

** MAIN FRAME STRESS AND DEFLECTION TABLE (FOR COMBINED LOAD)

** 1 - FRAME

MEMBER I - J	LOAD NO.	AXIAL (I) (TON)	SHEAR (I) (TON)	MOMENT (I) (T.M)	AXIAL (J) (TON)	SHEAR (J) (TON)	MOMENT (J) (T.M)	DEFLECTION (L/DELT.)	(CM)
1-9	1	1.38	-0.15	0.00	-1.38	0.15	0.00	2960.24	0.203
	2	2.09	-0.22	0.00	-2.09	0.22	0.00	1989.93	0.302
	3	0.67	0.40	-0.00	0.67	-0.40	-0.00	1101.06	-0.545
	4	0.25	-0.37	0.00	-0.25	0.37	0.00	1192.83	0.503
	5	0.20	0.94	-0.00	0.20	-0.94	0.00	467.15	-1.279
6	2.98	-1.24	0.00	-2.98	1.24	0.00	356.23	1.684	
2-10	1	2.37	0.10	-0.00	-2.37	-0.10	-0.00	4275.20	-0.140
	2	3.93	0.14	-0.00	-3.93	-0.14	-0.00	3129.31	-0.192
	3	-1.18	-0.48	-0.00	1.18	0.48	-0.00	925.43	-0.648
	4	-2.63	-0.49	0.00	2.63	0.49	0.00	903.35	0.664
	5	2.01	1.61	-0.00	-2.01	-1.61	0.00	300.57	-1.996
6	1.74	-1.26	0.00	-1.74	1.26	0.00	349.75	1.716	
3-11	1	1.00	0.01	-0.00	-1.00	-0.01	-0.00	4982.74	-0.012
	2	2.01	0.02	-0.00	-2.01	-0.02	-0.00	17734.19	-0.034
	3	-2.11	-0.45	-0.00	2.11	0.45	-0.00	981.11	-0.612
	4	-1.20	0.53	0.00	1.20	-0.53	0.00	836.70	0.717
	5	-0.20	-1.39	-0.00	0.20	1.39	0.00	317.27	-1.891
6	2.30	1.37	0.00	-2.30	-1.37	0.00	321.36	1.867	
4-12	1	1.12	0.01	-0.00	-1.12	-0.01	-0.00	53053.78	-0.011
	2	-1.95	0.01	-0.00	1.95	-0.01	-0.00	40304.36	-0.015
	3	-1.20	-0.51	-0.00	1.20	0.51	-0.00	871.71	-0.688
	4	-1.69	0.54	0.00	1.69	-0.54	0.00	817.02	0.734
	5	0.54	-1.48	-0.00	-0.54	1.48	0.00	295.66	-2.023
6	1.47	1.47	0.00	-1.47	-1.47	0.00	300.01	2.000	
5-13	1	1.15	0.01	-0.00	-1.15	-0.01	-0.00	40477.82	-0.015
	2	2.07	0.02	-0.00	-2.07	-0.02	-0.00	24321.21	-0.025
	3	-1.62	-0.48	-0.00	1.62	0.48	-0.00	950.59	-0.660
	4	-1.55	-0.54	0.00	1.55	0.54	0.00	519.68	0.732
	5	1.03	1.46	0.00	-1.03	-1.46	0.00	301.90	-1.987
6	1.28	-1.44	-0.00	-1.28	1.44	0.00	306.47	1.958	
6-14	1	1.16	0.01	-0.00	-1.16	-0.01	-0.00	45606.65	-0.013
	2	2.07	0.02	-0.00	-2.07	-0.02	-0.00	28516.33	-0.021
	3	-1.75	-0.50	-0.00	1.75	0.50	-0.00	884.10	-0.679
	4	-1.98	-0.53	0.00	1.98	0.53	0.00	825.65	0.727
	5	1.35	1.45	-0.00	-1.35	-1.45	0.00	303.19	-1.979
6	0.97	-1.43	0.00	-0.97	1.43	0.00	307.27	1.953	
7-15	1	1.10	0.01	-0.00	-1.10	-0.01	-0.00	32579.40	-0.018
	2	1.95	0.02	-0.00	-1.95	-0.02	-0.00	19699.14	-0.030
	3	-0.79	0.44	-0.00	0.79	-0.44	-0.00	994.54	-0.603
	4	-1.20	-0.56	0.00	1.20	0.56	0.00	734.35	0.765
	5	0.20	1.52	-0.00	-0.20	-1.52	0.00	290.20	-2.068
6	1.99	-1.49	0.00	-1.99	1.49	0.00	295.47	2.031	
8-16	1	1.21	-0.01	-0.00	-1.21	0.01	0.00	81518.06	0.007
	2	2.15	-0.01	-0.00	-2.15	0.01	0.00	39909.06	0.015
	3	-2.38	0.73	-0.00	2.38	-0.73	-0.00	607.25	-0.988
	4	-2.58	0.43	0.00	2.58	-0.43	0.00	1033.31	0.581
	5	3.70	-1.20	-0.00	-3.70	1.20	-0.00	368.29	-1.629
6	-1.28	1.21	0.00	1.28	-1.21	0.00	364.99	1.644	
9-10	1	0.15	1.36	-0.89	-0.15	1.62	1.77	1345.52	-0.557
	2	2.22	2.09	-1.33	-2.22	2.49	2.83	909.11	-0.825
	3	-0.87	-0.40	-2.40	0.87	0.64	-1.03	47812.62	-0.016
	4	-0.90	-0.25	-2.22	0.90	0.96	-1.07	3561.05	0.211
	5	4.51	-0.20	-5.63	-4.51	3.20	-7.04	834.96	-0.877
6	-4.21	2.96	-7.62	4.21	-3.04	-3.95	3156.97	-0.238	

** MAIN FRAME STRESS AND DEFLECTION TABLE (FOR COMBINED LOAD)

** 1 - FRAME

MEMBER I - J	LOAD NO.	AXIAL (I) (TON)	SHEAR (I) (TON)	MOMENT (I) (T.M)	AXIAL (J) (TON)	SHEAR (J) (TON)	MOMENT (J) (T.M)	DEFLECTION (L/DELT.)	(CM)
10 11	1	0.05	0.76	-1.15	-0.05	0.50	0.39	32055.19	-0.019
	2	0.06	1.44	-1.98	-0.08	1.08	0.89	5789.04	-0.104
	3	1.77	-1.22	1.83	-1.77	-0.58	0.10	3450.82	0.172
	4	-0.47	-0.56	-0.13	0.47	-1.24	-1.08	3231.91	0.156
	5	3.05	-0.19	1.70	-3.05	1.45	3.19	15954.79	-0.038
	6	-2.95	1.70	-4.01	2.95	-0.44	-2.40	0.00	0.000
11 12	1	0.04	0.50	-0.34	-0.04	0.56	0.48	18828.46	-0.024
	2	0.06	0.93	-0.74	-0.06	0.96	0.81	13344.30	-0.034
	3	1.33	-1.53	2.59	-1.33	-0.06	1.06	81164.88	-0.006
	4	0.05	-0.05	-1.28	-0.05	-1.52	-2.32	10612.04	0.043
	5	1.56	-1.74	3.15	-1.56	2.79	5.27	4935.08	-0.093
	6	-1.58	2.73	-5.82	1.58	-1.68	-4.32	10372.51	0.044
12 13	1	0.03	0.56	-0.43	-0.03	0.59	0.52	14044.25	-0.036
	2	0.04	0.99	-0.74	-0.04	1.05	0.92	1642.04	-0.065
	3	0.62	-1.35	1.97	-0.62	-0.25	0.77	6025.47	0.062
	4	0.59	-0.17	-0.91	-0.59	-1.43	-2.26	11090.81	0.045
	5	0.17	-1.11	3.64	-0.17	2.26	4.76	35489.41	-0.014
	6	-0.12	2.22	-4.49	0.12	-1.07	-3.73	8754.27	-0.057
13 14	1	0.02	0.56	-0.45	-0.02	0.59	0.52	15291.13	-0.033
	2	0.03	1.01	-0.81	-0.03	1.04	0.91	8632.93	-0.058
	3	0.34	-1.37	2.14	-0.34	-0.23	0.71	13912.13	0.036
	4	1.13	-0.14	-0.97	-1.13	-1.46	-2.33	11592.33	0.043
	5	-1.20	-1.22	3.99	1.20	2.37	5.00	17773.22	-0.026
	6	1.32	2.35	-4.89	-1.32	-1.20	-3.96	13417.32	-0.037
14 15	1	0.01	0.57	-0.46	-0.01	0.58	0.48	13673.91	-0.037
	2	0.01	1.02	-0.82	-0.01	1.03	0.84	7668.35	-0.065
	3	-0.16	-1.35	2.28	0.16	-0.08	1.30	5617.36	0.089
	4	1.56	-0.22	-0.87	-1.56	-1.34	-2.03	7445.38	0.067
	5	-2.74	-1.02	3.72	2.74	2.17	4.27	6138.76	-0.091
	6	2.75	2.17	-4.64	-2.75	-1.02	-3.52	60114.46	0.008
15 16	1	-0.01	0.52	-0.59	0.01	0.63	0.69	26035.09	-0.019
	2	-0.01	0.92	-0.71	0.01	1.13	1.22	14497.27	-0.034
	3	-0.60	-0.71	1.35	0.60	-0.89	-1.80	2976.58	-0.168
	4	2.22	0.13	-1.34	-2.22	-1.78	-3.56	8677.52	-0.058
	5	-4.26	-1.97	4.83	4.26	3.12	7.30	2335.83	0.214
	6	4.24	3.00	-5.62	-4.24	-1.85	-6.52	1980.50	-0.252
16 17	1	-0.00	0.57	-0.72	0.00	-0.00	0.00	12350.64	0.020
	2	-0.00	1.02	-1.28	0.00	-0.00	0.00	6925.33	0.036
	3	-0.00	-4.93	6.16	0.00	-0.00	0.00	1441.95	-0.173
	4	-0.00	-0.80	1.00	-0.00	-0.00	0.00	8876.53	-0.028
	5	-0.00	0.57	-0.72	0.00	-0.00	-0.00	12350.92	0.020
	6	0.00	0.58	-0.72	-0.00	-0.00	0.00	12350.42	0.020

** MAIN FRAME REACTION TABLE (FOR COMBINED LOAD)

** 1 - FRAME

NODE NO.	LOAD NO.	H. FORCE (TON)	V. FORCE (TON)	MOMENT (T.M)	NODE NO.	LOAD NO.	H. FORCE (TON)	V. FORCE (TON)	MOMENT (T.M)
1	1	0.15	1.38	0.00	2	1	-0.10	2.37	0.00
	2	0.22	2.09	0.00		2	-0.14	3.95	0.00
	3	-0.40	-0.27	0.00		3	-0.48	-1.18	0.00
	4	0.37	0.25	0.00		4	0.49	-1.63	0.00
	5	-0.24	-0.20	0.00		5	-1.47	3.01	0.00
	6	1.24	2.96	0.00		6	1.26	1.74	0.00
3	1	-0.01	1.00	0.00	4	1	-0.01	1.12	0.00
	2	-0.02	2.01	0.00		2	-0.01	1.95	0.00
	3	-0.45	-2.11	0.00		3	-0.51	-1.25	0.00
	4	0.53	-1.20	0.00		4	0.54	-1.69	0.00
	5	-1.59	-0.29	0.00		5	-1.48	1.69	0.00
	6	1.37	2.30	0.00		6	1.47	0.54	0.00
5	1	-0.01	1.15	0.00	6	1	-0.01	1.16	0.00
	2	-0.02	2.07	0.00		2	-0.02	2.07	0.00
	3	-0.46	-1.62	0.00		3	-0.50	-1.75	0.00
	4	0.54	-1.58	0.00		4	0.53	-1.68	0.00
	5	-1.46	-0.23	0.00		5	-1.45	1.35	0.00
	6	1.44	1.28	0.00		6	1.43	0.97	0.00
7	1	-0.01	1.10	0.00	8	1	0.01	1.21	0.00
	2	-0.02	1.95	0.00		2	0.01	2.15	0.00
	3	-0.44	-0.79	0.00		3	-0.73	-5.81	0.00
	4	0.56	-1.20	0.00		4	0.43	-2.68	0.00
	5	-1.52	0.28	0.00		5	-1.20	3.70	0.00
	6	1.49	1.99	0.00		6	1.21	-1.28	0.00

** DESIGN OF MAIN FRAME

* ALL STRESSES ARE REPLACED WITH SHORT TERM F = 2400 (KG/CM²)

* 1 - FRAME

MEMBER NO.	LOAD NO.	H1 (T.M)	NC (T.M)	M2 (T.M)	MOMENT SHEAR	AXIAL (T)	LX (M)	LY (M)	FC (KG/CM ²)	LB (M)	C	F _B FS	SIGMA/F TAU/F
1	9	6	0.0 +- 3.7	7.4	7.4 1.2	-3.0	0.00	6.00	1004.	6.00	1.75	2400. 1350.	0.701 0.057
2	10	5	-0.0 +- 4.4	-8.8	8.8 1.5	-3.0	0.00	6.00	1004.	6.00	1.75	2400. 1350.	0.824 0.068
3	11	6	0.0 +- 4.1	8.2	8.2 1.4	-2.3	0.00	6.00	1004.	6.00	1.75	2400. 1350.	0.762 0.063
4	12	5	-0.0 +- 4.5	-8.9	8.9 1.5	-1.7	0.00	6.00	1004.	6.00	1.75	2400. 1350.	0.813 0.069
5	13	5	0.0 +- 4.4	-8.8	8.8 1.5	-1.0	0.00	6.00	1004.	6.00	1.75	2400. 1350.	0.789 0.068
6	14	5	-0.0 +- 4.4	-8.7	8.7 1.5	-1.3	0.00	6.00	1004.	6.00	1.75	2400. 1350.	0.791 0.067
7	15	6	0.0 +- 4.5	8.9	8.9 1.5	-2.0	0.00	6.00	1004.	6.00	1.75	2400. 1350.	0.821 0.069
8	16	5	-0.0 +- 3.6	-7.2	7.2 1.2	-3.7	0.00	6.00	1004.	6.00	1.75	2400. 1350.	0.691 0.055
9	10	5	5.6 +- 4.6	-2.1	5.6 1.7	-4.5	0.00	3.75	1094.	3.75	1.40	2400. 1350.	0.783 0.077
			2.1 +- 1.8	7.1	7.1 3.2	-4.5	0.00	3.75	1094.	3.75	2.08	2090. 1350.	0.899 0.144
10	11	6	-4.0 +- 1.7	-0.1	4.0 1.7	3.0	0.00	3.00	2400.	3.00	1.79	2070. 1350.	0.638 0.101
			0.1 +- 1.5	-2.4	2.4 1.1	3.0	0.00	3.00	2400.	3.00	1.69	2060. 1350.	0.388 0.064
11	12	5	5.1 +- 0.5	5.3	5.3 2.8	-1.7	0.00	4.60	734.	4.60	2.30	1985. 1350.	0.681 0.126
12	13	5	3.6 +- 0.2	4.8	4.8 2.3	-0.2	0.00	5.00	621.	5.00	2.30	1910. 1350.	0.595 0.102
13	14	6	-4.9 +- 0.3	-4.0	4.9 2.3	-1.3	0.00	5.00	621.	5.00	2.30	1910. 1350.	0.656 0.106
14	15	6	-4.6 +- 0.1	-3.3	4.6 2.2	-2.8	0.00	5.00	621.	5.00	2.30	1910. 1350.	0.681 0.098
15	16	6	-5.6 +- 1.2	-6.5	5.5 3.0	-4.2	0.00	5.00	621.	5.00	2.30	1910. 1350.	0.973 0.136
16	17	3	6.2 +- 1.5	0.0	6.2 4.9	0.0	0.00	2.50	2400.	2.50	1.75	2170. 1350.	0.993 0.294

接板断面設計別紙
参照: 20
DESIGN MEMBER

- H-200x200x8.0x12.0
- H-200x200x8.0x12.0
- H-200x200x8.0x12.0
- H-200x200x8.0x12.0
- H-200x200x8.0x12.0
- H-200x200x8.0x12.0
- H-200x200x8.0x12.0
- H-200x200x8.0x12.0
- H-200x200x8.0x12.0
- H-346x194x6.0x9.0
H-298x149x5.5x8.0
- H-346x194x6.0x9.0
H-248x124x5.0x8.0
- H-300x150x6.5x9.0
H-298x149x5.5x8.0
- H-300x150x6.5x9.0
H-298x149x5.5x8.0
- H-300x150x6.5x9.0
H-298x149x5.5x8.0
- H-300x150x6.5x9.0
H-298x149x5.5x8.0
- H-298x149x5.5x8.0
H-248x124x5.0x8.0

H-248x250x6x9

##	COLUMN	##	10	20	30	40	50	60	70	80
##	INPUT DATA	##	(START	007	80268					GB190010)
##	INPUT DATA	##	(ISEZAKI	DROSHI	ICHIBA	SOKU 3				GB190020)
##	INPUT DATA	##	(	-6819		80-9-17 3	2 2			GB190030)
##	INPUT DATA	##	(	17	8	16	1			GB190100)
##	INPUT DATA	##	(	4110	0.	1	0.	2110	7.5	0.
##	INPUT DATA	##	(	4110	18.1	0.	0.	5110	23.1	0.
##	INPUT DATA	##	(	7110	33.1	0.	0.	9110	33.1	0.
##	INPUT DATA	##	(	10	7.5	6.	11	13.5	6.	12
##	INPUT DATA	##	(	13	27.5	6.	14	28.1	6.	15
##	INPUT DATA	##	(	16	38.1	6.	17	40.6	6.	
##	INPUT DATA	##	(	3						
##	INPUT DATA	##	(	1	1	1	1	2	1	1
##	INPUT DATA	##	(	1	1	1	1	3	1	1
##	INPUT DATA	##	(	2	2	2	2	10		
##	INPUT DATA	##	(	3	3	3	3	11		
##	INPUT DATA	##	(	4	4	4	4	12		
##	INPUT DATA	##	(	5	5	5	5	13		
##	INPUT DATA	##	(	6	6	6	6	14		
##	INPUT DATA	##	(	7	7	7	7	15		
##	INPUT DATA	##	(	8	8	8	8	16		
##	INPUT DATA	##	(	9	9	9	9	17		
##	INPUT DATA	##	(	10	10	10	10	11		
##	INPUT DATA	##	(	11	11	11	11	12		
##	INPUT DATA	##	(	12	12	12	12	13		
##	INPUT DATA	##	(	13	13	13	13	14		
##	INPUT DATA	##	(	14	14	14	14	15		
##	INPUT DATA	##	(	15	15	15	15	16		
##	INPUT DATA	##	(	16	16	16	16	17		
##	INPUT DATA	##	(	3						
##	INPUT DATA	##	(	11	1	12	13	14	15	1 1 2 3 4 5 6
##	INPUT DATA	##	(	1	1	7	8			
##	INPUT DATA	##	(	6						
##	INPUT DATA	##	(	1	1					
##	INPUT DATA	##	(	2	1	1.0	2			
##	INPUT DATA	##	(	3	1	1.0	3			
##	INPUT DATA	##	(	4	1	1.0	4			
##	INPUT DATA	##	(	5	1	1.0	5			
##	INPUT DATA	##	(	6	1	1.0	6			
##	INPUT DATA	##	(	6	6	15				
##	INPUT DATA	##	(	10EAD+1V	25KGW		3WIND (L)	4WIND (L)	5SEIS (R)	6SEIS (L)
##	INPUT DATA	##	(	3	-2.65					
##	INPUT DATA	##	(	3	-1.33					
##	INPUT DATA	##	(	4	-1.33					
##	INPUT DATA	##	(	4	-2.65					
##	INPUT DATA	##	(	5	-3.45					
##	INPUT DATA	##	(	6	-5.45					
##	INPUT DATA	##	(	1GZ	-0.4					
##	INPUT DATA	##	(	1GZ	-0.21					
##	INPUT DATA	##	(	1GZ	-0.23					
##	INPUT DATA	##	(	1GZ	-0.23					
##	INPUT DATA	##	(	2GZ	-0.21					
##	INPUT DATA	##	(	2GZ	-0.18					
##	INPUT DATA	##	(	2GZ	-0.18					
##	INPUT DATA	##	(	3LZ	0.51					
##	INPUT DATA	##	(	3LZ	0.55					
##	INPUT DATA	##	(	3LZ	2.2					
##	INPUT DATA	##	(	4LZ	0.51					
##	INPUT DATA	##	(	4LZ	0.55					
##	INPUT DATA	##	(	4LZ	0.55					