DISCLAIMER AND LIMITATION OF LIABILITY

The FastBloc Building System (FastBloc) is stay-in-place, non-structural formwork for reinforced concrete, post and beam wall construction. The following information provided herein shall be used solely as a reference guide for design and/ or estimating the construction of a wall using FastBloc.

The tables, notes and drawings contained herein are to illustrate the required reinforced concrete column spacing to comply with various code requirements given a specific wall design. Any modifications to the wall design must be evaluated by a structural engineer of record.

FastBloc Building Systems does not provide project specific engineering. It is the sole responsibility of the user to comply with all applicable local regulations and building code requirements concerning the use of these products.

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FastBloc™ BUILDING SYSTEMS

FastBloc Wind Tables- Maximum Column Spacing
8 Inch Wall, 8 Feet High [a,b,c,d,g,h,i]

	8 Inch Wall, 8 Feet High											
Column Rebar	1- #4 [e,f]											
Jamb Rebar	1- #4 [e,f]											
	Typical[j]			3' Opening[j]			4' Opening[j]			5' Opening[j]		
Wind Exposure	B	C	D	B	C	D	B	C	D	B	C	D
Wind Speed	Maximum Column Spacing											
110	24	24	24	24	24	24	24	24	24	24	24	24
120	24	24	24	24	24	24	24	24	24	24	24	24
130	24	24	24	24	24	24	24	24	24	24	24	8
140	24	24	24	24	24	24	24	24	8	24	16	DR
150	24	24	24	24	24	16	24	16	DR	16	DR	DR
160	24	24	24	24	16	8	24	8	DR	8	DR	DR
170	24	24	16	24	8	DR	8	DR	DR	DR	DR	DR
180	24	16	16	16	8	DR	DR	DR	DR	DR	DR	DR
190	24	16	16	8	DR	DR	DR	DR	DR	DR	DR	DR
200	16	16	8	8	DR	DR	DR	DR	DR	DR	DR	DR

	8 Inch Wall, 8 Feet High											
Column Rebar	2- #4 [e,f]											
Jamb Rebar	2- #4 [e,f]											
	Typical[j]			3' Opening[j]			4' Opening[j]			5' Opening[j]		
Wind Exposure	B	C	D	B	C	D	B	C	D	B	C	D
Wind Speed	Maximum Column Spacing											
110	24	24	24	24	24	24	24	24	24	24	24	24
120	24	24	24	24	24	24	24	24	24	24	24	24
130	24	24	24	24	24	24	24	24	24	24	24	24
140	24	24	24	24	24	24	24	24	24	24	24	24
150	24	24	24	24	24	24	24	24	24	24	24	24
160	24	24	24	24	24	24	24	24	24	24	24	24
170	24	24	24	24	24	24	24	24	24	24	24	16
180	24	24	24	24	24	24	24	24	16	24	24	8
190	24	24	24	24	24	24	24	24	8	24	8	DR
200	24	24	24	24	24	16	24	16	8	24	DR	DR

a. Tables are based on ASCE 7-10 components and cladding Zone 4; building height less than 20 feet; topographic factor = 1; Risk Category = Type II
b. Tables are based on concrete compressive strength of 3000 psi and reinforcement yield strength of 60,000 psi.
c. Deflections are limited to H/200 for wind and L/240 for seismic, where H is the unsupported height of the wall.
d. The top of the walls shall be braced by a roof or a floor. Floor slabs or grade beams shall brace the bottom.
e. Lap splices shall be at least 60 times the bar diameter.
f. Reinforcement shall be placed at the center of each block. See details.
g. The tables do not substitute for engineering services by the Engineer of Record
h. Header bar and in plane shear design by others.
i. Tables are based the 2015 IBC which references ACI 318-14.
j. See Figure 1 for column and jamb locations.

DR = Additional Design Required

FastBloc™ BUILDING SYSTEMS

FastBloc Wind Tables- Maximum Column Spacing
8 Inch Wall, 10 Feet High [a,b,c,d,g,h,i]

	8 Inch Wall, 10 Feet High											
Column Rebar	1- #4 [e,f]											
Jamb Rebar	1- #4 [e,f]											
	Typical[j]			3' Opening[j]			4' Opening[j]			5' Opening[j]		
Wind Exposure	B	C	D	B	C	D	B	C	D	B	C	D
Wind Speed	Maximum Column Spacing											
110	24	24	24	24	24	24	24	24	16	24	16	DR
120	24	24	24	24	24	16	24	16	DR	16	DR	DR
130	24	24	24	24	16	8	16	8	DR	8	DR	DR
140	24	24	16	24	8	DR	8	DR	DR	DR	DR	DR
150	24	16	16	16	DR	DR	DR	DR	DR	DR	DR	DR
160	16	16	8	8	DR	DR	DR	DR	DR	DR	DR	DR
170	16	16	8	DR	DR	DR	DR	DR	DR	DR	DR	DR
180	16	8	8	DR	DR	DR	DR	DR	DR	DR	DR	DR
190	16	8	8	DR	DR	DR	DR	DR	DR	DR	DR	DR
200	8	8	8	DR	DR	DR	DR	DR	DR	DR	DR	DR

	8 Inch Wall, 8 Feet High											
Column Rebar	2- #4 [e,f]											
Jamb Rebar	2- #4 [e,f]											
	Typical[j]			3' Opening[j]			4' Opening[j]			5' Opening[j]		
Wind Exposure	B	C	D	B	C	D	B	C	D	B	C	D
Wind Speed	Maximum Column Spacing											
110	24	24	24	24	24	24	24	24	24	24	24	24
120	24	24	24	24	24	24	24	24	24	24	24	24
130	24	24	24	24	24	24	24	24	24	24	24	24
140	24	24	24	24	24	24	24	24	24	24	24	8
150	24	24	24	24	24	24	24	24	16	24	16	DR
160	24	24	24	24	24	16	24	16	8	24	8	DR
170	24	24	24	24	24	8	24	8	DR	8	DR	DR
180	24	24	16	24	16	8	16	DR	DR	DR	DR	DR
190	24	24	16	24	8	DR	8	DR	DR	DR	DR	DR
200	24	16	16	16	8	DR	DR	DR	DR	DR	DR	DR

a. Tables are based on ASCE 7-10 components and cladding Zone 4; building height less than 20 feet; topographic factor = 1; Risk Category = Type II
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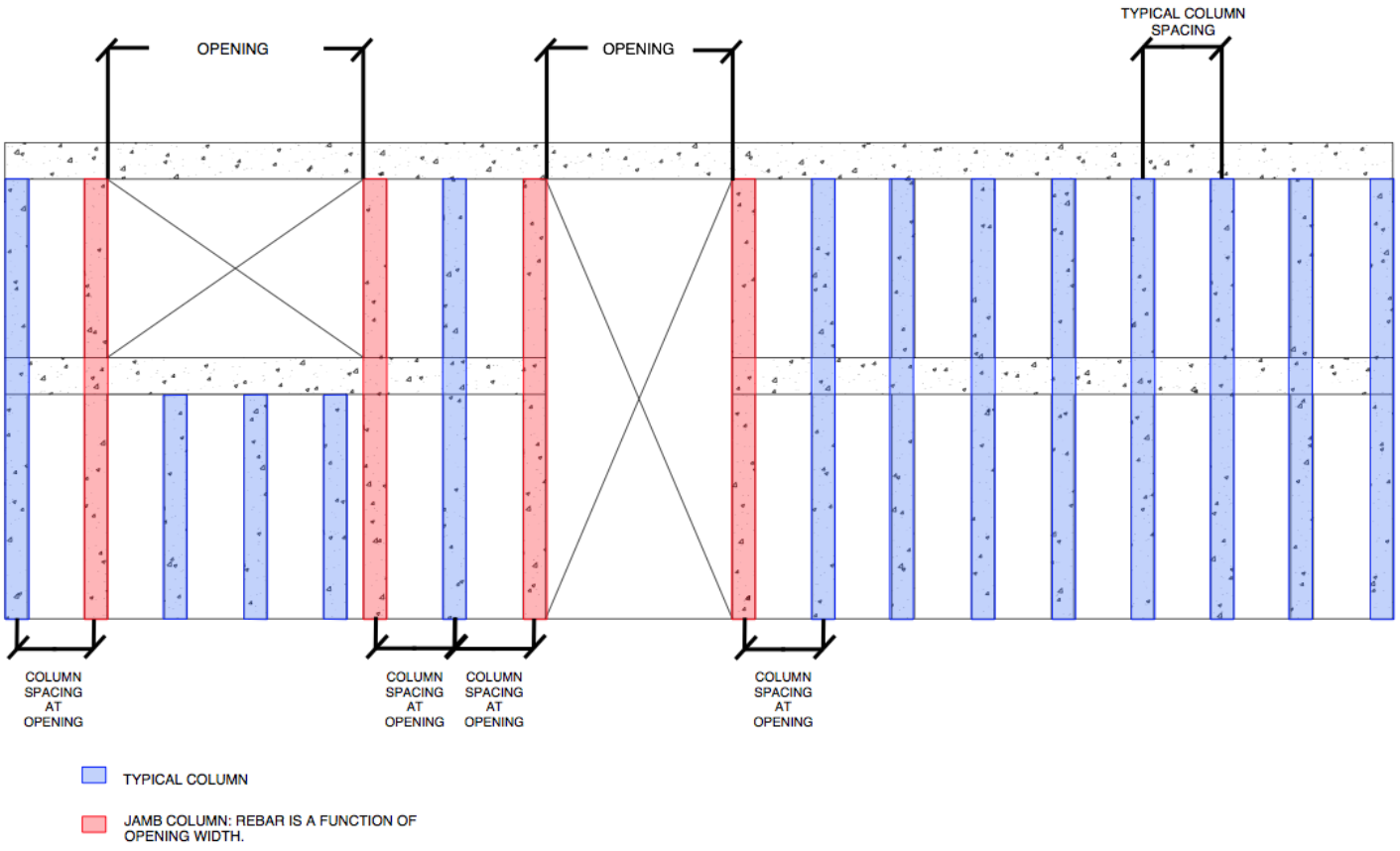
i. Tables are based the 2015 IBC which references ACI 318-14.
j. See Figure 1 for column and jamb locations.

DR = Additional Design Required

FastBloc™ BUILDING SYSTEMS

Figure 1: Column and Jamb Locations



FastBloc™
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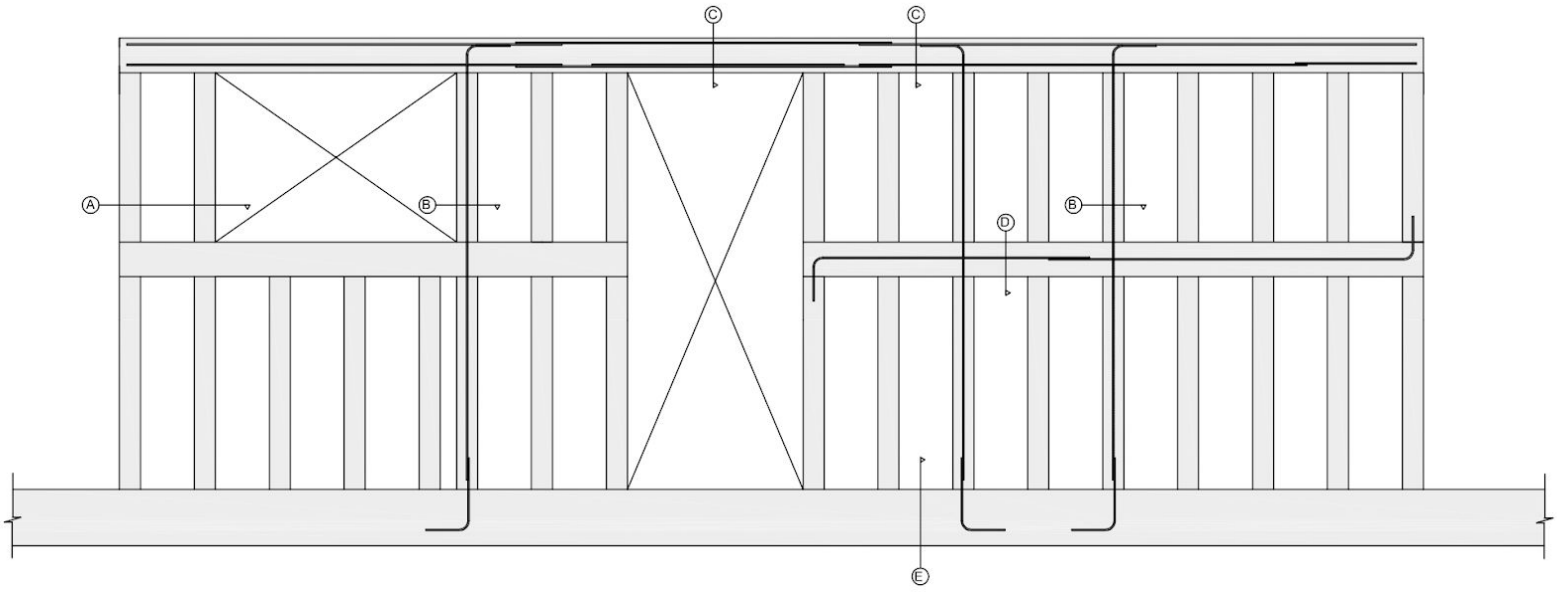
Figure 2: Sample Wall Elevation and Details

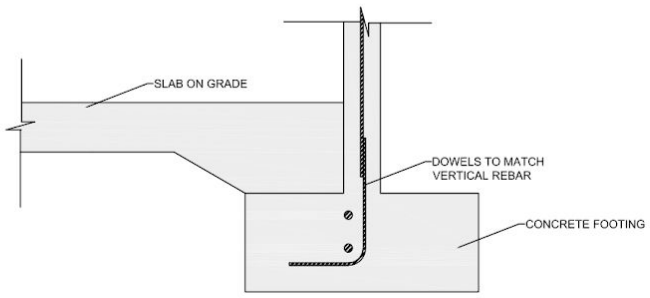


A CORNER DETAIL

B COLUMN & JAMB

C LINTEL DETAIL

D LINTEL DETAIL



E FOUNDATION DETAIL