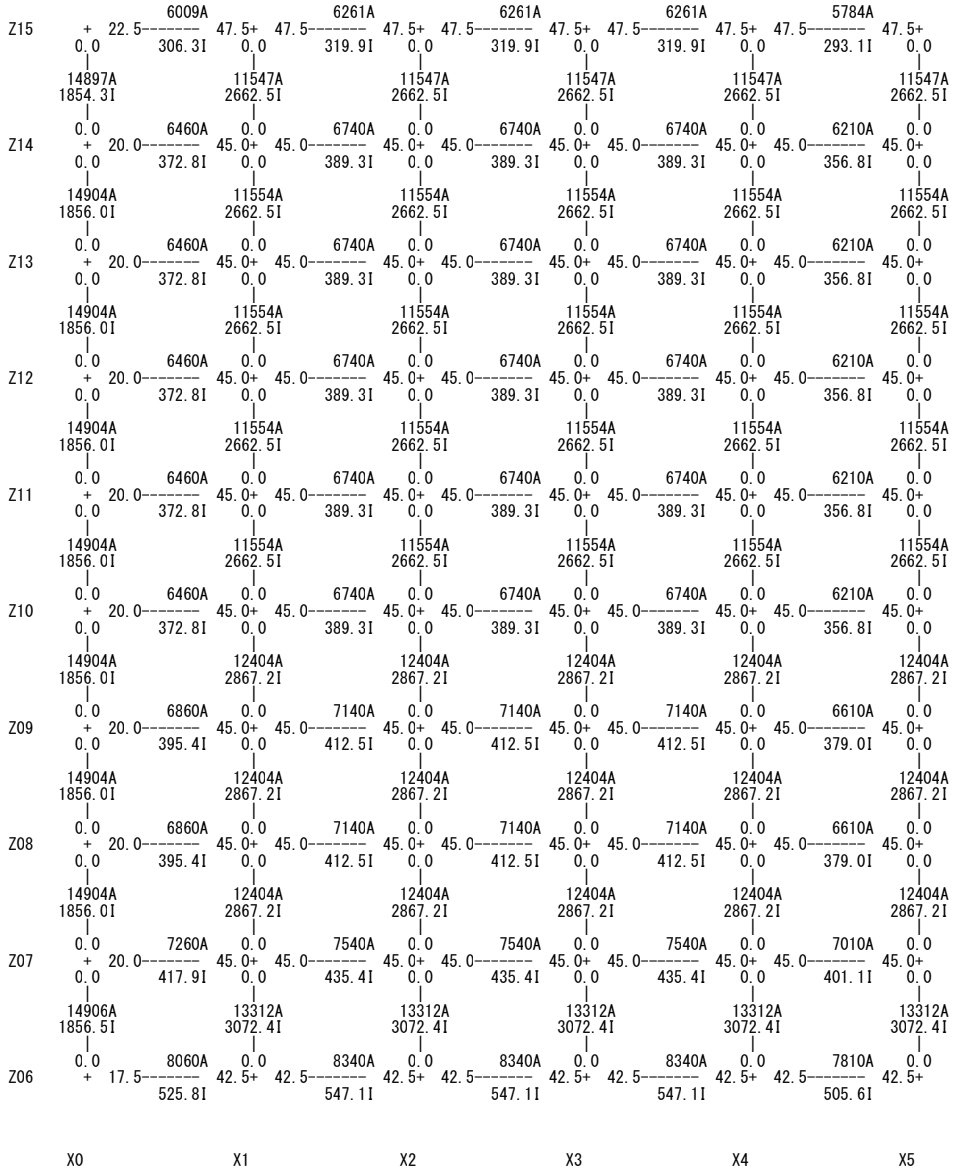
［２］準備計算結果

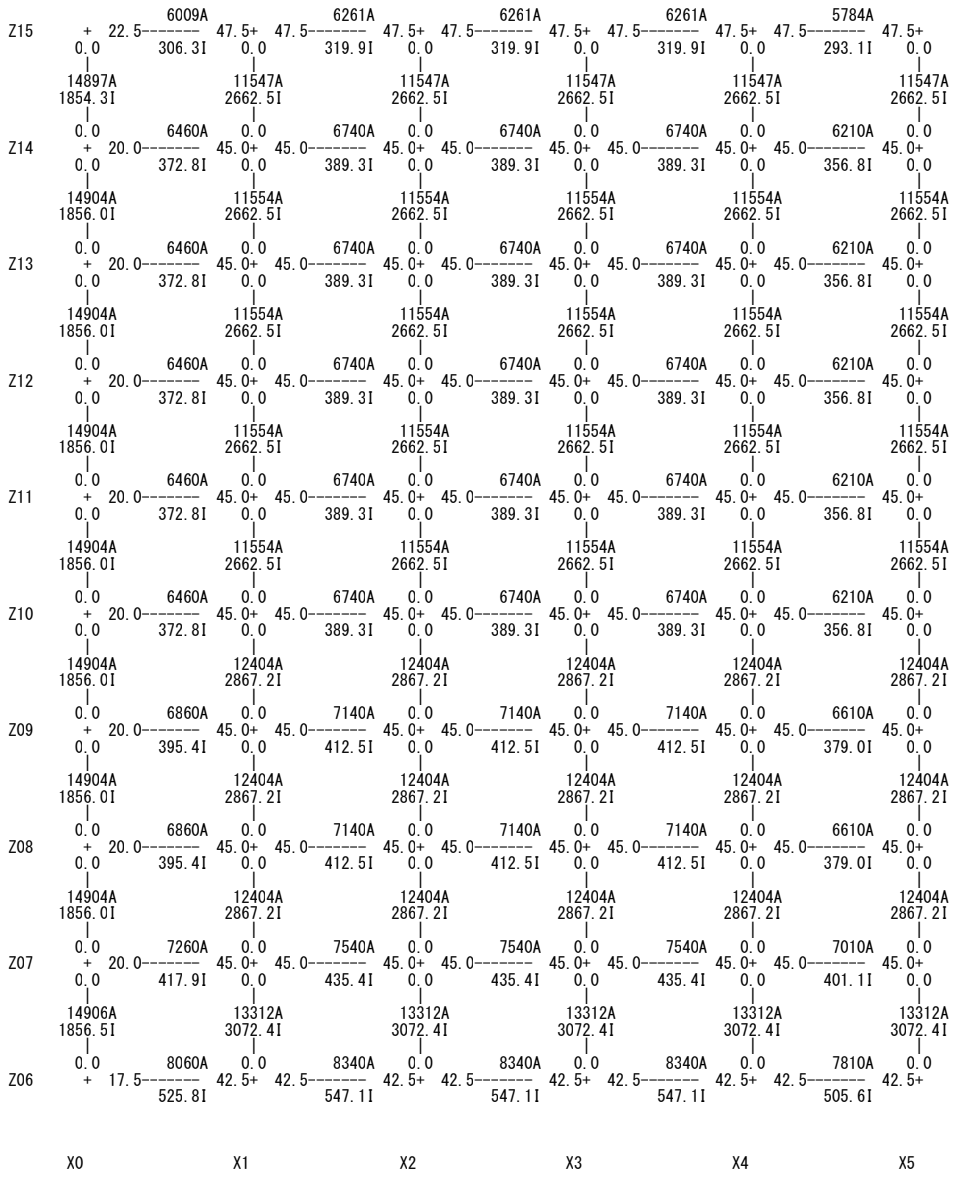
2.2 部材剛性

(1) 断面性能と剛域図　　A：断面積 [cm2]　　I：断面２次ﾓｰﾒﾝﾄ [cm4×10^4]　　無印：剛域 [cm]
Ab：ブレース断面積 [cm2]　　IW：壁柱の断面２次ﾓｰﾒﾝﾄ [cm4×10^4]　　AW：壁柱の断面積 [cm2]

＜Y0　ﾌﾚｰﾑ＞



＜Y1　ﾌﾚｰﾑ＞


6009A 6261A 6261A 6261A 5784A
Z15 + 22.5------- 47.5+ 47.5------- 47.5+ 47.5------- 47.5+ 47.5------- 47.5+ 47.5------- 47.5+
0.0 306.3I 0.0 319.9I 0.0 319.9I 0.0 319.9I 0.0 293.1I 0.0
14897A 11547A 11547A 11547A 11547A 11547A
1854.3I 2662.5I 2662.5I 2662.5I 2662.5I 2662.5I
0.0 6460A 0.0 6740A 0.0 6740A 0.0 6740A 0.0 6210A 0.0
Z14 + 20.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+
0.0 372.8I 0.0 389.3I 0.0 389.3I 0.0 389.3I 0.0 356.8I 0.0
14904A 11554A 11554A 11554A 11554A 11554A
1856.0I 2662.5I 2662.5I 2662.5I 2662.5I 2662.5I
0.0 6460A 0.0 6740A 0.0 6740A 0.0 6740A 0.0 6210A 0.0
Z13 + 20.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+
0.0 372.8I 0.0 389.3I 0.0 389.3I 0.0 389.3I 0.0 356.8I 0.0
14904A 11554A 11554A 11554A 11554A 11554A
1856.0I 2662.5I 2662.5I 2662.5I 2662.5I 2662.5I
0.0 6460A 0.0 6740A 0.0 6740A 0.0 6740A 0.0 6210A 0.0
Z12 + 20.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+
0.0 372.8I 0.0 389.3I 0.0 389.3I 0.0 389.3I 0.0 356.8I 0.0
14904A 11554A 11554A 11554A 11554A 11554A
1856.0I 2662.5I 2662.5I 2662.5I 2662.5I 2662.5I
0.0 6460A 0.0 6740A 0.0 6740A 0.0 6740A 0.0 6210A 0.0
Z11 + 20.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+
0.0 372.8I 0.0 389.3I 0.0 389.3I 0.0 389.3I 0.0 356.8I 0.0
14904A 11554A 11554A 11554A 11554A 11554A
1856.0I 2662.5I 2662.5I 2662.5I 2662.5I 2662.5I
0.0 6460A 0.0 6740A 0.0 6740A 0.0 6740A 0.0 6210A 0.0
Z10 + 20.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+
0.0 372.8I 0.0 389.3I 0.0 389.3I 0.0 389.3I 0.0 356.8I 0.0
14904A 12404A 12404A 12404A 12404A 12404A
1856.0I 2867.2I 2867.2I 2867.2I 2867.2I 2867.2I
0.0 6860A 0.0 7140A 0.0 7140A 0.0 7140A 0.0 6610A 0.0
Z09 + 20.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+
0.0 395.4I 0.0 412.5I 0.0 412.5I 0.0 412.5I 0.0 379.0I 0.0
14904A 12404A 12404A 12404A 12404A 12404A
1856.0I 2867.2I 2867.2I 2867.2I 2867.2I 2867.2I
0.0 6860A 0.0 7140A 0.0 7140A 0.0 7140A 0.0 6610A 0.0
Z08 + 20.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+
0.0 395.4I 0.0 412.5I 0.0 412.5I 0.0 412.5I 0.0 379.0I 0.0
14904A 12404A 12404A 12404A 12404A 12404A
1856.0I 2867.2I 2867.2I 2867.2I 2867.2I 2867.2I
0.0 7260A 0.0 7540A 0.0 7540A 0.0 7540A 0.0 7010A 0.0
Z07 + 20.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+ 45.0------- 45.0+
0.0 417.9I 0.0 435.4I 0.0 435.4I 0.0 435.4I 0.0 401.1I 0.0
14906A 13312A 13312A 13312A 13312A 13312A
1856.5I 3072.4I 3072.4I 3072.4I 3072.4I 3072.4I
0.0 8060A 0.0 8340A 0.0 8340A 0.0 8340A 0.0 7810A 0.0
Z06 + 17.5------- 42.5+ 42.5------- 42.5+ 42.5------- 42.5+ 42.5------- 42.5+ 42.5------- 42.5+
525.8I 547.1I 547.1I 547.1I 505.6I
X0 X1 X2 X3 X4 X5

［２］準備計算結果

2.3 C, Mo, Qo

(1) C, Mo, Qo図　　単位：［kN］［kNm］

＜Y0 ﾌﾚｰﾑ＞　（固定＋積載荷重）

	X0		X1		X2		X3		X4		X5	
	121.0	119.3	176.1	175.6	178.9	178.8	176.1	175.6	63.1	62.9		
Z15	(98.6)	(96.6)	(119.0)	(118.7)	(120.4)	(120.3)	(119.0)	(118.7)	(64.3)	(64.2)		
	188.1		271.7		277.6		271.7		97.7			
	125.8	124.3	180.5	179.9	180.1	180.2	180.5	179.9	64.8	64.4		
Z14	(102.6)	(100.8)	(122.2)	(121.8)	(122.0)	(122.0)	(122.2)	(121.8)	(66.3)	(66.1)		
	195.4		278.2		278.2		278.2		100.1			
	125.8	124.3	180.5	179.9	180.1	180.2	180.5	179.9	64.8	64.4		
Z13	(102.6)	(100.8)	(122.2)	(121.8)	(122.0)	(122.0)	(122.2)	(121.8)	(66.3)	(66.1)		
	195.4		278.2		278.2		278.2		100.1			
	125.8	124.3	180.5	179.9	180.1	180.2	180.5	179.9	64.8	64.4		
Z12	(102.6)	(100.8)	(122.2)	(121.8)	(122.0)	(122.0)	(122.2)	(121.8)	(66.3)	(66.1)		
	195.4		278.2		278.2		278.2		100.1			
	125.8	124.3	180.5	179.9	180.1	180.2	180.5	179.9	64.8	64.4		
Z11	(102.6)	(100.8)	(122.2)	(121.8)	(122.0)	(122.0)	(122.2)	(121.8)	(66.3)	(66.1)		
	195.4		278.2		278.2		278.2		100.1			
	125.8	124.3	180.5	179.9	180.1	180.2	180.5	179.9	64.8	64.4		
Z10	(102.6)	(100.8)	(122.2)	(121.8)	(122.0)	(122.0)	(122.2)	(121.8)	(66.3)	(66.1)		
	195.4		278.2		278.2		278.2		100.1			
	128.1	126.6	184.0	183.3	183.6	183.7	184.0	183.3	66.2	65.8		
Z09	(104.4)	(102.6)	(124.4)	(124.1)	(124.3)	(124.3)	(124.4)	(124.1)	(67.6)	(67.4)		
	198.9		283.3		283.3		283.3		102.2			
	128.1	126.6	184.0	183.3	183.6	183.7	184.0	183.3	66.2	65.8		
Z08	(104.4)	(102.6)	(124.4)	(124.1)	(124.3)	(124.3)	(124.4)	(124.1)	(67.6)	(67.4)		
	198.9		283.3		283.3		283.3		102.2			
	130.3	128.8	187.3	186.6	186.9	187.0	187.3	186.6	67.5	67.1		
Z07	(106.3)	(104.2)	(126.6)	(126.2)	(126.4)	(126.4)	(126.6)	(126.2)	(68.7)	(68.5)		
	202.3		288.5		288.5		288.5		104.2			
	135.8	134.0	195.3	194.6	194.9	195.1	195.3	194.6	70.6	70.2		
Z06	(110.7)	(108.3)	(131.8)	(131.4)	(131.6)	(131.6)	(131.8)	(131.4)	(71.7)	(71.5)		
	210.5		300.8		300.8		300.8		109.2			
	135.9	134.0	195.4	194.6	194.9	195.2	195.4	194.6	70.6	70.2		
Z05	(110.8)	(108.3)	(131.8)	(131.4)	(131.6)	(131.6)	(131.8)	(131.4)	(71.7)	(71.5)		
	210.6		300.8		300.8		300.8		109.3			
	135.9	134.0	195.4	194.6	194.9	195.2	195.4	194.6	70.6	70.2		
Z04	(110.8)	(108.3)	(131.8)	(131.4)	(131.6)	(131.6)	(131.8)	(131.4)	(71.7)	(71.5)		
	210.6		300.8		300.8		300.8		109.3			
	135.9	134.0	195.4	194.6	194.9	195.2	195.4	194.6	70.6	70.2		
Z03	(110.8)	(108.3)	(131.8)	(131.4)	(131.6)	(131.6)	(131.8)	(131.4)	(71.7)	(71.5)		
	210.6		300.8		300.8		300.8		109.3			
	135.9	134.0	195.4	194.6	194.9	195.2	195.4	194.6	70.6	70.2		
Z02	(110.8)	(108.3)	(131.8)	(131.4)	(131.6)	(131.6)	(131.8)	(131.4)	(71.7)	(71.5)		
	210.6		300.8		300.8		300.8		109.3			
	421.9	408.5	469.0	468.7	468.7	469.0	469.0	468.7	203.6	203.4		
Z01	(343.3)	(322.5)	(311.6)	(311.5)	(311.5)	(311.6)	(311.6)	(311.5)	(195.1)	(195.0)		
	638.4		717.3		717.3		717.3		317.6			

＜Y1　ﾌﾚｰﾑ＞　（固定＋積載荷重）

	X0		X1		X2		X3		X4		X5	
	147.0	164.5	234.1	222.5	222.5	234.1	234.1	222.5	74.0	74.3		
Z15	(119.9)	(146.1)	(154.9)	(148.4)	(148.4)	(154.9)	(154.9)	(148.4)	(76.2)	(76.4)		
	241.7		360.5		360.5		360.5		114.8			
	190.5	166.1	256.5	243.3	243.3	256.5	256.5	243.3	82.5	81.1		
Z14	(148.5)	(130.4)	(169.9)	(162.1)	(162.1)	(169.9)	(169.9)	(162.1)	(85.4)	(83.7)		
	286.4		394.1		394.1		394.1		126.2			
	137.4	126.8	256.7	243.5	243.5	256.7	256.7	243.5	82.6	81.1		
Z13	(113.9)	(105.0)	(169.9)	(162.1)	(162.1)	(169.9)	(169.9)	(162.1)	(85.6)	(83.7)		
	205.9		394.3		394.3		394.3		126.3			
	137.4	126.8	256.7	243.5	243.5	256.7	256.7	243.5	82.6	81.1		
Z12	(113.9)	(105.0)	(169.9)	(162.1)	(162.1)	(169.9)	(169.9)	(162.1)	(85.6)	(83.7)		
	205.9		394.3		394.3		394.3		126.3			
	137.4	126.8	256.7	243.5	243.5	256.7	256.7	243.5	82.6	81.1		
Z11	(113.9)	(105.0)	(169.9)	(162.1)	(162.1)	(169.9)	(169.9)	(162.1)	(85.6)	(83.7)		
	205.9		394.3		394.3		394.3		126.3			
	137.4	126.8	256.7	243.5	243.5	256.7	256.7	243.5	82.6	81.1		
Z10	(113.9)	(105.0)	(169.9)	(162.1)	(162.1)	(169.9)	(169.9)	(162.1)	(85.6)	(83.7)		
	205.9		394.3		394.3		394.3		126.3			
	139.6	129.1	260.2	246.9	246.9	260.2	260.2	246.9	83.9	82.5		
Z09	(115.7)	(106.8)	(172.2)	(164.4)	(164.4)	(172.2)	(172.2)	(164.4)	(86.9)	(84.9)		
	209.4		399.4		399.4		399.4		128.4			
	139.6	129.1	260.2	246.9	246.9	260.2	260.2	246.9	83.9	82.5		
Z08	(115.7)	(106.8)	(172.2)	(164.4)	(164.4)	(172.2)	(172.2)	(164.4)	(86.9)	(84.9)		
	209.4		399.4		399.4		399.4		128.4			
	141.9	131.2	263.5	250.3	250.3	263.5	263.5	250.3	85.2	83.7		
Z07	(117.6)	(108.5)	(174.4)	(166.5)	(166.5)	(174.4)	(174.4)	(166.5)	(88.1)	(86.1)		
	212.8		404.6		404.6		404.6		130.4			
	147.5	136.6	271.7	258.4	258.4	271.7	271.7	258.4	88.5	86.9		
Z06	(122.0)	(112.6)	(179.7)	(171.9)	(171.9)	(179.7)	(179.7)	(171.9)	(91.0)	(89.0)		
	221.2		417.4		417.4		417.4		135.4			
	147.7	136.8	272.0	258.6	258.6	272.0	272.0	258.6	88.6	86.9		
Z05	(122.1)	(112.7)	(179.8)	(172.1)	(172.1)	(179.8)	(179.8)	(172.1)	(91.0)	(89.0)		
	221.5		417.9		417.9		417.9		135.5			
	147.7	136.8	272.0	258.6	258.6	272.0	272.0	258.6	88.6	86.9		
Z04	(122.1)	(112.7)	(179.8)	(172.1)	(172.1)	(179.8)	(179.8)	(172.1)	(91.0)	(89.0)		
	221.5		417.9		417.9		417.9		135.5			
	147.7	136.8	272.0	258.6	258.6	272.0	272.0	258.6	88.6	86.9		
Z03	(122.1)	(112.7)	(179.8)	(172.1)	(172.1)	(179.8)	(179.8)	(172.1)	(91.0)	(89.0)		
	221.5		417.9		417.9		417.9		135.5			
	147.7	136.8	272.0	258.6	258.6	272.0	272.0	258.6	88.6	86.9		
Z02	(122.1)	(112.7)	(179.8)	(172.1)	(172.1)	(179.8)	(179.8)	(172.1)	(91.0)	(89.0)		
	221.5		417.9		417.9		417.9		135.5			
	485.8	451.0	515.7	513.6	513.6	515.7	515.7	513.6	215.6	213.8		
Z01	(388.4)	(352.7)	(342.1)	(340.8)	(340.8)	(342.1)	(342.1)	(340.8)	(208.6)	(206.6)		
	729.5		790.9		790.9		790.9		334.6			

	階	b (mm)	D (mm)	左柱軸力 (壁含む) NL	右柱軸力 (壁含む) NL	梁端せん断力		長期軸力					
						$_{L}Q_{o}$	$_{R}Q_{o}$	左柱	壁	右柱	合計	ΔNw	Nw
Y0-X0	14	1200	1200	333.0	387.9	189.9	207.1	143	397	181	721	99	99
X0フレーム	13	1200	1200	767.6	930.3	197.0	238.0	381	832	485	1698	109	208
	12	1200	1200	1181.6	1403.5	175.3	205.8	619	1213	753	2585	95	303
	11	1200	1200	1600.6	1879.8	175.3	205.8	863	1594	1023	3480	95	399
	10	1200	1200	2018.1	2352.6	175.3	205.8	1105	1975	1290	4371	95	494
	9	1200	1200	2434.6	2822.9	175.3	205.8	1347	2356	1555	5258	95	589
	8	1200	1200	2852.5	3293.0	175.3	205.8	1589	2738	1819	6146	95	684
	7	1200	1200	3267.2	3758.1	175.3	205.8	1829	3119	2078	7025	95	780
	6	1200	1200	3680.7	4219.5	174.9	204.2	2067	3498	2335	7900	95	874
	5	1200	1200	4101.3	4686.3	175.8	204.1	2312	3878	2598	8788	95	969
	4	1200	1200	4519.1	5150.1	175.9	204.3	2554	4258	2858	9669	95	1064
	3	1200	1200	4931.3	5608.2	175.9	204.3	2790	4638	3111	10540	95	1160
	2	1200	1200	5339.9	6062.4	178.3	206.6	3020	5023	3359	11402	96	1256
	1	1200	1200	5744.9	6511.9	180.8	209.2	3245	5413	3599	12257	98	1353
Y0-X1	14	650	1700	518.2	645.2	299.7	359.2	219	659	286	1163	165	165
X1フレーム	13	650	1700	1091.4	1288.8	298.0	310.5	494	1267	619	2380	152	317
	12	650	1700	1632.8	1865.2	266.3	263.2	769	1797	932	3498	132	449
	11	650	1700	2174.0	2445.2	266.3	263.2	1044	2326	1249	4619	132	582
	10	650	1700	2715.9	3028.9	266.3	263.2	1319	2856	1570	5745	132	714
	9	700	1700	3261.3	3618.4	266.3	263.2	1598	3385	1896	6880	132	846
	8	700	1700	3813.9	4216.8	266.3	263.2	1885	3915	2231	8031	132	979
	7	700	1700	4368.9	4819.4	266.3	263.2	2173	4444	2571	9188	132	1111
	6	750	1700	4935.1	5434.4	271.0	267.8	2469	4983	2918	10370	135	1246
	5	800	1700	5519.0	6068.0	272.2	269.4	2780	5525	3282	11587	135	1381
	4	800	1700	6110.8	6710.1	272.3	269.8	3100	6067	3654	12821	136	1517
	3	800	1700	6709.3	7358.8	276.9	274.4	3421	6618	4029	14068	138	1655
	2	800	1700	7313.8	8013.1	276.9	274.4	3749	7170	4408	15327	138	1792
	1	800	1700	7926.8	8675.8	284.0	281.5	4078	7735	4790	16603	141	1934
Y0-X2	14	650	1700	545.0	576.9	294.1	264.5	251	559	312	1122	140	140
X2フレーム	13	650	1700	1146.6	1232.5	284.6	259.2	568	1102	709	2379	136	276
	12	650	1700	1746.2	1887.9	283.6	258.5	884	1645	1106	3634	136	411
	11	650	1700	2346.5	2542.5	283.6	258.5	1201	2187	1502	4889	136	547
	10	650	1700	2947.4	3196.8	283.6	258.5	1518	2729	1898	6144	136	682
	9	700	1700	3551.6	3853.7	283.6	258.5	1839	3271	2296	7405	136	818
	8	700	1700	4163.3	4517.9	283.6	258.5	2167	3813	2702	8681	136	953
	7	700	1700	4775.5	5182.5	283.6	258.5	2495	4355	3108	9958	136	1089
	6	750	1700	5398.6	5858.2	289.4	264.3	2829	4909	3519	11257	138	1227
	5	800	1700	6041.7	6554.5	290.5	265.8	3182	5465	3950	12596	139	1366
	4	800	1700	6689.9	7256.3	290.5	266.2	3539	6022	4385	13946	139	1505
	3	800	1700	7342.7	7962.5	269.5	272.1	3923	6563	4819	15305	135	1641
	2	800	1700	7999.0	8671.8	296.5	272.1	4282	7132	5257	16671	142	1783
	1	800	1700	8661.7	9387.7	305.5	281.2	4640	7719	5691	18049	147	1930

2.5 壁柱

床面積

階	住戸内床		バルコニー		廊下		階段(1)		階段(2)		エントランス		ΣA
	W(m)	L(m)	W(m)	L(m)	W(m)	L(m)	W(m)	L(m)	W(m)	L(m)	W(m)	L(m)	(m²)
14	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
13	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
12	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
11	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
10	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
9	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
8	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
7	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
6	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
5	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
4	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
3	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
2	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05
1	9.55	40.7	1.74	40.7	2.04	40.7	3.01	5.59	2.41	5			480.05

壁柱率　　張間耐力壁構面数=　7　　耐力壁構面数による割増係数αc=　1　　壁柱率=ΣAc/ΣA

階	左外壁柱			中壁柱			右外壁柱			ΣAc	Fc	低減係数	単位重量	補正係数	壁柱率		必要	判定
	b(cm)	D(cm)	n	b(cm)	D(cm)	n	b(cm)	D(cm)	n	(cm²)	(N/mm²)	β	(kN/m²)	γ			壁柱率	
14	120	120	2	65	170	10	120	120	2	168100	24	0.935	13.74	1.145	350.17	29.2 N	269.7	OK
13	120	120	2	65	170	10	120	120	2	168100	24	0.935	15.36	1.280	350.17	29.2 N	301.6	OK
12	120	120	2	65	170	10	120	120	2	168100	27	0.882	15.14	1.261	350.17	29.2 N	280.4	OK
11	120	120	2	65	170	10	120	120	2	168100	27	0.882	15.19	1.266	350.17	29.2 N	281.3	OK
10	120	120	2	65	170	10	120	120	2	168100	27	0.882	15.19	1.266	350.17	29.2 N	281.3	OK
9	120	120	2	70	170	10	120	120	2	176600	30	0.837	15.25	1.271	367.88	30.7 N	268.0	OK
8	120	120	2	70	170	10	120	120	2	176600	30	0.837	15.40	1.284	367.88	30.7 N	270.7	OK
7	120	120	2	70	170	10	120	120	2	176600	30	0.837	15.40	1.284	367.88	30.7 N	270.7	OK
6	120	120	2	75	170	10	120	120	2	185100	30	0.837	15.61	1.301	385.58	32.1 N	274.4	OK
5	120	120	2	80	170	10	120	120	2	193600	33	0.798	16.05	1.337	403.29	33.6 N	268.9	OK
4	120	120	2	80	170	10	120	120	2	193600	33	0.798	16.16	1.347	403.29	33.6 N	270.8	OK
3	120	120	2	80	170	10	120	120	2	193600	33	0.798	16.22	1.352	403.29	33.6 N	271.9	OK
2	120	120	2	80	170	10	120	120	2	193600	36	0.764	16.28	1.357	403.29	33.6 N	261.2	OK
1	120	120	2	80	170	10	120	120	2	193600	36	0.764	16.64	1.387	403.29	33.6 N	370.8	OK

N=14

壁率　　壁柱率=ΣAw/ΣA

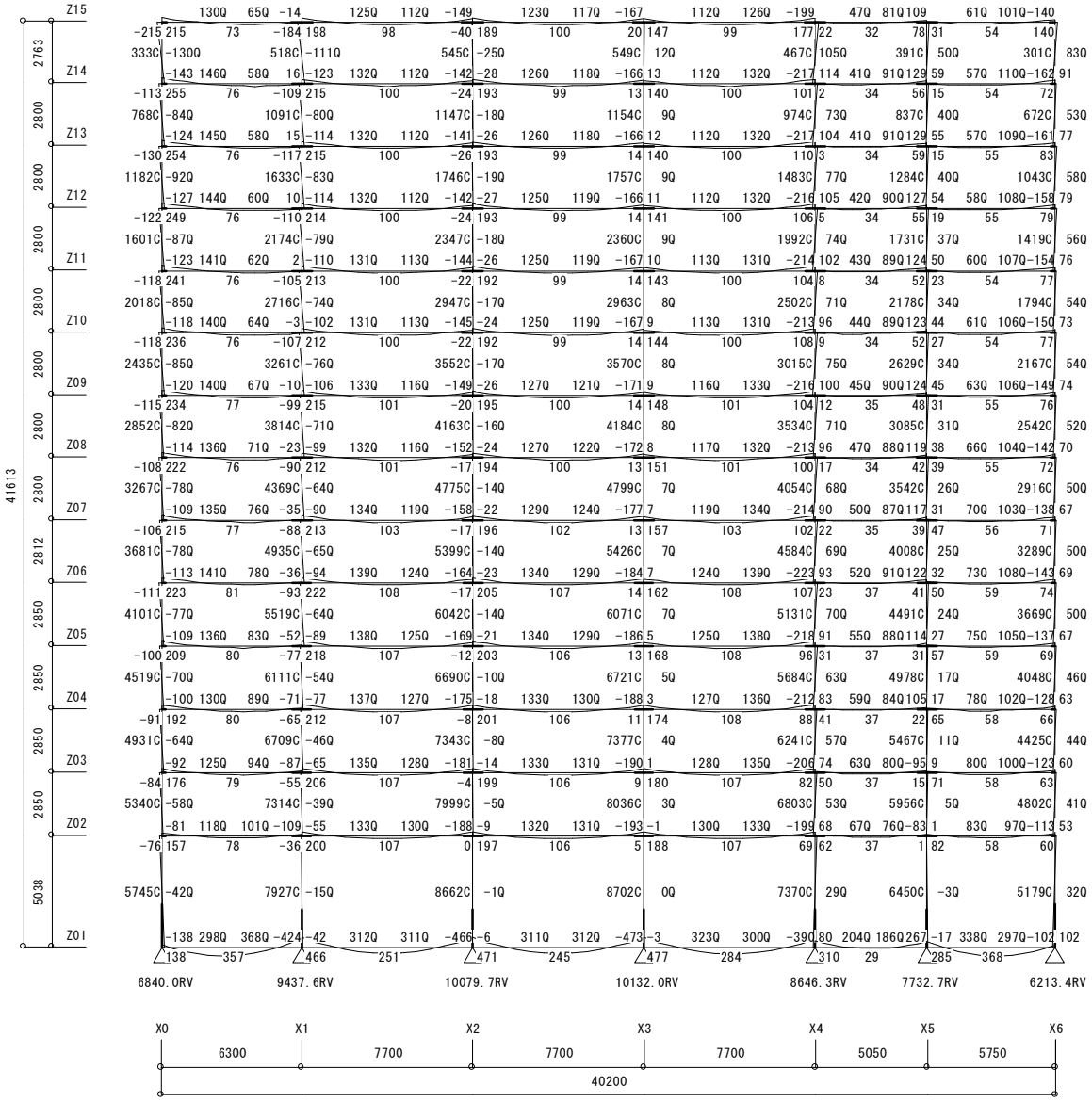
階	左妻壁		戸境壁						右妻壁		ΣAw	Fc	低減係数	単位重量	補正係数	壁柱率		必要
	t(cm)	L(cm)	b(cm)	D(cm)	n	b(cm)	D(cm)	n	b(cm)	D(cm)	(cm²)	(N/mm²)	β	(kN/m²)	γ			壁柱率
14	18	1168	18	1058	5				18	1168	137268	24	0.935	13.74	1.145	285.95	20.42 N	224.8
13	18	1168	18	1058	5				18	1168	137268	24	0.935	15.36	1.280	285.95	20.42 N	251.4
12	18	1168	18	1058	5				18	1168	137268	27	0.882	15.14	1.261	285.95	20.42 N	233.6
11	18	1168	18	1058	5				18	1168	137268	27	0.882	15.19	1.266	285.95	20.42 N	234.4
10	18	1168	18	1058	5				18	1168	137268	27	0.882	15.19	1.266	285.95	20.42 N	234.4
9	18	1168	18	1058	5				18	1168	137268	30	0.837	15.25	1.271	285.95	20.42 N	223.3
8	18	1168	18	1068	5				18	1168	138168	30	0.837	15.40	1.284	287.82	20.56 N	225.6
7	18	1168	18	1068	5				18	1168	138168	30	0.837	15.40	1.284	287.82	20.56 N	225.6
6	18	1168	20	1078	5				18	1168	149848	30	0.837	15.61	1.301	312.15	22.3 N	228.7
5	18	1168	20	1088	5				18	1168	150848	33	0.798	16.05	1.337	314.23	22.45 N	224.1
4	18	1168	20	1088	5				18	1168	150848	33	0.798	16.16	1.347	314.23	22.45 N	225.7
3	18	1168	22	1088	5				18	1168	161728	33	0.798	16.22	1.352	336.90	24.06 N	226.6
2	20	1168	22	1088	5				20	1168	166400	36	0.764	16.28	1.357	346.63	24.76 N	217.7
1	22	1168	25	1088	5				22	1168	187392	36	0.764	16.64	1.387	390.36	27.88 N	296.6

N=14

平均せん断応力度

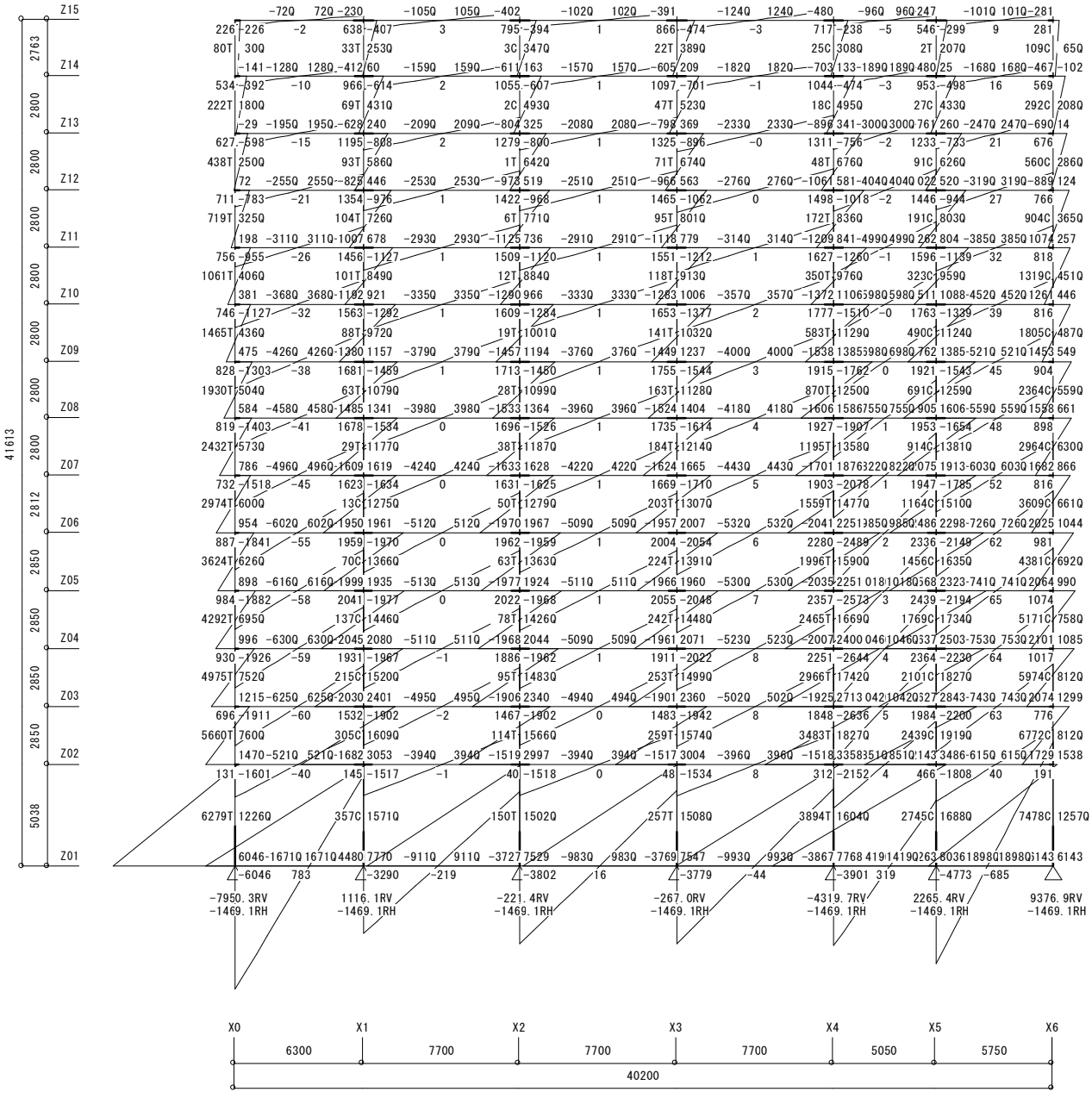
階	地震荷重				ΣA	Wi/ΣA	ΣAc	Qi/ΣAc	ΣAw	Qi/ΣAw
	Wi(kN)	ΣWi(kN)	Ci	Qi(kN)	(m²)	(kN/m²)	(cm²)	(N/mm²)	(cm²)	(N/mm²)
14	######	6594.8	0.508	3350.2	480.05	13.74	168100	0.20	137268	0.24
13	######	13969.1	0.404	5643.5	480.05	15.36	168100	0.34	137268	0.41
12	######	21235.9	0.358	7602.5	480.05	15.14	168100	0.45	137268	0.55
11	######	28526.3	0.329	9385.2	480.05	15.19	168100	0.56	137268	0.68
10	######	35816.7	0.307	10995.7	480.05	15.19	168100	0.65	137268	0.80
9	######	43136.0	0.289	12466.3	480.05	15.25	176600	0.71	137268	0.91
8	######	50529.9	0.275	13895.7	480.05	15.40	176600	0.79	138168	1.01
7	######	57923.8	0.262	15176.0	480.05	15.40	176600	0.86	138168	1.10
6	######	65418.5	0.250	16354.6	480.05	15.61	185100	0.88	149848	1.09
5	######	73122.5	0.238	17403.2	480.05	16.05	193600	0.90	150848	1.15
4	######	80879.7	0.228	18440.6	480.05	16.16	193600	0.95	150848	1.22
3	######	88667.5	0.218	19329.5	480.05	16.22	193600	1.00	161728	1.20
2	######	96483.5	0.209	20165.1	480.05	16.28	193600	1.04	166400	1.21
1	######	########	0.200	20894.2	480.05	16.64	193600	1.08	187392	1.11

7.2.2 応力図 ＜固定荷重＋積載荷重＞



【Y0ﾌﾚｰﾑ】 スケール：1/320

7.3.2 応力図 ＜地震荷重＞



【Y0ﾌﾚｰﾑ Ｘ方向正加力】スケール：1/320

［４］応力解析のまとめ

4.6 偏心率

ｇｘ，ｇｙ：重心位置（軸力の中心）［m］　ｅｘ，ｅｙ：偏心距離　［m］　ｒｅ：弾力半径［m］　主軸方向［度］
ｐｘ，ｐｙ：剛心位置［m］　KR：ねじり剛性［kNm×10^3］　Re：偏心率　Fe：形状特性係数

＜雑壁を考慮しない場合＞（加力方向：Ｘ正Ｙ正）

Ｘ方向：階	ｇｘ	ｇｙ	ｐｘ	ｐｙ	ｅｙ	KR	ｒｅ	Re	Fe	主軸方向
14	20.043	5.271	21.134	4.871	0.400	475126	15.808	0.025	1.000	0.0
13	20.071	5.296	20.977	4.761	0.535	725179	17.249	0.031	1.000	0.0
12	20.164	5.324	21.008	4.747	0.578	934335	18.769	0.031	1.000	0.0
11	20.209	5.337	21.021	4.736	0.602	1117800	20.115	0.030	1.000	0.0
10	20.235	5.345	21.030	4.729	0.616	1292482	21.256	0.029	1.000	0.0
9	20.254	5.350	21.042	4.728	0.622	1481128	22.151	0.028	1.000	0.0
8	20.267	5.352	21.048	4.723	0.629	1672231	23.030	0.027	1.000	0.0
7	20.277	5.354	21.052	4.719	0.635	1884842	23.826	0.027	1.000	0.0
6	20.287	5.355	21.051	4.720	0.635	2106809	24.138	0.026	1.000	0.0
5	20.296	5.353	21.062	4.719	0.634	2416721	24.928	0.025	1.000	0.0
4	20.303	5.352	21.068	4.714	0.638	2828716	26.316	0.024	1.000	0.0
3	20.310	5.351	21.072	4.710	0.640	3407900	27.907	0.023	1.000	0.0
2	20.316	5.349	21.077	4.695	0.655	4596514	30.057	0.022	1.000	0.0
1	20.299	5.345	21.114	4.714	0.631	3979230	23.096	0.027	1.000	0.0

Ｙ方向：階	ｇｘ	ｇｙ	ｐｘ	ｐｙ	ｅｘ	KR	ｒｅ	Re	Fe	主軸方向
14	20.043	5.271	21.134	4.871	1.091	475126	15.161	0.072	1.000	0.0
13	20.071	5.296	20.977	4.761	0.906	725179	14.783	0.061	1.000	0.0
12	20.164	5.324	21.008	4.747	0.844	934335	14.593	0.058	1.000	0.0
11	20.209	5.337	21.021	4.736	0.812	1117800	14.458	0.056	1.000	0.0
10	20.235	5.345	21.030	4.729	0.795	1292482	14.357	0.055	1.000	0.0
9	20.254	5.350	21.042	4.728	0.788	1481128	14.292	0.055	1.000	0.0
8	20.267	5.352	21.048	4.723	0.780	1672231	14.234	0.055	1.000	0.0
7	20.277	5.354	21.052	4.719	0.775	1884842	14.177	0.055	1.000	0.0
6	20.287	5.355	21.051	4.720	0.764	2106809	13.919	0.055	1.000	0.0
5	20.296	5.353	21.062	4.719	0.766	2416721	13.913	0.055	1.000	0.0
4	20.303	5.352	21.068	4.714	0.765	2828716	13.899	0.055	1.000	0.0
3	20.310	5.351	21.072	4.710	0.762	3407900	13.682	0.056	1.000	0.0
2	20.316	5.349	21.077	4.695	0.761	4596514	13.889	0.055	1.000	0.0
1	20.299	5.345	21.114	4.714	0.815	3979230	13.889	0.059	1.000	0.0

＜雑壁を考慮した場合＞　（加力方向：Ｘ正Ｙ正）

Ｘ方向：階	ｇｘ	ｇｙ	ｐｘ	ｐｙ	ｅｙ	KR	ｒｅ	Re	Fe	主軸方向
14	20.043	5.271	20.831	5.189	0.083	532326	15.718	0.005	1.000	0.0
13	20.071	5.296	20.369	5.097	0.199	818640	17.195	0.012	1.000	0.0
12	20.164	5.324	20.482	5.094	0.231	1039540	18.541	0.012	1.000	0.0
11	20.209	5.337	20.559	5.088	0.249	1229131	19.738	0.013	1.000	0.0
10	20.235	5.345	20.620	5.081	0.264	1407627	20.761	0.013	1.000	0.0
9	20.254	5.350	20.674	5.071	0.278	1599419	21.581	0.013	1.000	0.0
8	20.267	5.352	20.705	5.071	0.282	1797044	22.371	0.013	1.000	0.0
7	20.277	5.354	20.732	5.068	0.286	2016899	23.089	0.012	1.000	0.0
6	20.287	5.355	20.761	5.056	0.298	2245058	23.399	0.013	1.000	0.0
5	20.296	5.353	20.798	5.045	0.308	2560289	24.146	0.013	1.000	0.0
4	20.303	5.352	20.830	5.042	0.310	2980541	25.412	0.012	1.000	0.0
3	20.310	5.351	20.864	5.041	0.310	3571695	26.867	0.012	1.000	0.0
2	20.316	5.349	20.889	5.032	0.317	4790301	28.828	0.011	1.000	0.0
1	20.299	5.345	20.746	5.101	0.244	4313100	22.357	0.011	1.000	0.0

Ｙ方向：階	ｇｘ	ｇｙ	ｐｘ	ｐｙ	ｅｘ	KR	ｒｅ	Re	Fe	主軸方向
14	20.043	5.271	20.831	5.189	0.788	532326	15.324	0.051	1.000	0.0
13	20.071	5.296	20.369	5.097	0.298	818640	14.926	0.020	1.000	0.0
12	20.164	5.324	20.482	5.094	0.319	1039540	14.735	0.022	1.000	0.0
11	20.209	5.337	20.559	5.088	0.351	1229131	14.596	0.024	1.000	0.0
10	20.235	5.345	20.620	5.081	0.384	1407627	14.488	0.027	1.000	0.0
9	20.254	5.350	20.674	5.071	0.421	1599419	14.414	0.029	1.000	0.0
8	20.267	5.352	20.705	5.071	0.438	1797044	14.352	0.031	1.000	0.0
7	20.277	5.354	20.732	5.068	0.455	2016899	14.291	0.032	1.000	0.0
6	20.287	5.355	20.761	5.056	0.474	2245058	14.036	0.034	1.000	0.0
5	20.296	5.353	20.798	5.045	0.503	2560289	14.020	0.036	1.000	0.0
4	20.303	5.352	20.830	5.042	0.526	2980541	13.997	0.038	1.000	0.0
3	20.310	5.351	20.864	5.041	0.554	3571695	13.776	0.040	1.000	0.0
2	20.316	5.349	20.889	5.032	0.572	4790301	13.967	0.041	1.000	0.0
1	20.299	5.345	20.746	5.101	0.447	4313100	14.038	0.032	1.000	0.0

＜雑壁を考慮しない場合＞（加力方向：Ｘ正Ｙ負）

Ｘ方向：階	ｇｘ	ｇｙ	ｐｘ	ｐｙ	ｅｙ	KR	ｒｅ	Re	Fe	主軸方向
14	20.043	5.271	21.134	4.871	0.400	475126	15.808	0.025	1.000	0.0
13	20.071	5.296	20.977	4.761	0.535	725179	17.249	0.031	1.000	0.0
12	20.164	5.324	21.008	4.747	0.578	934335	18.769	0.031	1.000	0.0
11	20.209	5.337	21.021	4.736	0.602	1117800	20.115	0.030	1.000	0.0
10	20.235	5.345	21.030	4.729	0.616	1292482	21.256	0.029	1.000	0.0
9	20.254	5.350	21.042	4.728	0.622	1481128	22.151	0.028	1.000	0.0
8	20.267	5.352	21.048	4.723	0.629	1672231	23.030	0.027	1.000	0.0
7	20.277	5.354	21.052	4.719	0.635	1884842	23.826	0.027	1.000	0.0
6	20.287	5.355	21.051	4.720	0.635	2106809	24.138	0.026	1.000	0.0
5	20.296	5.353	21.062	4.719	0.634	2416721	24.928	0.025	1.000	0.0
4	20.303	5.352	21.068	4.714	0.638	2828716	26.316	0.024	1.000	0.0
3	20.310	5.351	21.072	4.710	0.640	3407900	27.907	0.023	1.000	0.0
2	20.316	5.349	21.077	4.695	0.655	4596514	30.057	0.022	1.000	0.0
1	20.299	5.345	21.114	4.714	0.631	3979230	23.096	0.027	1.000	0.0

Ｙ方向：階	ｇｘ	ｇｙ	ｐｘ	ｐｙ	ｅｘ	KR	ｒｅ	Re	Fe	主軸方向
14	20.043	5.271	21.134	4.871	1.091	475126	15.161	0.072	1.000	0.0
13	20.071	5.296	20.977	4.761	0.906	725179	14.783	0.061	1.000	0.0
12	20.164	5.324	21.008	4.747	0.844	934335	14.593	0.058	1.000	0.0
11	20.209	5.337	21.021	4.736	0.812	1117800	14.458	0.056	1.000	0.0
10	20.235	5.345	21.030	4.729	0.795	1292482	14.357	0.055	1.000	0.0
9	20.254	5.350	21.042	4.728	0.788	1481128	14.292	0.055	1.000	0.0
8	20.267	5.352	21.048	4.723	0.780	1672231	14.234	0.055	1.000	0.0
7	20.277	5.354	21.052	4.719	0.775	1884842	14.177	0.055	1.000	0.0
6	20.287	5.355	21.051	4.720	0.764	2106809	13.919	0.055	1.000	0.0
5	20.296	5.353	21.062	4.719	0.766	2416721	13.913	0.055	1.000	0.0
4	20.303	5.352	21.068	4.714	0.765	2828716	13.899	0.055	1.000	0.0
3	20.310	5.351	21.072	4.710	0.762	3407900	13.682	0.056	1.000	0.0
2	20.316	5.349	21.077	4.695	0.761	4596514	13.889	0.055	1.000	0.0
1	20.299	5.345	21.114	4.714	0.815	3979230	13.889	0.059	1.000	0.0