
 I N P U T D A T A

CODE: 2012 IBC Building Code

A) Building:

Risk Category = II

	X-dir	Y-dir
Footprint Dimensions:	125.00 ft	62.50 ft
Effective length (Leff):	125.00 ft	62.50 ft
Base area (Ab):	7813. ft^2	

>NOTE: Walls must be anchored to floors/roofs in compliance with IBC Sec. 1604.8.2.

B) Wind:

Basic Wind Speed = 115.0 mph	Wind Region = Cont. U.S.
Exposure = C	Enclosure = Enclosed
Avg. Air Density = 0.07650 lbm/ft^3	Dir. Factor, Kd = 0.850
Fundamental Natural Frequency: 0.807 Hz	0.807 Hz
Rigid/Flexible Classification:	(calculated)
Gust Effect Factor:	(calculated)
Damping Ratio: 1.00 %	1.00 %
Wind Resultant Eccentricity:	(calculated)
Parapet Lat. Load: cantilevered	(calculated)
Roof Type = NO SLOPE	

Topographical Effects are Excluded

>NOTE: Use Kd with Load Combinations in ASCE 7 Sec. 2.3 and 2.4.

C) Seismic:

Structural System: Bearing Wall Intermediate Precast
 Response Coefficient, R: 4.00 4.00
 Deflection factor, Cd: 4.00 4.00
 Horizontal Irregularities: None
 Vertical Irregularities : None
 Site Class = C Drift Ratio = 0.020 (User Assigned)
 Fa = 1.200 Fv = 1.665
 Spectral Response at Short Periods = 45.00 %g
 Spectral Response at 1-sec. Period = 13.50 %g
 Long-Period Transition Period = 6.00 sec
 Method of Period Calc'n: Code Approx., Eq. 12.8-7, Ct = 0.020, x = 0.750
 Effects of Soil-Structure interaction have not been incorporated

Story Heights

Beginning Story	Ending Story	Story Ht. (ft)
1	1	12.00
2	10	9.00

Building Height = 93.00 ft (calculated) Parapet Height = 3.00 ft

Floor Masses

Beginning Floor	Ending Floor	Mass (k)	C. G. of Masses	
			in X-dir (ft)	in Y-dir (ft)
2	10	1328.00	62.50	31.25
11	11	781.00	62.50	31.25

Wall Geometry

Stiffness Adjustment

Wall Label	Length (ft)	Thickness (in)	Wind (for opngs,jts,etc.)	Seismic
1)25x8	25.00	8.000	1.000	0.700
2)22x8	22.00	8.000	0.900	0.630
3)30x8	30.00	8.000	1.000	0.700
4)24x8	23.50	8.000	1.000	0.700

F'c= 5.000 ksi Ec= 4287. ksi Poisson's Ratio= 0.20

Walls with Constant Section

Wall #	X-CG (ft)	Y-CG (ft)	Angle (deg)	Wall Label
1	25.00	50.00	90.0	1)25x8
2	100.00	50.00	90.0	1)25x8
3	25.00	12.50	90.0	1)25x8
4	100.00	12.50	90.0	1)25x8
7	12.50	62.50	0.0	1)25x8
8	112.50	62.50	0.0	1)25x8
9	12.50	0.00	0.0	2)22x8
10	112.50	0.00	0.0	1)25x8

Walls with Variable Section

Wall #	X-CG (ft)	Y-CG (ft)	Angle (deg)	Wall Label	Up to Floor #	Wall Label	Up to Floor #	Top Label
5	0.00	31.25	90.0	3)30x8	3	4)24x8	11	NA
6	125.00	31.25	90.0	3)30x8	3	4)24x8	11	NA

 L A T E R A L A N A L Y S I S F O R W I N D L O A D S

 >NOTE: Lateral analysis is by Directional Procedure, ASCE 7-10, Ch. 27, Part 1. Wind Forces are for the Main Wind Force Resisting System (MWFRS). All wind loads are unfactored & based on ASCE 7-10, Eqn. 27.4-1.
 >NOTE: User has determined structure meets conditions of Sec. 27.1 for use of Directional Procedure, and none of its limitations apply.
 >NOTE: Building may be flexible or dynamically sensitive (n < 1.0). Must check fundamental frequency n.
 >NOTE: If the building is in a wind-borne debris region within a hurricane-prone region, the glazing must be impact-resistant or adequately protected as per ASCE 7-10 Section 26.10.3.

Wind Analysis in X Direction

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Mean Roof Ht.      = 93.00 ft      Roof Lat. Load = 0.0 k1
Parapet Lat. Load = 16.9 k1      Parapet load is cantilevered
Natural Freq.     = 0.807 Hz2    Shear Center   = 34.48 ft ( Flexible )
Gust Effect Fctr  = 0.999          eccentricity    = - 8.99/+ 8.99 ft
Windward Cp       = 0.800          Leeward Cp     = -0.300
1 included in top floor load      2 user-assigned values
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Floor Loads Due to Wind in X Direction

Floor Level	Elev. (ft)	Pz (psf)	Ph (psf)	Force (k)	Y-Location (ft)	Accum. Shear (k)	O. T. Moment (k-ft)
11	93.00	28.5	-10.7	30.7	31.25	30.73	0.0
10	84.00	28.0	-10.7	19.0	31.25	49.70	276.6
9	75.00	27.3	-10.7	21.4	31.25	71.12	723.9
8	66.00	26.6	-10.7	21.0	31.25	92.12	1364.0

Ex 1a - 10 story building, 2012 IBC, approx. period

7	57.00	25.8	-10.7	20.5	31.25	112.67	2193.0
6	48.00	24.9	-10.7	20.0	31.25	132.70	3207.1
5	39.00	23.8	-10.7	19.4	31.25	152.13	4401.4
4	30.00	22.5	-10.7	18.7	31.25	170.84	5770.6
3	21.00	20.9	-10.7	17.8	31.25	188.63	7308.2
2	12.00	19.5	-10.7	19.8	31.25	208.47	9005.8
1	0.00	0.0	0.0	0.0	31.25	208.47	11507.5

Horizontal Distance from Windward Edge (ft)	Cp Suct.	Uplift Pressure on Roof (psf)		
		External	Internal	Total
0.00 to 46.50	-0.968	-34.63	6.44	-41.07
46.50 to 93.00	-0.802	-28.70	6.44	-35.14
93.00 to 125.00	-0.598	-21.37	6.44	-27.82

Wall Forces Due to Wind in X Direction

Load Case 1 : Wind parallel to X axis.

Load Case 2a: 0.750 * wind parallel to X axis at 40.24 ft.

Load Case 2b: 0.750 * wind parallel to X axis at 22.26 ft.

Wall #	Story	Load Case 1		Load Case 2a		Load Case 2b	
		Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)
1	10	0.3	3.	-0.3	-2.	0.7	7.
25,50,90	9	0.4	7.	-0.5	-7.	1.1	17.
1)25x8	8	0.6	12.	-0.7	-13.	1.6	31.
	7	0.7	18.	-0.9	-21.	2.0	49.
	6	0.8	26.	-1.1	-31.	2.4	70.
	5	0.9	34.	-1.2	-42.	2.6	94.
	4	0.9	43.	-1.3	-53.	2.7	118.
	3	0.8	50.	-1.1	-63.	2.2	138.
	2	0.5	55.	-1.0	-72.	1.8	154.
	1	0.8	64.	-1.8	-94.	3.0	189.
2	10	-0.3	-3.	0.3	2.	-0.7	-7.
100,50,90	9	-0.4	-7.	0.5	7.	-1.1	-17.
1)25x8	8	-0.6	-12.	0.7	13.	-1.6	-31.
	7	-0.7	-18.	0.9	21.	-2.0	-49.
	6	-0.8	-26.	1.1	31.	-2.4	-70.
	5	-0.9	-34.	1.2	42.	-2.6	-94.
	4	-0.9	-43.	1.3	53.	-2.7	-117.
	3	-0.8	-50.	1.1	63.	-2.2	-138.
	2	-0.5	-55.	1.0	72.	-1.8	-154.
	1	-0.8	-64.	1.8	93.	-3.0	-189.
3	10	0.3	3.	-0.3	-2.	0.7	7.
25,13,90	9	0.4	7.	-0.5	-7.	1.1	17.
1)25x8	8	0.6	12.	-0.7	-13.	1.6	31.
	7	0.7	18.	-0.9	-21.	2.0	49.
	6	0.8	26.	-1.1	-31.	2.4	70.
	5	0.9	34.	-1.2	-42.	2.6	94.
	4	0.9	43.	-1.3	-53.	2.7	118.
	3	0.8	50.	-1.1	-63.	2.2	138.
	2	0.5	55.	-1.0	-72.	1.8	154.
	1	0.8	64.	-1.8	-94.	3.0	189.
4	10	-0.3	-3.	0.3	2.	-0.7	-7.
100,13,90	9	-0.4	-7.	0.5	7.	-1.1	-17.
1)25x8	8	-0.6	-12.	0.7	13.	-1.6	-31.
	7	-0.7	-18.	0.9	21.	-2.0	-49.
	6	-0.8	-26.	1.1	31.	-2.4	-70.
	5	-0.9	-34.	1.2	42.	-2.6	-94.
	4	-0.9	-43.	1.3	53.	-2.7	-117.
	3	-0.8	-50.	1.1	63.	-2.2	-138.

	2	-0.5	-55.	1.0	72.	-1.8	-154.
	1	-0.8	-64.	1.8	93.	-3.0	-189.
5	10	0.4	4.	-0.4	-3.	1.0	9.
0,31,90	9	0.6	9.	-0.7	-9.	1.6	23.
Variable	8	0.8	17.	-1.0	-18.	2.3	43.
	7	1.1	26.	-1.4	-31.	3.0	70.
	6	1.3	38.	-1.7	-46.	3.7	104.
	5	1.7	54.	-2.2	-66.	4.7	146.
	4	2.1	73.	-2.8	-91.	6.0	200.
	3	2.8	98.	-3.9	-126.	8.1	272.
	2	3.4	128.	-5.0	-170.	10.0	363.
	1	2.3	156.	-4.8	-227.	8.3	462.
6	10	-0.4	-4.	0.4	3.	-1.0	-9.
125,31,90	9	-0.6	-9.	0.7	9.	-1.6	-23.
Variable	8	-0.8	-17.	1.0	18.	-2.3	-43.
	7	-1.1	-26.	1.4	31.	-3.0	-70.
	6	-1.3	-38.	1.7	46.	-3.7	-104.
	5	-1.7	-54.	2.2	66.	-4.7	-146.
	4	-2.1	-73.	2.8	91.	-6.0	-200.
	3	-2.8	-98.	3.9	125.	-8.1	-272.
	2	-3.4	-128.	5.0	170.	-10.0	-363.
	1	-2.3	-156.	4.8	227.	-8.3	-462.
7	10	-8.5	-76.	-6.7	-61.	-6.0	-54.
13,63,0	9	-13.5	-198.	-10.8	-157.	-9.6	-140.
1)25x8	8	-19.3	-372.	-15.3	-295.	-13.6	-263.
	7	-25.0	-597.	-19.8	-473.	-17.6	-422.
	6	-30.5	-871.	-24.2	-691.	-21.6	-616.
	5	-36.0	-1195.	-28.4	-947.	-25.5	-846.
	4	-41.3	-1567.	-32.4	-1239.	-29.5	-1111.
	3	-46.4	-1985.	-36.1	-1563.	-33.6	-1414.
	2	-51.2	-2445.	-39.4	-1918.	-37.4	-1750.
	1	-55.4	-3110.	-43.4	-2439.	-39.7	-2226.
8	10	-8.5	-76.	-6.7	-61.	-6.0	-54.
113,63,0	9	-13.5	-198.	-10.8	-157.	-9.6	-140.
1)25x8	8	-19.3	-372.	-15.3	-295.	-13.6	-263.
	7	-25.0	-597.	-19.8	-473.	-17.6	-422.
	6	-30.5	-871.	-24.2	-691.	-21.6	-616.
	5	-36.0	-1195.	-28.4	-947.	-25.5	-846.
	4	-41.3	-1567.	-32.4	-1239.	-29.5	-1111.
	3	-46.4	-1985.	-36.1	-1563.	-33.6	-1414.
	2	-51.2	-2445.	-39.4	-1918.	-37.4	-1750.
	1	-55.4	-3110.	-43.4	-2439.	-39.7	-2226.
9	10	-4.7	-42.	-3.3	-30.	-3.8	-34.
13,0,0	9	-8.4	-118.	-5.8	-82.	-6.7	-95.
2)22x8	8	-12.3	-228.	-8.6	-159.	-9.9	-183.
	7	-16.0	-373.	-11.2	-260.	-12.9	-299.
	6	-19.7	-550.	-13.8	-384.	-15.7	-441.
	5	-23.2	-759.	-16.3	-531.	-18.5	-607.
	4	-26.7	-1000.	-18.9	-701.	-21.2	-798.
	3	-30.3	-1272.	-21.7	-897.	-23.7	-1011.
	2	-34.2	-1580.	-24.9	-1121.	-26.4	-1249.
	1	-41.0	-2072.	-29.2	-1471.	-32.4	-1637.
10	10	-9.0	-81.	-6.3	-57.	-7.2	-65.
113,0,0	9	-14.3	-210.	-10.0	-146.	-11.4	-168.
1)25x8	8	-20.3	-392.	-14.1	-273.	-16.2	-314.
	7	-26.2	-627.	-18.3	-438.	-21.0	-503.
	6	-31.9	-915.	-22.4	-639.	-25.5	-733.
	5	-37.5	-1253.	-26.4	-877.	-29.9	-1002.
	4	-42.8	-1638.	-30.3	-1150.	-33.9	-1307.

3	-47.7	-2067.	-34.2	-1458.	-37.3	-1643.
2	-52.1	-2536.	-37.8	-1798.	-40.3	-2006.
1	-56.7	-3216.	-40.4	-2283.	-44.7	-2542.

Wall Displacements and Story Drifts Due to Wind in X Direction

Wall #	Floor	Load Case 1		Load Case 2a		Load Case 2b	
		Disp. (in)	Drift (in)	Disp. (in)	Drift (in)	Disp. (in)	Drift (in)
1 25,50,90 1)25x8	11	-0.004	-0.001	0.005	0.001	-0.012	-0.002
	10	-0.004	-0.001	0.005	0.001	-0.010	-0.002
	9	-0.003	-0.001	0.004	0.001	-0.009	-0.002
	8	-0.002	-0.001	0.003	0.001	-0.007	-0.001
	7	-0.002	0.000	0.003	0.001	-0.006	-0.001
	6	-0.001	0.000	0.002	0.001	-0.004	-0.001
	5	-0.001	0.000	0.001	0.001	-0.003	-0.001
	4	-0.001	0.000	0.001	0.000	-0.002	-0.001
	3	0.000	0.000	0.001	0.000	-0.001	-0.001
2	0.000	0.000	0.000	0.000	0.000	0.000	
2 100,50,90 1)25x8	11	0.004	0.001	-0.005	-0.001	0.012	0.002
	10	0.004	0.001	-0.005	-0.001	0.010	0.002
	9	0.003	0.001	-0.004	-0.001	0.009	0.002
	8	0.002	0.001	-0.003	-0.001	0.007	0.001
	7	0.002	0.000	-0.003	-0.001	0.006	0.001
	6	0.001	0.000	-0.002	-0.001	0.004	0.001
	5	0.001	0.000	-0.001	-0.001	0.003	0.001
	4	0.001	0.000	-0.001	0.000	0.002	0.001
	3	0.000	0.000	-0.001	0.000	0.001	0.001
2	0.000	0.000	0.000	0.000	0.000	0.000	
3 25,13,90 1)25x8	11	-0.004	-0.001	0.005	0.001	-0.012	-0.002
	10	-0.004	-0.001	0.005	0.001	-0.010	-0.002
	9	-0.003	-0.001	0.004	0.001	-0.009	-0.002
	8	-0.002	-0.001	0.003	0.001	-0.007	-0.001
	7	-0.002	0.000	0.003	0.001	-0.006	-0.001
	6	-0.001	0.000	0.002	0.001	-0.004	-0.001
	5	-0.001	0.000	0.001	0.001	-0.003	-0.001
	4	-0.001	0.000	0.001	0.000	-0.002	-0.001
	3	0.000	0.000	0.001	0.000	-0.001	-0.001
2	0.000	0.000	0.000	0.000	0.000	0.000	
4 100,13,90 1)25x8	11	0.004	0.001	-0.005	-0.001	0.012	0.002
	10	0.004	0.001	-0.005	-0.001	0.010	0.002
	9	0.003	0.001	-0.004	-0.001	0.009	0.002
	8	0.002	0.001	-0.003	-0.001	0.007	0.001
	7	0.002	0.000	-0.003	-0.001	0.006	0.001
	6	0.001	0.000	-0.002	-0.001	0.004	0.001
	5	0.001	0.000	-0.001	-0.001	0.003	0.001
	4	0.001	0.000	-0.001	0.000	0.002	0.001
	3	0.000	0.000	-0.001	0.000	0.001	0.001
2	0.000	0.000	0.000	0.000	0.000	0.000	
5 0,31,90 Variable	11	-0.007	-0.001	0.009	0.001	-0.019	-0.003
	10	-0.006	-0.001	0.008	0.001	-0.017	-0.003
	9	-0.005	-0.001	0.007	0.001	-0.014	-0.003
	8	-0.004	-0.001	0.006	0.001	-0.012	-0.002
	7	-0.003	-0.001	0.004	0.001	-0.009	-0.002
	6	-0.002	-0.001	0.003	0.001	-0.007	-0.002
	5	-0.002	-0.001	0.002	0.001	-0.005	-0.002
	4	-0.001	-0.001	0.002	0.001	-0.003	-0.001
	3	-0.001	0.000	0.001	0.000	-0.002	-0.001
2	0.000	0.000	0.000	0.000	-0.001	-0.001	

6	11	0.007	0.001	-0.009	-0.001	0.019	0.003
125,31,90	10	0.006	0.001	-0.008	-0.001	0.017	0.003
Variable	9	0.005	0.001	-0.007	-0.001	0.014	0.003
	8	0.004	0.001	-0.006	-0.001	0.012	0.002
	7	0.003	0.001	-0.004	-0.001	0.009	0.002
	6	0.002	0.001	-0.003	-0.001	0.007	0.002
	5	0.002	0.001	-0.002	-0.001	0.005	0.002
	4	0.001	0.001	-0.002	-0.001	0.003	0.001
	3	0.001	0.000	-0.001	0.000	0.002	0.001
	2	0.000	0.000	0.000	0.000	0.001	0.001
7	11	0.172	0.022	0.135	0.017	0.122	0.015
13,63,0	10	0.150	0.022	0.118	0.017	0.107	0.015
1)25x8	9	0.128	0.021	0.101	0.017	0.092	0.015
	8	0.107	0.021	0.084	0.016	0.076	0.015
	7	0.086	0.020	0.068	0.016	0.061	0.014
	6	0.066	0.019	0.052	0.015	0.047	0.013
	5	0.048	0.017	0.037	0.013	0.034	0.012
	4	0.031	0.014	0.024	0.011	0.022	0.010
	3	0.017	0.010	0.013	0.008	0.012	0.007
	2	0.007	0.007	0.005	0.005	0.005	0.005
8	11	0.172	0.022	0.135	0.017	0.122	0.015
113,63,0	10	0.150	0.022	0.118	0.017	0.107	0.015
1)25x8	9	0.128	0.021	0.101	0.017	0.092	0.015
	8	0.107	0.021	0.084	0.016	0.076	0.015
	7	0.086	0.020	0.068	0.016	0.061	0.014
	6	0.066	0.019	0.052	0.015	0.047	0.013
	5	0.048	0.017	0.037	0.013	0.034	0.012
	4	0.031	0.014	0.024	0.011	0.022	0.010
	3	0.017	0.010	0.013	0.008	0.012	0.007
	2	0.007	0.007	0.005	0.005	0.005	0.005
9	11	0.178	0.023	0.126	0.016	0.142	0.018
13,0,0	10	0.156	0.023	0.110	0.016	0.124	0.018
2)22x8	9	0.133	0.022	0.094	0.016	0.106	0.018
	8	0.111	0.022	0.079	0.015	0.088	0.017
	7	0.089	0.021	0.063	0.015	0.071	0.017
	6	0.069	0.019	0.049	0.014	0.054	0.015
	5	0.049	0.017	0.035	0.012	0.039	0.014
	4	0.032	0.014	0.023	0.010	0.025	0.011
	3	0.018	0.011	0.013	0.008	0.014	0.008
	2	0.007	0.007	0.005	0.005	0.006	0.006
10	11	0.178	0.023	0.126	0.016	0.142	0.018
113,0,0	10	0.156	0.023	0.110	0.016	0.124	0.018
1)25x8	9	0.133	0.022	0.094	0.016	0.106	0.018
	8	0.111	0.022	0.079	0.015	0.088	0.017
	7	0.089	0.021	0.063	0.015	0.071	0.017
	6	0.069	0.019	0.049	0.014	0.054	0.015
	5	0.049	0.017	0.035	0.012	0.039	0.014
	4	0.032	0.014	0.023	0.010	0.025	0.011
	3	0.018	0.011	0.013	0.008	0.014	0.008
	2	0.007	0.007	0.005	0.005	0.006	0.006

=====
 Wind Analysis in Y Direction
 =====

Mean Roof Ht. = 93.00 ft Roof Lat. Load = 0.0 k¹
 Parapet Lat. Load = 33.8 k¹ Parapet load is cantilevered
 Natural Freq. = 0.807 Hz² Shear Center = 62.51 ft (Flexible)
 Gust Effect Fctr = 0.944 eccentricity = -17.41/+17.41 ft
 Windward Cp = 0.800 Leeward Cp = -0.500
¹ included in top floor load ² user-assigned values

Floor Loads Due to Wind in Y Direction

Floor Level	Elev. (ft)	Pz (psf)	Ph (psf)	Force (k)	X-Location (ft)	Accum. Shear (k)	O. T. Moment (k-ft)
11	93.00	26.9	-16.9	64.1	62.50	64.06	0.0
10	84.00	26.5	-16.9	43.2	62.50	107.22	576.6
9	75.00	25.8	-16.9	48.1	62.50	155.31	1541.6
8	66.00	25.2	-16.9	47.3	62.50	202.62	2939.3
7	57.00	24.4	-16.9	46.5	62.50	249.08	4762.9
6	48.00	23.5	-16.9	45.5	62.50	294.55	7004.6
5	39.00	22.5	-16.9	44.3	62.50	338.90	9655.6
4	30.00	21.3	-16.9	43.0	62.50	381.87	12705.7
3	21.00	19.7	-16.9	41.2	62.50	423.10	16142.5
2	12.00	18.4	-16.9	46.4	62.50	469.49	19950.4
1	0.00	0.0	0.0	0.0	62.50	469.49	25584.3

Horizontal Distance from Windward Edge (ft)	Cp Suct.	Uplift Pressure on Roof (psf) External + Internal = Total
0.00 to 46.50	-1.040	-35.16 6.44 -41.60
46.50 to 62.50	-0.700	-23.66 6.44 -30.11

Wall Forces Due to Wind in Y Direction

Load Case 1 : Wind parallel to Y axis.
 Load Case 2c: 0.750 * wind parallel to Y axis at 79.91 ft.
 Load Case 2d: 0.750 * wind parallel to Y axis at 45.09 ft.

Wall #	Story	Load Case 1		Load Case 2c		Load Case 2d	
		Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)
1 25,50,90 1)25x8	10	-11.5	-103.	-6.5	-59.	-10.7	-96.
	9	-18.9	-273.	-10.8	-156.	-17.5	-254.
	8	-27.1	-517.	-15.5	-296.	-25.1	-480.
	7	-35.0	-832.	-20.1	-477.	-32.4	-771.
	6	-42.1	-1211.	-24.2	-695.	-38.9	-1122.
	5	-47.9	-1642.	-27.7	-944.	-44.2	-1519.
	4	-50.8	-2099.	-29.6	-1210.	-46.5	-1938.
	3	-47.4	-2526.	-28.3	-1465.	-42.8	-2323.
	2	-43.1	-2914.	-26.3	-1702.	-38.4	-2669.
	1	-65.1	-3695.	-38.3	-2162.	-59.3	-3381.
2 100,50,90 1)25x8	10	-11.5	-103.	-10.7	-96.	-6.5	-59.
	9	-18.9	-273.	-17.5	-254.	-10.8	-156.
	8	-27.1	-517.	-25.1	-480.	-15.5	-296.
	7	-35.0	-832.	-32.4	-771.	-20.1	-476.
	6	-42.1	-1211.	-38.9	-1122.	-24.2	-695.
	5	-47.9	-1642.	-44.2	-1519.	-27.7	-944.
	4	-50.8	-2098.	-46.5	-1938.	-29.6	-1210.
	3	-47.4	-2525.	-42.8	-2323.	-28.3	-1465.
	2	-43.1	-2914.	-38.4	-2668.	-26.3	-1702.
	1	-65.1	-3695.	-59.3	-3380.	-38.3	-2162.
3 25,13,90 1)25x8	10	-11.5	-103.	-6.5	-59.	-10.7	-96.
	9	-18.9	-273.	-10.8	-156.	-17.5	-254.
	8	-27.1	-517.	-15.5	-296.	-25.1	-480.
	7	-35.0	-832.	-20.1	-477.	-32.4	-771.
	6	-42.1	-1211.	-24.2	-695.	-38.9	-1122.
	5	-47.9	-1642.	-27.7	-944.	-44.2	-1519.
	4	-50.8	-2099.	-29.6	-1210.	-46.5	-1938.
	3	-47.4	-2526.	-28.3	-1465.	-42.8	-2323.
	2	-43.1	-2914.	-26.3	-1702.	-38.4	-2669.
	1	-65.1	-3695.	-38.3	-2162.	-59.3	-3381.

Ex 1a - 10 story building, 2012 IBC, approx. period

4	10	-11.5	-103.	-10.7	-96.	-6.5	-59.
100,13,90	9	-18.9	-273.	-17.5	-254.	-10.8	-156.
1)25x8	8	-27.1	-517.	-25.1	-480.	-15.5	-296.
	7	-35.0	-832.	-32.4	-771.	-20.1	-476.
	6	-42.1	-1211.	-38.9	-1122.	-24.2	-695.
	5	-47.9	-1642.	-44.2	-1519.	-27.7	-944.
	4	-50.8	-2098.	-46.5	-1938.	-29.6	-1210.
	3	-47.4	-2525.	-42.8	-2323.	-28.3	-1465.
	2	-43.1	-2914.	-38.4	-2668.	-26.3	-1702.
	1	-65.1	-3695.	-59.3	-3380.	-38.3	-2162.
5	10	-9.1	-82.	-4.1	-37.	-9.5	-86.
0,31,90	9	-15.8	-224.	-7.2	-102.	-16.6	-235.
Variable	8	-23.5	-436.	-10.7	-198.	-24.5	-456.
	7	-31.4	-719.	-14.4	-327.	-32.8	-751.
	6	-40.3	-1081.	-18.5	-494.	-41.9	-1128.
	5	-51.5	-1545.	-23.9	-709.	-53.4	-1608.
	4	-68.0	-2157.	-32.1	-998.	-69.9	-2237.
	3	-96.1	-3022.	-46.3	-1414.	-97.8	-3118.
	2	-125.3	-4149.	-61.5	-1968.	-126.5	-4256.
	1	-104.5	-5404.	-50.1	-2569.	-106.7	-5537.
6	10	-9.1	-82.	-9.5	-86.	-4.1	-37.
125,31,90	9	-15.8	-224.	-16.6	-235.	-7.2	-102.
Variable	8	-23.5	-436.	-24.5	-456.	-10.7	-198.
	7	-31.4	-718.	-32.8	-750.	-14.4	-327.
	6	-40.3	-1081.	-41.9	-1128.	-18.5	-494.
	5	-51.5	-1545.	-53.3	-1608.	-23.9	-709.
	4	-67.9	-2156.	-69.9	-2237.	-32.0	-998.
	3	-96.1	-3021.	-97.8	-3117.	-46.3	-1414.
	2	-125.3	-4148.	-126.5	-4255.	-61.5	-1967.
	1	-104.5	-5403.	-106.7	-5536.	-50.1	-2568.
7	10	0.0	0.	1.5	13.	-1.5	-13.
13,63,0	9	0.0	0.	2.5	36.	-2.5	-36.
1)25x8	8	0.0	0.	3.6	68.	-3.6	-68.
	7	0.0	0.	4.6	109.	-4.6	-109.
	6	0.0	0.	5.5	158.	-5.5	-159.
	5	0.0	0.	6.2	214.	-6.2	-214.
	4	0.0	0.	6.3	271.	-6.3	-271.
	3	0.0	0.	5.4	320.	-5.4	-320.
	2	0.0	0.	4.5	360.	-4.5	-360.
	1	0.0	0.	8.1	457.	-8.1	-458.
8	10	0.0	0.	1.5	13.	-1.5	-13.
113,63,0	9	0.0	0.	2.5	36.	-2.5	-36.
1)25x8	8	0.0	0.	3.6	68.	-3.6	-68.
	7	0.0	0.	4.6	109.	-4.6	-109.
	6	0.0	0.	5.5	158.	-5.5	-159.
	5	0.0	0.	6.2	214.	-6.2	-214.
	4	0.0	0.	6.3	271.	-6.3	-271.
	3	0.0	0.	5.4	320.	-5.4	-320.
	2	0.0	0.	4.5	360.	-4.5	-360.
	1	0.0	0.	8.1	457.	-8.1	-458.
9	10	0.0	0.	-1.0	-9.	1.0	9.
13,0,0	9	0.0	0.	-1.8	-26.	1.8	26.
2)22x8	8	0.0	0.	-2.7	-50.	2.7	50.
	7	0.0	0.	-3.5	-82.	3.5	82.
	6	0.0	0.	-4.2	-120.	4.2	120.
	5	0.0	0.	-4.8	-163.	4.8	163.
	4	0.0	0.	-4.9	-207.	4.9	207.
	3	0.0	0.	-4.2	-244.	4.2	244.
	2	0.0	0.	-3.4	-275.	3.4	275.
	1	0.0	0.	-6.9	-357.	6.9	358.

10	10	0.0	0.	-2.0	-18.	2.0	18.
113,0,0	9	0.0	0.	-3.1	-46.	3.1	46.
1)25x8	8	0.0	0.	-4.4	-85.	4.4	86.
	7	0.0	0.	-5.7	-136.	5.7	137.
	6	0.0	0.	-6.8	-197.	6.8	197.
	5	0.0	0.	-7.6	-265.	7.6	266.
	4	0.0	0.	-7.8	-335.	7.8	335.
	3	0.0	0.	-6.7	-395.	6.7	395.
	2	0.0	0.	-5.5	-445.	5.5	445.
	1	0.0	0.	-9.4	-558.	9.4	558.

Wall Displacements and Story Drifts Due to Wind in Y Direction

Wall #	Floor	Load Case 1		Load Case 2c		Load Case 2d	
		Disp. (in)	Drift (in)	Disp. (in)	Drift (in)	Disp. (in)	Drift (in)
1	11	0.215	0.028	0.125	0.016	0.198	0.025
25,50,90	10	0.187	0.028	0.109	0.016	0.172	0.025
1)25x8	9	0.160	0.027	0.093	0.016	0.147	0.025
	8	0.132	0.027	0.077	0.015	0.121	0.025
	7	0.106	0.025	0.062	0.015	0.097	0.023
	6	0.080	0.023	0.047	0.014	0.074	0.021
	5	0.057	0.020	0.033	0.012	0.052	0.019
	4	0.037	0.017	0.021	0.010	0.033	0.015
	3	0.020	0.012	0.012	0.007	0.018	0.011
	2	0.008	0.008	0.005	0.005	0.007	0.007
2	11	0.215	0.028	0.198	0.025	0.125	0.016
100,50,90	10	0.187	0.028	0.172	0.025	0.109	0.016
1)25x8	9	0.160	0.027	0.147	0.025	0.093	0.016
	8	0.132	0.027	0.121	0.025	0.077	0.015
	7	0.106	0.025	0.097	0.023	0.062	0.015
	6	0.080	0.023	0.074	0.021	0.047	0.014
	5	0.057	0.020	0.052	0.019	0.033	0.012
	4	0.037	0.017	0.033	0.015	0.021	0.010
	3	0.020	0.012	0.018	0.011	0.012	0.007
	2	0.008	0.008	0.007	0.007	0.005	0.005
3	11	0.215	0.028	0.125	0.016	0.198	0.025
25,13,90	10	0.187	0.028	0.109	0.016	0.172	0.025
1)25x8	9	0.160	0.027	0.093	0.016	0.147	0.025
	8	0.132	0.027	0.077	0.015	0.121	0.025
	7	0.106	0.025	0.062	0.015	0.097	0.023
	6	0.080	0.023	0.047	0.014	0.074	0.021
	5	0.057	0.020	0.033	0.012	0.052	0.019
	4	0.037	0.017	0.021	0.010	0.033	0.015
	3	0.020	0.012	0.012	0.007	0.018	0.011
	2	0.008	0.008	0.005	0.005	0.007	0.007
4	11	0.215	0.028	0.198	0.025	0.125	0.016
100,13,90	10	0.187	0.028	0.172	0.025	0.109	0.016
1)25x8	9	0.160	0.027	0.147	0.025	0.093	0.016
	8	0.132	0.027	0.121	0.025	0.077	0.015
	7	0.106	0.025	0.097	0.023	0.062	0.015
	6	0.080	0.023	0.074	0.021	0.047	0.014
	5	0.057	0.020	0.052	0.019	0.033	0.012
	4	0.037	0.017	0.033	0.015	0.021	0.010
	3	0.020	0.012	0.018	0.011	0.012	0.007
	2	0.008	0.008	0.007	0.007	0.005	0.005
5	11	0.215	0.028	0.101	0.013	0.222	0.029
0,31,90	10	0.187	0.028	0.088	0.013	0.193	0.029
Variable	9	0.160	0.027	0.075	0.013	0.165	0.028

	8	0.132	0.027	0.062	0.012	0.136	0.028
	7	0.106	0.025	0.050	0.012	0.109	0.026
	6	0.080	0.023	0.038	0.011	0.082	0.024
	5	0.057	0.020	0.027	0.010	0.058	0.021
	4	0.037	0.017	0.017	0.008	0.037	0.017
	3	0.020	0.012	0.010	0.006	0.020	0.012
	2	0.008	0.008	0.004	0.004	0.008	0.008
6	11	0.215	0.028	0.222	0.029	0.101	0.013
125,31,90	10	0.187	0.028	0.193	0.029	0.088	0.013
Variable	9	0.160	0.027	0.165	0.028	0.075	0.013
	8	0.132	0.027	0.136	0.028	0.062	0.012
	7	0.106	0.025	0.109	0.026	0.050	0.012
	6	0.080	0.023	0.082	0.024	0.038	0.011
	5	0.057	0.020	0.058	0.021	0.027	0.010
	4	0.037	0.017	0.037	0.017	0.017	0.008
	3	0.020	0.012	0.020	0.012	0.010	0.006
	2	0.008	0.008	0.008	0.008	0.004	0.004
7	11	0.000	0.000	-0.027	-0.004	0.027	0.004
13,63,0	10	0.000	0.000	-0.024	-0.004	0.024	0.004
1)25x8	9	0.000	0.000	-0.020	-0.003	0.020	0.003
	8	0.000	0.000	-0.017	-0.003	0.017	0.003
	7	0.000	0.000	-0.013	-0.003	0.013	0.003
	6	0.000	0.000	-0.010	-0.003	0.010	0.003
	5	0.000	0.000	-0.007	-0.003	0.007	0.003
	4	0.000	0.000	-0.004	-0.002	0.004	0.002
	3	0.000	0.000	-0.002	-0.001	0.002	0.001
	2	0.000	0.000	-0.001	-0.001	0.001	0.001
8	11	0.000	0.000	-0.027	-0.004	0.027	0.004
113,63,0	10	0.000	0.000	-0.024	-0.004	0.024	0.004
1)25x8	9	0.000	0.000	-0.020	-0.003	0.020	0.003
	8	0.000	0.000	-0.017	-0.003	0.017	0.003
	7	0.000	0.000	-0.013	-0.003	0.013	0.003
	6	0.000	0.000	-0.010	-0.003	0.010	0.003
	5	0.000	0.000	-0.007	-0.003	0.007	0.003
	4	0.000	0.000	-0.004	-0.002	0.004	0.002
	3	0.000	0.000	-0.002	-0.001	0.002	0.001
	2	0.000	0.000	-0.001	-0.001	0.001	0.001
9	11	0.000	0.000	0.033	0.004	-0.033	-0.004
13,0,0	10	0.000	0.000	0.029	0.004	-0.029	-0.004
2)22x8	9	0.000	0.000	0.025	0.004	-0.025	-0.004
	8	0.000	0.000	0.020	0.004	-0.020	-0.004
	7	0.000	0.000	0.016	0.004	-0.016	-0.004
	6	0.000	0.000	0.012	0.004	-0.012	-0.004
	5	0.000	0.000	0.009	0.003	-0.009	-0.003
	4	0.000	0.000	0.006	0.003	-0.006	-0.003
	3	0.000	0.000	0.003	0.002	-0.003	-0.002
	2	0.000	0.000	0.001	0.001	-0.001	-0.001
10	11	0.000	0.000	0.033	0.004	-0.033	-0.004
113,0,0	10	0.000	0.000	0.029	0.004	-0.029	-0.004
1)25x8	9	0.000	0.000	0.025	0.004	-0.025	-0.004
	8	0.000	0.000	0.020	0.004	-0.020	-0.004
	7	0.000	0.000	0.016	0.004	-0.016	-0.004
	6	0.000	0.000	0.012	0.004	-0.012	-0.004
	5	0.000	0.000	0.009	0.003	-0.009	-0.003
	4	0.000	0.000	0.006	0.003	-0.006	-0.003
	3	0.000	0.000	0.003	0.002	-0.003	-0.002
	2	0.000	0.000	0.001	0.001	-0.001	-0.001

=====
 Combined Wall Forces Due to Wind for both X and Y Directions

Ex 1a - 10 story building, 2012 IBC, approx. period

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Load Case 3a: 75% of Case 1 from both X and Y axis, acting simultaneously.
Load Case 3b: 75% of Case 1 from both X and -Y axis, acting simultaneously.

Wall #	Story	Load Case 3a		Load Case 3b	
		Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)
1 25,50,90 1)25x8	10	-8.4	-75.	8.8	80.
	9	-13.8	-200.	14.5	210.
	8	-19.9	-379.	20.8	397.
	7	-25.7	-610.	26.8	638.
	6	-31.0	-889.	32.2	928.
	5	-35.2	-1206.	36.6	1257.
	4	-37.4	-1542.	38.8	1606.
	3	-35.0	-1857.	36.2	1932.
	2	-31.9	-2145.	32.8	2227.
	1	-48.3	-2724.	49.4	2820.
2 100,50,90 1)25x8	10	-8.8	-80.	8.4	75.
	9	-14.5	-210.	13.8	200.
	8	-20.8	-397.	19.9	379.
	7	-26.8	-638.	25.7	610.
	6	-32.2	-928.	31.0	889.
	5	-36.6	-1257.	35.2	1205.
	4	-38.8	-1606.	37.4	1542.
	3	-36.2	-1931.	35.0	1857.
	2	-32.8	-2226.	31.9	2144.
	1	-49.4	-2819.	48.3	2723.
3 25,13,90 1)25x8	10	-8.4	-75.	8.8	80.
	9	-13.8	-200.	14.5	210.
	8	-19.9	-379.	20.8	397.
	7	-25.7	-610.	26.8	638.
	6	-31.0	-889.	32.2	928.
	5	-35.2	-1206.	36.6	1257.
	4	-37.4	-1542.	38.8	1606.
	3	-35.0	-1857.	36.2	1932.
	2	-31.9	-2145.	32.8	2227.
	1	-48.3	-2724.	49.4	2820.
4 100,13,90 1)25x8	10	-8.8	-80.	8.4	75.
	9	-14.5	-210.	13.8	200.
	8	-20.8	-397.	19.9	379.
	7	-26.8	-638.	25.7	610.
	6	-32.2	-928.	31.0	889.
	5	-36.6	-1257.	35.2	1205.
	4	-38.8	-1606.	37.4	1542.
	3	-36.2	-1931.	35.0	1857.
	2	-32.8	-2226.	31.9	2144.
	1	-49.4	-2819.	48.3	2723.
5 0,31,90 Variable	10	-6.5	-58.	7.1	64.
	9	-11.4	-161.	12.3	175.
	8	-17.0	-314.	18.2	339.
	7	-22.8	-519.	24.4	559.
	6	-29.2	-782.	31.3	840.
	5	-37.4	-1119.	39.9	1199.
	4	-49.4	-1563.	52.6	1672.
	3	-69.9	-2193.	74.2	2340.
	2	-91.5	-3016.	96.5	3208.
	1	-76.7	-3936.	80.2	4170.
6 125,31,90	10	-7.1	-64.	6.5	58.
	9	-12.3	-175.	11.4	161.

Variable	8	-18.2	-339.	17.0	314.	
	7	-24.4	-558.	22.8	519.	
	6	-31.2	-840.	29.2	782.	
	5	-39.9	-1199.	37.4	1118.	
	4	-52.5	-1672.	49.4	1563.	
	3	-74.2	-2339.	69.9	2192.	
	2	-96.5	-3207.	91.4	3015.	
	1	-80.1	-4169.	76.6	3935.	
	7	10	-6.4	-57.	-6.4	-57.
13,63,0	9	-10.2	-149.	-10.2	-149.	
1)25x8	8	-14.5	-279.	-14.5	-279.	
	7	-18.7	-448.	-18.7	-447.	
	6	-22.9	-654.	-22.9	-653.	
	5	-27.0	-896.	-27.0	-896.	
	4	-31.0	-1175.	-31.0	-1175.	
	3	-34.8	-1489.	-34.8	-1488.	
	2	-38.4	-1834.	-38.4	-1834.	
	1	-41.5	-2332.	-41.5	-2332.	
	8	10	-6.4	-57.	-6.4	-57.
113,63,0	9	-10.2	-149.	-10.2	-149.	
1)25x8	8	-14.5	-279.	-14.5	-279.	
	7	-18.7	-448.	-18.7	-447.	
	6	-22.9	-654.	-22.9	-653.	
	5	-27.0	-896.	-27.0	-896.	
	4	-31.0	-1175.	-31.0	-1175.	
	3	-34.8	-1489.	-34.8	-1488.	
	2	-38.4	-1834.	-38.4	-1834.	
	1	-41.5	-2332.	-41.5	-2332.	
	9	10	-3.5	-32.	-3.5	-32.
13,0,0	9	-6.3	-88.	-6.3	-88.	
2)22x8	8	-9.2	-171.	-9.2	-171.	
	7	-12.0	-279.	-12.0	-279.	
	6	-14.8	-412.	-14.8	-412.	
	5	-17.4	-569.	-17.4	-569.	
	4	-20.1	-750.	-20.1	-750.	
	3	-22.7	-954.	-22.7	-954.	
	2	-25.6	-1185.	-25.6	-1185.	
	1	-30.8	-1554.	-30.8	-1554.	
	10	10	-6.8	-61.	-6.8	-61.
113,0,0	9	-10.7	-157.	-10.7	-157.	
1)25x8	8	-15.2	-294.	-15.2	-294.	
	7	-19.6	-470.	-19.6	-471.	
	6	-24.0	-686.	-24.0	-686.	
	5	-28.1	-939.	-28.2	-940.	
	4	-32.1	-1228.	-32.1	-1229.	
	3	-35.8	-1550.	-35.8	-1551.	
	2	-39.1	-1902.	-39.1	-1902.	
	1	-42.5	-2412.	-42.5	-2412.	

Load Case 4a: 75% of Case 2a and 75% of Case 2c, acting simultaneously.
 Load Case 4b: 75% of Case 2a and 75% of Case 2d, acting simultaneously.
 Load Case 4c: 75% of Case 2b and 75% of Case 2c, acting simultaneously.
 Load Case 4d: 75% of Case 2b and 75% of Case 2d, acting simultaneously.

Wall #	Story	Load Case 4a		Load Case 4b		Load Case 4c		Load Case 4d	
		Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)
1	10	-5.1	-46.	-8.2	-74.	-4.3	-39.	-7.4	-67.
25,50,90	9	-8.5	-122.	-13.5	-195.	-7.3	-104.	-12.3	-178.
1)25x8	8	-12.2	-232.	-19.4	-370.	-10.5	-199.	-17.7	-337.

Ex 1a - 10 story building, 2012 IBC, approx. period

	7	-15.7	-373.	-25.0	-594.	-13.6	-321.	-22.8	-542.
	6	-19.0	-544.	-30.0	-865.	-16.4	-468.	-27.4	-789.
	5	-21.7	-739.	-34.0	-1171.	-18.8	-638.	-31.2	-1069.
	4	-23.1	-948.	-35.8	-1493.	-20.2	-820.	-32.9	-1365.
	3	-22.1	-1146.	-32.9	-1790.	-19.6	-996.	-30.5	-1639.
	2	-20.5	-1331.	-29.5	-2055.	-18.4	-1162.	-27.4	-1886.
	1	-30.1	-1692.	-45.9	-2606.	-26.5	-1480.	-42.3	-2394.
2	10	-7.8	-70.	-4.7	-42.	-8.6	-77.	-5.5	-49.
100,50,90	9	-12.8	-185.	-7.7	-112.	-14.0	-203.	-9.0	-130.
1)25x8	8	-18.3	-350.	-11.1	-212.	-20.0	-383.	-12.8	-245.
	7	-23.6	-562.	-14.4	-341.	-25.8	-615.	-16.5	-394.
	6	-28.4	-818.	-17.4	-498.	-31.0	-894.	-19.9	-573.
	5	-32.2	-1108.	-19.8	-676.	-35.1	-1209.	-22.7	-778.
	4	-33.9	-1413.	-21.3	-868.	-36.9	-1541.	-24.2	-996.
	3	-31.3	-1695.	-20.4	-1052.	-33.8	-1845.	-22.9	-1202.
	2	-28.0	-1947.	-19.0	-1223.	-30.1	-2116.	-21.1	-1392.
	1	-43.1	-2465.	-27.4	-1552.	-46.7	-2677.	-31.0	-1764.
3	10	-5.1	-46.	-8.2	-74.	-4.3	-39.	-7.4	-67.
25,13,90	9	-8.5	-122.	-13.5	-195.	-7.3	-104.	-12.3	-178.
1)25x8	8	-12.2	-232.	-19.4	-370.	-10.5	-199.	-17.7	-337.
	7	-15.7	-373.	-25.0	-594.	-13.6	-321.	-22.8	-542.
	6	-19.0	-544.	-30.0	-865.	-16.4	-468.	-27.4	-789.
	5	-21.7	-739.	-34.0	-1171.	-18.8	-638.	-31.2	-1069.
	4	-23.1	-948.	-35.8	-1493.	-20.2	-820.	-32.9	-1365.
	3	-22.1	-1146.	-32.9	-1790.	-19.6	-996.	-30.5	-1639.
	2	-20.5	-1331.	-29.5	-2055.	-18.4	-1162.	-27.4	-1886.
	1	-30.1	-1692.	-45.9	-2606.	-26.5	-1480.	-42.3	-2394.
4	10	-7.8	-70.	-4.7	-42.	-8.6	-77.	-5.5	-49.
100,13,90	9	-12.8	-185.	-7.7	-112.	-14.0	-203.	-9.0	-130.
1)25x8	8	-18.3	-350.	-11.1	-212.	-20.0	-383.	-12.8	-245.
	7	-23.6	-562.	-14.4	-341.	-25.8	-615.	-16.5	-394.
	6	-28.4	-818.	-17.4	-498.	-31.0	-894.	-19.9	-573.
	5	-32.2	-1108.	-19.8	-676.	-35.1	-1209.	-22.7	-778.
	4	-33.9	-1413.	-21.3	-868.	-36.9	-1541.	-24.2	-996.
	3	-31.3	-1695.	-20.4	-1052.	-33.8	-1845.	-22.9	-1202.
	2	-28.0	-1947.	-19.0	-1223.	-30.1	-2116.	-21.1	-1392.
	1	-43.1	-2465.	-27.4	-1552.	-46.7	-2677.	-31.0	-1764.
5	10	-3.3	-30.	-7.4	-67.	-2.3	-21.	-6.4	-58.
0,31,90	9	-5.9	-83.	-12.9	-183.	-4.2	-59.	-11.3	-159.
Variable	8	-8.8	-162.	-19.1	-356.	-6.3	-116.	-16.7	-309.
	7	-11.8	-268.	-25.6	-586.	-8.6	-193.	-22.3	-510.
	6	-15.2	-405.	-32.7	-881.	-11.1	-293.	-28.6	-768.
	5	-19.6	-581.	-41.6	-1255.	-14.4	-423.	-36.5	-1097.
	4	-26.1	-817.	-54.5	-1746.	-19.6	-599.	-47.9	-1528.
	3	-37.6	-1155.	-76.3	-2432.	-28.6	-857.	-67.3	-2134.
	2	-49.8	-1604.	-98.6	-3320.	-38.6	-1204.	-87.3	-2920.
	1	-41.1	-2097.	-83.6	-4323.	-31.4	-1580.	-73.8	-3806.
6	10	-6.9	-62.	-2.8	-25.	-7.9	-71.	-3.8	-34.
125,31,90	9	-11.9	-169.	-4.9	-69.	-13.6	-194.	-6.6	-93.
Variable	8	-17.6	-328.	-7.3	-135.	-20.1	-374.	-9.7	-181.
	7	-23.5	-540.	-9.8	-222.	-26.8	-615.	-13.0	-298.
	6	-30.2	-811.	-12.6	-336.	-34.2	-924.	-16.7	-448.
	5	-38.4	-1157.	-16.3	-483.	-43.5	-1315.	-21.5	-641.
	4	-50.3	-1609.	-21.9	-680.	-56.9	-1827.	-28.5	-898.
	3	-70.5	-2244.	-31.8	-966.	-79.4	-2542.	-40.8	-1265.
	2	-91.1	-3064.	-42.4	-1348.	-102.4	-3463.	-53.6	-1748.
	1	-76.5	-3981.	-34.0	-1756.	-86.2	-4498.	-43.8	-2273.
7	10	-3.9	-35.	-6.2	-56.	-3.4	-30.	-5.6	-51.
13,63,0	9	-6.2	-91.	-9.9	-145.	-5.3	-78.	-9.0	-132.

Ex 1a - 10 story building, 2012 IBC, approx. period

1)25x8	8	-8.8	-171.	-14.2	-272.	-7.5	-146.	-12.9	-248.
	7	-11.4	-273.	-18.3	-437.	-9.8	-234.	-16.7	-398.
	6	-14.0	-399.	-22.3	-637.	-12.1	-343.	-20.3	-581.
	5	-16.7	-550.	-25.9	-871.	-14.5	-474.	-23.8	-795.
	4	-19.6	-726.	-29.1	-1132.	-17.4	-630.	-26.9	-1037.
	3	-23.0	-933.	-31.1	-1412.	-21.1	-821.	-29.3	-1300.
	2	-26.2	-1168.	-32.9	-1708.	-24.7	-1043.	-31.4	-1583.
	1	-26.5	-1486.	-38.6	-2172.	-23.7	-1327.	-35.9	-2013.
8	10	-3.9	-35.	-6.2	-56.	-3.4	-30.	-5.6	-51.
113,63,0	9	-6.2	-91.	-9.9	-145.	-5.3	-78.	-9.0	-132.
1)25x8	8	-8.8	-171.	-14.2	-272.	-7.5	-146.	-12.9	-248.
	7	-11.4	-273.	-18.3	-437.	-9.8	-234.	-16.7	-398.
	6	-14.0	-399.	-22.3	-637.	-12.1	-343.	-20.3	-581.
	5	-16.7	-550.	-25.9	-871.	-14.5	-474.	-23.8	-795.
	4	-19.6	-726.	-29.1	-1132.	-17.4	-630.	-26.9	-1037.
	3	-23.0	-933.	-31.1	-1412.	-21.1	-821.	-29.3	-1300.
	2	-26.2	-1168.	-32.9	-1708.	-24.7	-1043.	-31.4	-1583.
	1	-26.5	-1486.	-38.6	-2172.	-23.7	-1327.	-35.9	-2013.
9	10	-3.2	-29.	-1.7	-15.	-3.6	-33.	-2.1	-19.
13,0,0	9	-5.7	-81.	-3.0	-42.	-6.4	-90.	-3.6	-52.
2)22x8	8	-8.5	-157.	-4.4	-82.	-9.4	-175.	-5.4	-100.
	7	-11.0	-256.	-5.8	-134.	-12.3	-285.	-7.0	-163.
	6	-13.5	-378.	-7.2	-198.	-15.0	-420.	-8.6	-241.
	5	-15.8	-520.	-8.7	-276.	-17.5	-578.	-10.3	-333.
	4	-17.9	-681.	-10.5	-371.	-19.6	-754.	-12.2	-443.
	3	-19.4	-856.	-13.2	-489.	-20.9	-942.	-14.6	-575.
	2	-21.2	-1047.	-16.1	-634.	-22.4	-1143.	-17.3	-730.
	1	-27.1	-1371.	-16.8	-835.	-29.4	-1496.	-19.1	-960.
10	10	-6.2	-56.	-3.2	-29.	-6.9	-62.	-4.0	-36.
113,0,0	9	-9.8	-144.	-5.1	-75.	-10.9	-160.	-6.2	-92.
1)25x8	8	-13.9	-269.	-7.3	-141.	-15.5	-300.	-8.9	-172.
	7	-18.0	-431.	-9.5	-226.	-20.0	-479.	-11.5	-275.
	6	-21.9	-628.	-11.7	-331.	-24.2	-697.	-14.1	-401.
	5	-25.5	-857.	-14.1	-459.	-28.1	-950.	-16.8	-552.
	4	-28.6	-1114.	-16.9	-611.	-31.3	-1232.	-19.6	-729.
	3	-30.7	-1390.	-20.7	-797.	-33.0	-1529.	-23.0	-936.
	2	-32.5	-1683.	-24.2	-1015.	-34.4	-1838.	-26.1	-1170.
	1	-37.3	-2130.	-23.2	-1294.	-40.5	-2324.	-26.4	-1488.

Wall Displacements and Story Drifts Due to Combined Wind Forces

Wall #	Floor	Load Case 3a		Load Case 3b	
		Disp. (in)	Drift (in)	Disp. (in)	Drift (in)
1	11	0.158	0.020	-0.164	-0.021
25,50,90	10	0.138	0.020	-0.143	-0.021
1)25x8	9	0.117	0.020	-0.122	-0.021
	8	0.097	0.020	-0.101	-0.020
	7	0.078	0.019	-0.081	-0.019
	6	0.059	0.017	-0.061	-0.018
	5	0.042	0.015	-0.043	-0.016
	4	0.027	0.012	-0.028	-0.013
	3	0.015	0.009	-0.015	-0.009
	2	0.006	0.006	-0.006	-0.006
2	11	0.164	0.021	-0.158	-0.020
100,50,90	10	0.143	0.021	-0.138	-0.020
1)25x8	9	0.122	0.021	-0.117	-0.020
	8	0.101	0.020	-0.097	-0.020
	7	0.081	0.019	-0.078	-0.019
	6	0.061	0.018	-0.059	-0.017

Ex 1a - 10 story building, 2012 IBC, approx. period

	5	0.043	0.016	-0.042	-0.015
	4	0.028	0.013	-0.027	-0.012
	3	0.015	0.009	-0.015	-0.009
	2	0.006	0.006	-0.006	-0.006
3	11	0.158	0.020	-0.164	-0.021
25,13,90	10	0.138	0.020	-0.143	-0.021
1)25x8	9	0.117	0.020	-0.122	-0.021
	8	0.097	0.020	-0.101	-0.020
	7	0.078	0.019	-0.081	-0.019
	6	0.059	0.017	-0.061	-0.018
	5	0.042	0.015	-0.043	-0.016
	4	0.027	0.012	-0.028	-0.013
	3	0.015	0.009	-0.015	-0.009
	2	0.006	0.006	-0.006	-0.006
4	11	0.164	0.021	-0.158	-0.020
100,13,90	10	0.143	0.021	-0.138	-0.020
1)25x8	9	0.122	0.021	-0.117	-0.020
	8	0.101	0.020	-0.097	-0.020
	7	0.081	0.019	-0.078	-0.019
	6	0.061	0.018	-0.059	-0.017
	5	0.043	0.016	-0.042	-0.015
	4	0.028	0.013	-0.027	-0.012
	3	0.015	0.009	-0.015	-0.009
	2	0.006	0.006	-0.006	-0.006
5	11	0.156	0.020	-0.166	-0.021
0,31,90	10	0.136	0.020	-0.145	-0.021
Variable	9	0.116	0.020	-0.124	-0.021
	8	0.096	0.019	-0.102	-0.021
	7	0.077	0.018	-0.082	-0.020
	6	0.058	0.017	-0.062	-0.018
	5	0.041	0.015	-0.044	-0.016
	4	0.027	0.012	-0.028	-0.013
	3	0.015	0.009	-0.015	-0.009
	2	0.006	0.006	-0.006	-0.006
6	11	0.166	0.021	-0.156	-0.020
125,31,90	10	0.145	0.021	-0.136	-0.020
Variable	9	0.124	0.021	-0.116	-0.020
	8	0.102	0.021	-0.096	-0.019
	7	0.082	0.020	-0.077	-0.018
	6	0.062	0.018	-0.058	-0.017
	5	0.044	0.016	-0.041	-0.015
	4	0.028	0.013	-0.027	-0.012
	3	0.015	0.009	-0.015	-0.009
	2	0.006	0.006	-0.006	-0.006
7	11	0.129	0.016	0.129	0.016
13,63,0	10	0.112	0.016	0.112	0.016
1)25x8	9	0.096	0.016	0.096	0.016
	8	0.080	0.016	0.080	0.016
	7	0.065	0.015	0.065	0.015
	6	0.050	0.014	0.050	0.014
	5	0.036	0.012	0.036	0.012
	4	0.023	0.010	0.023	0.010
	3	0.013	0.008	0.013	0.008
	2	0.005	0.005	0.005	0.005
8	11	0.129	0.016	0.129	0.016
113,63,0	10	0.112	0.016	0.112	0.016
1)25x8	9	0.096	0.016	0.096	0.016
	8	0.080	0.016	0.080	0.016
	7	0.065	0.015	0.065	0.015

Ex 1a - 10 story building, 2012 IBC, approx. period

	6	0.050	0.014	0.050	0.014
	5	0.036	0.012	0.036	0.012
	4	0.023	0.010	0.023	0.010
	3	0.013	0.008	0.013	0.008
	2	0.005	0.005	0.005	0.005
9	11	0.134	0.017	0.134	0.017
13,0,0	10	0.117	0.017	0.117	0.017
2)22x8	9	0.100	0.017	0.100	0.017
	8	0.083	0.016	0.083	0.016
	7	0.067	0.016	0.067	0.016
	6	0.051	0.014	0.051	0.014
	5	0.037	0.013	0.037	0.013
	4	0.024	0.011	0.024	0.011
	3	0.013	0.008	0.013	0.008
	2	0.005	0.005	0.005	0.005
10	11	0.134	0.017	0.134	0.017
113,0,0	10	0.117	0.017	0.117	0.017
1)25x8	9	0.100	0.017	0.100	0.017
	8	0.083	0.016	0.083	0.016
	7	0.067	0.016	0.067	0.016
	6	0.051	0.014	0.051	0.014
	5	0.037	0.013	0.037	0.013
	4	0.024	0.011	0.024	0.011
	3	0.013	0.008	0.013	0.008
	2	0.005	0.005	0.005	0.005

Wall #	Floor	Load Case 4a		Load Case 4b		Load Case 4c		Load Case 4d	
		Disp. (in)	Drift (in)	Disp. (in)	Drift (in)	Disp. (in)	Drift (in)	Disp. (in)	Drift (in)
1	11	0.098	0.013	0.152	0.020	0.085	0.011	0.139	0.018
25,50,90	10	0.085	0.013	0.133	0.020	0.074	0.011	0.122	0.018
1)25x8	9	0.073	0.012	0.113	0.019	0.063	0.011	0.104	0.018
	8	0.060	0.012	0.094	0.019	0.052	0.011	0.086	0.017
	7	0.048	0.012	0.075	0.018	0.042	0.010	0.068	0.016
	6	0.037	0.011	0.057	0.017	0.032	0.009	0.052	0.015
	5	0.026	0.009	0.040	0.014	0.023	0.008	0.037	0.013
	4	0.017	0.008	0.026	0.012	0.015	0.007	0.024	0.011
	3	0.009	0.005	0.014	0.008	0.008	0.005	0.013	0.008
	2	0.004	0.004	0.006	0.006	0.003	0.003	0.005	0.005
2	11	0.144	0.019	0.090	0.011	0.157	0.020	0.102	0.013
100,50,90	10	0.126	0.019	0.078	0.011	0.137	0.020	0.089	0.013
1)25x8	9	0.107	0.018	0.067	0.011	0.116	0.020	0.076	0.013
	8	0.089	0.018	0.055	0.011	0.096	0.019	0.063	0.013
	7	0.071	0.017	0.044	0.011	0.077	0.019	0.050	0.012
	6	0.054	0.016	0.034	0.010	0.058	0.017	0.038	0.011
	5	0.038	0.014	0.024	0.009	0.041	0.015	0.027	0.010
	4	0.024	0.011	0.015	0.007	0.026	0.012	0.017	0.008
	3	0.013	0.008	0.008	0.005	0.014	0.009	0.010	0.006
	2	0.005	0.005	0.003	0.003	0.006	0.006	0.004	0.004
3	11	0.098	0.013	0.152	0.020	0.085	0.011	0.139	0.018
25,13,90	10	0.085	0.013	0.133	0.020	0.074	0.011	0.122	0.018
1)25x8	9	0.073	0.012	0.113	0.019	0.063	0.011	0.104	0.018
	8	0.060	0.012	0.094	0.019	0.052	0.011	0.086	0.017
	7	0.048	0.012	0.075	0.018	0.042	0.010	0.068	0.016
	6	0.037	0.011	0.057	0.017	0.032	0.009	0.052	0.015
	5	0.026	0.009	0.040	0.014	0.023	0.008	0.037	0.013
	4	0.017	0.008	0.026	0.012	0.015	0.007	0.024	0.011
	3	0.009	0.005	0.014	0.008	0.008	0.005	0.013	0.008
	2	0.004	0.004	0.006	0.006	0.003	0.003	0.005	0.005

Ex 1a - 10 story building, 2012 IBC, approx. period

4	11	0.144	0.019	0.090	0.011	0.157	0.020	0.102	0.013
100,13,90	10	0.126	0.019	0.078	0.011	0.137	0.020	0.089	0.013
1)25x8	9	0.107	0.018	0.067	0.011	0.116	0.020	0.076	0.013
	8	0.089	0.018	0.055	0.011	0.096	0.019	0.063	0.013
	7	0.071	0.017	0.044	0.011	0.077	0.019	0.050	0.012
	6	0.054	0.016	0.034	0.010	0.058	0.017	0.038	0.011
	5	0.038	0.014	0.024	0.009	0.041	0.015	0.027	0.010
	4	0.024	0.011	0.015	0.007	0.026	0.012	0.017	0.008
	3	0.013	0.008	0.008	0.005	0.014	0.009	0.010	0.006
	2	0.005	0.005	0.003	0.003	0.006	0.006	0.004	0.004
5	11	0.082	0.011	0.173	0.022	0.061	0.008	0.152	0.020
0,31,90	10	0.072	0.011	0.151	0.022	0.053	0.008	0.132	0.020
Variable	9	0.061	0.010	0.128	0.022	0.045	0.008	0.113	0.019
	8	0.051	0.010	0.106	0.022	0.038	0.008	0.093	0.019
	7	0.041	0.010	0.085	0.020	0.030	0.007	0.075	0.018
	6	0.031	0.009	0.064	0.019	0.023	0.007	0.057	0.016
	5	0.022	0.008	0.046	0.016	0.017	0.006	0.040	0.014
	4	0.014	0.006	0.029	0.013	0.011	0.005	0.026	0.012
	3	0.008	0.005	0.016	0.009	0.006	0.003	0.014	0.008
	2	0.003	0.003	0.007	0.007	0.002	0.002	0.006	0.006
6	11	0.160	0.021	0.069	0.009	0.181	0.023	0.090	0.012
125,31,90	10	0.139	0.021	0.060	0.009	0.157	0.023	0.078	0.012
Variable	9	0.118	0.020	0.051	0.009	0.134	0.023	0.067	0.011
	8	0.098	0.020	0.042	0.008	0.111	0.022	0.055	0.011
	7	0.078	0.019	0.034	0.008	0.088	0.021	0.044	0.011
	6	0.059	0.017	0.026	0.007	0.067	0.020	0.034	0.010
	5	0.042	0.015	0.018	0.007	0.048	0.017	0.024	0.009
	4	0.027	0.012	0.012	0.005	0.030	0.014	0.015	0.007
	3	0.015	0.009	0.007	0.004	0.017	0.010	0.008	0.005
	2	0.006	0.006	0.003	0.003	0.007	0.007	0.003	0.003
7	11	0.081	0.010	0.122	0.015	0.071	0.009	0.112	0.014
13,63,0	10	0.071	0.010	0.106	0.015	0.063	0.009	0.098	0.014
1)25x8	9	0.061	0.010	0.091	0.015	0.054	0.009	0.084	0.014
	8	0.051	0.010	0.076	0.015	0.045	0.009	0.070	0.014
	7	0.041	0.009	0.061	0.014	0.036	0.008	0.056	0.013
	6	0.031	0.009	0.046	0.013	0.028	0.008	0.043	0.012
	5	0.023	0.008	0.033	0.012	0.020	0.007	0.031	0.011
	4	0.015	0.007	0.022	0.010	0.013	0.006	0.020	0.009
	3	0.008	0.005	0.012	0.007	0.007	0.004	0.011	0.007
	2	0.003	0.003	0.005	0.005	0.003	0.003	0.004	0.004
8	11	0.081	0.010	0.122	0.015	0.071	0.009	0.112	0.014
113,63,0	10	0.071	0.010	0.106	0.015	0.063	0.009	0.098	0.014
1)25x8	9	0.061	0.010	0.091	0.015	0.054	0.009	0.084	0.014
	8	0.051	0.010	0.076	0.015	0.045	0.009	0.070	0.014
	7	0.041	0.009	0.061	0.014	0.036	0.008	0.056	0.013
	6	0.031	0.009	0.046	0.013	0.028	0.008	0.043	0.012
	5	0.023	0.008	0.033	0.012	0.020	0.007	0.031	0.011
	4	0.015	0.007	0.022	0.010	0.013	0.006	0.020	0.009
	3	0.008	0.005	0.012	0.007	0.007	0.004	0.011	0.007
	2	0.003	0.003	0.005	0.005	0.003	0.003	0.004	0.004
9	11	0.120	0.015	0.069	0.009	0.131	0.017	0.081	0.010
13,0,0	10	0.104	0.015	0.061	0.009	0.115	0.017	0.071	0.010
2)22x8	9	0.089	0.015	0.052	0.009	0.098	0.017	0.061	0.010
	8	0.074	0.015	0.044	0.008	0.081	0.016	0.051	0.010
	7	0.060	0.014	0.035	0.008	0.065	0.015	0.041	0.009
	6	0.046	0.013	0.027	0.007	0.050	0.014	0.031	0.009
	5	0.033	0.011	0.020	0.007	0.036	0.013	0.023	0.008
	4	0.021	0.010	0.013	0.006	0.023	0.010	0.015	0.007
	3	0.012	0.007	0.007	0.004	0.013	0.008	0.008	0.005

Ex 1a - 10 story building, 2012 IBC, approx. period

	2	0.005	0.005	0.003	0.003	0.005	0.005	0.003	0.003
10	11	0.120	0.015	0.069	0.009	0.131	0.017	0.081	0.010
113,0,0	10	0.104	0.015	0.061	0.009	0.115	0.017	0.071	0.010
1)25x8	9	0.089	0.015	0.052	0.009	0.098	0.017	0.061	0.010
	8	0.074	0.015	0.044	0.008	0.081	0.016	0.051	0.010
	7	0.060	0.014	0.035	0.008	0.065	0.015	0.041	0.009
	6	0.046	0.013	0.027	0.007	0.050	0.014	0.031	0.009
	5	0.033	0.011	0.020	0.007	0.036	0.013	0.023	0.008
	4	0.021	0.010	0.013	0.006	0.023	0.010	0.015	0.007
	3	0.012	0.007	0.007	0.004	0.013	0.008	0.008	0.005
	2	0.005	0.005	0.003	0.003	0.005	0.005	0.003	0.003

=====
Maximum Wall Forces and Moments for All Load Cases Due to Wind
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Wall #	Story	Max Shear (k)	O.T. Mom. (k-ft)	Shear (k)	Max O.T. Mom. (k-ft)
1 25,50,90 1)25x8	10	11.5	103.	11.5	103.
	9	18.9	273.	18.9	273.
	8	27.1	517.	27.1	517.
	7	35.0	832.	35.0	832.
	6	42.1	1211.	42.1	1211.
	5	47.9	1642.	47.9	1642.
	4	50.8	2099.	50.8	2099.
	3	47.4	2526.	47.4	2526.
	2	43.1	2914.	43.1	2914.
	1	65.1	3695.	65.1	3695.
2 100,50,90 1)25x8	10	11.5	103.	11.5	103.
	9	18.9	273.	18.9	273.
	8	27.1	517.	27.1	517.
	7	35.0	832.	35.0	832.
	6	42.1	1211.	42.1	1211.
	5	47.9	1642.	47.9	1642.
	4	50.8	2098.	50.8	2098.
	3	47.4	2525.	47.4	2525.
	2	43.1	2914.	43.1	2914.
	1	65.1	3695.	65.1	3695.
3 25,13,90 1)25x8	10	11.5	103.	11.5	103.
	9	18.9	273.	18.9	273.
	8	27.1	517.	27.1	517.
	7	35.0	832.	35.0	832.
	6	42.1	1211.	42.1	1211.
	5	47.9	1642.	47.9	1642.
	4	50.8	2099.	50.8	2099.
	3	47.4	2526.	47.4	2526.
	2	43.1	2914.	43.1	2914.
	1	65.1	3695.	65.1	3695.
4 100,13,90 1)25x8	10	11.5	103.	11.5	103.
	9	18.9	273.	18.9	273.
	8	27.1	517.	27.1	517.
	7	35.0	832.	35.0	832.
	6	42.1	1211.	42.1	1211.
	5	47.9	1642.	47.9	1642.
	4	50.8	2098.	50.8	2098.
	3	47.4	2525.	47.4	2525.
	2	43.1	2914.	43.1	2914.
	1	65.1	3695.	65.1	3695.
5	10	9.5	86.	9.5	86.

Ex 1a - 10 story building, 2012 IBC, approx. period

0,31,90	9	16.6	235.	16.6	235.
Variable	8	24.5	456.	24.5	456.
	7	32.8	751.	32.8	751.
	6	41.9	1128.	41.9	1128.
	5	53.4	1608.	53.4	1608.
	4	69.9	2237.	69.9	2237.
	3	97.8	3118.	97.8	3118.
	2	126.5	4256.	126.5	4256.
	1	106.7	5537.	106.7	5537.
6	10	9.5	86.	9.5	86.
125,31,90	9	16.6	235.	16.6	235.
Variable	8	24.5	456.	24.5	456.
	7	32.8	750.	32.8	750.
	6	41.9	1128.	41.9	1128.
	5	53.3	1608.	53.3	1608.
	4	69.9	2237.	69.9	2237.
	3	97.8	3117.	97.8	3117.
	2	126.5	4255.	126.5	4255.
	1	106.7	5536.	106.7	5536.
7	10	8.5	76.	8.5	76.
13,63,0	9	13.5	198.	13.5	198.
1)25x8	8	19.3	372.	19.3	372.
	7	25.0	597.	25.0	597.
	6	30.5	871.	30.5	871.
	5	36.0	1195.	36.0	1195.
	4	41.3	1567.	41.3	1567.
	3	46.4	1985.	46.4	1985.
	2	51.2	2445.	51.2	2445.
	1	55.4	3110.	55.4	3110.
8	10	8.5	76.	8.5	76.
113,63,0	9	13.5	198.	13.5	198.
1)25x8	8	19.3	372.	19.3	372.
	7	25.0	597.	25.0	597.
	6	30.5	871.	30.5	871.
	5	36.0	1195.	36.0	1195.
	4	41.3	1567.	41.3	1567.
	3	46.4	1985.	46.4	1985.
	2	51.2	2445.	51.2	2445.
	1	55.4	3110.	55.4	3110.
9	10	4.7	42.	4.7	42.
13,0,0	9	8.4	118.	8.4	118.
2)22x8	8	12.3	228.	12.3	228.
	7	16.0	373.	16.0	373.
	6	19.7	550.	19.7	550.
	5	23.2	759.	23.2	759.
	4	26.7	1000.	26.7	1000.
	3	30.3	1272.	30.3	1272.
	2	34.2	1580.	34.2	1580.
	1	41.0	2072.	41.0	2072.
10	10	9.0	81.	9.0	81.
113,0,0	9	14.3	210.	14.3	210.
1)25x8	8	20.3	392.	20.3	392.
	7	26.2	627.	26.2	627.
	6	31.9	915.	31.9	915.
	5	37.5	1253.	37.5	1253.
	4	42.8	1638.	42.8	1638.
	3	47.7	2067.	47.7	2067.
	2	52.1	2536.	52.1	2536.
	1	56.7	3216.	56.7	3216.

=====
 Maximum Wall Displacement and Drift for All Load Cases Due to Wind
 =====

Wall #	Floor	Max Displ. (in)	Max Drift (in)
1 25,50,90 1)25x8	11	0.215	0.028
	10	0.187	0.028
	9	0.160	0.027
	8	0.132	0.027
	7	0.106	0.025
	6	0.080	0.023
	5	0.057	0.020
	4	0.037	0.017
	3	0.020	0.012
	2	0.008	0.008
2 100,50,90 1)25x8	11	0.215	0.028
	10	0.187	0.028
	9	0.160	0.027
	8	0.132	0.027
	7	0.106	0.025
	6	0.080	0.023
	5	0.057	0.020
	4	0.037	0.017
	3	0.020	0.012
	2	0.008	0.008
3 25,13,90 1)25x8	11	0.215	0.028
	10	0.187	0.028
	9	0.160	0.027
	8	0.132	0.027
	7	0.106	0.025
	6	0.080	0.023
	5	0.057	0.020
	4	0.037	0.017
	3	0.020	0.012
	2	0.008	0.008
4 100,13,90 1)25x8	11	0.215	0.028
	10	0.187	0.028
	9	0.160	0.027
	8	0.132	0.027
	7	0.106	0.025
	6	0.080	0.023
	5	0.057	0.020
	4	0.037	0.017
	3	0.020	0.012
	2	0.008	0.008
5 0,31,90 Variable	11	0.222	0.029
	10	0.193	0.029
	9	0.165	0.028
	8	0.136	0.028
	7	0.109	0.026
	6	0.082	0.024
	5	0.058	0.021
	4	0.037	0.017
	3	0.020	0.012
	2	0.008	0.008
6 125,31,90 Variable	11	0.222	0.029
	10	0.193	0.029
	9	0.165	0.028

	8	0.136	0.028
	7	0.109	0.026
	6	0.082	0.024
	5	0.058	0.021
	4	0.037	0.017
	3	0.020	0.012
	2	0.008	0.008
7	11	0.172	0.022
13,63,0	10	0.150	0.022
1)25x8	9	0.128	0.021
	8	0.107	0.021
	7	0.086	0.020
	6	0.066	0.019
	5	0.048	0.017
	4	0.031	0.014
	3	0.017	0.010
	2	0.007	0.007
8	11	0.172	0.022
113,63,0	10	0.150	0.022
1)25x8	9	0.128	0.021
	8	0.107	0.021
	7	0.086	0.020
	6	0.066	0.019
	5	0.048	0.017
	4	0.031	0.014
	3	0.017	0.010
	2	0.007	0.007
9	11	0.178	0.023
13,0,0	10	0.156	0.023
2)22x8	9	0.133	0.022
	8	0.111	0.022
	7	0.089	0.021
	6	0.069	0.019
	5	0.049	0.017
	4	0.032	0.014
	3	0.018	0.011
	2	0.007	0.007
10	11	0.178	0.023
113,0,0	10	0.156	0.023
1)25x8	9	0.133	0.022
	8	0.111	0.022
	7	0.089	0.021
	6	0.069	0.019
	5	0.049	0.017
	4	0.032	0.014
	3	0.018	0.011
	2	0.007	0.007

 L A T E R A L A N A L Y S I S F O R S E I S M I C L O A D S

>NOTE: Seismic Forces to be used in conjunction with Load Combinations of ASCE 7-10 Chapter 2.
 >NOTE: For overturning effects reduction at soil-foundation interface, see Section 12.8.2.1 of ASCE 7.

SDC = C Sms = 0.540 Sm1 = 0.225
 I = 1.00 Sds = 0.360 Sd1 = 0.150

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Seismic Analysis in X Direction

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W = 12733.0 k T = 0.599 s (approximate)
 V = 796.4 k Cs = 0.063 (Sec. 12.8.1.3 applied)
 Ct = 0.020 x = 0.750

Floor Loads Due to Seismic in X Direction

Floor	Elev. (ft)	Force (k)	Y Location for Mass C.G.			Accum. Shear (k)	O. T. Moment (k-ft)
			-Min Ecc (ft)	No Ecc (ft)	+Min Ecc (ft)		
11	93.00	91.6	28.12	31.25	34.38	92.	0.
10	84.00	140.0	28.12	31.25	34.38	232.	824.
9	75.00	124.3	28.12	31.25	34.38	356.	2909.
8	66.00	108.7	28.12	31.25	34.38	465.	6111.
7	57.00	93.2	28.12	31.25	34.38	558.	10292.
6	48.00	77.8	28.12	31.25	34.38	635.	15311.
5	39.00	62.6	28.12	31.25	34.38	698.	21031.
4	30.00	47.5	28.12	31.25	34.38	746.	27313.
3	21.00	32.7	28.12	31.25	34.38	778.	34023.
2	12.00	18.2	28.12	31.25	34.38	796.	41028.
1	0.00	0.0	28.12	31.25	34.38	796.	50585.

Wall Forces Due to Seismic in X Direction

Wall #	Story	With -Min. Ecc.		Force At Mass C.G.		With +Min. Ecc.	
		Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)
1 25,50,90 1)25x8	10	1.9	17.	1.2	11.	0.5	4.
	9	3.7	51.	2.0	29.	0.3	6.
	8	5.4	100.	2.8	54.	0.2	8.
	7	6.9	162.	3.6	86.	0.2	10.
	6	8.1	235.	4.1	123.	0.2	11.
	5	8.7	314.	4.4	163.	0.2	13.
	4	8.4	390.	4.3	202.	0.1	14.
	3	6.5	448.	3.2	231.	-0.1	13.
	2	4.4	488.	2.0	249.	-0.4	10.
	1	7.0	572.	2.9	283.	-1.3	-5.
2 100,50,90 1)25x8	10	-1.9	-17.	-1.2	-11.	-0.5	-4.
	9	-3.7	-51.	-2.0	-29.	-0.3	-6.
	8	-5.4	-100.	-2.8	-54.	-0.2	-8.
	7	-6.9	-162.	-3.6	-86.	-0.2	-10.
	6	-8.1	-235.	-4.1	-123.	-0.2	-11.
	5	-8.7	-314.	-4.4	-163.	-0.2	-13.
	4	-8.4	-390.	-4.3	-202.	-0.1	-14.
	3	-6.5	-448.	-3.2	-231.	0.1	-13.
	2	-4.4	-488.	-2.0	-249.	0.4	-10.
	1	-7.0	-572.	-2.9	-283.	1.3	5.
3 25,13,90 1)25x8	10	1.9	17.	1.2	11.	0.5	4.
	9	3.7	51.	2.0	29.	0.3	6.
	8	5.4	100.	2.8	54.	0.2	8.
	7	6.9	162.	3.6	86.	0.2	10.
	6	8.1	235.	4.1	123.	0.2	11.
	5	8.7	314.	4.4	163.	0.2	13.
	4	8.4	390.	4.3	202.	0.1	14.
	3	6.5	448.	3.2	231.	-0.1	13.
	2	4.4	488.	2.0	249.	-0.4	10.
	1	7.0	572.	2.9	283.	-1.3	-5.
4 100,13,90	10	-1.9	-17.	-1.2	-11.	-0.5	-4.
	9	-3.7	-51.	-2.0	-29.	-0.3	-6.

1)25x8	8	-5.4	-100.	-2.8	-54.	-0.2	-8.
	7	-6.9	-162.	-3.6	-86.	-0.2	-10.
	6	-8.1	-235.	-4.1	-123.	-0.2	-11.
	5	-8.7	-314.	-4.4	-163.	-0.2	-13.
	4	-8.4	-390.	-4.3	-202.	-0.1	-14.
	3	-6.5	-448.	-3.2	-231.	0.1	-13.
	2	-4.4	-488.	-2.0	-249.	0.4	-10.
	1	-7.0	-572.	-2.9	-283.	1.3	5.
5	10	2.5	22.	1.6	14.	0.7	6.
0,31,90	9	5.2	69.	2.8	39.	0.3	9.
Variable	8	7.9	140.	4.1	76.	0.3	11.
	7	10.3	233.	5.3	123.	0.3	14.
	6	12.8	348.	6.5	182.	0.3	16.
	5	15.5	487.	7.9	253.	0.3	19.
	4	19.0	658.	9.6	340.	0.3	22.
	3	24.8	882.	12.5	452.	0.2	23.
	2	29.3	1145.	14.5	583.	-0.4	20.
	1	21.0	1398.	9.3	694.	-2.5	-11.
6	10	-2.5	-22.	-1.6	-14.	-0.7	-6.
125,31,90	9	-5.2	-69.	-2.8	-39.	-0.3	-9.
Variable	8	-7.8	-140.	-4.1	-76.	-0.3	-11.
	7	-10.3	-233.	-5.3	-123.	-0.3	-14.
	6	-12.8	-348.	-6.5	-182.	-0.3	-16.
	5	-15.5	-487.	-7.9	-253.	-0.3	-19.
	4	-19.0	-658.	-9.6	-340.	-0.3	-22.
	3	-24.8	-882.	-12.5	-452.	-0.2	-23.
	2	-29.3	-1145.	-14.5	-583.	0.4	-20.
	1	-21.0	-1398.	-9.3	-694.	2.5	11.
7	10	-25.4	-229.	-25.9	-233.	-26.4	-238.
13,63,0	9	-61.8	-785.	-63.1	-801.	-64.3	-817.
1)25x8	8	-94.4	-1634.	-96.4	-1668.	-98.4	-1702.
	7	-123.2	-2743.	-125.7	-2800.	-128.2	-2856.
	6	-148.0	-4075.	-150.9	-4158.	-153.9	-4241.
	5	-168.9	-5595.	-172.1	-5707.	-175.3	-5819.
	4	-186.2	-7270.	-189.3	-7411.	-192.4	-7551.
	3	-200.3	-9073.	-202.7	-9235.	-205.2	-9397.
	2	-209.7	-10960.	-211.4	-11138.	-213.2	-11316.
	1	-208.6	-13464.	-211.8	-13680.	-215.0	-13897.
8	10	-25.4	-229.	-25.9	-233.	-26.4	-238.
113,63,0	9	-61.8	-785.	-63.1	-801.	-64.3	-817.
1)25x8	8	-94.4	-1634.	-96.4	-1668.	-98.4	-1702.
	7	-123.2	-2743.	-125.7	-2800.	-128.2	-2856.
	6	-148.0	-4075.	-150.9	-4158.	-153.9	-4241.
	5	-168.9	-5595.	-172.1	-5707.	-175.3	-5819.
	4	-186.2	-7270.	-189.3	-7411.	-192.4	-7551.
	3	-200.3	-9073.	-202.7	-9235.	-205.2	-9397.
	2	-209.7	-10960.	-211.4	-11138.	-213.2	-11316.
	1	-208.6	-13464.	-211.8	-13680.	-215.0	-13897.
9	10	-12.2	-110.	-11.9	-107.	-11.6	-104.
13,0,0	9	-40.0	-470.	-39.1	-459.	-38.1	-447.
2)22x8	8	-63.5	-1042.	-62.0	-1017.	-60.5	-992.
	7	-83.4	-1792.	-81.5	-1750.	-79.5	-1708.
	6	-100.3	-2695.	-98.0	-2632.	-95.7	-2569.
	5	-114.3	-3724.	-111.8	-3638.	-109.3	-3553.
	4	-125.5	-4853.	-123.1	-4746.	-120.6	-4638.
	3	-133.9	-6058.	-132.1	-5934.	-130.2	-5810.
	2	-141.9	-7335.	-140.6	-7199.	-139.2	-7063.
	1	-158.8	-9241.	-156.1	-9073.	-153.4	-8904.
10	10	-28.6	-258.	-27.9	-251.	-27.2	-245.

Ex 1a - 10 story building, 2012 IBC, approx. period

113,0,0	9	-68.0	-869.	-66.4	-849.	-64.8	-828.
1)25x8	8	-103.5	-1801.	-101.1	-1758.	-98.7	-1716.
	7	-134.8	-3014.	-131.6	-2943.	-128.5	-2872.
	6	-161.5	-4467.	-157.8	-4364.	-154.2	-4260.
	5	-183.4	-6118.	-179.5	-5979.	-175.6	-5840.
	4	-200.2	-7920.	-196.4	-7747.	-192.6	-7574.
	3	-211.1	-9820.	-208.1	-9619.	-205.0	-9419.
	2	-217.0	-11773.	-214.8	-11553.	-212.6	-11333.
	1	-220.3	-14417.	-216.6	-14152.	-212.9	-13888.

Wall Displacements and Story Drifts Due to Seismic in X Direction

Wall #	Floor	With -Min. Disp. (in)	Ecc. Drift (in)	Force At Mass C.G. Disp. (in)	Drift (in)	With +Min. Disp. (in)	Ecc. Drift (in)
1	11	-0.053	-0.007	-0.027	-0.004	-0.001	0.000
25,50,90	10	-0.046	-0.007	-0.024	-0.004	-0.001	0.000
1)25x8	9	-0.039	-0.007	-0.020	-0.004	-0.001	0.000
	8	-0.032	-0.007	-0.016	-0.003	-0.001	0.000
	7	-0.025	-0.006	-0.013	-0.003	0.000	0.000
	6	-0.019	-0.006	-0.010	-0.003	0.000	0.000
	5	-0.013	-0.005	-0.007	-0.003	0.000	0.000
	4	-0.008	-0.004	-0.004	-0.002	0.000	0.000
	3	-0.004	-0.003	-0.002	-0.001	0.000	0.000
	2	-0.002	-0.002	-0.001	-0.001	0.000	0.000
2	11	0.053	0.007	0.027	0.004	0.001	0.000
100,50,90	10	0.046	0.007	0.024	0.004	0.001	0.000
1)25x8	9	0.039	0.007	0.020	0.004	0.001	0.000
	8	0.032	0.007	0.016	0.003	0.001	0.000
	7	0.025	0.006	0.013	0.003	0.000	0.000
	6	0.019	0.006	0.010	0.003	0.000	0.000
	5	0.013	0.005	0.007	0.003	0.000	0.000
	4	0.008	0.004	0.004	0.002	0.000	0.000
	3	0.004	0.003	0.002	0.001	0.000	0.000
	2	0.002	0.002	0.001	0.001	0.000	0.000
3	11	-0.053	-0.007	-0.027	-0.004	-0.001	0.000
25,13,90	10	-0.046	-0.007	-0.024	-0.004	-0.001	0.000
1)25x8	9	-0.039	-0.007	-0.020	-0.004	-0.001	0.000
	8	-0.032	-0.007	-0.016	-0.003	-0.001	0.000
	7	-0.025	-0.006	-0.013	-0.003	0.000	0.000
	6	-0.019	-0.006	-0.010	-0.003	0.000	0.000
	5	-0.013	-0.005	-0.007	-0.003	0.000	0.000
	4	-0.008	-0.004	-0.004	-0.002	0.000	0.000
	3	-0.004	-0.003	-0.002	-0.001	0.000	0.000
	2	-0.002	-0.002	-0.001	-0.001	0.000	0.000
4	11	0.053	0.007	0.027	0.004	0.001	0.000
100,13,90	10	0.046	0.007	0.024	0.004	0.001	0.000
1)25x8	9	0.039	0.007	0.020	0.004	0.001	0.000
	8	0.032	0.007	0.016	0.003	0.001	0.000
	7	0.025	0.006	0.013	0.003	0.000	0.000
	6	0.019	0.006	0.010	0.003	0.000	0.000
	5	0.013	0.005	0.007	0.003	0.000	0.000
	4	0.008	0.004	0.004	0.002	0.000	0.000
	3	0.004	0.003	0.002	0.001	0.000	0.000
	2	0.002	0.002	0.001	0.001	0.000	0.000
5	11	-0.088	-0.012	-0.045	-0.006	-0.002	0.000
0,31,90	10	-0.077	-0.012	-0.039	-0.006	-0.002	0.000
Variable	9	-0.065	-0.012	-0.033	-0.006	-0.001	0.000
	8	-0.053	-0.011	-0.027	-0.006	-0.001	0.000
	7	-0.042	-0.011	-0.021	-0.005	-0.001	0.000

Ex 1a - 10 story building, 2012 IBC, approx. period

	6	-0.032	-0.010	-0.016	-0.005	0.000	0.000
	5	-0.022	-0.008	-0.011	-0.004	0.000	0.000
	4	-0.014	-0.006	-0.007	-0.003	0.000	0.000
	3	-0.007	-0.004	-0.004	-0.002	0.000	0.000
	2	-0.003	-0.003	-0.001	-0.001	0.000	0.000
6	11	0.088	0.012	0.045	0.006	0.002	0.000
125,31,90	10	0.077	0.012	0.039	0.006	0.002	0.000
Variable	9	0.065	0.012	0.033	0.006	0.001	0.000
	8	0.053	0.011	0.027	0.006	0.001	0.000
	7	0.042	0.011	0.021	0.005	0.001	0.000
	6	0.032	0.010	0.016	0.005	0.000	0.000
	5	0.022	0.008	0.011	0.004	0.000	0.000
	4	0.014	0.006	0.007	0.003	0.000	0.000
	3	0.007	0.004	0.004	0.002	0.000	0.000
	2	0.003	0.003	0.001	0.001	0.000	0.000
7	11	1.102	0.139	1.121	0.141	1.141	0.144
13,63,0	10	0.963	0.140	0.980	0.142	0.997	0.145
1)25x8	9	0.824	0.139	0.838	0.141	0.852	0.144
	8	0.685	0.136	0.697	0.138	0.708	0.141
	7	0.549	0.130	0.558	0.132	0.568	0.134
	6	0.419	0.120	0.426	0.122	0.433	0.124
	5	0.300	0.106	0.304	0.108	0.309	0.110
	4	0.194	0.088	0.197	0.089	0.200	0.091
	3	0.106	0.065	0.107	0.066	0.109	0.067
	2	0.041	0.041	0.042	0.042	0.042	0.042
8	11	1.102	0.139	1.121	0.141	1.141	0.144
113,63,0	10	0.963	0.140	0.980	0.142	0.997	0.145
1)25x8	9	0.824	0.139	0.838	0.141	0.852	0.144
	8	0.685	0.136	0.697	0.138	0.708	0.141
	7	0.549	0.130	0.558	0.132	0.568	0.134
	6	0.419	0.120	0.426	0.122	0.433	0.124
	5	0.300	0.106	0.304	0.108	0.309	0.110
	4	0.194	0.088	0.197	0.089	0.200	0.091
	3	0.106	0.065	0.107	0.066	0.109	0.067
	2	0.041	0.041	0.042	0.042	0.042	0.042
9	11	1.190	0.150	1.167	0.147	1.143	0.144
13,0,0	10	1.040	0.151	1.019	0.148	0.999	0.145
2)22x8	9	0.889	0.150	0.871	0.147	0.854	0.144
	8	0.738	0.147	0.724	0.144	0.709	0.141
	7	0.591	0.140	0.580	0.137	0.568	0.135
	6	0.451	0.130	0.442	0.127	0.434	0.124
	5	0.321	0.114	0.315	0.112	0.309	0.110
	4	0.207	0.094	0.203	0.092	0.200	0.091
	3	0.113	0.069	0.111	0.068	0.109	0.067
	2	0.044	0.044	0.043	0.043	0.042	0.042
10	11	1.190	0.150	1.167	0.147	1.143	0.144
113,0,0	10	1.040	0.151	1.019	0.148	0.999	0.145
1)25x8	9	0.889	0.150	0.871	0.147	0.854	0.144
	8	0.738	0.147	0.724	0.144	0.709	0.141
	7	0.591	0.140	0.580	0.137	0.568	0.135
	6	0.451	0.130	0.442	0.127	0.434	0.124
	5	0.321	0.114	0.315	0.112	0.309	0.110
	4	0.207	0.094	0.203	0.092	0.200	0.091
	3	0.113	0.069	0.111	0.068	0.109	0.067
	2	0.044	0.044	0.043	0.043	0.042	0.042

Story Drift Ratios Due to Seismic in X Direction

 With -Min. Ecc. Force At Mass C.G. With +Min. Ecc.
 Story Elastic Modified Elastic Modified Elastic Modified

10	0.001339	0.005355	0.001336	0.005344	0.001333	0.005333
9	0.001347	0.005387	0.001344	0.005376	0.001341	0.005365
8	0.001339	0.005357	0.001337	0.005346	0.001334	0.005335
7	0.001309	0.005236	0.001306	0.005226	0.001304	0.005215
6	0.001249	0.004997	0.001247	0.004987	0.001244	0.004977
5	0.001155	0.004619	0.001152	0.004610	0.001150	0.004601
4	0.001020	0.004081	0.001018	0.004074	0.001016	0.004066
3	0.000843	0.003371	0.000841	0.003365	0.000840	0.003358
2	0.000619	0.002475	0.000618	0.002471	0.000617	0.002467
1	0.000295	0.001180	0.000295	0.001178	0.000294	0.001176

>NOTE: Displacements and drifts of each wall are based on ASCE Eq. 12.8-15 which magnifies computed elastic deflections by Cd/Ie = 4.00.
 >NOTE: Calculated story drifts are based on floor's c.g. of mass.

Summary of Max. Story Drift (in) at Building Boundaries for Seismic Force in X Direction. Ax = 1.0

Story	(y=0)	(y=Y)	Avg Y	Max/Avg
10	0.150	0.144	0.145	1.04
9	0.151	0.145	0.145	1.04
8	0.150	0.144	0.145	1.04
7	0.147	0.141	0.141	1.04
6	0.140	0.134	0.135	1.04
5	0.130	0.124	0.125	1.04
4	0.114	0.110	0.110	1.04
3	0.094	0.091	0.091	1.04
2	0.069	0.067	0.067	1.03
1	0.044	0.042	0.042	1.03

Seismic Analysis in Y Direction

W = 12733.0 k T = 0.599 s (approximate)
 V = 796.4 k Cs = 0.063 (Sec. 12.8.1.3 applied)
 Ct = 0.020 x = 0.750

Floor Loads Due to Seismic in Y Direction

Floor	Elev. (ft)	Force (k)	X Location for Mass C.G.			Accum. Shear (k)	O. T. Moment (k-ft)
			-Min Ecc (ft)	No Ecc (ft)	+Min Ecc (ft)		
11	93.00	91.6	56.25	62.50	68.75	92.	0.
10	84.00	140.0	56.25	62.50	68.75	232.	824.
9	75.00	124.3	56.25	62.50	68.75	356.	2909.
8	66.00	108.7	56.25	62.50	68.75	465.	6111.
7	57.00	93.2	56.25	62.50	68.75	558.	10292.
6	48.00	77.8	56.25	62.50	68.75	635.	15311.
5	39.00	62.6	56.25	62.50	68.75	698.	21031.
4	30.00	47.5	56.25	62.50	68.75	746.	27313.
3	21.00	32.7	56.25	62.50	68.75	778.	34023.
2	12.00	18.2	56.25	62.50	68.75	796.	41028.
1	0.00	0.0	56.25	62.50	68.75	796.	50585.

Wall Forces Due to Seismic in Y Direction

Wall #	Story	With -Min. Ecc.		Force At Mass C.G.		With +Min. Ecc.	
		Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)	Shear (k)	O.T. Mom. (k-ft)
1	10	-18.2	-164.	-16.7	-150.	-15.3	-137.
25,50,90	9	-44.2	-562.	-40.8	-517.	-37.3	-473.
1)25x8	8	-67.3	-1168.	-62.1	-1076.	-56.8	-984.
	7	-87.0	-1950.	-80.2	-1798.	-73.4	-1645.

Ex 1a - 10 story building, 2012 IBC, approx. period

	6	-102.4	-2872.	-94.5	-2648.	-86.6	-2425.
	5	-112.1	-3881.	-103.6	-3581.	-95.0	-3280.
	4	-112.8	-4896.	-104.4	-4521.	-96.1	-4145.
	3	-97.0	-5769.	-90.5	-5335.	-83.9	-4900.
	2	-79.1	-6481.	-74.4	-6004.	-69.6	-5527.
	1	-116.2	-7875.	-107.9	-7299.	-99.7	-6723.
2	10	-15.3	-137.	-16.7	-150.	-18.2	-164.
100,50,90	9	-37.3	-473.	-40.8	-517.	-44.2	-562.
1)25x8	8	-56.8	-984.	-62.1	-1076.	-67.3	-1167.
	7	-73.4	-1645.	-80.2	-1798.	-87.0	-1950.
	6	-86.6	-2424.	-94.5	-2648.	-102.4	-2872.
	5	-95.0	-3280.	-103.6	-3580.	-112.1	-3881.
	4	-96.1	-4145.	-104.4	-4521.	-112.8	-4896.
	3	-83.9	-4900.	-90.5	-5335.	-97.0	-5769.
	2	-69.6	-5527.	-74.4	-6004.	-79.1	-6481.
	1	-99.7	-6723.	-107.9	-7299.	-116.2	-7875.
3	10	-18.2	-164.	-16.7	-150.	-15.3	-137.
25,13,90	9	-44.2	-562.	-40.8	-517.	-37.3	-473.
1)25x8	8	-67.3	-1168.	-62.1	-1076.	-56.8	-984.
	7	-87.0	-1950.	-80.2	-1798.	-73.4	-1645.
	6	-102.4	-2872.	-94.5	-2648.	-86.6	-2425.
	5	-112.1	-3881.	-103.6	-3581.	-95.0	-3280.
	4	-112.8	-4896.	-104.4	-4521.	-96.1	-4145.
	3	-97.0	-5769.	-90.5	-5335.	-83.9	-4900.
	2	-79.1	-6481.	-74.4	-6004.	-69.6	-5527.
	1	-116.2	-7875.	-107.9	-7299.	-99.7	-6723.
4	10	-15.3	-137.	-16.7	-150.	-18.2	-164.
100,13,90	9	-37.3	-473.	-40.8	-517.	-44.2	-562.
1)25x8	8	-56.8	-984.	-62.1	-1076.	-67.3	-1167.
	7	-73.4	-1645.	-80.2	-1798.	-87.0	-1950.
	6	-86.6	-2424.	-94.5	-2648.	-102.4	-2872.
	5	-95.0	-3280.	-103.6	-3580.	-112.1	-3881.
	4	-96.1	-4145.	-104.4	-4521.	-112.8	-4896.
	3	-83.9	-4900.	-90.5	-5335.	-97.0	-5769.
	2	-69.6	-5527.	-74.4	-6004.	-79.1	-6481.
	1	-99.7	-6723.	-107.9	-7299.	-116.2	-7875.
5	10	-14.2	-128.	-12.4	-111.	-10.6	-95.
0,31,90	9	-39.1	-480.	-34.3	-420.	-29.4	-360.
Variable	8	-61.4	-1032.	-53.8	-904.	-46.2	-776.
	7	-81.9	-1770.	-71.9	-1551.	-61.8	-1332.
	6	-102.3	-2691.	-89.8	-2359.	-77.3	-2028.
	5	-125.7	-3822.	-110.6	-3354.	-95.4	-2887.
	4	-158.8	-5251.	-140.1	-4615.	-121.5	-3980.
	3	-216.5	-7199.	-191.9	-6342.	-167.3	-5485.
	2	-270.1	-9630.	-240.4	-8506.	-210.7	-7382.
	1	-205.9	-12100.	-182.3	-10694.	-158.8	-9288.
6	10	-10.6	-95.	-12.4	-111.	-14.2	-128.
125,31,90	9	-29.4	-360.	-34.3	-420.	-39.1	-480.
Variable	8	-46.2	-776.	-53.8	-904.	-61.4	-1032.
	7	-61.8	-1332.	-71.9	-1551.	-81.9	-1770.
	6	-77.3	-2028.	-89.8	-2359.	-102.3	-2690.
	5	-95.4	-2887.	-110.6	-3354.	-125.7	-3822.
	4	-121.5	-3980.	-140.1	-4615.	-158.8	-5251.
	3	-167.3	-5485.	-191.9	-6342.	-216.5	-7199.
	2	-210.7	-7382.	-240.4	-8506.	-270.1	-9630.
	1	-158.8	-9288.	-182.3	-10694.	-205.9	-12100.
7	10	-1.0	-9.	0.0	0.	1.0	9.
13,63,0	9	-2.6	-32.	0.0	0.	2.6	32.
1)25x8	8	-3.9	-68.	0.0	0.	3.9	67.

	7	-5.1	-113.	0.0	0.	5.1	113.
	6	-5.9	-166.	0.0	0.	5.9	166.
	5	-6.4	-224.	0.0	0.	6.4	224.
	4	-6.2	-280.	0.0	0.	6.2	280.
	3	-4.9	-324.	0.0	0.	4.9	324.
	2	-3.5	-356.	0.0	0.	3.5	356.
	1	-6.4	-432.	0.0	0.	6.4	432.
8	10	-1.0	-9.	0.0	0.	1.0	9.
113,63,0	9	-2.6	-32.	0.0	0.	2.6	32.
1)25x8	8	-3.9	-68.	0.0	0.	3.9	67.
	7	-5.1	-113.	0.0	0.	5.1	113.
	6	-5.9	-166.	0.0	0.	5.9	166.
	5	-6.4	-224.	0.0	0.	6.4	224.
	4	-6.2	-280.	0.0	0.	6.2	280.
	3	-4.9	-324.	0.0	0.	4.9	324.
	2	-3.5	-356.	0.0	0.	3.5	356.
	1	-6.4	-432.	0.0	0.	6.4	432.
9	10	0.6	6.	0.0	0.	-0.6	-6.
13,0,0	9	1.9	23.	0.0	0.	-1.9	-23.
2)22x8	8	3.0	50.	0.0	0.	-3.0	-50.
	7	3.9	85.	0.0	0.	-3.9	-85.
	6	4.6	126.	0.0	0.	-4.6	-126.
	5	5.0	171.	0.0	0.	-5.0	-171.
	4	4.9	214.	0.0	0.	-4.9	-214.
	3	3.7	248.	0.0	0.	-3.7	-248.
	2	2.6	272.	0.0	0.	-2.6	-272.
	1	5.4	336.	0.0	0.	-5.4	-336.
10	10	1.4	13.	0.0	0.	-1.4	-13.
113,0,0	9	3.2	42.	0.0	0.	-3.2	-42.
1)25x8	8	4.8	85.	0.0	0.	-4.8	-85.
	7	6.2	141.	0.0	0.	-6.2	-141.
	6	7.3	207.	0.0	0.	-7.3	-207.
	5	7.8	277.	0.0	0.	-7.8	-277.
	4	7.6	346.	0.0	0.	-7.6	-346.
	3	6.0	400.	0.0	0.	-6.0	-400.
	2	4.4	439.	0.0	0.	-4.4	-439.
	1	7.4	528.	0.0	0.	-7.4	-528.

Wall Displacements and Story Drifts Due to Seismic in Y Direction

Wall #	Floor	With -Min. Ecc.		Force At Mass C.G.		With +Min. Ecc.	
		Disp. (in)	Drift (in)	Disp. (in)	Drift (in)	Disp. (in)	Drift (in)
1	11	0.689	0.089	0.638	0.082	0.586	0.076
25,50,90	10	0.600	0.090	0.555	0.083	0.511	0.076
1)25x8	9	0.511	0.089	0.473	0.082	0.434	0.076
	8	0.422	0.087	0.390	0.080	0.359	0.074
	7	0.335	0.082	0.310	0.076	0.285	0.070
	6	0.253	0.075	0.234	0.070	0.215	0.064
	5	0.177	0.065	0.164	0.060	0.151	0.056
	4	0.112	0.052	0.104	0.048	0.096	0.044
	3	0.060	0.036	0.056	0.034	0.051	0.031
	2	0.024	0.024	0.022	0.022	0.020	0.020
2	11	0.586	0.076	0.638	0.082	0.689	0.089
100,50,90	10	0.510	0.076	0.555	0.083	0.600	0.090
1)25x8	9	0.434	0.076	0.473	0.082	0.511	0.089
	8	0.359	0.074	0.390	0.080	0.422	0.087
	7	0.285	0.070	0.310	0.076	0.335	0.082
	6	0.215	0.064	0.234	0.070	0.253	0.075
	5	0.151	0.056	0.164	0.060	0.177	0.065

Ex 1a - 10 story building, 2012 IBC, approx. period

	4	0.096	0.044	0.104	0.048	0.112	0.052
	3	0.051	0.031	0.056	0.034	0.060	0.036
	2	0.020	0.020	0.022	0.022	0.024	0.024
3	11	0.689	0.089	0.638	0.082	0.586	0.076
25,13,90	10	0.600	0.090	0.555	0.083	0.511	0.076
1)25x8	9	0.511	0.089	0.473	0.082	0.434	0.076
	8	0.422	0.087	0.390	0.080	0.359	0.074
	7	0.335	0.082	0.310	0.076	0.285	0.070
	6	0.253	0.075	0.234	0.070	0.215	0.064
	5	0.177	0.065	0.164	0.060	0.151	0.056
	4	0.112	0.052	0.104	0.048	0.096	0.044
	3	0.060	0.036	0.056	0.034	0.051	0.031
	2	0.024	0.024	0.022	0.022	0.020	0.020
4	11	0.586	0.076	0.638	0.082	0.689	0.089
100,13,90	10	0.510	0.076	0.555	0.083	0.600	0.090
1)25x8	9	0.434	0.076	0.473	0.082	0.511	0.089
	8	0.359	0.074	0.390	0.080	0.422	0.087
	7	0.285	0.070	0.310	0.076	0.335	0.082
	6	0.215	0.064	0.234	0.070	0.253	0.075
	5	0.151	0.056	0.164	0.060	0.177	0.065
	4	0.096	0.044	0.104	0.048	0.112	0.052
	3	0.051	0.031	0.056	0.034	0.060	0.036
	2	0.020	0.020	0.022	0.022	0.024	0.024
5	11	0.724	0.093	0.638	0.082	0.552	0.071
0,31,90	10	0.630	0.094	0.555	0.083	0.481	0.072
Variable	9	0.536	0.094	0.473	0.082	0.409	0.071
	8	0.443	0.091	0.390	0.080	0.338	0.069
	7	0.352	0.086	0.310	0.076	0.269	0.066
	6	0.265	0.079	0.234	0.070	0.203	0.060
	5	0.186	0.069	0.164	0.060	0.143	0.052
	4	0.117	0.055	0.104	0.048	0.090	0.042
	3	0.063	0.038	0.056	0.034	0.048	0.029
	2	0.025	0.025	0.022	0.022	0.019	0.019
6	11	0.552	0.071	0.638	0.082	0.724	0.093
125,31,90	10	0.481	0.072	0.555	0.083	0.630	0.094
Variable	9	0.409	0.071	0.473	0.082	0.536	0.094
	8	0.338	0.069	0.390	0.080	0.443	0.091
	7	0.269	0.066	0.310	0.076	0.352	0.086
	6	0.203	0.060	0.234	0.070	0.265	0.079
	5	0.143	0.052	0.164	0.060	0.186	0.069
	4	0.090	0.042	0.104	0.048	0.117	0.055
	3	0.048	0.029	0.056	0.034	0.063	0.038
	2	0.019	0.019	0.022	0.022	0.025	0.025
7	11	0.039	0.005	0.000	0.000	-0.039	-0.005
13,63,0	10	0.034	0.005	0.000	0.000	-0.034	-0.005
1)25x8	9	0.029	0.005	0.000	0.000	-0.029	-0.005
	8	0.023	0.005	0.000	0.000	-0.023	-0.005
	7	0.019	0.005	0.000	0.000	-0.019	-0.005
	6	0.014	0.004	0.000	0.000	-0.014	-0.004
	5	0.010	0.004	0.000	0.000	-0.010	-0.004
	4	0.006	0.003	0.000	0.000	-0.006	-0.003
	3	0.003	0.002	0.000	0.000	-0.003	-0.002
	2	0.001	0.001	0.000	0.000	-0.001	-0.001
8	11	0.039	0.005	0.000	0.000	-0.039	-0.005
113,63,0	10	0.034	0.005	0.000	0.000	-0.034	-0.005
1)25x8	9	0.029	0.005	0.000	0.000	-0.029	-0.005
	8	0.023	0.005	0.000	0.000	-0.023	-0.005
	7	0.019	0.005	0.000	0.000	-0.019	-0.005
	6	0.014	0.004	0.000	0.000	-0.014	-0.004

Ex 1a - 10 story building, 2012 IBC, approx. period

	5	0.010	0.004	0.000	0.000	-0.010	-0.004
	4	0.006	0.003	0.000	0.000	-0.006	-0.003
	3	0.003	0.002	0.000	0.000	-0.003	-0.002
	2	0.001	0.001	0.000	0.000	-0.001	-0.001
9	11	-0.048	-0.006	0.000	0.000	0.048	0.006
13,0,0	10	-0.041	-0.006	0.000	0.000	0.041	0.006
2)22x8	9	-0.035	-0.006	0.000	0.000	0.035	0.006
	8	-0.029	-0.006	0.000	0.000	0.029	0.006
	7	-0.023	-0.006	0.000	0.000	0.023	0.006
	6	-0.017	-0.005	0.000	0.000	0.017	0.005
	5	-0.012	-0.004	0.000	0.000	0.012	0.004
	4	-0.008	-0.004	0.000	0.000	0.008	0.004
	3	-0.004	-0.002	0.000	0.000	0.004	0.002
	2	-0.002	-0.002	0.000	0.000	0.002	0.002
10	11	-0.048	-0.006	0.000	0.000	0.048	0.006
113,0,0	10	-0.041	-0.006	0.000	0.000	0.041	0.006
1)25x8	9	-0.035	-0.006	0.000	0.000	0.035	0.006
	8	-0.029	-0.006	0.000	0.000	0.029	0.006
	7	-0.023	-0.006	0.000	0.000	0.023	0.006
	6	-0.017	-0.005	0.000	0.000	0.017	0.005
	5	-0.012	-0.004	0.000	0.000	0.012	0.004
	4	-0.008	-0.004	0.000	0.000	0.008	0.004
	3	-0.004	-0.002	0.000	0.000	0.004	0.002
	2	-0.002	-0.002	0.000	0.000	0.002	0.002

Story Drift Ratios Due to Seismic in Y Direction

Story	With -Min. Ecc.		Force At Mass C.G.		With +Min. Ecc.	
	Elastic	Modified	Elastic	Modified	Elastic	Modified
10	0.000762	0.003047	0.000762	0.003047	0.000762	0.003047
9	0.000767	0.003068	0.000767	0.003068	0.000767	0.003068
8	0.000762	0.003049	0.000762	0.003049	0.000762	0.003049
7	0.000743	0.002972	0.000743	0.002972	0.000743	0.002972
6	0.000705	0.002820	0.000705	0.002820	0.000705	0.002820
5	0.000645	0.002580	0.000645	0.002580	0.000645	0.002580
4	0.000559	0.002237	0.000559	0.002237	0.000559	0.002237
3	0.000446	0.001783	0.000446	0.001783	0.000446	0.001783
2	0.000312	0.001248	0.000312	0.001248	0.000312	0.001248
1	0.000153	0.000612	0.000153	0.000612	0.000153	0.000612

>NOTE: Displacements and drifts of each wall are based on ASCE Eq. 12.8-15 which magnifies computed elastic deflections by Cd/Ie = 4.00.

>NOTE: Calculated story drifts are based on floor's c.g. of mass.

Summary of Max. Story Drift (in) at Building Boundaries for Seismic Force in Y Direction. Ax = 1.0

Story	(x=0)	(x=X)	Avg X	Max/Avg
10	0.093	0.093	0.082	1.14
9	0.094	0.094	0.083	1.14
8	0.094	0.094	0.082	1.14
7	0.091	0.091	0.080	1.14
6	0.086	0.086	0.076	1.14
5	0.079	0.079	0.070	1.14
4	0.069	0.069	0.060	1.13
3	0.055	0.055	0.048	1.13
2	0.038	0.038	0.034	1.13
1	0.025	0.025	0.022	1.13

Summary of Seismic Wall Loads for All Directions, All Cases

Maximum Wall Forces and Moments Due to Seismic

Wall #	Story	Max Shear (k)	O.T. Mom. (k-ft)	Shear (k)	Max O.T. Mom. (k-ft)
1 25,50,90 1)25x8	10	18.2	164.	18.2	164.
	9	44.2	562.	44.2	562.
	8	67.3	1168.	67.3	1168.
	7	87.0	1950.	87.0	1950.
	6	102.4	2872.	102.4	2872.
	5	112.1	3881.	112.1	3881.
	4	112.8	4896.	112.8	4896.
	3	97.0	5769.	97.0	5769.
	2	79.1	6481.	79.1	6481.
	1	116.2	7875.	116.2	7875.
2 100,50,90 1)25x8	10	18.2	164.	18.2	164.
	9	44.2	562.	44.2	562.
	8	67.3	1167.	67.3	1167.
	7	87.0	1950.	87.0	1950.
	6	102.4	2872.	102.4	2872.
	5	112.1	3881.	112.1	3881.
	4	112.8	4896.	112.8	4896.
	3	97.0	5769.	97.0	5769.
	2	79.1	6481.	79.1	6481.
	1	116.2	7875.	116.2	7875.
3 25,13,90 1)25x8	10	18.2	164.	18.2	164.
	9	44.2	562.	44.2	562.
	8	67.3	1168.	67.3	1168.
	7	87.0	1950.	87.0	1950.
	6	102.4	2872.	102.4	2872.
	5	112.1	3881.	112.1	3881.
	4	112.8	4896.	112.8	4896.
	3	97.0	5769.	97.0	5769.
	2	79.1	6481.	79.1	6481.
	1	116.2	7875.	116.2	7875.
4 100,13,90 1)25x8	10	18.2	164.	18.2	164.
	9	44.2	562.	44.2	562.
	8	67.3	1167.	67.3	1167.
	7	87.0	1950.	87.0	1950.
	6	102.4	2872.	102.4	2872.
	5	112.1	3881.	112.1	3881.
	4	112.8	4896.	112.8	4896.
	3	97.0	5769.	97.0	5769.
	2	79.1	6481.	79.1	6481.
	1	116.2	7875.	116.2	7875.
5 0,31,90 Variable	10	14.2	128.	14.2	128.
	9	39.1	480.	39.1	480.
	8	61.4	1032.	61.4	1032.
	7	81.9	1770.	81.9	1770.
	6	102.3	2691.	102.3	2691.
	5	125.7	3822.	125.7	3822.
	4	158.8	5251.	158.8	5251.
	3	216.5	7199.	216.5	7199.
	2	270.1	9630.	270.1	9630.
	1	205.9	12100.	205.9	12100.
6 125,31,90 Variable	10	14.2	128.	14.2	128.
	9	39.1	480.	39.1	480.
	8	61.4	1032.	61.4	1032.
	7	81.9	1770.	81.9	1770.
	6	102.3	2690.	102.3	2690.

Ex 1a - 10 story building, 2012 IBC, approx. period

	5	125.7	3822.	125.7	3822.
	4	158.8	5251.	158.8	5251.
	3	216.5	7199.	216.5	7199.
	2	270.1	9630.	270.1	9630.
	1	205.9	12100.	205.9	12100.
7	10	26.4	238.	26.4	238.
13,63,0	9	64.3	817.	64.3	817.
1)25x8	8	98.4	1702.	98.4	1702.
	7	128.2	2856.	128.2	2856.
	6	153.9	4241.	153.9	4241.
	5	175.3	5819.	175.3	5819.
	4	192.4	7551.	192.4	7551.
	3	205.2	9397.	205.2	9397.
	2	213.2	11316.	213.2	11316.
	1	215.0	13897.	215.0	13897.
8	10	26.4	238.	26.4	238.
113,63,0	9	64.3	817.	64.3	817.
1)25x8	8	98.4	1702.	98.4	1702.
	7	128.2	2856.	128.2	2856.
	6	153.9	4241.	153.9	4241.
	5	175.3	5819.	175.3	5819.
	4	192.4	7551.	192.4	7551.
	3	205.2	9397.	205.2	9397.
	2	213.2	11316.	213.2	11316.
	1	215.0	13897.	215.0	13897.
9	10	12.2	110.	12.2	110.
13,0,0	9	40.0	470.	40.0	470.
2)22x8	8	63.5	1042.	63.5	1042.
	7	83.4	1792.	83.4	1792.
	6	100.3	2695.	100.3	2695.
	5	114.3	3724.	114.3	3724.
	4	125.5	4853.	125.5	4853.
	3	133.9	6058.	133.9	6058.
	2	141.9	7335.	141.9	7335.
	1	158.8	9241.	158.8	9241.
10	10	28.6	258.	28.6	258.
113,0,0	9	68.0	869.	68.0	869.
1)25x8	8	103.5	1801.	103.5	1801.
	7	134.8	3014.	134.8	3014.
	6	161.5	4467.	161.5	4467.
	5	183.4	6118.	183.4	6118.
	4	200.2	7920.	200.2	7920.
	3	211.1	9820.	211.1	9820.
	2	217.0	11773.	217.0	11773.
	1	220.3	14417.	220.3	14417.