

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horz	Wind Suct Horz	Wind Long1 Vert	Wind Long2 Vert
1	C	0.8	0.4	2.8	5.8	-2.3	-1.3	-2.2	-1.3	-1.4	1.6	-1.8	-1.0
1	B	2.3	1.4	8.7	18.3	-7.2	-4.1	-7.3	-4.1	-3.8	4.1	-5.5	-3.2
1	A	0.8	0.4	2.8	5.9	-2.3	-1.4	-2.3	-1.4	-1.8	2.0	-1.8	-1.1

Frm Line	Col Line	Seis Left Vert	Seis Right Vert	E1PAT_SL_1- Horz	E1PAT_SL_1- Vert	E1PAT_SL_2- Horz	E1PAT_SL_2- Vert	-LWIND1_L- Horz	-LWIND1_L- Vert	-LWIND1_R- Horz	-LWIND1_R- Vert	-LWIND2_L- Horz	-LWIND2_L- Vert
1	C	0.0	0.0	0.0	3.4	0.0	-0.5	0.0	-0.6	0.0	0.0	0.0	-0.6
1	B	0.0	0.0	0.0	4.6	0.0	4.6	0.0	-0.2	0.0	-0.2	0.0	-0.2
1	A	0.0	0.0	0.0	-0.5	0.0	3.4	0.0	0.0	0.0	-0.6	0.0	0.0

Frm Line	Col Line	-LWIND2_R- Horz	-LWIND2_R- Vert
1	C	0.0	0.0
1	B	0.0	-0.2
1	A	0.0	-0.6

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Horz	Wind Right1 Horz	Wind Left2 Horz	Wind Right2 Horz	Wind Press Horz				
8	A	0.9	0.4	2.8	5.9	2.2	-3.1	0.0	-1.7	2.2	-3.1	0.0	-1.2	-1.8
8	B	2.1	1.3	8.7	18.3	0.0	-2.4	0.8	-7.8	0.0	-2.4	1.6	-8.4	-3.8
8	C	0.8	0.4	2.8	5.8	0.0	-1.4	0.0	-2.3	0.0	-1.4	0.0	-2.2	-1.4

Frm Line	Col Line	Wind Suct Horz	Wind Long1 Horz	Wind Long2 Horz	Seis Left Horz	Seis Right Horz	E2PAT_SL_1- Horz	E2PAT_SL_2- Horz	E2PAT_SL_1- Vert	E2PAT_SL_2- Vert				
8	A	2.0	0.8	-2.4	0.4	-1.4	1.5	-1.2	0.0	1.0	0.0	3.4	0.0	-0.4
8	B	4.1	0.0	-5.0	0.0	-2.9	0.0	1.2	1.5	-1.1	0.0	4.5	0.0	4.6
8	C	1.6	0.0	-1.8	0.0	-1.0	0.0	0.0	0.0	-0.5	0.0	0.0	3.4	

Frm Line	Col Line	-LWIND1_L- Horz	-LWIND1_L- Vert	-LWIND1_R- Horz	-LWIND1_R- Vert	-LWIND2_L- Horz	-LWIND2_L- Vert	-LWIND2_R- Horz	-LWIND2_R- Vert
8	A	0.1	-0.7	0.1	0.0	0.1	-0.7	0.1	0.0
8	B	0.0	-0.2	0.0	-0.2	0.0	-0.2	0.0	-0.2
8	C	0.0	0.0	0.0	-0.6	0.0	0.0	0.0	-0.6

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type
0 24	Endwall	3/4"	
0 48	Frame	3/4"	

BUILDING BRACING REACTIONS

Wall Loc	Line	Col Line	Reactions in plane of wall ± Reactions (k)				Panel Shear (lb/ft)	Note
			Wind Horz	Seismic Horz	Wind Vert	Seismic Vert		
L_EW	1						(i)	
F_SW	A	2,3	3.4	*	9.5	*		
R_EW	8	A,B	Bracing, see EW reactions					
B_SW	C	3,2	3.1	*	9.3	*		

(i) Bracing in roof to rigid frame
 *See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.


ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc Bolt Qty	Anc Bolt Dia	Base Plate Width	Base Plate Length	Base Plate Thick	Grout (in)
1	C	4	0.750	6.000	7.875	0.375	0.0
1	B	4	0.750	8.000	7.875	0.375	0.0
1	A	4	0.750	6.000	7.875	0.375	0.0
8	A	4	0.750	6.000	9.875	0.375	0.0
8	B	4	0.750	6.000	9.875	0.375	0.0
8	C	4	0.750	6.000	9.875	0.375	0.0

DESIGN INFORMATION

- All loading conditions are examined and only the maximum / minimum H or V and the corresponding H or V are reported.
- Positive reactions are shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Building reactions are based on the following building data:

DESIGN CRITERIA	SEISMIC CRITERIA	DEFLECTION LIMITS
Width (ft) = 55	Seismic Importance = 1.00	ENDWALL COLUMN L/120
Length (ft) = 180	Occupancy Category = II - Normal	ENDWALL RAFTER (LIVE) L/240
Eave Height (ft) = 17		ENDWALL RAFTER (WIND) L/240
Roof Slope (rise/12) = 1:0.12	Mapped Spectral Response Accelerations Ss = 0.3100	WALL GIRTS L/90
Building Code = IBC 09	S1 = 0.0800	PURLIN (LIVE) L/240
Local Code (State/Prov) = IBC 09	---Spectral Response Coefficients---	PURLIN (WIND) L/240
Dead Load (psf) = 2.660	Sds = 0.3207	WALL PANEL L/90
Collateral Load (psf) = 3	Sd1 = 0.1280	ROOF PANEL (LIVE) L/120
Roof Live Load (psf) = 20.00	Site Class = D	ROOF PANEL (WIND) L/120
Frame Live Load (psf) = 20	Seismic Design Category = B	Main Frame (HORIZ) L/60
	---Base Shear---	Main Frame (VERT) L/240
Snow:	Expanded Formula = 0.667*le*Fa*Ss*W/R	WIND BENT L/60
Ground Snow Load (psf) = 60.00	Longitudinal Base Shear = 18.83	Main Frame (CRANE) L/100
Snow Importance = 1.00	Transverse Base Shear = 19.04	Main Frame (SEISMIC) L/50
Snow Thermal Coefficient = 1.00	---Seismic Response Coefficients---	WIND BENT (SEISMIC) L/50
Snow Exposure Factor = 1.00	Frame = 0.107	PARTITION COLUMN L/120
Slippery Roof = N	FSW = 0.107	PARTITION GIRT L/120
Roof Snow Load (psf) = 42	BSW = 0.107	PARTITION PANEL L/120
Wind:	---Response Modification Factors---	
Basic Wind Speed (mph) = 98 mph	Frame = 3	
Occupancy Category = II - Normal	FSW = 3	
Importance - Wind = 1.00	BSW = 3	
Wind Exposure = B		
Enclosure Classification = C		
---Internal Pressure Coefficients---		
Pressure = 0.18		
Suction = -0.18		
---Components & Cladding---		
Design Pressure:		
Pressure (psf) = 15.80		
Suction (psf) = -21.03		
Equivant Lateral Brace Force Procedure.		
Steel systems not specifically detailed for seismic resistance.		



404 Sarah Furnace Road - Imier, PA 16655 (814) 276-9611
ALLAGASH BREWING WAREHOUSE
 55'-0" x 180'-0" x 17'-0" x 21'-7"
 DATE: 7/30/15 REVISION: 01
 ENG: AJR DWN: BJC APPD: AJR

F.O. 19026

REV.	DATE	DESCRIPTION
01	8-12-15	SEE CO-01

ALLAGASH BREWING WAREHOUSE

DRAWING STATUS

FOR APPROVAL: THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR PERMIT: THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR CONSTRUCTION: THESE DRAWINGS, BEING FOR CONSTRUCTION, ARE BY DEFINITION FINAL DRAWINGS.

