00	
Balanced Snow Load	Ps	=	30.8 psf	30.8 psf	
Rain on Snow Surcharge Angle Code Maximum Rain Surcharge			0.41 deg 5.0 psf	0.41 deg 5.0 psf	
Rain on Snow Surcharge		=	0.0 psf	0.0 psf	
Ps plus rain surcharge		=	30.8 psf	30.8 psf	

20.0 psf Minimum Snow Load Uniform Roof Design Snow Load = 30.8 psf NOTE: Alternate spans of continuous beams and other areas shall be loaded with half the design roof snow load so as to produce the greatest possible effect - see code.

#### Leeward Snow Drifts - from adjacent higher roof

**Building Official Minimum** 

Upper roof length	lu =	30.0 ft
Snow density	g =	19.2 pcf
Balanced snow height	hb =	1.60 ft
	hc =	18.40 ft
hc/hb > 0.2 = 11.5	Therefore, de	sign for drift
(6h-s)/6	==	19.67 ft
Drift height (hd)	=	2.05 ft
Drift width	w =	12.32 ft
Surcharge load:	pd = y*hd =	39.4 psf
Balanced Snow load:	=	30.8 psf
		70.2 nof

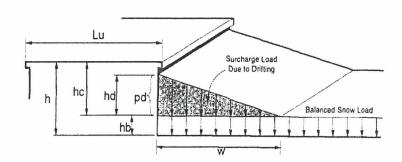


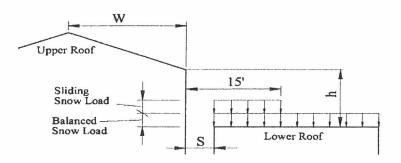
Lower roof length	lu =	50.0 ft
Adj structure factor	=	0.75
Drift height	hd =	1.53 ft
Drift width	w =	6.14 ft
Surcharge load:	pd = y*hd =	29.5 psf
Balanced Snow load:		30.8 psf
		60 3 nef

#### Sliding Snow - onto lower roof

Sliding snow = 0.4 Pf W =	0.0 plf
Distributed over 15 feet =	0.0 psf
hd + hb =	1.60 ft
hd + hb < =h therefore sliding snow =	0.0 psf
Balanced snow load =	30.8 psf
Uniform snow load within 15' of higher roof =	30.8 psf

Not required since upper roof slope is 2 in 12 or less and non-slippery roof





2801 East Enterprise Avenue, Suite 200 Appleton, WI 54913-8559 920-734-9867

100	***	-	100	141	Wisconsin Ave	
JUB	HILL	_=	102	VV.	VVISCORSIN AV	₽.

	Kaukauna, Wisconsin		
JOB NO.	31210253.000	SHEET NO.	
CALCULATED BY	BBE	DATE	10/20/21
CHECKED BY		DATE	

## **Roof Design Loads**

Items	Description	Multiple	psf (max)	psf (min)
Roofing	Single ply		2.0	1.0
Insulation	Urethane Foam w/ skin per i	x 6.0	1.6	0.1
Decking	Metal Roof deck, 1.5, 22 ga.		1.8	1.8
Decking	3/4" plywood/OSB		2.6	2.6
Ceiling	5/8" gypsum		2.8	2.5
Mech & Elec	Mech. & Elec.		1.0	0.0
Misc.	Collateral		3.0	0.0
		ead Load O	14.8	8.0
	Use this D	L instead	15.0 ◉	8.0
		Live Load	20.0	0.0
		Snow Load	30.8	0.0
	Ultimate Wind (zor	ne 2 - 100sf)	16.7	-27.8
ASD Loading		D+S	45.8	-
	D + 0.75(0	).6*W + S)	45.6	-
	0.6	*D + 0.6*W	-	-11.9
LRFD Loading	1.2D + 1.6	S + 0.5W	75.6	-
	1.2D + 1.	0W + 0.5S	50.1	-
	0.	9D + 1.0W		-20.6

**Roof Live Load Reduction** 

User Input:

Roof angle 2.00 / 12 9.5 deg

0 to 200 sf: 20.0 psf

200 to 600 sf: 24 - 0.02Area, but not less than 12 psf

over 600 sf: 12.0 psf

300 sf 18.0 psf 400 sf 16.0 psf 500 sf 14.0 psf 450 sf 15.0 psf

2801 East Enterprise Avenue, Suite 200 Appleton, WI 54913-8559 920-734-9867

#### JOB TITLE 102 W. Wisconsin Ave.

www.struware.com

#### **CODE SUMMARY**

Code:

International Building Code 2015

Live Loads:

Floor

100 psf

#### Dead Loads:

Roof 15.0 psf

#### Wind Design Data:

Ultimate Design Wind Speed 115 mph Nominal Design Wind Speed 89.08 mph Risk Category 11 Mean Roof Ht (h) 11.7 ft **Exposure Category** В **Enclosed Building** Enclosure Classif. Internal pressure Coef. +/-0.18 Directionality (Kd) 0.85

#### Roof Snow Loads:

Design Uniform Roof Snow load 30.8 psf Flat Roof Snow Load Pf = 30.8 psf Balanced Snow Load Ps = 30.8 psf Ground Snow Load Pg = 40.0 psf | = 1.00 Importance Factor Snow Exposure Factor Ce = 1.00 Thermal Factor Ct = 1.10 Sloped-roof Factor Cs = 1.00 Drift Surcharge load Pd = Width of Snow Drift

#### Earthquake Design Data:

Risk Category 11 Importance Factor | = 1.00 Mapped spectral response acceleration 5.60 %g Ss = S1 = 3.50 %g Site Class D Spectral Response Coef. Sds = 0.060 Sd1 =0.056 Seismic Design Category

Basic Structural System = Bearing Wall Systems

Seismic Resisting System = Ordinary plain masonry shear walls

Design Base Shear V = Minimum lateral force Fx = 0.01Wx at each floor level

Seismic Response Coef. Cs =

Response Modification Factor R = 1.5

Analysis Procedure = Index Force Analysis

2801 East Enterprise Avenue, Suite 200 Appleton, WI 54913-8559 920-734-9867 JOB TITLE 102 W. Wisconsin Ave.

www.struware.com

## **CODE SUMMARY- continued**

#### Component and cladding nominal wind pressures

Roof		Surface Pressure (psf)				
	Area	10 sf	50 sf	100 sf		
	Negative Zone 1	-15.5	-15.5	-15.5		
	Negative Zone 2	-17.9	-17.1	-16.7		
	Negative Zone 3	-24.0	-18.9	-16.7		
	Positive All Zones	10.0	10.0	10.0		
	Negative Zone 2'	-21.5	-20.7	-20.3		
	Negative Zone 3'	-33.6	-25.2	-21.5		

Parapet	Solid Parapet Pressure (psf)				
Area	10 sf	100 sf	500 sf		
CASE A: Interior zone	0.0	0.0	0.0		
Corner zone	0.0	0.0	0.0		
CASE B: Interior zone	0.0	0.0	0.0		
Corner zone	0.0	0.0	0.0		

Wall		Surface Pressure (psf)				
	Area	10 sf	100 sf	500 sf		
	Negative Zone 4	-14.2	-12.2	-10.9		
	Negative Zone 5	-17.4	-13.6	-10.9		
	Positive Zone 4 & 5	13.1	11.1	10.0		

#### Larson Engineering Inc.

2801 East Enterprise Avenue, Suite 200 Appleton, WI 54913-8559 920.734.9867 Fax: 920.482.5732 www.larsonengr.com

SUBJECT	SHEET NO.	OF
	PROJECT NO. 3	1210253
	BY BE	DATE 10-21-2



EXISTING 8" WASONRY WALLS

WIND C & C = -14,5 PSF MAX.

AT SIDES OF 3'-4" MAX. M.O.

WIND = (3.33' + 0.65')(-14.5 PSF)

= 34 PSF

8" MASONRY WAR EINFORCEO WALL

ordorio ok

Brian Endter LARSON ENGINEERING, INC.

102 W. Wisconsin Ave Kaukauna Existing 8" Masonry Wall - Unreinforced Wall - OK Job # 31210253.0...

Bearing Wall Design

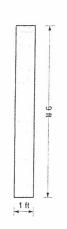
• TMS 402-13 (MSJC-13)

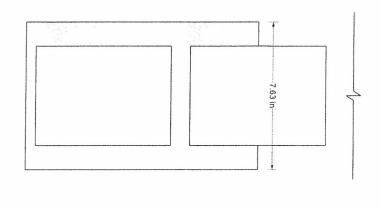
• SD (Strength Design)

Unreinforced

• Concrete Masonry (CMU)

#### Design Detail





Interaction Diagram

Check	sammary				
 Ratio	Check	Provided	Required	Combination	
✓ 0.900	th Checks Flexural Tension	50.4 psi	45,35 psi	0.9D + 1.0W	
✓ 0.033	Buckling	16.28 k	0.53 k	1.4D	
√ 0.049	Combined Stress	1200 psi	58.58 psi	1.2D + 1.0W	
✓ 0.114	Shear	1.34 k	0,15 k	1.2D + 1.0W	

60000 psi No Normal weight

No Yes No

No No

Load Combinations Use basic criteria from common project...No
Building Code TMS 402-13 (MSJC-13...
Strength Combinations ASCE 7-10 (Strength)
ASCE 7-10 (ASD) ASCE 7-10 (Strength) 1.4D 1.2D + 0.5W 1.2D + 1.0W 1.2D 0.9D + 1.0W Apply Sds Factor to Seismic Combinati... No Seismic R Value 1.50 fm 1500 psi

No interaction diagram - wall is unreinforced.

#### Loads Summary

fy Specify Wall Weight Manually Block Weight

Design As Clay Masonry Include Wall Self-Weight Neglect Lateral Load on Parapet

Include Wall Wt In Virtual Eccentricity
Always use I-cracked

Check Summan

Criteria

Load Set	Source	<b>Axial Uniform</b>	Axial Pt Load	Pt Ld Eff Width	Eccentricity	Lateral Press	Top Lateral Pr	Parapet Press	Lateral Unifor	Lat Unif Ld He	Moment
3-10-10-10-10-10-10-10-10-10-10-10-10-10-	Wind	0 lb/ft	0 k	1 ft	0 in	34 psf	34 psf	34 psf	0 lb/ft	1 ft	0 in·lb/ft

#### Larson Engineering Inc.

2801 East Enterprise Avenue, Suite 200 Appleton, WI 54913-8559 920.734.9867 Fax: 920.482.5732 www.larsonengr.com

SUBJECT	SHEET NO.	OF
	PROJECT NO.	31210253
	BY BE	DATE 10-20-



-> LINTELS AT OPENINGS IN EXISTING 8" MASUREY WALL

RUNNING BUND EMM

TICHH = 113'-4"

TIUPENINGS = 8'-0"

WOL= 5.33 | 55 PSF | + 20 | (15 PSF | = 450 PCF WSL= 20 | 30.8 PSF | + 2 CI2 | (40 PSF | (4) = 360 PCF

3-4, WIO WYX MIDLH

NSE HSS8X4X1/4"
W 5/16"X > 2" BUTTON PLATE

DIT=0.00/, 0K 0F 05 - 1.) K-EL < WULL-30.2 K-EL

RTL=1,660 + FP= 1,660 = 69 PSI << 375 PS: 4-(6) MSE 6" BEARING OK

## **Gravity Beam Design**



RAM SBeam v5.01 102 W. Wisconsin Ave. Kaukauna

L-1 Lintel

10/20/21 16:04:38

DIELE CODE INCO DO OF THE	STEEL	CODE:	<b>AISC</b>	360-05	ASD
---------------------------	-------	-------	-------------	--------	-----

SPAN INFORMATION (ft): I-End (0.00,0.00) J-End (4.00,0.00)

Beam Size (User Selected)

= HSS8X4X1/4

Fy = 46.0 ksi

Total Beam Length (ft)

= 4.00

Mp (kip-ft)

= 50.98

Top flange not braced by decking.

### LINE LOADS (k/ft):

Load	Dist (ft)	DL	LL
1	0.000	0.018	0.000
	4.000	0.018	0.000
2	0.000	0.450	0.360
	4.000	0.450	0.360

### SHEAR: Max Va (DL+LL) = 1.66 kips Vn/1.67 = 61.61 kips

#### **MOMENTS:**

Span	Cond	LoadCombo	Ma	<u>@</u>	Lb	Cb	Ω	$Mn/\Omega$
			kip-ft	ft	ft			kip-ft
Center	Max +	DL+LL	1.7	2.0	4.0	1.14	1.67	30.53
Controlling		DL+LL	1.7	2.0	4.0	1.14	1.67	30.53

### **REACTIONS** (kips):

	Left	Right
DL reaction	0.94	0.94
Max +LL reaction	0.72	0.72
Max +total reaction	1.66	1.66

#### **DEFLECTIONS:**

Dead load (in)	at	2.00  ft =	-0.002	L/D =	21954
Live load (in)	at	2.00  ft =	-0.002	L/D =	28530
Net Total load (in)	at	2.00  ft =	-0.004	L/D =	12407

Larson Engineering Inc.

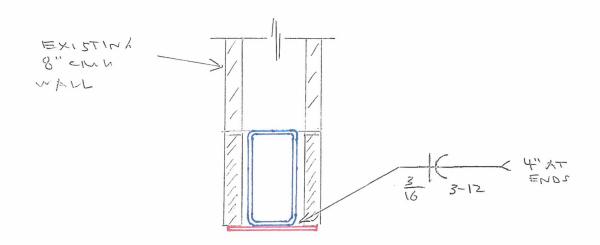
2801 East Enterprise Avenue, Suite 200 Appleton, WI 54913-8559 920.734.9867 Fax: 920.482.5732 www.larsonengr.com

SUBJECT 102 W. WISCONSIN AVE PROJECTNO. 31210253 KANKANNA WI BY BE DATE 10-20-7

SHEET NO.

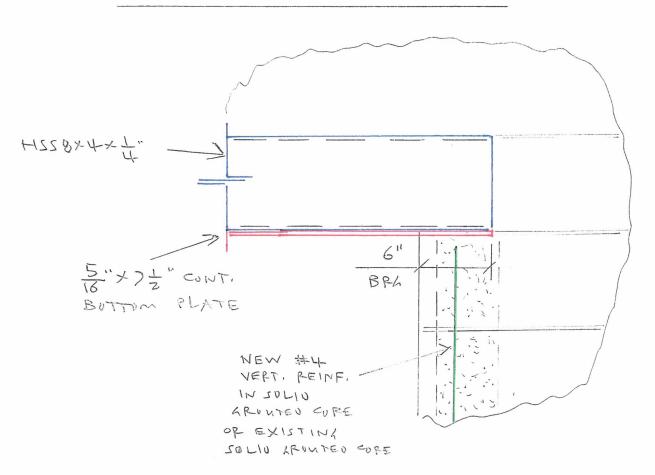


.arson



SECTION VIEW AT LINTEL L-1

## SIDE VIEW AT LINTEL L-I BEARING



#### Larson Engineering Inc.

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SUBJECT	SHEET NO.	OF
	PROJECT NO.	31210253
	BY BE	DATE 10-21-7



-> STEEL LEDLER ANGLE AT THIN-STONE VENEER

MAZONAY AOHESIVE ANCHORING

MAZONAY AOHESIVE ANCHORNA

SYSTEM)

SHOLDERS OF

#### **Applications**

- Retrofits of historic masonry buildings, including seismic retrofit of multi-wythe walls
- Sign, fence or awning attachment to masonry wall or façade
- Façade tie-backs to masonry structural wall
- Scaffolding attachment to masonry structure
- Pipe, cable tray, fixture fastening to masonry base material

#### **Outperform and Outlast**

- Cures in ~ 30 minutes at 70° F providing quick installation times to finish the job earlier
- Achieve various embedment depths by combining mesh sleeves to custom lengths

## Flexible, strong and reliable.

## HIT-HY 70 Masonry Adhesive Anchoring System

Life just got easier with one adhesive anchoring product to solve all your masonry needs. The new Hilti HIT-HY 70 Masonry Adhesive Anchoring System works in a variety of masonry base materials: grout-filled CMU, hollow CMU, solid brick, hollow brick, multi-wythe solid brick walls. The improved formula and innovative composite sleeve design provides strong, reliable and easy to install fastenings.





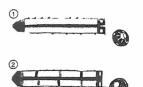
Technical Data	HIT-HY 70				
Product	Hybrid Urethane Methacrylate				
Base material temperature (grout-filled and hollow CMU)	23° F to 104° F (-5° C to 40° C)				
Base material temperature (hollow brick, solid brick, and multi-wythe solid brick)	41° F to 104° F (5° C to 40° C)				
Diameter range	1/4" to 3/4"				

Listings/Approvals • ICC-ES (International Code Council) - ESR for hollow masonry, grouted masonry and hollow brick (pending) - ESR for Un-Reinforced Masonry (URM) (pending)

Package volume • Volume of HIT-HY 70 11.1 fl oz/330 ml foil pack is 20.1 in³
• Volume of HIT-HY 70 16.9 fl oz/500 ml foil pack is 30.5 in³

#### Composite Mesh Sleeves for Hollow Masonry and Brick Material

Description		For use with:	Qty	Actual Dia. (in)	Length (in)	Bit Dia.	Item No.
Mesh sleeve HIT-SC 12x50	1	1/4" dia. rods	20	0.47	1.97	1/2"	00375979
Mesh sleeve HIT-SC 12x85	1	1/4" dia. rods	20	0.47	3.35	1/2"	00375980
Mesh sleeve HIT-SC 16x50	1	5/16", 3/8" dia. rods and 5/16" HIT-IC rods	20	0.63	1.97	5/8"	00375981
Mesh sleeve HIT-SC 16x85	1	5/16", 3/8" dia. rods and 5/16" HIT-IC rods	20	0.63	3.35	5/8"	00375982
Mesh sleeve HIT-SC 18x50	1	1/2" dia. rods	20	0.71	1.97	11/16"	00360485
Mesh sleeve HIT-SC 18x85	1	1/2" dia. rods	20	0.71	3.35	11/16"	00360486
Mesh sleeve HIT-SC 22x50	1	5/8" dia. rods, 3/8" and 1/2" HIT-IC rods	20	0.87	1.97	7/8"	00273662
Mesh sleeve HIT-SC 22x85	1	5/8" dia. rods, 3/8" and 1/2" HIT-IC rods	10	0.87	3.35	7/8"	00284511
Mesh sleeve HIT-SC 26x125	2	3/4" dia. rods	20	1.02	4.92	1"	00360487
Mesh sleeve HIT-SC 26x200	2	3/4" dia. rods	20	1.02	7.87	1"	00360488



#### Internally Threaded Inserts for Hollow Masonry, Grouted Masonry and Brick Material

Description		For use with:	Qty	Bit Dia. (in)	Threads per inch	Item No.
Internally Threaded HIT-IC 5/16" x 2"		In hollow material use with HIT-SC 16 x 50	10	5/8"	18	00047945
Internally Threaded HIT-IC 5/16" x 3-3/16"	3	In hollow material use with HIT-SC 16 x 85	10	5/8"	18	00047941
Internally Threaded HIT-IC 3/8" x 2"		In hollow material use with HIT-SC 22 x 50	10	7/8"	16	00047946
Internally Threaded HIT-IC 3/8" x 3-3/16"	3	In hollow material use with HIT-SC 22 x 85	10	7/8"	16	00047942
Internally Threaded HIT-IC 1/2" x 2"		In hollow material use with HIT-SC 22 x 50	10	7/8"	13	00047947
Internally Threaded HIT-IC 1/2" 3-3/16"	3	In hollow material use with HIT-SC 22 x 85	10	7/8"	13	00047943





#### 1.3 Technical Data

#### Allowable Tension and Shear Loads for Threaded Rods in the Face of Hollow Concrete Masonry Units<sup>1, 3, 7, 9</sup>



77										
	Anchor	Anchor Tension Mini		Minimum Edge	Shear Load	Edge Distance <sup>6</sup>				
	Diameter, in. (mm)	in. (mm) <sup>2</sup>	Load, Distance, $c_{min}$ , Ib $(kN)^{4,5}$ in. $(mm)^6$	Distance, c <sub>min</sub> , in. (mm) <sup>6</sup>			@ c <sub>cr</sub> , lb (kN) <sup>4, 5, 8</sup>	Critical, c <sub>cr</sub> , in. (mm)	Minimum, c <sub>min</sub> , in. (mm)	Load Reduction Factor @ c <sub>min</sub>
	1/4 (6.4)		215 (1.0)	215 (1.0)	355 (1.6)	4 (101.6)		1.00		
	5/16 (7.9)	0 (50.0)	390 (1.7)	4 (404.0)	630 (2.8)	12 (304.8)	4 (101.6)	0.73		
I	3/8 (9.5)	2 (50.8)	2 (50.8) 4 (101.6)		640 (2.8)	12 (304.8)	4 (101.6)	0.73		
	1/2 (12.7)		390 (1.7)		670 (3.0)	12 (304.8)		0.73		

#### Allowable Tension and Shear Loads for HIT-IC Inserts in the Face of Hollow Concrete Masonry Units<sup>1, 3, 7, 9</sup>



		Tension	Minimum Edge	Shear	Edge Distance <sup>6</sup>			
Anchor Diameter, in. (mm)	Embedment, in. (mm) <sup>2</sup>	Load, lb (kN) <sup>4, 5</sup>	Distance, $c_{min}$ , in. $(mm)^6$	Load @ c <sub>cr</sub> , Ib (kN) <sup>4, 5, 8</sup>	Critical, c <sub>cr</sub> , in. (mm)	Minimum, $c_{\scriptscriptstyle min}$ , in. (mm)	Load Reduction Factor @ $c_{\scriptscriptstyle min}$	
#14 Screw (6.4)		190 (0.8)		235 (1.0)	4 (101.6)		1.00	
5/16 (7.9)	0 (50.0)	415 (1.8)	4 (404.0)	600 (2.7)	12 (304.8)	4 (101.6)	0.80	
3/8 (9.5)	2 (50.8)	480 (2.1)	4 (101.6)	620 (2.8)	12 (304.8)	4 (101.6)	0.78	
1/2 (12.7)		495 (2.2)		620 (2.8)	12 (304.8)		0.75	

<sup>1</sup> All values are for anchors installed in hollow concrete masonry with minimum masonry prism strength of 1500 psi. Concrete masonry units shall be light-, medium-, normal-weight conforming to ASTM



C 90. Allowable loads are computed using a safety factor of 5.

Tabulated embedment depth is the length of the plastic HIT-SC screens.

Anchors shall be installed in the face of the hollow CMU masonry wall. A maximum of two anchors for each cell of the hollow CMU block is allowed.

<sup>4</sup> Tabulated values are for one anchor installed in the center of the cell of the hollow CMU. Installation in other locations of the hollow CMU (mortar joints, flange or cell web) is not permitted.

5 Two anchors installed in the same cell or adjacent cells may be spaced as close as 4 inches apart without any load reduction.

6 The critical edge distance, c<sub>o</sub>, is the edge distance where full load values in the Table may be used. The minimum edge distance, c<sub>o</sub>, is the minimum edge distance for which values are available and installation is recommended. Edge distance is measured from the center of the anchor to the closest edge.

<sup>7</sup> Anchors are not recognized for resisting earthquake forces. For short-term loading due to wind forces, the allowable loads shall not be increased. 8 Allowable shear loads must be the lesser of the adjusted masonry or bond tabulated values and the steel values given in Section 1.3.

<sup>9</sup> Tabulated allowable loads shall be adjusted for increased base material temperatures in accordance with Figure 1, as applicable.

# **COMcheck Software Version 4.1.5.1 Envelope Compliance Certificate**

#### **Project Information**

Energy Code:

2015 IECC

Project Title:

102 W. Wisconsin Ave.

Location:

Kaukauna, Wisconsin

Climate Zone:

6a

Project Type:

Alteration

Vertical Glazing / Wall Area:

11%

Construction Site:

102 W. Wisconsin Ave. Kaukauna, WI 54130

Owner/Agent:

John Lorbiecki

Lorbiecki Homes LLC 2303 Olde Country Cir. Kaukauna, WI 54130

920-707-0146

lorbieckihomesllc@gmail.com

Designer/Contractor:

**Brannin Gries** 

Gries Archictectural Group Inc 500 N. Commercial Street

Report date: 10/15/21

Neenah, WI 54956 920-722-2445 bgries@gries.design

**Building Area** 

Floor Area

1-Office: Nonresidential

1000

#### **Envelope Assemblies**

	R-V	alue	Prop	osed	Max. Allowed	
Post-Alteration Assembly	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
NORTH  Exterior Wall 4: Other Mass Wall, Heat capacity 1.0, [Bldg. Use 1 - Office], Exemption: Framing cavity not exposed. (a)						
EAST Exterior Wall 3: Other Mass Wall, Heat capacity 1.0, [Bldg. Use 1 - Office], Exemption: Framing cavity not exposed. (a)						
Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Office]			0.350		0.370	
SOUTH  Exterior Wall 1: Other Mass Wall, Heat capacity 1.0, [Bldg. Use 1 - Office], Exemption: Framing cavity not exposed. (a)						
Window 1: Metal Frame with Thermal Break:Fixed, Other, Fixed, Fixed, [Bldg. Use 1 - Office]			0.260	0.400	0.360	0.400
Window 2: Metal Frame with Thermal Break: Fixed, Other, Fixed, Fixed, [Bldg. Use 1 - Office]			0.260	0.400	0.360	0.400
Window 3: Metal Frame with Thermal Break:Fixed, Other, Fixed, Fixed, [Bldg. Use 1 - Office]			0.260	0.400	0.360	0.400
Window 4: Metal Frame with Thermal Break:Fixed, Other, Fixed, Fixed, [Bldg. Use 1 - Office]			0.260	0.400	0.360	0.400
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Entrance Door, Entrance Door, [Bldg. Use 1 - Office]		,	0.470	0.400	0.770	0.400
WEST Exterior Wall 2: Other Mass Wall, Heat capacity 1.0, [Bldg. Use 1 - Office], Exemption: Framing cavity not exposed. (a)						
Window 5: Metal Frame with Thermal Break:Fixed, Other, Fixed, Fixed, [Bldg. Use 1 - Office]			0.260	0.400	0.360	0.400

Project Title:

102 W. Wisconsin Ave.

Data filename: Z:\2021\21-122 102 West Wisconsin Ave-Kaukauna- Lorbiecki Homes\21-122\_Agency Review\2 Page

122\_102 W Wisconsin Ave-Kaukauna WI.cck

B 1 4 11 - 11 - 4 11 -	R-V	alue	Prop	osed	Max. Allowed	
Post-Alteration Assembly	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
Window 6: Metal Frame with Thermal Break:Fixed, Other, Fixed, Fixed, [Bldg. Use 1 - Office]			0.260	0.400	0.360	0.400
Door 2: Glass (> 50% glazing):Metal Frame, Entrance Door, Entrance Door, Entrance Door, [Bldg. Use 1 - Office]			0.470	0.400	0.770	0.400

<sup>(</sup>a) 'Other' components require supporting documentation for proposed U-factors.

#### Envelope PASSES

Name - Title

#### **Envelope Compliance Statement**

Compliance Statement: The proposed envelope alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brannin Gries- Architect

Signature

10-25-2021

Date

<sup>(</sup>b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

# COMcheck Software Version 4.1.5.1 **Inspection Checklist**

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1] <sup>1</sup>	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR10] <sup>1</sup>	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR11] <sup>1</sup>	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

**Additional Comments/Assumptions:** 

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2.1 [FO6] <sup>1</sup>	damage, sunlight, moisture, wind,	☐Complies ☐Does Not	
	landscaping and equipment maintenance activities.	□Not Observable □Not Applicable	

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L	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12] <sup>2</sup>	Fenestration products rated in accordance with NFRC.	☐Complies ☐Does Not	
		□Not Observable □Not Applicable	
C303.1.3 [FR13] <sup>1</sup>	Fenestration products are certified as to performance labels or certificates	☐Complies ☐Does Not	
	provided.	□Not Observable □Not Applicable	
C402.4.3 [FR10] <sup>1</sup>	Vertical fenestration SHGC value.	☐Complies ☐Does Not	See the Envelope Assemblies table for values.
		□Not Observable □Not Applicable	
C402.4.3.	Vertical fenestration U-Factor.	☐Complies ☐Does Not	See the Envelope Assemblies table for values.
4 [FR8] <sup>1</sup>		□Not Observable □Not Applicable	
C402.4.4 [FR14] <sup>2</sup>	U-factor of opaque doors associated with the building thermal envelope	☐Complies ☐Does Not	See the Envelope Assemblies table for values.
	meets requirements.	□Not Observable □Not Applicable	
C402.5.1 [FR16] <sup>1</sup>	The building envelope contains a continuous air barrier that is sealed in	☐Complies ☐Does Not	
	an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	□Not Observable □Not Applicable	
C402.5.4	02.5.2, Factory-built fenestration and doors 02.5.4 are labeled as meeting air leakage	□Complies □Does Not	
[FR18] <sup>3</sup> requirements.		□Not Observable □Not Applicable	
	Vestibules are installed on all building entrances. Doors have self-closing	□Complies □Does Not	
	devices.	☐Not Observable ☐Not Applicable	

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1 High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.5.5, C403.2.4. 3 [ME3] <sup>3</sup>	Stair and elevator shaft vents have motorized dampers that automatically close.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.		

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1 High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 Building envelope insulation is labeled [IN10] <sup>2</sup> with R-value or insulation certificate		□Complies □Does Not	
	providing R-value and other relevant data.	□Not Observable □Not Applicable	
C303.2 [IN7] <sup>1</sup>	Above-grade wall insulation installed per manufacturer's instructions.	□Complies □Does Not	
		□Not Observable □Not Applicable	
C303.2.1 Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.		□Complies □Does Not	
		□Not Observable □Not Applicable	
[IN6] <sup>1</sup> type ins	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not	See the Envelope Assemblies table for values.
		☐Not Observable ☐Not Applicable	
C402.2.6 [IN18] <sup>3</sup>	Radiant panels and associated components, designed for heat	□Complies □Does Not	
	transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.		
1	C402.5.1. All sources of air leakage in the building thermal envelope are sealed,		
[IN1] <sup>1</sup>	caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	□Not Observable □Not Applicable	

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1 High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.3 [FI51] <sup>3</sup>	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms are sealed and insulated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.6 [FI37] <sup>1</sup>	Weatherseals installed on all loading dock cargo doors.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.8 [FI26] <sup>3</sup>	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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