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# 1章 照査結果

## 1.1 せん断照査結果

### 1.1.1 平均せん断応力度(一覧)

施工ステップ13

bw (m)	d (m)	Sh (kN)	$\tau$ (N/mm <sup>2</sup> )	$\tau_a$ (N/mm <sup>2</sup> )	ケース
<b>【部材No. 1-i】</b>					
1.200	2.500	1972.318	-0.34	0.55	全死荷重時
1.200	2.500	1388.934	-0.53	0.55	設計時 活Smin
1.200	2.500	1388.934	-0.53	0.55	温度時 活Smin 温差
<b>【部材No. 1-j】</b>					
1.200	2.500	1716.063	-0.43	0.55	全死荷重時
1.200	2.500	1131.979	-0.62	0.55	設計時 活Smin
1.200	2.500	1131.979	-0.62	0.55	温度時 活Smin 温差
<b>【部材No. 2-i】</b>					
1.200	2.500	1716.063	-0.43	0.55	全死荷重時
1.200	2.500	1131.979	-0.62	0.55	設計時 活Smin
1.200	2.500	1131.979	-0.62	0.55	温度時 活Smin 温差
<b>【部材No. 2-j】</b>					
1.200	2.500	1685.312	-0.44	0.55	全死荷重時
1.200	2.500	1101.051	-0.63	0.55	設計時 活Smin
1.200	2.500	1101.051	-0.63	0.55	温度時 活Smin 温差
<b>【部材No. 3-i】</b>					
1.200	2.500	1685.312	-0.44	0.55	全死荷重時
1.200	2.500	1101.051	-0.63	0.55	設計時 活Smin
1.200	2.500	1101.051	-0.63	0.55	温度時 活Smin 温差
<b>【部材No. 3-j】</b>					
1.067	2.500	1052.668	-0.58	0.55	全死荷重時
1.067	2.500	459.824	-0.80	0.55	設計時 活Smin
1.067	2.500	459.824	-0.80	0.55	温度時 活Smin 温差
<b>【部材No. 4-i】</b>					
1.067	2.500	1052.668	-0.57	0.55	全死荷重時
1.067	2.500	459.824	-0.80	0.55	設計時 活Smin
1.067	2.500	459.824	-0.80	0.55	温度時 活Smin 温差
<b>【部材No. 4-j】</b>					
0.933	2.500	467.630	0.20	0.55	全死荷重時
0.933	2.500	1679.958	0.72	0.55	設計時 活Smax
0.933	2.500	1679.958	0.72	0.55	温度時 活Smax 温差
<b>【部材No. 5-i】</b>					
0.933	2.500	467.630	0.20	0.55	全死荷重時
0.933	2.500	1679.958	0.72	0.55	設計時 活Smax
0.933	2.500	1679.958	0.72	0.55	温度時 活Smax 温差
<b>【部材No. 5-j】</b>					
0.800	2.500	-68.060	-0.03	0.55	全死荷重時
0.800	2.500	995.372	0.50	0.55	設計時 活Smax
0.800	2.500	995.372	0.50	0.55	温度時 活Smax 温差
<b>【部材No. 6-i】</b>					
0.800	2.500	-68.060	1.36	0.55	全死荷重時
0.800	2.500	995.372	1.89	0.55	設計時 活Smax
0.800	2.500	995.372	1.89	0.55	温度時 活Smax 温差
<b>【部材No. 6-j】</b>					
0.800	2.521	-627.235	-0.07	0.55	全死荷重時
0.800	2.521	-1324.906	-0.41	0.55	設計時 活Smin
0.800	2.521	-1324.906	-0.41	0.55	温度時 活Smin 温差
<b>【部材No. 7-i】</b>					
0.800	2.521	-627.235	-0.07	0.55	全死荷重時
0.800	2.521	-1324.906	-0.41	0.55	設計時 活Smin
0.800	2.521	-1324.906	-0.41	0.55	温度時 活Smin 温差
<b>【部材No. 7-j】</b>					
0.800	2.585	-1189.323	-0.72	0.55	全死荷重時
0.800	2.585	-2010.693	-1.12	0.55	設計時 活Smin
0.800	2.585	-2010.693	-1.12	0.55	温度時 活Smin 温差

bw (m)	d (m)	Sh (kN)	$\tau$ (N/mm <sup>2</sup> )	$\tau a$ (N/mm <sup>2</sup> )	ケース
<b>【部材No. 8-i】</b>					
0.800	2.585	-1189.323	-0.72	0.55	全死荷重時
0.800	2.585	-2010.693	-1.12	0.55	設計時 活Smin
0.800	2.585	-2010.693	-1.12	0.55	温度時 活Smin 温差
<b>【部材No. 8-j】</b>					
0.800	2.691	-1757.238	-1.02	0.55	全死荷重時
0.800	2.691	-2707.954	-1.47	0.55	設計時 活Smin
0.800	2.691	-2707.954	-1.47	0.55	温度時 活Smin 温差
<b>【部材No. 9-i】</b>					
0.800	2.691	-1757.238	0.22	0.55	全死荷重時
0.800	2.691	-1097.143	0.53	0.55	設計時 活Smax
0.800	2.691	-1097.143	0.53	0.55	温度時 活Smax 温差
<b>【部材No. 9-j】</b>					
0.900	2.840	-2353.734	-0.91	0.55	全死荷重時
0.900	2.840	-3438.009	-1.33	0.55	設計時 活Smin
0.900	2.840	-3438.009	-1.33	0.55	温度時 活Smin 温差
<b>【部材No. 10-i】</b>					
0.900	2.840	-2353.734	-0.91	0.55	全死荷重時
0.900	2.840	-3438.009	-1.33	0.55	設計時 活Smin
0.900	2.840	-3438.009	-1.33	0.55	温度時 活Smin 温差
<b>【部材No. 10-j】</b>					
1.000	3.031	-3002.776	-1.23	0.55	全死荷重時
1.000	3.031	-4223.695	-1.64	0.55	設計時 活Smin
1.000	3.031	-4223.695	-1.64	0.55	温度時 活Smin 温差
<b>【部材No. 11-i】</b>					
1.000	3.031	-3002.776	-1.23	0.55	全死荷重時
1.000	3.031	-4223.695	-1.64	0.55	設計時 活Smin
1.000	3.031	-4223.695	-1.64	0.55	温度時 活Smin 温差
<b>【部材No. 11-j】</b>					
1.100	3.265	-3710.248	-1.28	0.55	全死荷重時
1.100	3.265	-5070.204	-1.66	0.55	設計時 活Smin
1.100	3.265	-5070.204	-1.66	0.55	温度時 活Smin 温差
<b>【部材No. 12-i】</b>					
1.100	3.265	-3710.248	-0.50	0.55	全死荷重時
1.100	3.265	-5070.204	-0.88	0.55	設計時 活Smin
1.100	3.265	-5070.204	-0.88	0.55	温度時 活Smin 温差
<b>【部材No. 12-j】</b>					
1.100	3.500	-4359.600	-0.98	0.55	全死荷重時
1.100	3.500	-5840.429	-1.36	0.55	設計時 活Smin
1.100	3.500	-5840.429	-1.36	0.55	温度時 活Smin 温差
<b>【部材No. 13-i】</b>					
1.100	3.500	-4359.600	-0.98	0.55	全死荷重時
1.100	3.500	-5840.429	-1.36	0.55	設計時 活Smin
1.100	3.500	-5840.429	-1.36	0.55	温度時 活Smin 温差
<b>【部材No. 13-j】</b>					
1.200	3.766	-5054.221	-1.37	0.55	全死荷重時
1.200	3.766	-6657.369	-1.72	0.55	設計時 活Smin
1.200	3.766	-6657.369	-1.72	0.55	温度時 活Smin 温差
<b>【部材No. 14-i】</b>					
1.200	3.766	-5054.221	-1.37	0.55	全死荷重時
1.200	3.766	-6657.369	-1.72	0.55	設計時 活Smin
1.200	3.766	-6657.369	-1.72	0.55	温度時 活Smin 温差
<b>【部材No. 14-j】</b>					
1.200	4.064	-5797.597	-0.93	0.55	全死荷重時
1.200	4.064	-7524.509	-1.28	0.55	設計時 活Smin
1.200	4.064	-7524.509	-1.28	0.55	温度時 活Smin 温差
<b>【部材No. 15-i】</b>					
1.200	4.064	-5797.597	-0.93	0.55	全死荷重時
1.200	4.064	-7524.509	-1.28	0.55	設計時 活Smin
1.200	4.064	-7524.509	-1.28	0.55	温度時 活Smin 温差
<b>【部材No. 15-j】</b>					
1.300	4.393	-6595.321	-0.66	0.55	全死荷重時
1.300	4.393	-8447.496	-0.98	0.55	設計時 活Smin
1.300	4.393	-8447.496	-0.98	0.55	温度時 活Smin 温差

bw (m)	d (m)	Sh (kN)	$\tau$ (N/mm <sup>2</sup> )	$\tau a$ (N/mm <sup>2</sup> )	ケース
<b>【部材No. 16-i】</b>					
1.300	4.393	-6595.321	-0.16	0.55	全死荷重時
1.300	4.393	-8447.496	-0.48	0.55	設計時 活Smin
1.300	4.393	-8447.496	-0.48	0.55	温度時 活Smin 温差
<b>【部材No. 16-j】</b>					
1.300	4.692	-7305.271	-0.32	0.55	全死荷重時
1.300	4.692	-9263.059	-0.64	0.55	設計時 活Smin
1.300	4.692	-9263.059	-0.64	0.55	温度時 活Smin 温差
<b>【部材No. 17-i】</b>					
1.300	4.692	-7305.271	-0.32	0.55	全死荷重時
1.300	4.692	-9263.059	-0.64	0.55	設計時 活Smin
1.300	4.692	-9263.059	-0.64	0.55	温度時 活Smin 温差
<b>【部材No. 17-j】</b>					
1.300	5.013	-8049.236	-0.79	0.55	全死荷重時
1.300	5.013	-10113.804	-1.11	0.55	設計時 活Smin
1.300	5.013	-10113.804	-1.11	0.55	温度時 活Smin 温差
<b>【部材No. 18-i】</b>					
1.300	5.013	-8049.236	-0.38	0.55	全死荷重時
1.300	5.013	-10113.804	-0.70	0.55	設計時 活Smin
1.300	5.013	-10113.804	-0.70	0.55	温度時 活Smin 温差
<b>【部材No. 18-j】</b>					
1.300	5.464	-9070.284	-0.97	0.55	全死荷重時
1.300	5.464	-11275.487	-1.28	0.55	設計時 活Smin
1.300	5.464	-11275.487	-1.28	0.55	温度時 活Smin 温差
<b>【部材No. 19-i】</b>					
1.300	5.464	-9070.284	-0.97	0.55	全死荷重時
1.300	5.464	-11275.487	-1.28	0.55	設計時 活Smin
1.300	5.464	-11275.487	-1.28	0.55	温度時 活Smin 温差
<b>【部材No. 19-j】</b>					
1.300	5.500	-9151.418	-1.08	0.55	全死荷重時
1.300	5.500	-11367.534	-1.39	0.55	設計時 活Smin
1.300	5.500	-11367.534	-1.39	0.55	温度時 活Smin 温差
<b>【部材No. 20-i】</b>					
1.300	5.500	-9151.418	-1.08	0.55	全死荷重時
1.300	5.500	-11367.534	-1.39	0.55	設計時 活Smin
1.300	5.500	-11367.534	-1.39	0.55	温度時 活Smin 温差
<b>【部材No. 20-j】</b>					
1.300	5.500	-9964.665	-1.39	0.55	全死荷重時
1.300	5.500	-12290.579	-1.72	0.55	設計時 活Smin
1.300	5.500	-12290.579	-1.72	0.55	温度時 活Smin 温差
<b>【部材No. 21-i】</b>					
1.300	5.500	10400.064	1.45	0.55	全死荷重時
1.300	5.500	12833.693	1.79	0.55	設計時 活Smax
1.300	5.500	12833.693	1.79	0.55	温度時 活Smax 温差
<b>【部材No. 21-j】</b>					
1.300	5.500	9586.818	1.14	0.55	全死荷重時
1.300	5.500	11923.679	1.47	0.55	設計時 活Smax
1.300	5.500	11923.679	1.47	0.55	温度時 活Smax 温差
<b>【部材No. 22-i】</b>					
1.300	5.500	9586.818	1.14	0.55	全死荷重時
1.300	5.500	11923.679	1.47	0.55	設計時 活Smax
1.300	5.500	11923.679	1.47	0.55	温度時 活Smax 温差
<b>【部材No. 22-j】</b>					
1.300	5.469	9505.665	1.04	0.55	全死荷重時
1.300	5.469	11832.882	1.37	0.55	設計時 活Smax
1.300	5.469	11832.882	1.37	0.55	温度時 活Smax 温差
<b>【部材No. 23-i】</b>					
1.300	5.469	9505.665	1.04	0.55	全死荷重時
1.300	5.469	11832.882	1.37	0.55	設計時 活Smax
1.300	5.469	11832.882	1.37	0.55	温度時 活Smax 温差
<b>【部材No. 23-j】</b>					
1.300	5.077	8481.068	0.51	0.55	全死荷重時
1.300	5.077	10683.570	0.84	0.55	設計時 活Smax
1.300	5.077	10683.570	0.84	0.55	温度時 活Smax 温差

bw (m)	d (m)	Sh (kN)	$\tau$ (N/mm <sup>2</sup> )	$\tau a$ (N/mm <sup>2</sup> )	ケース
<b>【部材No. 24-i】</b>					
1.300	5.077	8481.068	0.92	0.55	全死荷重時
1.300	5.077	10683.570	1.25	0.55	設計時 活Smax
1.300	5.077	10683.570	1.25	0.55	温度時 活Smax 温差
<b>【部材No. 24-j】</b>					
1.300	4.797	7730.389	0.45	0.55	全死荷重時
1.300	4.797	9837.699	0.79	0.55	設計時 活Smax
1.300	4.797	9837.699	0.79	0.55	温度時 活Smax 温差
<b>【部材No. 25-i】</b>					
1.300	4.797	7730.389	0.45	0.55	全死荷重時
1.300	4.797	9837.699	0.79	0.55	設計時 活Smax
1.300	4.797	9837.699	0.79	0.55	温度時 活Smax 温差
<b>【部材No. 25-j】</b>					
1.300	4.536	7010.597	0.30	0.55	全死荷重時
1.300	4.536	9023.374	0.64	0.55	設計時 活Smax
1.300	4.536	9023.374	0.64	0.55	温度時 活Smax 温差
<b>【部材No. 26-i】</b>					
1.300	4.536	7010.597	0.78	0.55	全死荷重時
1.300	4.536	9023.374	1.12	0.55	設計時 活Smax
1.300	4.536	9023.374	1.12	0.55	温度時 活Smax 温差
<b>【部材No. 26-j】</b>					
1.200	4.246	6198.025	0.92	0.55	全死荷重時
1.200	4.246	8098.258	1.29	0.55	設計時 活Smax
1.200	4.246	8098.258	1.29	0.55	温度時 活Smax 温差
<b>【部材No. 27-i】</b>					
1.200	4.246	6198.025	0.92	0.55	全死荷重時
1.200	4.246	8098.258	1.29	0.55	設計時 活Smax
1.200	4.246	8098.258	1.29	0.55	温度時 活Smax 温差
<b>【部材No. 27-j】</b>					
1.200	3.983	5437.014	1.28	0.55	全死荷重時
1.200	3.983	7225.699	1.65	0.55	設計時 活Smax
1.200	3.983	7225.699	1.65	0.55	温度時 活Smax 温差
<b>【部材No. 28-i】</b>					
1.200	3.983	5437.014	1.28	0.55	全死荷重時
1.200	3.983	7225.699	1.65	0.55	設計時 活Smax
1.200	3.983	7225.699	1.65	0.55	温度時 活Smax 温差
<b>【部材No. 28-j】</b>					
1.100	3.747	4722.809	0.91	0.55	全死荷重時
1.100	3.747	6401.033	1.32	0.55	設計時 活Smax
1.100	3.747	6401.033	1.32	0.55	温度時 活Smax 温差
<b>【部材No. 29-i】</b>					
1.100	3.747	4722.809	0.91	0.55	全死荷重時
1.100	3.747	6401.033	1.32	0.55	設計時 活Smax
1.100	3.747	6401.033	1.32	0.55	温度時 活Smax 温差
<b>【部材No. 29-j】</b>					
1.100	3.537	4052.468	0.46	0.55	全死荷重時
1.100	3.537	5621.453	0.86	0.55	設計時 活Smax
1.100	3.537	5621.453	0.86	0.55	温度時 活Smax 温差
<b>【部材No. 30-i】</b>					
1.100	3.537	4052.468	1.18	0.55	全死荷重時
1.100	3.537	5621.453	1.58	0.55	設計時 活Smax
1.100	3.537	5621.453	1.58	0.55	温度時 活Smax 温差
<b>【部材No. 30-j】</b>					
1.000	3.325	3319.553	1.13	0.55	全死荷重時
1.000	3.325	4762.932	1.57	0.55	設計時 活Smax
1.000	3.325	4762.932	1.57	0.55	温度時 活Smax 温差

## 1.1.2 斜引張応力度(一覧)

## 施工ステップ13

## 許容斜引張応力度

全死荷重時  $\sigma I_a = -1.00$  (N/mm<sup>2</sup>)設計時  $\sigma I_a = -2.00$  (N/mm<sup>2</sup>)温度時  $\sigma I_a = -2.00$  (N/mm<sup>2</sup>)

部材No.	bw (m)	Sp (kN)	S (kN)	$\sigma I$ (N/mm <sup>2</sup> )	$\sigma I_a$ (N/mm <sup>2</sup> )	荷重状態
1-i	1.200	2977.320	1388.934	-0.35	-2.00	設計時・せん断
1-j	1.200	3000.069	1716.063	-0.23	-1.00	全死荷重時・せん断
2-i	1.200	3000.069	1716.063	-0.23	-1.00	全死荷重時・せん断
2-j	1.200	3002.020	1685.312	-0.23	-1.00	全死荷重時・せん断
3-i	1.200	3001.144	1685.312	-0.23	-1.00	全死荷重時・せん断
3-j	1.067	2587.551	1052.668	-0.29	-1.00	全死荷重時・せん断
4-i	1.067	2586.001	1052.668	-0.29	-1.00	全死荷重時・せん断
4-j	0.933	0.000	1679.958	-0.44	-2.00	設計時・せん断
5-i	0.933	0.000	1679.958	-0.44	-2.00	設計時・せん断
5-j	0.800	0.000	995.372	-0.32	-2.00	設計時・せん断
6-i	0.800	-2779.664	-68.060	-0.78	-1.00	全死荷重時・せん断
6-j	0.800	-487.911	287.312	-0.11	-2.00	設計時・せん断
7-i	0.800	-487.907	287.312	-0.11	-2.00	設計時・せん断
7-j	0.800	300.036	-2010.693	-0.47	-2.00	設計時・せん断
8-i	0.800	300.037	-2010.693	-0.47	-2.00	設計時・せん断
8-j	0.800	447.544	-1757.238	-0.45	-1.00	全死荷重時・せん断
9-i	0.800	-2236.318	-1097.143	-0.09	-2.00	設計時・せん断
9-j	0.900	-34.324	-3438.009	-0.54	-2.00	設計時・せん断
10-i	0.900	-34.979	-3438.009	-0.54	-2.00	設計時・せん断
10-j	1.000	737.291	-3002.776	-0.54	-1.00	全死荷重時・せん断
11-i	1.000	737.255	-3002.776	-0.54	-1.00	全死荷重時・せん断
11-j	1.100	879.874	-3710.248	-0.69	-1.00	全死荷重時・せん断
12-i	1.100	-1899.482	-5070.204	-0.30	-2.00	設計時・せん断
12-j	1.100	-590.975	-4359.600	-0.33	-1.00	全死荷重時・せん断
13-i	1.100	-592.272	-4359.600	-0.33	-1.00	全死荷重時・せん断
13-j	1.200	1120.325	-5054.221	-0.67	-1.00	全死荷重時・せん断
14-i	1.200	1120.175	-5054.221	-0.67	-1.00	全死荷重時・せん断
14-j	1.200	-1275.513	-7524.509	-0.83	-2.00	設計時・せん断
15-i	1.200	-1275.285	-7524.509	-0.83	-2.00	設計時・せん断
15-j	1.300	-2843.887	-8447.496	-0.63	-2.00	設計時・せん断
16-i	1.300	-5683.599	-8447.496	-0.12	-2.00	設計時・せん断
16-j	1.300	-5340.000	-9263.059	-0.18	-2.00	設計時・せん断
17-i	1.300	-5340.289	-9263.059	-0.18	-2.00	設計時・せん断
17-j	1.300	-2880.271	-10113.804	-0.47	-2.00	設計時・せん断
18-i	1.300	-5557.717	-10113.804	-0.15	-2.00	設計時・せん断
18-j	1.300	-2190.939	-9070.284	-0.29	-1.00	全死荷重時・せん断
19-i	1.300	-2191.008	-9070.284	-0.29	-1.00	全死荷重時・せん断
19-j	1.300	-1458.413	-9151.418	-0.35	-1.00	全死荷重時・せん断
20-i	1.300	-1458.399	-9151.418	-0.35	-1.00	全死荷重時・せん断
20-j	1.300	0.000	-9964.665	-0.56	-1.00	全死荷重時・せん断
21-i	1.300	0.000	10400.064	-0.61	-1.00	全死荷重時・せん断
21-j	1.300	1415.556	9586.818	-0.40	-1.00	全死荷重時・せん断
22-i	1.300	1415.570	9586.818	-0.40	-1.00	全死荷重時・せん断
22-j	1.300	2118.185	9505.665	-0.33	-1.00	全死荷重時・せん断
23-i	1.300	2118.108	9505.665	-0.33	-1.00	全死荷重時・せん断
23-j	1.300	5118.247	10683.570	-0.22	-2.00	設計時・せん断
24-i	1.300	2433.860	8481.068	-0.29	-1.00	全死荷重時・せん断
24-j	1.300	4893.415	9837.699	-0.25	-2.00	設計時・せん断
25-i	1.300	4893.093	9837.699	-0.25	-2.00	設計時・せん断
25-j	1.300	5247.098	9023.374	-0.17	-2.00	設計時・せん断
26-i	1.300	2410.286	9023.374	-0.67	-2.00	設計時・せん断
26-j	1.200	1523.876	8098.258	-0.71	-2.00	設計時・せん断
27-i	1.200	1524.224	8098.258	-0.71	-2.00	設計時・せん断
27-j	1.200	-670.918	5437.014	-0.54	-1.00	全死荷重時・せん断
28-i	1.200	-671.034	5437.014	-0.54	-1.00	全死荷重時・せん断
28-j	1.100	977.600	4722.809	-0.27	-1.00	全死荷重時・せん断
29-i	1.100	976.314	4722.809	-0.27	-1.00	全死荷重時・せん断
29-j	1.100	2268.644	5621.453	-0.24	-2.00	設計時・せん断
30-i	1.100	-534.543	4052.468	-0.54	-1.00	全死荷重時・せん断
30-j	1.000	-454.239	3319.553	-0.47	-1.00	全死荷重時・せん断

## 1. 1. 3 ウェブ圧壊に対する耐力(一覧)

部材No.	Suc (kN)	Sh (kN)	M (kN.m)	S (kN)	M/d*tan $\gamma$ (kN)	ケース
1-i	18877.32	6504.298	0.000	6504.298	0.000	終局時 <sup>a</sup> 活Smax
1-j	18900.07	5995.348	7319.142	5995.348	0.000	終局時 <sup>a</sup> 活Smax
2-i	18900.07	5995.348	7319.142	5995.348	0.000	終局時 <sup>a</sup> 活Smax
2-j	18902.02	5934.543	8142.254	5934.543	0.000	終局時 <sup>a</sup> 活Smax
3-i	18901.14	5934.543	8142.254	5934.543	0.000	終局時 <sup>a</sup> 活Smax
3-j	16720.88	4681.966	22980.987	4681.966	0.000	終局時 <sup>a</sup> 活Smax
4-i	16719.33	4681.966	22980.987	4681.966	0.000	終局時 <sup>a</sup> 活Smax
4-j	12366.67	3519.498	32935.021	3519.498	0.000	終局時 <sup>a</sup> 活Smax
5-i	12366.67	3519.498	32935.021	3519.498	0.000	終局時 <sup>a</sup> 活Smax
5-j	10600.00	2545.881	36800.136	2590.521	44.640	終局時 <sup>b</sup> 活Smax
6-i	7820.34	2545.881	36800.136	2590.521	44.640	終局時 <sup>b</sup> 活Smax
6-j	-11177.92	-2736.802	12049.023	-2678.824	57.978	終局時 <sup>a</sup> 活Smin
7-i	-11177.91	-2736.802	12049.023	-2678.824	57.978	終局時 <sup>a</sup> 活Smin
7-j	-10660.03	-3793.751	7984.536	-3718.787	74.964	終局時 <sup>a</sup> 活Smin
8-i	-10660.03	-3793.751	7984.536	-3718.787	74.964	終局時 <sup>a</sup> 活Smin
8-j	-10962.76	-4830.200	-3809.460	-4881.751	-51.550	終局時 <sup>c</sup> 活Smin
9-i	-13646.63	-4830.200	-3809.460	-4881.751	-51.550	終局時 <sup>c</sup> 活Smin
9-j	-13580.36	-5808.274	-18388.580	-6122.845	-314.570	終局時 <sup>c</sup> 活Smin
10-i	-13581.01	-5808.274	-18388.580	-6122.845	-314.570	終局時 <sup>c</sup> 活Smin
10-j	-15327.94	-6704.738	-37600.101	-7458.510	-753.772	終局時 <sup>c</sup> 活Smin
11-i	-15327.97	-6704.738	-37600.101	-7458.510	-753.772	終局時 <sup>c</sup> 活Smin
11-j	-18156.26	-7524.468	-61805.811	-8897.576	-1373.107	終局時 <sup>c</sup> 活Smin
12-i	-20935.61	-7524.468	-61805.811	-8897.576	-1373.107	終局時 <sup>c</sup> 活Smin
12-j	-20995.13	-8136.326	-86819.887	-10206.959	-2070.633	終局時 <sup>c</sup> 活Smin
13-i	-20996.43	-8136.326	-86819.887	-10206.959	-2070.633	終局時 <sup>c</sup> 活Smin
13-j	-22831.60	-8700.461	-116007.854	-11595.756	-2895.295	終局時 <sup>c</sup> 活Smin
14-i	-22831.75	-8700.461	-116007.854	-11595.756	-2895.295	終局時 <sup>c</sup> 活Smin
14-j	-27121.31	-9219.966	-149654.124	-13069.895	-3849.929	終局時 <sup>c</sup> 活Smin
15-i	-27121.08	-9219.966	-149654.124	-13069.895	-3849.929	終局時 <sup>c</sup> 活Smin
15-j	-33113.64	-9730.399	-188031.307	-14638.973	-4908.574	終局時 <sup>c</sup> 活Smin
16-i	-35953.35	-9730.399	-188031.307	-14638.973	-4908.574	終局時 <sup>c</sup> 活Smin
16-j	-37668.94	-10110.067	-223874.634	-16025.430	-5915.362	終局時 <sup>c</sup> 活Smin
17-i	-37669.23	-10110.067	-223874.634	-16025.430	-5915.362	終局時 <sup>c</sup> 活Smin
17-j	-37421.10	-10455.549	-263414.636	-17471.696	-7016.147	終局時 <sup>c</sup> 活Smin
18-i	-40098.55	-10455.549	-263414.636	-17471.696	-7016.147	終局時 <sup>c</sup> 活Smin
18-j	-39836.36	-11127.468	-320620.899	-19446.558	-8319.090	終局時 <sup>c</sup> 活Smin
19-i	-39836.43	-11127.468	-320620.899	-19446.558	-8319.090	終局時 <sup>c</sup> 活Smin
19-j	-39353.41	-15318.173	-325303.525	-19603.038	-4284.864	終局時 <sup>c</sup> 活Smin
20-i	-39353.40	-15318.173	-325303.525	-19603.038	-4284.864	終局時 <sup>c</sup> 活Smin
20-j	-37895.00	-21172.214	-374391.614	-21172.214	0.000	終局時 <sup>c</sup> 活Smin
21-i	37895.00	21809.236	-373714.917	21809.236	0.000	終局時 <sup>c</sup> 活Smax
21-j	39310.56	16566.948	-323356.623	20262.214	3695.266	終局時 <sup>c</sup> 活Smax
22-i	39310.57	16566.948	-323356.623	20262.214	3695.266	終局時 <sup>c</sup> 活Smax
22-j	39796.66	12937.192	-318539.696	20107.858	7170.666	終局時 <sup>c</sup> 活Smax
23-i	39796.58	12937.192	-318539.696	20107.858	7170.666	終局時 <sup>c</sup> 活Smax
23-j	40098.41	12213.385	-259480.484	18154.027	5940.642	終局時 <sup>c</sup> 活Smax
24-i	37414.02	12213.385	-259480.484	18154.027	5940.642	終局時 <sup>c</sup> 活Smax
24-j	37944.96	11786.835	-218402.828	16716.047	4929.212	終局時 <sup>c</sup> 活Smax
25-i	37944.63	11786.835	-218402.828	16716.047	4929.212	終局時 <sup>c</sup> 活Smax
25-j	36497.50	11322.031	-180949.416	15331.695	4009.664	終局時 <sup>c</sup> 活Smax
26-i	33660.69	11322.031	-180949.416	15331.695	4009.664	終局時 <sup>c</sup> 活Smax
26-j	28530.24	10712.525	-140572.317	13758.996	3046.471	終局時 <sup>c</sup> 活Smax
27-i	28530.59	10712.525	-140572.317	13758.996	3046.471	終局時 <sup>c</sup> 活Smax
27-j	24663.93	10085.232	-104876.971	12275.647	2190.414	終局時 <sup>c</sup> 活Smax
28-i	24663.81	10085.232	-104876.971	12275.647	2190.414	終局時 <sup>c</sup> 活Smax
28-j	22823.21	9412.340	-73612.927	10873.715	1461.375	終局時 <sup>c</sup> 活Smax
29-i	22821.92	9412.340	-73612.927	10873.715	1461.375	終局時 <sup>c</sup> 活Smax
29-j	22890.16	8690.738	-46508.285	9548.429	857.691	終局時 <sup>c</sup> 活Smax
30-i	20086.97	8690.738	-46508.285	9548.429	857.691	終局時 <sup>c</sup> 活Smax
30-j	17170.81	7790.770	-7788.229	7920.420	129.650	終局時 <sup>a</sup> 活Smax

## 1. 1. 4 斜引張破壊に対する耐力(一覧)

部材No.	bw (m)	d (m)	Sp (kN)	Ss (kN)	SsP (kN)	Sus (kN)	Sh (kN)	k	Sc (kN)	
1-i	1.200	2.5000	2977.320	0.000	0.000	6277.320	6504.298	2.000	3300.000	NG
1-j	1.200	2.5000	3000.069	0.000	0.000	5610.756	5995.348	1.582	2610.687	NG
2-i	1.200	2.5000	3000.069	0.000	0.000	5610.757	5995.348	1.582	2610.688	NG
2-j	1.200	2.5000	3002.020	0.000	0.000	5610.635	5934.543	1.581	2608.615	NG
3-i	1.200	2.5000	3001.144	0.000	0.000	5609.475	5934.543	1.581	2608.331	NG
3-j	1.067	2.5000	2587.551	0.000	0.000	-345.783	-429.441	2.000	2933.333	NG
4-i	1.067	2.5000	2586.001	0.000	0.000	-347.333	-429.441	2.000	2933.333	NG
4-j	0.933	2.5000	0.000	0.000	0.000	2050.481	3519.498	1.598	2050.481	NG
5-i	0.933	2.5000	0.000	0.000	0.000	2049.956	3519.498	1.597	2049.956	NG
5-j	0.800	2.5000	0.000	0.000	0.000	1697.319	2545.881	1.543	1697.319	NG
6-i	0.800	2.5000	-2779.664	0.000	0.000	-795.181	2545.881	1.804	1984.483	NG
6-j	0.800	2.5212	-487.911	0.000	0.000	1237.118	1470.840	1.555	1725.029	NG
7-i	0.800	2.5212	-487.907	0.000	0.000	1237.123	1470.840	1.555	1725.030	NG
7-j	0.800	2.5849	300.036	0.000	0.000	-1974.695	-3793.751	2.000	2274.732	NG
8-i	0.800	2.5849	300.037	0.000	0.000	-1974.695	-3793.751	2.000	2274.732	NG
8-j	0.800	2.6911	447.544	0.000	0.000	-1920.633	-4830.200	2.000	2368.177	NG
9-i	0.800	2.6911	-2236.318	0.000	0.000	-4604.495	-4830.200	2.000	2368.177	NG
9-j	0.900	2.8398	-34.324	0.000	0.000	-2845.765	-5808.274	2.000	2811.441	NG
10-i	0.900	2.8398	-34.979	0.000	0.000	-2846.420	-5808.274	2.000	2811.441	NG
10-j	1.000	3.0312	737.291	0.000	0.000	-2550.790	-6704.738	1.972	3288.082	NG
11-i	1.000	3.0312	737.255	0.000	0.000	-2552.129	-6704.738	1.973	3289.383	NG
11-j	1.100	3.2652	879.874	0.000	0.000	-2403.518	-7524.468	1.662	3283.392	NG
12-i	1.100	3.2652	-1899.482	0.000	0.000	-5438.996	-7524.468	1.792	3539.514	NG
12-j	1.100	3.4999	-590.975	0.000	0.000	-4308.429	-8136.326	1.756	3717.454	NG
13-i	1.100	3.4999	-592.272	0.000	0.000	-4310.604	-8136.326	1.756	3718.332	NG
13-j	1.200	3.7660	1120.325	0.000	0.000	-2958.541	-8700.461	1.641	4078.866	NG
14-i	1.200	3.7660	1120.175	0.000	0.000	-2959.449	-8700.461	1.641	4079.624	NG
14-j	1.200	4.0638	-1275.513	0.000	0.000	-5486.676	-9219.966	1.570	4211.163	NG
15-i	1.200	4.0638	-1275.285	0.000	0.000	-5487.112	-9219.966	1.570	4211.827	NG
15-j	1.300	4.3933	-2843.887	0.000	0.000	-7714.729	-9730.399	1.551	4870.841	NG
16-i	1.300	4.3933	-5683.599	0.000	0.000	-10818.375	-9730.399	1.635	5134.776	
16-j	1.300	4.6922	-5340.000	0.000	0.000	-10895.399	-10110.067	1.656	5555.399	
17-i	1.300	4.6922	-5340.289	0.000	0.000	-10895.857	-10110.067	1.656	5555.568	
17-j	1.300	5.0132	-2880.271	0.000	0.000	-8807.515	-10455.549	1.654	5927.244	NG
18-i	1.300	5.0132	-5557.717	0.000	0.000	-11743.709	-10455.549	1.726	6185.992	
18-j	1.300	5.4638	-2190.939	0.000	0.000	-8899.373	-11127.468	1.717	6708.434	NG
19-i	1.300	5.4638	-2191.008	0.000	0.000	-8899.516	-11127.468	1.717	6708.509	NG
19-j	1.300	5.5000	-1458.413	0.000	0.000	-8203.611	-15318.173	1.715	6745.198	NG
20-i	1.300	5.5000	-1458.399	0.000	0.000	-8203.580	-15318.173	1.715	6745.181	NG
20-j	1.300	5.5000	0.000	0.000	0.000	-6413.205	-21172.214	1.631	6413.205	NG
21-i	1.300	5.5000	0.000	0.000	0.000	6413.516	21809.236	1.631	6413.516	NG
21-j	1.300	5.5000	1415.556	0.000	0.000	8151.521	16566.948	1.713	6735.965	NG
22-i	1.300	5.5000	1415.570	0.000	0.000	8151.552	16566.948	1.713	6735.981	NG
22-j	1.300	5.4686	2118.185	0.000	0.000	8821.146	12937.192	1.714	6702.961	NG
23-i	1.300	5.4686	2118.108	0.000	0.000	8820.987	12937.192	1.714	6702.879	NG
23-j	1.300	5.0769	5118.247	0.000	0.000	11401.754	12213.385	1.731	6283.506	NG
24-i	1.300	5.0769	2433.860	0.000	0.000	8444.878	12213.385	1.656	6011.018	NG
24-j	1.300	4.7970	4893.415	0.000	0.000	10642.267	11786.835	1.676	5748.852	NG
25-i	1.300	4.7970	4893.093	0.000	0.000	10641.761	11786.835	1.676	5748.668	NG
25-j	1.300	4.5356	5247.098	0.000	0.000	10694.292	11322.031	1.680	5447.194	NG
26-i	1.300	4.5356	2410.286	0.000	0.000	7555.928	11322.031	1.587	5145.642	NG
26-j	1.200	4.2463	1523.876	0.000	0.000	6123.475	10712.525	1.641	4599.599	NG
27-i	1.200	4.2463	1524.224	0.000	0.000	6123.134	10712.525	1.641	4598.910	NG
27-j	1.200	3.9835	-670.918	0.000	0.000	3965.433	10085.232	1.763	4636.351	NG
28-i	1.200	3.9835	-671.034	0.000	0.000	3964.344	10085.232	1.763	4635.379	NG
28-j	1.100	3.7471	977.600	0.000	0.000	5453.382	9412.340	1.974	4475.781	NG
29-i	1.100	3.7471	976.314	0.000	0.000	5450.867	9412.340	1.974	4474.553	NG
29-j	1.100	3.5371	2268.644	0.000	0.000	6548.581	8690.738	2.000	4279.937	NG
30-i	1.100	3.5371	-534.543	0.000	0.000	3700.822	8690.738	1.979	4235.365	NG
30-j	1.000	3.3255	-454.239	0.000	0.000	3203.791	7790.770	2.000	3658.029	NG



## 1. 1. 5 せん断必要鉄筋量

## 施工ステップ13

部材No. [1-i] (StepNo. 13)

a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=2977.320(kN) ΔSp=0.000(kN) Mp= 6670.209(kN.m) tan γ=0.00000

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	6504.298	-150.266	0.000	6504.298	0.000	0.000	345.0	24.00	47.03	51.12
終局時a 活Smin	986.312	-150.266	0.000	986.312	0.000	0.000	345.0	24.00	26.55	28.86
終局時b 活Smax	6031.843	-150.266	0.000	6031.843	0.000	0.000	345.0	24.00	40.73	44.27
終局時b 活Smin	513.858	-150.266	0.000	513.858	0.000	0.000	345.0	24.00	32.85	35.70
終局時c 活Smax	5835.188	-150.266	0.000	5835.188	0.000	0.000	345.0	24.00	38.10	41.42
終局時c 活Smin	2082.958	-150.266	0.000	2082.958	0.000	0.000	345.0	24.00	11.92	12.96

部材No. [1-j] (StepNo. 13)

a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=3000.069(kN) ΔSp=0.000(kN) Mp= 2838.805(kN.m) tan γ=0.00000

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	5995.348	-150.266	7319.142	5995.348	1.582	2610.687	345.0	24.00	5.13	5.57
終局時a 活Smin	651.432	-150.266	1189.536	651.432	2.000	3300.000	345.0	24.00	0.00	0.00
終局時b 活Smax	5599.770	-150.266	6776.622	5599.770	1.629	2687.597	345.0	24.00	0.00	0.00
終局時b 活Smin	255.854	-150.266	647.016	255.854	2.000	3300.000	345.0	24.00	0.00	0.00
終局時c 活Smax	5279.999	-150.266	6611.659	5279.999	1.645	2713.485	345.0	24.00	0.00	0.00
終局時c 活Smin	1646.135	-150.266	2443.526	1646.135	2.000	3300.000	345.0	24.00	0.00	0.00

部材No. [2-i] (StepNo. 13)

a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=3000.069(kN) ΔSp=0.000(kN) Mp= 2838.799(kN.m) tan γ=0.00000

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	5995.348	-150.266	7319.142	5995.348	1.582	2610.688	345.0	24.00	5.13	5.57
終局時a 活Smin	651.432	-150.266	1189.536	651.432	2.000	3300.000	345.0	24.00	0.00	0.00
終局時b 活Smax	5599.770	-150.266	6776.622	5599.770	1.629	2687.598	345.0	24.00	0.00	0.00
終局時b 活Smin	255.854	-150.266	647.016	255.854	2.000	3300.000	345.0	24.00	0.00	0.00
終局時c 活Smax	5279.999	-150.266	6611.659	5279.999	1.645	2713.487	345.0	24.00	0.00	0.00
終局時c 活Smin	1646.135	-150.266	2443.526	1646.135	2.000	3300.000	345.0	24.00	0.00	0.00

部材No. [2-j] (StepNo. 13)

a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=3002.020(kN) ΔSp=0.000(kN) Mp= 2374.463(kN.m) tan γ=0.00000

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	5934.543	-150.266	8142.254	5934.543	1.581	2608.615	345.0	24.00	4.32	4.69
終局時a 活Smin	611.011	-150.266	1312.689	611.011	2.000	3300.000	345.0	24.00	0.00	0.00
終局時b 活Smax	5548.190	-150.266	7541.089	5548.190	1.627	2685.034	345.0	24.00	0.00	0.00
終局時b 活Smin	224.658	-150.266	711.524	224.658	2.000	3300.000	345.0	24.00	0.00	0.00
終局時c 活Smax	5213.559	-150.266	7349.967	5213.559	1.644	2711.948	345.0	24.00	0.00	0.00
終局時c 活Smin	1593.557	-150.266	2705.863	1593.557	2.000	3300.000	345.0	24.00	0.00	0.00

部材No. [3-i] (StepNo. 13)

a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=3001.144(kN) ΔSp=0.000(kN) Mp= 2373.764(kN.m) tan γ=0.00000

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	5934.543	-150.266	8142.254	5934.543	1.581	2608.331	345.0	24.00	4.33	4.71
終局時a 活Smin	611.011	-150.266	1312.689	611.011	2.000	3300.000	345.0	24.00	0.00	0.00
終局時b 活Smax	5548.190	-150.266	7541.089	5548.190	1.627	2684.728	345.0	24.00	0.00	0.00
終局時b 活Smin	224.658	-150.266	711.524	224.658	2.000	3300.000	345.0	24.00	0.00	0.00
終局時c 活Smax	5213.559	-150.266	7349.967	5213.559	1.643	2711.634	345.0	24.00	0.00	0.00
終局時c 活Smin	1593.557	-150.266	2705.863	1593.557	2.000	3300.000	345.0	24.00	0.00	0.00

部材No. [3-j] (StepNo. 13)

a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=2587.551(kN) ΔSp=0.000(kN) Mp= -8065.991(kN.m) tan γ=0.00000

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	4681.966	-150.266	22980.987	4681.966	1.658	2432.248	345.0	21.33	0.00	0.00
終局時a 活Smin	-232.882	-150.266	2917.279	-232.882	2.000	2933.333	345.0	21.33	0.00	0.00 *
終局時b 活Smax	4485.407	-150.266	21450.902	4485.407	1.705	2501.122	345.0	21.33	0.00	0.00
終局時b 活Smin	-429.441	-150.266	1387.194	-429.441	2.000	2933.333	345.0	21.33	1.12	1.21 *
終局時c 活Smax	3845.569	-150.266	20373.978	3845.569	1.743	2555.802	345.0	21.33	0.00	0.00
終局時c 活Smin	503.472	-150.266	6730.656	503.472	2.000	2933.333	345.0	21.33	0.00	0.00 *

部材No. [4-i] (StepNo. 13)

a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=2586.001(kN) ΔSp=0.000(kN) Mp= -8061.172(kN.m) tan γ=0.00000

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	4681.966	-150.266	22980.987	4681.966	1.658	2431.667	345.0	21.33	0.00	0.00
終局時a 活Smin	-232.882	-150.266	2917.279	-232.882	2.000	2933.333	345.0	21.33	0.00	0.00 *
終局時b 活Smax	4485.407	-150.266	21450.902	4485.407	1.705	2500.500	345.0	21.33	0.00	0.00
終局時b 活Smin	-429.441	-150.266	1387.194	-429.441	2.000	2933.333	345.0	21.33	1.09	1.19 *
終局時c 活Smax	3845.569	-150.266	20373.978	3845.569	1.742	2555.146	345.0	21.33	0.00	0.00
終局時c 活Smin	503.472	-150.266	6730.656	503.472	2.000	2933.333	345.0	21.33	0.00	0.00 *

部材No. [4-j] (StepNo. 13)

a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=0.000(kN) ΔSp=0.000(kN) Mp=-12431.644(kN.m) tan γ=0.00000

	S	N	M	Sh	k	Sc	$\sigma_s$	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	3519.498	-150.266	32935.021	3519.498	1.598	2050.481	345.0	18.67	19.59	21.29
終局時a 活Smin	-1037.586	-150.266	2553.321	-1037.586	2.000	2566.667	345.0	18.67	0.00	0.00 *
終局時b 活Smax	3498.450	-150.266	31060.644	3498.450	1.634	2096.775	345.0	18.67	18.69	20.31
終局時b 活Smin	-1058.634	-150.266	678.943	-1058.634	2.000	2566.667	345.0	18.67	0.00	0.00 *
終局時c 活Smax	2577.699	-150.266	28486.208	2577.699	1.691	2170.289	345.0	18.67	5.43	5.90
終局時c 活Smin	-521.118	-150.266	7826.651	-521.118	2.000	2566.667	345.0	18.67	0.00	0.00 *
部材No. [5-i] (StepNo. 13)										
a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=0.000(kN) $\Delta$ Sp=0.000(kN) Mp=-12423.177(kN.m) $\tan \gamma=0.00000$										
	S	N	M	Sh	k	Sc	$\sigma_s$	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	3519.498	-150.266	32935.021	3519.498	1.597	2049.956	345.0	18.67	19.59	21.30
終局時a 活Smin	-1037.586	-150.266	2553.321	-1037.586	2.000	2566.667	345.0	18.67	0.00	0.00 *
終局時b 活Smax	3498.450	-150.266	31060.644	3498.450	1.633	2096.218	345.0	18.67	18.70	20.32
終局時b 活Smin	-1058.634	-150.266	678.943	-1058.634	2.000	2566.667	345.0	18.67	0.00	0.00 *
終局時c 活Smax	2577.699	-150.266	28486.208	2577.699	1.691	2169.683	345.0	18.67	5.44	5.91
終局時c 活Smin	-521.118	-150.266	7826.651	-521.118	2.000	2566.667	345.0	18.67	0.00	0.00 *
部材No. [5-j] (StepNo. 13)										
a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=0.000(kN) $\Delta$ Sp=0.000(kN) Mp=-13312.711(kN.m) $\tan \gamma=0.00303$										
	S	N	M	Sh	k	Sc	$\sigma_s$	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	2450.862	-150.266	38480.718	2404.183	1.519	1671.232	345.0	16.00	9.77	10.62
終局時a 活Smin	-1800.421	-150.266	209.134	-1800.674	2.000	2200.000	345.0	16.00	0.00	0.00 *
終局時b 活Smax	2590.521	-150.266	36800.136	2545.881	1.543	1697.319	345.0	16.00	11.31	12.30
終局時b 活Smin	-1660.762	-150.266	-1471.447	-1658.977	0.000	0.000	345.0	16.00	22.12	24.04 *
終局時c 活Smax	1413.904	-150.266	32137.166	1374.920	1.622	1783.988	345.0	16.00	0.00	0.00
終局時c 活Smin	-1476.969	-150.266	6112.490	-1484.383	2.000	2200.000	345.0	16.00	0.00	0.00 *
部材No. [6-i] (StepNo. 13)										
a=100.0(cm) d1=2.5000(m) d2=2.5000(m) Sp=-2779.664(kN) $\Delta$ Sp=0.000(kN) Mp=-18237.629(kN.m) $\tan \gamma=0.00303$										
	S	N	M	Sh	k	Sc	$\sigma_s$	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	2450.862	-150.266	38480.718	2404.183	1.769	1945.854	345.0	16.00	43.17	46.93
終局時a 活Smin	-1800.421	-150.266	209.134	-1800.674	2.000	2200.000	345.0	16.00	0.00	0.00 *
終局時b 活Smax	2590.521	-150.266	36800.136	2545.881	1.804	1984.483	345.0	16.00	44.55	48.42
終局時b 活Smin	-1660.762	-150.266	-1471.447	-1658.977	1.894	2083.665	345.0	16.00	0.00	0.00 *
終局時c 活Smax	1413.904	-150.266	32137.166	1374.920	1.921	2112.817	345.0	16.00	27.22	29.59
終局時c 活Smin	-1476.969	-150.266	6112.490	-1484.383	2.000	2200.000	345.0	16.00	0.00	0.00 *
部材No. [6-j] (StepNo. 13)										
a=100.0(cm) d1=2.5212(m) d2=2.5212(m) Sp=-487.911(kN) $\Delta$ Sp=0.000(kN) Mp=-9275.823(kN.m) $\tan \gamma=0.01213$										
	S	N	M	Sh	k	Sc	$\sigma_s$	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	1351.720	-150.266	40029.157	1159.106	1.543	1711.212	345.0	16.00	0.00	0.00
終局時a 活Smin	-2678.824	-150.266	12049.023	-2736.802	2.000	2218.681	345.0	16.00	0.40	0.44
終局時b 活Smax	1659.132	-150.266	39130.822	1470.840	1.555	1725.029	345.0	16.00	3.09	3.39
終局時b 活Smin	-2371.412	-150.266	11150.688	-2425.068	2.000	2218.681	345.0	16.00	0.00	0.00
終局時c 活Smax	210.200	-150.266	31507.561	58.591	1.689	1873.995	345.0	16.00	0.00	0.00
終局時c 活Smin	-2530.570	-150.266	12481.070	-2590.626	2.000	2218.681	345.0	16.00	0.00	0.00
部材No. [7-i] (StepNo. 13)										
a=100.0(cm) d1=2.5212(m) d2=2.5212(m) Sp=-487.907(kN) $\Delta$ Sp=0.000(kN) Mp=-9275.829(kN.m) $\tan \gamma=0.01213$										
	S	N	M	Sh	k	Sc	$\sigma_s$	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	1351.720	-150.266	40029.157	1159.106	1.543	1711.212	345.0	16.00	0.00	0.00
終局時a 活Smin	-2678.824	-150.266	12049.023	-2736.802	2.000	2218.681	345.0	16.00	0.40	0.44
終局時b 活Smax	1659.132	-150.266	39130.822	1470.840	1.555	1725.030	345.0	16.00	3.09	3.39
終局時b 活Smin	-2371.412	-150.266	11150.688	-2425.068	2.000	2218.681	345.0	16.00	0.00	0.00
終局時c 活Smax	210.200	-150.266	31507.561	58.591	1.689	1873.996	345.0	16.00	0.00	0.00
終局時c 活Smin	-2530.570	-150.266	12481.070	-2590.626	2.000	2218.681	345.0	16.00	0.00	0.00
部材No. [7-j] (StepNo. 13)										
a=100.0(cm) d1=2.5849(m) d2=2.5849(m) Sp=300.036(kN) $\Delta$ Sp=0.000(kN) Mp=-9172.029(kN.m) $\tan \gamma=0.02427$										
	S	N	M	Sh	k	Sc	$\sigma_s$	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	285.309	-150.266	37241.163	-64.335	1.597	1816.032	345.0	16.00	0.00	0.00
終局時a 活Smin	-3718.787	-150.266	7984.536	-3793.751	2.000	2274.732	345.0	16.00	23.46	26.36 *
終局時b 活Smax	761.347	-150.266	37713.483	407.269	1.589	1807.532	345.0	16.00	0.00	0.00
終局時b 活Smin	-3242.749	-150.266	8456.856	-3322.147	2.000	2274.732	345.0	16.00	17.38	19.53 *
終局時c 活Smax	-973.623	-150.266	26328.711	-1220.813	1.844	2097.319	345.0	16.00	0.00	0.00
終局時c 活Smin	-3696.408	-150.266	6434.205	-3756.817	2.000	2274.732	345.0	16.00	22.98	25.83 *
部材No. [8-i] (StepNo. 13)										
a=100.0(cm) d1=2.5849(m) d2=2.5849(m) Sp=300.037(kN) $\Delta$ Sp=0.000(kN) Mp=-9172.044(kN.m) $\tan \gamma=0.02427$										
	S	N	M	Sh	k	Sc	$\sigma_s$	Awmin	Awreq	As
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )
終局時a 活Smax	285.309	-150.266	37241.163	-64.335	1.597	1816.033	345.0	16.00	0.00	0.00
終局時a 活Smin	-3718.787	-150.266	7984.536	-3793.751	2.000	2274.732	345.0	16.00	23.46	26.36 *
終局時b 活Smax	761.347	-150.266	37713.483	407.269	1.589	1807.533	345.0	16.00	0.00	0.00

終局時b	活Smin	-3242.749	-150.266	8456.856	-3322.147	2.000	2274.732	345.0	16.00	17.38	19.53 *
終局時c	活Smax	-973.623	-150.266	26328.711	-1220.813	1.844	2097.320	345.0	16.00	0.00	0.00
終局時c	活Smin	-3696.408	-150.266	6434.205	-3756.817	2.000	2274.732	345.0	16.00	22.98	25.83 *
部材No. [8-j] (StepNo. 13)											
a=100.0(cm) d1=2.6911(m) d2=2.6911(m) Sp=447.544(kN) ΔSp=0.000(kN) Mp=-9332.669(kN.m) tan γ=0.03642											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-753.412	-150.266	30431.601	-1165.220	1.759	2083.382	345.0	16.00	0.00	0.00
終局時a	活Smin	-4780.440	-150.266	120.270	-4782.068	2.000	2368.177	345.0	16.00	35.44	41.47 *
終局時b	活Smax	-107.000	-150.266	32867.572	-551.771	1.703	2016.731	345.0	16.00	0.00	0.00
終局時b	活Smin	-4134.028	-150.266	2556.241	-4168.619	2.000	2368.177	345.0	16.00	27.84	32.58 *
終局時c	活Smax	-2143.372	-150.266	16802.245	-2370.744	2.000	2368.177	345.0	16.00	5.58	6.52
終局時c	活Smin	-4881.751	-150.266	-3809.460	-4830.200	2.000	2368.177	345.0	16.00	36.04	42.17 *
部材No. [9-i] (StepNo. 13)											
a=100.0(cm) d1=2.6911(m) d2=2.6911(m) Sp=-2236.318(kN) ΔSp=0.000(kN) Mp=-13474.053(kN.m) tan γ=0.03642											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-753.412	-150.266	30431.601	-1165.220	2.000	2368.177	345.0	16.00	0.00	0.00
終局時a	活Smin	-4780.440	-150.266	120.270	-4782.068	2.000	2368.177	345.0	16.00	2.20	2.57 *
終局時b	活Smax	-107.000	-150.266	32867.572	-551.771	1.972	2335.517	345.0	16.00	0.00	0.00
終局時b	活Smin	-4134.028	-150.266	2556.241	-4168.619	2.000	2368.177	345.0	16.00	0.00	0.00 *
終局時c	活Smax	-2143.372	-150.266	16802.245	-2370.744	2.000	2368.177	345.0	16.00	0.00	0.00
終局時c	活Smin	-4881.751	-150.266	-3809.460	-4830.200	2.000	2368.177	345.0	16.00	2.80	3.27 *
部材No. [9-j] (StepNo. 13)											
a=100.0(cm) d1=2.8398(m) d2=2.8398(m) Sp=-34.324(kN) ΔSp=0.000(kN) Mp=-2207.113(kN.m) tan γ=0.04858											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-1796.332	-150.266	19831.125	-2135.580	2.000	2811.441	345.0	18.00	0.00	0.00
終局時a	活Smin	-5889.782	-150.266	-11689.310	-5689.815	2.000	2811.441	345.0	18.00	33.38	41.22 *
終局時b	活Smax	-970.971	-150.266	24838.336	-1395.876	1.977	2778.694	345.0	18.00	0.00	0.00
終局時b	活Smin	-5064.421	-150.266	-6682.099	-4950.111	2.000	2811.441	345.0	18.00	24.70	30.50 *
終局時c	活Smax	-3339.299	-150.266	3045.316	-3391.394	2.000	2811.441	345.0	18.00	6.40	7.91
終局時c	活Smin	-6122.845	-150.266	-18388.580	-5808.274	2.000	2811.441	345.0	18.00	34.77	42.93 *
部材No. [10-i] (StepNo. 13)											
a=100.0(cm) d1=2.8398(m) d2=2.8398(m) Sp=-34.979(kN) ΔSp=0.000(kN) Mp=-2195.531(kN.m) tan γ=0.04858											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-1796.332	-150.266	19831.125	-2135.580	2.000	2811.441	345.0	18.00	0.00	0.00
終局時a	活Smin	-5889.782	-150.266	-11689.310	-5689.815	2.000	2811.441	345.0	18.00	33.38	41.21 *
終局時b	活Smax	-970.971	-150.266	24838.336	-1395.876	1.977	2778.655	345.0	18.00	0.00	0.00
終局時b	活Smin	-5064.421	-150.266	-6682.099	-4950.111	2.000	2811.441	345.0	18.00	24.69	30.49 *
終局時c	活Smax	-3339.299	-150.266	3045.316	-3391.394	2.000	2811.441	345.0	18.00	6.40	7.90
終局時c	活Smin	-6122.845	-150.266	-18388.580	-5808.274	2.000	2811.441	345.0	18.00	34.77	42.93 *
部材No. [10-j] (StepNo. 13)											
a=100.0(cm) d1=3.0312(m) d2=3.0312(m) Sp=737.291(kN) ΔSp=0.000(kN) Mp= 525.594(kN.m) tan γ=0.06077											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-2877.224	-150.266	5496.583	-2987.415	2.000	3334.292	345.0	20.00	4.29	5.66
終局時a	活Smin	-7075.147	-150.266	-27697.482	-6519.893	2.000	3334.292	345.0	20.00	43.14	56.85 *
終局時b	活Smax	-1857.150	-150.266	13728.475	-2132.366	2.000	3334.292	345.0	20.00	0.00	0.00
終局時b	活Smin	-6055.073	-150.266	-19465.590	-5664.845	2.000	3334.292	345.0	20.00	33.74	44.46 *
終局時c	活Smax	-4603.923	-150.266	-15028.138	-4302.653	2.000	3334.292	345.0	20.00	18.76	24.72 *
終局時c	活Smin	-7458.510	-150.266	-37600.101	-6704.738	1.972	3288.082	345.0	20.00	45.68	60.20 *
部材No. [11-i] (StepNo. 13)											
a=100.0(cm) d1=3.0312(m) d2=3.0312(m) Sp=737.255(kN) ΔSp=0.000(kN) Mp= 538.389(kN.m) tan γ=0.06077											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-2877.224	-150.266	5496.583	-2987.415	2.000	3334.292	345.0	20.00	4.29	5.66
終局時a	活Smin	-7075.147	-150.266	-27697.482	-6519.893	2.000	3334.292	345.0	20.00	43.14	56.85 *
終局時b	活Smax	-1857.150	-150.266	13728.475	-2132.366	2.000	3334.292	345.0	20.00	0.00	0.00
終局時b	活Smin	-6055.073	-150.266	-19465.590	-5664.845	2.000	3334.292	345.0	20.00	33.74	44.46 *
終局時c	活Smax	-4603.923	-150.266	-15028.138	-4302.653	2.000	3334.292	345.0	20.00	18.76	24.72 *
終局時c	活Smin	-7458.510	-150.266	-37600.101	-6704.738	1.973	3289.383	345.0	20.00	45.67	60.18 *
部材No. [11-j] (StepNo. 13)											
a=100.0(cm) d1=3.2652(m) d2=3.2652(m) Sp=879.874(kN) ΔSp=0.000(kN) Mp= 3212.499(kN.m) tan γ=0.07254											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-4006.516	-150.266	-12606.718	-3726.439	2.000	3950.895	345.0	22.00	6.69	9.50 *
終局時a	活Smin	-8342.453	-150.266	-48203.622	-7271.539	1.849	3652.470	345.0	22.00	45.93	65.20 *
終局時b	活Smax	-2774.200	-150.266	-438.539	-2764.458	2.000	3950.895	345.0	22.00	0.00	0.00
終局時b	活Smin	-7110.138	-150.266	-36035.443	-6309.557	2.000	3950.895	345.0	22.00	33.06	46.94 *
終局時c	活Smax	-5949.138	-150.266	-37599.916	-5113.801	2.000	3950.895	345.0	22.00	20.85	29.61 *
終局時c	活Smin	-8897.576	-150.266	-61805.811	-7524.468	1.662	3283.392	345.0	22.00	52.28	74.22 *
部材No. [12-i] (StepNo. 13)											

a=100.0(cm) d1=3.2652(m) d2=3.2652(m) Sp=-1899.482(kN) ΔSp=0.000(kN) Mp= 2153.618(kN.m) tan γ=0.07254											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-4006.516	-150.266	-12606.718	-3726.439	2.000	3950.895	345.0	22.00	0.00	0.00 *
終局時a	活Smin	-8342.453	-150.266	-48203.622	-7271.539	2.000	3950.895	345.0	22.00	14.51	20.60 *
終局時b	活Smax	-2774.200	-150.266	-438.539	-2764.458	2.000	3950.895	345.0	22.00	0.00	0.00 *
終局時b	活Smin	-7110.138	-150.266	-36035.443	-6309.557	2.000	3950.895	345.0	22.00	4.69	6.65 *
終局時c	活Smax	-5949.138	-150.266	-37599.916	-5113.801	2.000	3950.895	345.0	22.00	0.00	0.00 *
終局時c	活Smin	-8897.576	-150.266	-61805.811	-7524.468	1.792	3539.514	345.0	22.00	21.29	30.22 *
部材No. [12-j] (StepNo. 13)											
a=100.0(cm) d1=3.4999(m) d2=3.4999(m) Sp=-590.975(kN) ΔSp=0.000(kN) Mp= 14552.576(kN.m) tan γ=0.08347											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-5010.343	-150.266	-31181.011	-4266.683	2.000	4234.825	345.0	22.00	0.00	0.00 *
終局時a	活Smin	-9488.794	-150.266	-69603.459	-7828.768	1.943	4113.225	345.0	22.00	29.76	45.28 *
終局時b	活Smax	-3583.221	-150.266	-15026.156	-3224.851	2.000	4234.825	345.0	22.00	0.00	0.00 *
終局時b	活Smin	-8061.673	-150.266	-53448.604	-6786.936	2.000	4234.825	345.0	22.00	18.68	28.42 *
終局時c	活Smax	-7161.612	-150.266	-60692.623	-5714.108	2.000	4234.825	345.0	22.00	8.46	12.87 *
終局時c	活Smin	-10206.959	-150.266	-86819.887	-8136.326	1.756	3717.454	345.0	22.00	36.46	55.48 *
部材No. [13-i] (StepNo. 13)											
a=100.0(cm) d1=3.4999(m) d2=3.4999(m) Sp=-592.272(kN) ΔSp=0.000(kN) Mp= 14571.252(kN.m) tan γ=0.08347											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-5010.343	-150.266	-31181.011	-4266.683	2.000	4234.825	345.0	22.00	0.00	0.00 *
終局時a	活Smin	-9488.794	-150.266	-69603.459	-7828.768	1.943	4114.320	345.0	22.00	29.74	45.25 *
終局時b	活Smax	-3583.221	-150.266	-15026.156	-3224.851	2.000	4234.825	345.0	22.00	0.00	0.00 *
終局時b	活Smin	-8061.673	-150.266	-53448.604	-6786.936	2.000	4234.825	345.0	22.00	18.67	28.40 *
終局時c	活Smax	-7161.612	-150.266	-60692.623	-5714.108	2.000	4234.825	345.0	22.00	8.45	12.86 *
終局時c	活Smin	-10206.959	-150.266	-86819.887	-8136.326	1.756	3718.332	345.0	22.00	36.44	55.45 *
部材No. [13-j] (StepNo. 13)											
a=100.0(cm) d1=3.7660(m) d2=3.7660(m) Sp=1120.325(kN) ΔSp=0.000(kN) Mp= 20218.035(kN.m) tan γ=0.09399											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-6056.336	-150.266	-52634.948	-4742.686	2.000	4971.155	345.0	24.00	7.89	12.93 *
終局時a	活Smin	-10697.597	-150.266	-94729.546	-8333.360	1.785	4436.753	345.0	24.00	44.41	72.71 *
終局時b	活Smax	-4420.829	-150.266	-31890.460	-3624.914	2.000	4971.155	345.0	24.00	0.00	0.00 *
終局時b	活Smin	-9062.089	-150.266	-73985.058	-7215.588	2.000	4971.155	345.0	24.00	29.78	48.76 *
終局時c	活Smax	-8439.699	-150.266	-87383.528	-6258.802	1.851	4600.781	345.0	24.00	24.59	40.27 *
終局時c	活Smin	-11595.756	-150.266	-116007.854	-8700.461	1.641	4078.866	345.0	24.00	50.82	83.22 *
部材No. [14-i] (StepNo. 13)											
a=100.0(cm) d1=3.7660(m) d2=3.7660(m) Sp=1120.175(kN) ΔSp=0.000(kN) Mp= 20237.827(kN.m) tan γ=0.09399											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-6056.336	-150.266	-52634.948	-4742.686	2.000	4971.155	345.0	24.00	7.89	12.92 *
終局時a	活Smin	-10697.597	-150.266	-94729.546	-8333.360	1.785	4437.682	345.0	24.00	44.40	72.69 *
終局時b	活Smax	-4420.829	-150.266	-31890.460	-3624.914	2.000	4971.155	345.0	24.00	0.00	0.00 *
終局時b	活Smin	-9062.089	-150.266	-73985.058	-7215.588	2.000	4971.155	345.0	24.00	29.78	48.76 *
終局時c	活Smax	-8439.699	-150.266	-87383.528	-6258.802	1.851	4601.788	345.0	24.00	24.58	40.25 *
終局時c	活Smin	-11595.756	-150.266	-116007.854	-8700.461	1.641	4079.624	345.0	24.00	50.81	83.20 *
部材No. [14-j] (StepNo. 13)											
a=100.0(cm) d1=4.0638(m) d2=4.0638(m) Sp=-1275.513(kN) ΔSp=0.000(kN) Mp= 28507.201(kN.m) tan γ=0.10454											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-7150.392	-150.266	-77074.747	-5167.605	2.000	5364.222	345.0	24.00	0.00	0.00 *
終局時a	活Smin	-11973.399	-150.266	-123818.330	-8788.109	1.689	4530.213	345.0	24.00	24.46	43.22 *
終局時b	活Smax	-5291.872	-150.266	-51092.220	-3977.499	2.000	5364.222	345.0	24.00	0.00	0.00 *
終局時b	活Smin	-10114.879	-150.266	-97835.803	-7598.002	1.872	5021.019	345.0	24.00	10.68	18.86 *
終局時c	活Smax	-9790.251	-150.266	-117868.488	-6758.024	1.724	4623.503	345.0	24.00	7.05	12.45 *
終局時c	活Smin	-13069.895	-150.266	-149654.124	-9219.966	1.570	4211.163	345.0	24.00	30.62	54.11 *
部材No. [15-i] (StepNo. 13)											
a=100.0(cm) d1=4.0638(m) d2=4.0638(m) Sp=-1275.285(kN) ΔSp=0.000(kN) Mp= 28529.078(kN.m) tan γ=0.10454											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-7150.392	-150.266	-77074.747	-5167.605	2.000	5364.222	345.0	24.00	0.00	0.00 *
終局時a	活Smin	-11973.399	-150.266	-123818.330	-8788.109	1.689	4531.016	345.0	24.00	24.46	43.21 *
終局時b	活Smax	-5291.872	-150.266	-51092.220	-3977.499	2.000	5364.222	345.0	24.00	0.00	0.00 *
終局時b	活Smin	-10114.879	-150.266	-97835.803	-7598.002	1.872	5022.035	345.0	24.00	10.67	18.85 *
終局時c	活Smax	-9790.251	-150.266	-117868.488	-6758.024	1.724	4624.347	345.0	24.00	7.04	12.44 *
終局時c	活Smin	-13069.895	-150.266	-149654.124	-9219.966	1.570	4211.827	345.0	24.00	30.62	54.10 *
部材No. [15-j] (StepNo. 13)											
a=100.0(cm) d1=4.3933(m) d2=4.3933(m) Sp=-2843.887(kN) ΔSp=0.000(kN) Mp= 44835.040(kN.m) tan γ=0.11469											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-8301.079	-150.266	-104607.635	-5570.288	1.990	6250.215	345.0	26.00	0.00	0.00 *
終局時a	活Smin	-13323.596	-150.266	-157098.955	-9222.514	1.659	5211.403	345.0	26.00	8.86	16.92 *

終局時b	活Smax	-6203.242	-150.266	-72695.721	-4305.514	2.000	6282.401	345.0	26.00	0.00	0.00	*
終局時b	活Smin	-11225.759	-150.266	-125187.041	-7957.740	1.827	5739.126	345.0	26.00	0.00	0.00	*
終局時c	活Smax	-11223.661	-150.266	-152337.210	-7246.885	1.680	5276.113	345.0	26.00	0.00	0.00	*
終局時c	活Smin	-14638.973	-150.266	-188031.307	-9730.399	1.551	4870.841	345.0	26.00	15.29	29.21	*
部材No. [16-i] (StepNo. 13)												
a=100.0(cm) d1=4.3933(m) d2=4.3933(m) Sp=-5683.599(kN) ΔSp=0.000(kN) Mp= 49276.973(kN.m) tan γ=0.11469												
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	-8301.079	-150.266	-104607.635	-5570.288	2.000	6282.401	345.0	26.00	0.00	0.00	*
終局時a	活Smin	-13323.596	-150.266	-157098.955	-9222.514	1.760	5527.306	345.0	26.00	0.00	0.00	*
終局時b	活Smax	-6203.242	-150.266	-72695.721	-4305.514	2.000	6282.401	345.0	26.00	0.00	0.00	*
終局時b	活Smin	-11225.759	-150.266	-125187.041	-7957.740	1.953	6135.557	345.0	26.00	0.00	0.00	*
終局時c	活Smax	-11223.661	-150.266	-152337.210	-7246.885	1.783	5601.891	345.0	26.00	0.00	0.00	*
終局時c	活Smin	-14638.973	-150.266	-188031.307	-9730.399	1.635	5134.776	345.0	26.00	0.00	0.00	*
部材No. [16-j] (StepNo. 13)												
a=100.0(cm) d1=4.6922(m) d2=4.6922(m) Sp=-5340.000(kN) ΔSp=0.000(kN) Mp= 72932.264(kN.m) tan γ=0.12398												
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	-9255.677	-150.266	-127974.038	-5874.263	2.000	6709.780	345.0	26.00	0.00	0.00	*
終局時a	活Smin	-14510.563	-150.266	-188242.326	-9536.701	1.780	5971.932	345.0	26.00	0.00	0.00	*
終局時b	活Smax	-6944.854	-150.266	-90553.370	-4552.194	2.000	6709.780	345.0	26.00	0.00	0.00	*
終局時b	活Smin	-12199.741	-150.266	-150821.658	-8214.632	1.974	6621.252	345.0	26.00	0.00	0.00	*
終局時c	活Smax	-12452.107	-150.266	-182892.198	-7619.610	1.803	6048.488	345.0	26.00	0.00	0.00	*
終局時c	活Smin	-16025.430	-150.266	-223874.634	-10110.067	1.656	5555.399	345.0	26.00	0.00	0.00	*
部材No. [17-i] (StepNo. 13)												
a=100.0(cm) d1=4.6922(m) d2=4.6922(m) Sp=-5340.289(kN) ΔSp=0.000(kN) Mp= 72938.806(kN.m) tan γ=0.12398												
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	-9255.677	-150.266	-127974.038	-5874.263	2.000	6709.780	345.0	26.00	0.00	0.00	*
終局時a	活Smin	-14510.563	-150.266	-188242.326	-9536.701	1.780	5972.134	345.0	26.00	0.00	0.00	*
終局時b	活Smax	-6944.854	-150.266	-90553.370	-4552.194	2.000	6709.780	345.0	26.00	0.00	0.00	*
終局時b	活Smin	-12199.741	-150.266	-150821.658	-8214.632	1.974	6621.503	345.0	26.00	0.00	0.00	*
終局時c	活Smax	-12452.107	-150.266	-182892.198	-7619.610	1.803	6048.696	345.0	26.00	0.00	0.00	*
終局時c	活Smin	-16025.430	-150.266	-223874.634	-10110.067	1.656	5555.568	345.0	26.00	0.00	0.00	*
部材No. [17-j] (StepNo. 13)												
a=100.0(cm) d1=5.0132(m) d2=5.0132(m) Sp=-2880.271(kN) ΔSp=0.000(kN) Mp= 93215.500(kN.m) tan γ=0.13353												
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	-10239.941	-150.266	-153208.040	-6159.188	2.000	7168.852	345.0	26.00	0.00	0.00	*
終局時a	活Smin	-15744.667	-150.266	-222641.551	-9814.526	1.773	6356.291	345.0	26.00	3.84	8.38	*
終局時b	活Smax	-7705.929	-150.266	-109733.510	-4783.136	2.000	7168.852	345.0	26.00	0.00	0.00	*
終局時b	活Smin	-13210.655	-150.266	-179167.021	-8438.475	1.961	7028.879	345.0	26.00	0.00	0.00	*
終局時c	活Smax	-13728.482	-150.266	-216199.848	-7969.919	1.796	6438.880	345.0	26.00	0.00	0.00	*
終局時c	活Smin	-17471.696	-150.266	-263414.636	-10455.549	1.654	5927.244	345.0	26.00	10.96	23.88	*
部材No. [18-i] (StepNo. 13)												
a=100.0(cm) d1=5.0132(m) d2=5.0132(m) Sp=-5557.717(kN) ΔSp=0.000(kN) Mp=100290.266(kN.m) tan γ=0.13353												
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	-10239.941	-150.266	-153208.040	-6159.188	2.000	7168.852	345.0	26.00	0.00	0.00	*
終局時a	活Smin	-15744.667	-150.266	-222641.551	-9814.526	1.859	6662.426	345.0	26.00	0.00	0.00	*
終局時b	活Smax	-7705.929	-150.266	-109733.510	-4783.136	2.000	7168.852	345.0	26.00	0.00	0.00	*
終局時b	活Smin	-13210.655	-150.266	-179167.021	-8438.475	2.000	7168.852	345.0	26.00	0.00	0.00	*
終局時c	活Smax	-13728.482	-150.266	-216199.848	-7969.919	1.884	6754.135	345.0	26.00	0.00	0.00	*
終局時c	活Smin	-17471.696	-150.266	-263414.636	-10455.549	1.726	6185.992	345.0	26.00	0.00	0.00	*
部材No. [18-j] (StepNo. 13)												
a=100.0(cm) d1=5.4638(m) d2=5.4638(m) Sp=-2190.939(kN) ΔSp=0.000(kN) Mp=132743.008(kN.m) tan γ=0.14177												
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	-11580.485	-150.266	-189385.632	-6666.532	2.000	7813.202	345.0	26.00	0.00	0.00	*
終局時a	活Smin	-17423.618	-150.266	-272463.390	-10354.062	1.844	7203.654	345.0	26.00	5.85	13.91	*
終局時b	活Smax	-8740.159	-150.266	-137182.873	-5180.700	2.000	7813.202	345.0	26.00	0.00	0.00	*
終局時b	活Smin	-14583.292	-150.266	-220260.631	-8868.231	2.000	7813.202	345.0	26.00	0.00	0.00	*
終局時c	活Smax	-15473.227	-150.266	-264128.024	-8619.947	1.871	7307.702	345.0	26.00	0.00	0.00	*
終局時c	活Smin	-19446.558	-150.266	-320620.899	-11127.468	1.717	6708.434	345.0	26.00	13.59	32.29	*
部材No. [19-i] (StepNo. 13)												
a=100.0(cm) d1=5.4638(m) d2=5.4638(m) Sp=-2191.008(kN) ΔSp=0.000(kN) Mp=132746.510(kN.m) tan γ=0.14177												
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	-11580.485	-150.266	-189385.632	-6666.532	2.000	7813.202	345.0	26.00	0.00	0.00	*
終局時a	活Smin	-17423.618	-150.266	-272463.390	-10354.062	1.844	7203.742	345.0	26.00	5.85	13.90	*
終局時b	活Smax	-8740.159	-150.266	-137182.873	-5180.700	2.000	7813.202	345.0	26.00	0.00	0.00	*
終局時b	活Smin	-14583.292	-150.266	-220260.631	-8868.231	2.000	7813.202	345.0	26.00	0.00	0.00	*
終局時c	活Smax	-15473.227	-150.266	-264128.024	-8619.947	1.871	7307.793	345.0	26.00	0.00	0.00	*
終局時c	活Smin	-19446.558	-150.266	-320620.899	-11127.468	1.717	6708.509	345.0	26.00	13.59	32.29	*

部材No. [19-j] (StepNo. 13)											
a=100.0(cm) d1=5.5000(m) d2=5.5000(m) Sp=-1458.413(kN) ΔSp=0.000(kN) Mp=134751.127(kN.m) tan γ=0.07245											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-11686.557	-150.266	-192331.036	-9153.193	2.000	7865.000	345.0	26.00	0.00	0.00 *
終局時a	活Smin	-17556.375	-150.266	-276543.878	-13913.768	1.841	7241.127	345.0	26.00	31.60	75.57 *
終局時b	活Smax	-8821.891	-150.266	-139415.156	-6985.529	2.000	7865.000	345.0	26.00	0.00	0.00 *
終局時b	活Smin	-14691.708	-150.266	-223627.998	-11746.103	2.000	7865.000	345.0	26.00	14.68	35.11 *
終局時c	活Smax	-15611.562	-150.266	-268038.792	-12080.983	1.868	7346.113	345.0	26.00	19.86	47.48 *
終局時c	活Smin	-19603.038	-150.266	-325303.525	-15318.173	1.715	6745.198	345.0	26.00	43.12	103.11 *
部材No. [20-i] (StepNo. 13)											
a=100.0(cm) d1=5.5000(m) d2=5.5000(m) Sp=-1458.399(kN) ΔSp=0.000(kN) Mp=134750.318(kN.m) tan γ=0.07245											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-11686.557	-150.266	-192331.036	-9153.193	2.000	7865.000	345.0	26.00	0.00	0.00 *
終局時a	活Smin	-17556.375	-150.266	-276543.878	-13913.768	1.841	7241.107	345.0	26.00	31.60	75.57 *
終局時b	活Smax	-8821.891	-150.266	-139415.156	-6985.529	2.000	7865.000	345.0	26.00	0.00	0.00 *
終局時b	活Smin	-14691.708	-150.266	-223627.998	-11746.103	2.000	7865.000	345.0	26.00	14.68	35.11 *
終局時c	活Smax	-15611.562	-150.266	-268038.792	-12080.983	1.868	7346.092	345.0	26.00	19.86	47.49 *
終局時c	活Smin	-19603.038	-150.266	-325303.525	-15318.173	1.715	6745.181	345.0	26.00	43.12	103.11 *
部材No. [20-j] (StepNo. 13)											
a=100.0(cm) d1=5.5000(m) d2=5.5000(m) Sp=0.000(kN) ΔSp=0.000(kN) Mp=136941.967(kN.m) tan γ=0.00000											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	-12746.625	-150.266	-223082.487	-12746.625	2.000	7865.000	345.0	26.00	29.59	70.75 *
終局時a	活Smin	-18888.090	-150.266	-319333.319	-18888.090	1.740	6840.920	345.0	26.00	73.01	174.60 *
終局時b	活Smax	-9637.984	-150.266	-162699.972	-9637.984	2.000	7865.000	345.0	26.00	10.75	25.70 *
終局時b	活Smin	-15779.449	-150.266	-258950.805	-15779.449	1.912	7519.109	345.0	26.00	50.06	119.72 *
終局時c	活Smax	-16996.017	-150.266	-308941.047	-16996.017	1.764	6938.754	345.0	26.00	60.95	145.76 *
終局時c	活Smin	-21172.214	-150.266	-374391.614	-21172.214	1.631	6413.205	345.0	26.00	89.45	213.90 *
部材No. [21-i] (StepNo. 13)											
a=100.0(cm) d1=5.5000(m) d2=5.5000(m) Sp=0.000(kN) ΔSp=0.000(kN) Mp=136954.175(kN.m) tan γ=0.00000											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	19600.708	-416.851	-319872.555	19600.708	1.737	6831.131	345.0	26.00	77.39	185.07 *
終局時a	活Smin	12901.967	-416.851	-222451.412	12901.967	2.000	7865.000	345.0	26.00	30.53	73.00 *
終局時b	活Smax	16484.135	-416.851	-260121.114	16484.135	1.906	7496.965	345.0	26.00	54.47	130.25 *
終局時b	活Smin	9785.394	-416.851	-162699.972	9785.394	2.000	7865.000	345.0	26.00	11.64	27.83 *
終局時c	活Smax	21809.236	-416.851	-373714.917	21809.236	1.631	6413.516	345.0	26.00	93.31	223.13 *
終局時c	活Smin	17254.092	-416.851	-307468.540	17254.092	1.767	6948.069	345.0	26.00	62.46	149.36 *
部材No. [21-j] (StepNo. 13)											
a=100.0(cm) d1=5.5000(m) d2=5.5000(m) Sp=1415.556(kN) ΔSp=0.000(kN) Mp=133731.824(kN.m) tan γ=-0.06285											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	18301.571	-416.851	-275775.615	15150.053	1.836	7219.661	345.0	26.00	39.48	94.42 *
終局時a	活Smin	11842.956	-416.851	-191304.706	9656.757	2.000	7865.000	345.0	26.00	2.28	5.45 *
終局時b	活Smax	15428.972	-416.851	-223510.640	12874.730	2.000	7865.000	345.0	26.00	21.78	52.09 *
終局時b	活Smin	8970.357	-416.851	-139039.731	7381.434	2.000	7865.000	345.0	26.00	0.00	0.00 *
終局時c	活Smax	20262.214	-416.851	-323356.623	16566.948	1.713	6735.965	345.0	26.00	51.00	121.96 *
終局時c	活Smin	15870.355	-416.851	-265916.405	12831.507	1.867	7341.537	345.0	26.00	24.69	59.05 *
部材No. [22-i] (StepNo. 13)											
a=100.0(cm) d1=5.5000(m) d2=5.5000(m) Sp=1415.570(kN) ΔSp=0.000(kN) Mp=133732.629(kN.m) tan γ=-0.06285											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	18301.571	-416.851	-275775.615	15150.053	1.836	7219.681	345.0	26.00	39.48	94.42 *
終局時a	活Smin	11842.956	-416.851	-191304.706	9656.757	2.000	7865.000	345.0	26.00	2.28	5.45 *
終局時b	活Smax	15428.972	-416.851	-223510.640	12874.730	2.000	7865.000	345.0	26.00	21.78	52.09 *
終局時b	活Smin	8970.357	-416.851	-139039.731	7381.434	2.000	7865.000	345.0	26.00	0.00	0.00 *
終局時c	活Smax	20262.214	-416.851	-323356.623	16566.948	1.713	6735.981	345.0	26.00	51.00	121.96 *
終局時c	活Smin	15870.355	-416.851	-265916.405	12831.507	1.867	7341.557	345.0	26.00	24.69	59.05 *
部材No. [22-j] (StepNo. 13)											
a=100.0(cm) d1=5.4686(m) d2=5.4686(m) Sp=2118.185(kN) ΔSp=0.000(kN) Mp=131591.279(kN.m) tan γ=-0.12310											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	18171.962	-416.851	-271553.667	12059.001	1.838	7186.212	345.0	26.00	16.79	39.92 *
終局時a	活Smin	11737.081	-416.851	-188324.225	7497.703	2.000	7820.060	345.0	26.00	0.00	0.00 *
終局時b	活Smax	15323.709	-416.851	-220003.796	10371.190	2.000	7820.060	345.0	26.00	2.64	6.27 *
終局時b	活Smin	8888.828	-416.851	-136774.354	5809.892	2.000	7820.060	345.0	26.00	0.00	0.00 *
終局時c	活Smax	20107.858	-416.851	-318539.696	12937.192	1.714	6702.961	345.0	26.00	25.09	59.65 *
終局時c	活Smin	15732.139	-416.851	-261943.676	9835.510	1.869	7306.407	345.0	26.00	2.50	5.96 *
部材No. [23-i] (StepNo. 13)											
a=100.0(cm) d1=5.4686(m) d2=5.4686(m) Sp=2118.108(kN) ΔSp=0.000(kN) Mp=131587.485(kN.m) tan γ=-0.12310											
	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As	
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	
終局時a	活Smax	18171.962	-416.851	-271553.667	12059.001	1.838	7186.117	345.0	26.00	16.79	39.92 *

終局時a	活Smin	11737.081	-416.851	-188324.225	7497.703	2.000	7820.060	345.0	26.00	0.00	0.00	*
終局時b	活Smax	15323.709	-416.851	-220003.796	10371.190	2.000	7820.060	345.0	26.00	2.64	6.28	*
終局時b	活Smin	8888.828	-416.851	-136774.354	5809.892	2.000	7820.060	345.0	26.00	0.00	0.00	*
終局時c	活Smax	20107.858	-416.851	-318539.696	12937.192	1.714	6702.879	345.0	26.00	25.09	59.66	*
終局時c	活Smin	15732.139	-416.851	-261943.676	9835.510	1.869	7306.308	345.0	26.00	2.51	5.96	*

部材No. [23-j] (StepNo. 13)

a=100.0(cm) d1=5.0769(m) d2=5.0769(m) Sp=5118.247(kN) ΔSp=0.000(kN) Mp=100473.098(kN.m) tan γ=-0.11623

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	16528.196	-416.851	-219730.479	11497.605	1.863	6763.532	345.0	26.00	0.00	0.00	*
終局時a	活Smin	10396.770	-416.851	-151758.533	6922.354	2.000	7260.034	345.0	26.00	0.00	0.00	*
終局時b	活Smax	13987.321	-416.851	-176933.364	9936.544	2.000	7260.034	345.0	26.00	0.00	0.00	*
終局時b	活Smin	7855.896	-416.851	-108961.418	5361.293	2.000	7260.034	345.0	26.00	0.00	0.00	*
終局時c	活Smax	18154.027	-416.851	-259480.484	12213.385	1.731	6283.506	345.0	26.00	5.33	11.76	*
終局時c	活Smin	13984.657	-416.851	-213259.561	9102.215	1.889	6858.612	345.0	26.00	0.00	0.00	*

部材No. [24-i] (StepNo. 13)

a=100.0(cm) d1=5.0769(m) d2=5.0769(m) Sp=2433.860(kN) ΔSp=0.000(kN) Mp=93117.151(kN.m) tan γ=-0.11623

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	16528.196	-416.851	-219730.479	11497.605	1.775	6441.749	345.0	26.00	17.22	38.00	*
終局時a	活Smin	10396.770	-416.851	-151758.533	6922.354	2.000	7260.034	345.0	26.00	0.00	0.00	*
終局時b	活Smax	13987.321	-416.851	-176933.364	9936.544	1.962	7121.858	345.0	26.00	2.50	5.52	*
終局時b	活Smin	7855.896	-416.851	-108961.418	5361.293	2.000	7260.034	345.0	26.00	0.00	0.00	*
終局時c	活Smax	18154.027	-416.851	-259480.484	12213.385	1.656	6011.018	345.0	26.00	24.74	54.62	*
終局時c	活Smin	13984.657	-416.851	-213259.561	9102.215	1.798	6527.065	345.0	26.00	0.93	2.05	*

部材No. [24-j] (StepNo. 13)

a=100.0(cm) d1=4.7970(m) d2=4.7970(m) Sp=4893.415(kN) ΔSp=0.000(kN) Mp=75096.459(kN.m) tan γ=-0.10827

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	15314.335	-416.851	-183610.493	11170.363	1.804	6188.274	345.0	26.00	0.62	1.29	*
終局時a	活Smin	9410.013	-416.851	-126307.836	6559.325	2.000	6859.754	345.0	26.00	0.00	0.00	*
終局時b	活Smax	12998.664	-416.851	-146882.082	9683.630	2.000	6859.754	345.0	26.00	0.00	0.00	*
終局時b	活Smin	7094.342	-416.851	-89579.425	5072.592	2.000	6859.754	345.0	26.00	0.00	0.00	*
終局時c	活Smax	16716.047	-416.851	-218402.828	11786.835	1.676	5748.852	345.0	26.00	7.95	16.59	*
終局時c	活Smin	12701.108	-416.851	-179437.021	8651.329	1.823	6252.431	345.0	26.00	0.00	0.00	*

部材No. [25-i] (StepNo. 13)

a=100.0(cm) d1=4.7970(m) d2=4.7970(m) Sp=4893.093(kN) ΔSp=0.000(kN) Mp=75089.888(kN.m) tan γ=-0.10827

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	15314.335	-416.851	-183610.493	11170.363	1.804	6188.056	345.0	26.00	0.62	1.29	*
終局時a	活Smin	9410.013	-416.851	-126307.836	6559.325	2.000	6859.754	345.0	26.00	0.00	0.00	*
終局時b	活Smax	12998.664	-416.851	-146882.082	9683.630	2.000	6859.754	345.0	26.00	0.00	0.00	*
終局時b	活Smin	7094.342	-416.851	-89579.425	5072.592	2.000	6859.754	345.0	26.00	0.00	0.00	*
終局時c	活Smax	16716.047	-416.851	-218402.828	11786.835	1.676	5748.668	345.0	26.00	7.96	16.60	*
終局時c	活Smin	12701.108	-416.851	-179437.021	8651.329	1.823	6252.207	345.0	26.00	0.00	0.00	*

部材No. [25-j] (StepNo. 13)

a=100.0(cm) d1=4.5356(m) d2=4.5356(m) Sp=5247.098(kN) ΔSp=0.000(kN) Mp=53648.153(kN.m) tan γ=-0.10050

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	14142.273	-416.851	-150614.938	10804.792	1.817	5891.135	345.0	26.00	0.00	0.00	*
終局時a	活Smin	8459.313	-416.851	-103091.567	6174.904	2.000	6485.932	345.0	26.00	0.00	0.00	*
終局時b	活Smax	12042.540	-416.851	-119403.897	9396.665	2.000	6485.932	345.0	26.00	0.00	0.00	*
終局時b	活Smin	6359.580	-416.851	-71880.525	4766.778	2.000	6485.932	345.0	26.00	0.00	0.00	*
終局時c	活Smax	15331.695	-416.851	-180949.416	11322.031	1.680	5447.194	345.0	26.00	4.61	9.10	*
終局時c	活Smin	11467.282	-416.851	-148633.523	8173.707	1.827	5926.437	345.0	26.00	0.00	0.00	*

部材No. [26-i] (StepNo. 13)

a=100.0(cm) d1=4.5356(m) d2=4.5356(m) Sp=2410.286(kN) ΔSp=0.000(kN) Mp=48561.014(kN.m) tan γ=-0.10050

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	14142.273	-416.851	-150614.938	10804.792	1.705	5528.849	345.0	26.00	21.06	41.53	*
終局時a	活Smin	8459.313	-416.851	-103091.567	6174.904	2.000	6485.932	345.0	26.00	0.00	0.00	*
終局時b	活Smax	12042.540	-416.851	-119403.897	9396.665	1.889	6126.357	345.0	26.00	6.32	12.46	*
終局時b	活Smin	6359.580	-416.851	-71880.525	4766.778	2.000	6485.932	345.0	26.00	0.00	0.00	*
終局時c	活Smax	15331.695	-416.851	-180949.416	11322.031	1.587	5145.642	345.0	26.00	27.68	54.58	*
終局時c	活Smin	11467.282	-416.851	-148633.523	8173.707	1.714	5559.322	345.0	26.00	1.50	2.96	*

部材No. [26-j] (StepNo. 13)

a=100.0(cm) d1=4.2463(m) d2=4.2463(m) Sp=1523.876(kN) ΔSp=0.000(kN) Mp=34767.054(kN.m) tan γ=-0.09203

	S	N	M	Sh	k	Sc	σ s	Awmin	Awreq	As		
	(kN)	(kN)	(kN.m)	(kN)		(kN)	(N/mm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>2</sup> )		
終局時a	活Smax	12804.567	-416.851	-114967.381	10313.004	1.784	4999.829	345.0	24.00	29.75	54.92	*
終局時a	活Smin	7379.296	-416.851	-78054.983	5687.695	2.000	5605.095	345.0	24.00	0.00	0.00	*
終局時b	活Smax	10948.606	-416.851	-89684.917	9004.962	2.000	5605.095	345.0	24.00	14.73	27.19	*
終局時b	活Smin	5223.335	-416.851	-52772.519	4379.653	2.000	5605.095	345.0	24.00	0.00	0.00	*
終局時c	活Smax	13758.996	-416.851	-140572.317	10712.525	1.641	4599.599	345.0	24.00	36.02	66.51	*
終局時c	活Smin	10069.812	-416.851	-115471.886	7567.315	1.781	4990.229	345.0	24.00	8.27	15.26	*

## 部材No. [27-i] (StepNo. 13)

a=100.0(cm) d1=4.2463(m) d2=4.2463(m) Sp=1524.224(kN) ΔSp=0.000(kN) Mp= 34746.253(kN.m) tan γ=-0.09203

	S (kN)	N (kN)	M (kN.m)	Sh (kN)	k	Sc (kN)	σ s (N/mm <sup>2</sup> )	Awmin (cm <sup>2</sup> )	Awreq (cm <sup>2</sup> )	As (cm <sup>2</sup> )
終局時a 活Smax	12804.567	-416.851	-114967.381	10313.004	1.784	4998.986	345.0	24.00	29.75	54.92 *
終局時a 活Smin	7379.296	-416.851	-78054.983	5687.695	2.000	5605.095	345.0	24.00	0.00	0.00 *
終局時b 活Smax	10948.606	-416.851	-89684.917	9004.962	2.000	5605.095	345.0	24.00	14.72	27.18 *
終局時b 活Smin	5523.335	-416.851	-52772.519	4379.653	2.000	5605.095	345.0	24.00	0.00	0.00 *
終局時c 活Smax	13758.996	-416.851	-140572.317	10712.525	1.641	4598.910	345.0	24.00	36.03	66.51 *
終局時c 活Smin	10069.812	-416.851	-115471.886	7567.315	1.780	4989.390	345.0	24.00	8.27	15.27 *

## 部材No. [27-j] (StepNo. 13)

a=100.0(cm) d1=3.9835(m) d2=3.9835(m) Sp=-670.918(kN) ΔSp=0.000(kN) Mp= 28534.270(kN.m) tan γ=-0.08320

	S (kN)	N (kN)	M (kN.m)	Sh (kN)	k	Sc (kN)	σ s (N/mm <sup>2</sup> )	Awmin (cm <sup>2</sup> )	Awreq (cm <sup>2</sup> )	As (cm <sup>2</sup> )
終局時a 活Smax	11536.384	-416.851	-83381.074	9794.924	1.960	5153.830	345.0	24.00	44.45	76.99 *
終局時a 活Smin	6359.714	-416.851	-55918.795	5191.819	2.000	5258.175	345.0	24.00	5.06	8.76 *
終局時b 活Smax	9908.727	-416.851	-63321.268	8586.226	2.000	5258.175	345.0	24.00	33.46	57.96 *
終局時b 活Smin	4732.057	-416.851	-35858.989	3983.122	2.000	5258.175	345.0	24.00	0.00	0.00 *
終局時c 活Smax	12275.647	-416.851	-104876.971	10085.232	1.763	4636.351	345.0	24.00	51.21	88.69 *
終局時c 活Smin	8755.511	-416.851	-86202.621	6955.121	1.929	5071.191	345.0	24.00	21.38	37.03 *

## 部材No. [28-i] (StepNo. 13)

a=100.0(cm) d1=3.9835(m) d2=3.9835(m) Sp=-671.034(kN) ΔSp=0.000(kN) Mp= 28512.660(kN.m) tan γ=-0.08320

	S (kN)	N (kN)	M (kN.m)	Sh (kN)	k	Sc (kN)	σ s (N/mm <sup>2</sup> )	Awmin (cm <sup>2</sup> )	Awreq (cm <sup>2</sup> )	As (cm <sup>2</sup> )
終局時a 活Smax	11536.384	-416.851	-83381.074	9794.924	1.960	5152.607	345.0	24.00	44.46	77.01 *
終局時a 活Smin	6359.714	-416.851	-55918.795	5191.819	2.000	5258.175	345.0	24.00	5.06	8.76 *
終局時b 活Smax	9908.727	-416.851	-63321.268	8586.226	2.000	5258.175	345.0	24.00	33.46	57.96 *
終局時b 活Smin	4732.057	-416.851	-35858.989	3983.122	2.000	5258.175	345.0	24.00	0.00	0.00 *
終局時c 活Smax	12275.647	-416.851	-104876.971	10085.232	1.763	4635.379	345.0	24.00	51.22	88.71 *
終局時c 活Smin	8755.511	-416.851	-86202.621	6955.121	1.928	5070.008	345.0	24.00	21.39	37.05 *

## 部材No. [28-j] (StepNo. 13)

a=100.0(cm) d1=3.7471(m) d2=3.7471(m) Sp=977.600(kN) ΔSp=0.000(kN) Mp= 22628.108(kN.m) tan γ=-0.07439

	S (kN)	N (kN)	M (kN.m)	Sh (kN)	k	Sc (kN)	σ s (N/mm <sup>2</sup> )	Awmin (cm <sup>2</sup> )	Awreq (cm <sup>2</sup> )	As (cm <sup>2</sup> )
終局時a 活Smax	10331.766	-416.851	-55650.080	9226.992	2.000	4533.994	345.0	22.00	33.05	53.85 *
終局時a 活Smin	5393.960	-416.851	-36544.815	4668.467	2.000	4533.994	345.0	22.00	0.00	0.00 *
終局時b 活Smax	8918.369	-416.851	-40147.606	8121.353	2.000	4533.994	345.0	22.00	23.22	37.82 *
終局時b 活Smin	3980.564	-416.851	-21042.340	3562.828	2.000	4533.994	345.0	22.00	0.00	0.00 *
終局時c 活Smax	10873.715	-416.851	-73612.927	9412.340	1.974	4475.781	345.0	22.00	35.22	57.38 *
終局時c 活Smin	7516.007	-416.851	-60621.346	6312.543	2.000	4533.994	345.0	22.00	7.13	11.61 *

## 部材No. [29-i] (StepNo. 13)

a=100.0(cm) d1=3.7471(m) d2=3.7471(m) Sp=976.314(kN) ΔSp=0.000(kN) Mp= 22606.932(kN.m) tan γ=-0.07439

	S (kN)	N (kN)	M (kN.m)	Sh (kN)	k	Sc (kN)	σ s (N/mm <sup>2</sup> )	Awmin (cm <sup>2</sup> )	Awreq (cm <sup>2</sup> )	As (cm <sup>2</sup> )
終局時a 活Smax	10331.766	-416.851	-55650.080	9226.992	2.000	4533.994	345.0	22.00	33.06	53.86 *
終局時a 活Smin	5393.960	-416.851	-36544.815	4668.467	2.000	4533.994	345.0	22.00	0.00	0.00 *
終局時b 活Smax	8918.369	-416.851	-40147.606	8121.353	2.000	4533.994	345.0	22.00	23.23	37.84 *
終局時b 活Smin	3980.564	-416.851	-21042.340	3562.828	2.000	4533.994	345.0	22.00	0.00	0.00 *
終局時c 活Smax	10873.715	-416.851	-73612.927	9412.340	1.974	4474.553	345.0	22.00	35.24	57.41 *
終局時c 活Smin	7516.007	-416.851	-60621.346	6312.543	2.000	4533.994	345.0	22.00	7.14	11.63 *

## 部材No. [29-j] (StepNo. 13)

a=100.0(cm) d1=3.5371(m) d2=3.5371(m) Sp=2268.644(kN) ΔSp=0.000(kN) Mp= 10062.828(kN.m) tan γ=-0.06523

	S (kN)	N (kN)	M (kN.m)	Sh (kN)	k	Sc (kN)	σ s (N/mm <sup>2</sup> )	Awmin (cm <sup>2</sup> )	Awreq (cm <sup>2</sup> )	As (cm <sup>2</sup> )
終局時a 活Smax	9187.226	-416.851	-31551.356	8605.366	2.000	4279.937	345.0	22.00	19.38	29.81 *
終局時a 活Smin	4418.865	-416.851	-10758.028	4220.469	2.000	4279.937	345.0	22.00	0.00	0.00 *
終局時b 活Smax	7974.932	-416.851	-19985.087	7606.373	2.000	4279.937	345.0	22.00	9.97	15.33 *
終局時b 活Smin	3206.571	-416.851	808.241	3221.476	2.000	4279.937	345.0	22.00	0.00	0.00 *
終局時c 活Smax	9548.429	-416.851	-46508.285	8690.738	2.000	4279.937	345.0	22.00	20.19	31.05 *
終局時c 活Smin	6305.944	-416.851	-32368.822	5709.009	2.000	4279.937	345.0	22.00	0.00	0.00 *

## 部材No. [30-i] (StepNo. 13)

a=100.0(cm) d1=3.5371(m) d2=3.5371(m) Sp=-534.543(kN) ΔSp=0.000(kN) Mp= 9953.449(kN.m) tan γ=-0.06523

	S (kN)	N (kN)	M (kN.m)	Sh (kN)	k	Sc (kN)	σ s (N/mm <sup>2</sup> )	Awmin (cm <sup>2</sup> )	Awreq (cm <sup>2</sup> )	As (cm <sup>2</sup> )
終局時a 活Smax	9187.226	-416.851	-31551.356	8605.366	2.000	4279.937	345.0	22.00	45.80	70.43 *
終局時a 活Smin	4418.865	-416.851	-10758.028	4220.469	2.000	4279.937	345.0	22.00	4.48	6.89 *
終局時b 活Smax	7974.932	-416.851	-19985.087	7606.373	2.000	4279.937	345.0	22.00	36.39	55.96 *
終局時b 活Smin	3206.571	-416.851	808.241	3221.476	2.000	4279.937	345.0	22.00	0.00	0.00 *
終局時c 活Smax	9548.429	-416.851	-46508.285	8690.738	1.979	4235.365	345.0	22.00	47.02	72.32 *
終局時c 活Smin	6305.944	-416.851	-32368.822	5709.009	2.000	4279.937	345.0	22.00	18.50	28.46 *

## 部材No. [30-j] (StepNo. 13)

a=100.0(cm) d1=3.3255(m) d2=3.3255(m) Sp=-454.239(kN) ΔSp=0.000(kN) Mp= 6913.423(kN.m) tan γ=-0.05536

	S (kN)	N (kN)	M (kN.m)	Sh (kN)	k	Sc (kN)	σ s (N/mm <sup>2</sup> )	Awmin (cm <sup>2</sup> )	Awreq (cm <sup>2</sup> )	As (cm <sup>2</sup> )
--	-----------	-----------	-------------	------------	---	------------	-----------------------------	-----------------------------	-----------------------------	--------------------------



終局時a	活Smax	7920.420	-416.851	-7788.229	7790.770	2.000	3658.029	345.0	20.00	45.98	66.48 *
終局時a	活Smin	3327.842	-416.851	7825.914	3458.119	2.000	3658.029	345.0	20.00	2.55	3.69
終局時b	活Smax	6928.000	-416.851	-74.778	6926.755	2.000	3658.029	345.0	20.00	37.32	53.96
終局時b	活Smin	2335.422	-416.851	15539.364	2594.105	2.000	3658.029	345.0	20.00	0.00	0.00
終局時c	活Smax	8088.942	-416.851	-19856.827	7758.387	2.000	3658.029	345.0	20.00	45.65	66.01 *
終局時c	活Smin	4965.989	-416.851	-9239.210	4812.185	2.000	3658.029	345.0	20.00	16.12	23.31 *

注)\*のケースはd2を使用している。

せん断鋼棒の降伏点強度  $\sigma_{py} = 345.0 \text{ (N/mm}^2\text{)}$

せん断鋼棒が負担する応力度  $\Delta \sigma_p = 180.0 \text{ (N/mm}^2\text{)}$

## 1. 1. 6 せん断必要鉄筋量(総括表一覽)

部材No.	Awreq (cm <sup>2</sup> )				Asreq (cm <sup>2</sup> )			
	上縁側	StepNo	下縁側	StepNo	上縁側	StepNo	下縁側	StepNo
1-i	---	---	52.19	12	---	---	51.12	13
1-j	---	---	5.13	13	---	---	5.57	13
2-i	---	---	5.13	13	---	---	5.57	13
2-j	---	---	4.32	13	---	---	4.69	13
3-i	---	---	4.33	13	---	---	4.71	13
3-j	1.12	13	0.00	11	1.21	13	0.00	11
4-i	1.09	13	0.00	11	1.19	13	0.00	11
4-j	0.00	12	19.59	13	0.00	12	21.29	13
5-i	0.00	12	19.59	13	0.00	12	21.30	13
5-j	22.12	13	11.31	13	24.04	13	12.30	13
6-i	41.53	5	44.55	13	16.36	5	48.42	13
6-j	0.00	12	3.09	13	0.00	12	3.39	13
7-i	0.00	12	3.09	13	0.00	12	3.39	13
7-j	23.46	13	0.00	5	26.36	13	0.00	5
8-i	23.46	13	0.00	5	26.36	13	0.00	5
8-j	36.04	13	5.58	13	42.17	13	6.52	13
9-i	32.99	4	0.00	13	13.99	4	0.00	13
9-j	34.77	13	6.40	13	42.93	13	7.91	13
10-i	34.77	13	6.40	13	42.93	13	7.90	13
10-j	45.68	13	4.29	13	60.20	13	5.66	13
11-i	45.67	13	4.29	13	60.18	13	5.66	13
11-j	52.28	13	0.00	4	74.22	13	0.00	4
12-i	94.51	3	0.00	4	48.61	3	0.00	4
12-j	36.46	13	0.00	3	55.48	13	0.00	3
13-i	36.44	13	0.00	3	55.45	13	0.00	3
13-j	50.82	13	0.00	3	83.22	13	0.00	3
14-i	50.81	13	0.00	3	83.20	13	0.00	3
14-j	30.62	13	0.00	3	54.11	13	0.00	3
15-i	30.62	13	0.00	3	54.10	13	0.00	3
15-j	15.29	13	0.00	3	29.21	13	0.00	3
16-i	0.00	4	0.00	2	0.00	4	0.00	2
16-j	0.00	4	0.00	2	0.00	4	0.00	2
17-i	0.00	4	0.00	2	0.00	4	0.00	2
17-j	10.96	13	0.00	2	23.88	13	0.00	2
18-i	0.00	5	59.87	1	0.00	5	47.28	1
18-j	13.59	13	0.00	1	32.29	13	0.00	1
19-i	13.59	13	0.00	1	32.29	13	0.00	1
19-j	43.12	13	0.00	1	103.11	13	0.00	1
20-i	43.12	13	0.00	1	103.11	13	0.00	1
20-j	89.45	13	0.00	1	213.90	13	0.00	1
21-i	93.31	13	0.00	1	223.13	13	0.00	1
21-j	51.00	13	0.00	1	121.96	13	0.00	1
22-i	51.00	13	0.00	1	121.96	13	0.00	1
22-j	25.09	13	0.00	1	59.65	13	0.00	1
23-i	25.09	13	0.00	1	59.66	13	0.00	1
23-j	5.33	13	59.12	1	11.76	13	47.28	1
24-i	24.74	13	0.00	2	54.62	13	0.00	2
24-j	7.95	13	0.00	2	16.59	13	0.00	2
25-i	7.96	13	0.00	2	16.60	13	0.00	2
25-j	4.61	13	68.08	2	9.10	13	48.64	2
26-i	27.68	13	0.00	3	54.58	13	0.00	3
26-j	36.02	13	0.00	3	66.51	13	0.00	3
27-i	36.03	13	0.00	3	66.51	13	0.00	3
27-j	51.21	13	0.00	3	88.69	13	0.00	3
28-i	51.22	13	0.00	3	88.71	13	0.00	3
28-j	35.22	13	0.00	3	57.38	13	0.00	3
29-i	35.24	13	0.00	3	57.41	13	0.00	3
29-j	20.19	13	0.00	3	31.05	13	0.00	3
30-i	47.02	13	0.00	4	72.32	13	0.00	4
30-j	45.98	13	37.32	13	66.48	13	53.96	13

## 1. 1. 7 せん断必要鉄筋量(総括表詳細)

## 部材No. [1-i]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	---	52.19	---	20.55
13	---	47.03	---	51.12

## 部材No. [1-j]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	---	0.00	---	0.00
13	---	5.13	---	5.57

## 部材No. [2-i]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	---	0.00	---	0.00
13	---	5.13	---	5.57

## 部材No. [2-j]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	---	0.00	---	0.00
13	---	4.32	---	4.69

## 部材No. [3-i]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	---	0.00	---	0.00
13	---	4.33	---	4.71

## 部材No. [3-j]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	1.12	0.00	1.21	0.00

## 部材No. [4-i]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	1.09	0.00	1.19	0.00

## 部材No. [4-j]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	0.00	19.59	0.00	21.29

## 部材No. [5-i]

StepNo	Awreq(cm <sup>2</sup> )		Asreq(cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	0.00	19.59	0.00	21.30

## 部材No. [5-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	22.12	11.31	24.04	12.30

## 部材No. [6-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
5	41.53	---	16.36	---
6	40.72	---	16.04	---
7	40.22	---	15.84	---
8	39.85	---	15.70	---
9	39.55	---	15.58	---
10	39.30	---	15.48	---
11	---	25.27	---	9.95
12	29.96	---	11.80	---
13	0.00	44.55	0.00	48.42

## 部材No. [6-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
5	---	0.00	---	0.00
6	---	0.00	---	0.00
7	---	0.00	---	0.00
8	---	0.00	---	0.00
9	---	0.00	---	0.00
10	---	0.00	---	0.00
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	---	3.09	---	3.39

## 部材No. [7-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
5	---	0.00	---	0.00
6	---	0.00	---	0.00
7	---	0.00	---	0.00
8	---	0.00	---	0.00
9	---	0.00	---	0.00
10	---	0.00	---	0.00
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	---	3.09	---	3.39

## 部材No. [7-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
5	---	0.00	---	0.00
6	---	0.00	---	0.00
7	---	0.00	---	0.00
8	---	0.00	---	0.00
9	---	0.00	---	0.00
10	---	0.00	---	0.00
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	23.46	0.00	26.36	0.00

## 部材No. [8-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
5	---	0.00	---	0.00
6	---	0.00	---	0.00
7	---	0.00	---	0.00
8	---	0.00	---	0.00
9	---	0.00	---	0.00
10	---	0.00	---	0.00
11	---	0.00	---	0.00
12	0.00	---	0.00	---
13	23.46	0.00	26.36	0.00

## 部材No. [8-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	36.04	5.58	42.17	6.52

## 部材No. [9-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
4	32.99	---	13.99	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	2.80	0.00	3.27	0.00

## 部材No. [9-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	34.77	6.40	42.93	7.91

## 部材No. [10-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	34.77	6.40	42.93	7.90

## 部材No. [10-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	6.97	---	3.33	---
13	45.68	4.29	60.20	5.66

## 部材No. [11-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	6.97	---	3.33	---
13	45.67	4.29	60.18	5.66
部材No. [11-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	5.06	---	2.60	---
13	52.28	0.00	74.22	0.00
部材No. [12-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	94.51	---	48.61	---
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	21.29	0.00	30.22	0.00
部材No. [12-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	36.46	---	55.48	---
部材No. [13-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	36.44	---	55.45	---

## 部材No. [13-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.86	---	0.51	---
13	50.82	---	83.22	---

## 部材No. [14-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.86	---	0.51	---
13	50.81	---	83.20	---

## 部材No. [14-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	30.62	---	54.11	---

## 部材No. [15-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	30.62	---	54.10	---

## 部材No. [15-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	15.29	---	29.21	---

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
部材No. [16-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	0.00	---	0.00	---

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
部材No. [16-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	0.00	---	0.00	---

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
部材No. [17-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	0.00	---	0.00	---

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
部材No. [17-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	10.96	---	23.88	---

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
部材No. [18-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	59.87	---	47.28
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	---	0.00	---	0.00



StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	0.00	---	0.00	---
部材No. [18-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	13.59	---	32.29	---
部材No. [19-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	13.59	---	32.29	---
部材No. [19-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	43.12	---	103.11	---
部材No. [20-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	43.12	---	103.11	---
部材No. [20-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	5.73	---	4.96	---
5	33.98	---	29.44	---
6	33.98	---	29.44	---
7	33.98	---	29.44	---
8	33.98	---	29.44	---
9	33.98	---	29.44	---
10	33.98	---	29.44	---
11	40.43	---	35.03	---
12	36.60	---	31.71	---
13	89.45	---	213.90	---
部材No. [21-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	8.51	---	7.37	---
5	37.85	---	32.79	---
6	37.85	---	32.79	---
7	37.85	---	32.79	---
8	37.85	---	32.79	---
9	37.85	---	32.79	---
10	37.85	---	32.79	---
11	37.85	---	32.79	---
12	42.12	---	36.49	---
13	93.31	---	223.13	---
部材No. [21-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	51.00	---	121.96	---
部材No. [22-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	51.00	---	121.96	---

## 部材No. [22-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	25.09	---	59.65	---

## 部材No. [23-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	0.00	---	0.00
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	25.09	---	59.66	---

## 部材No. [23-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
1	---	59.12	---	47.28
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	5.33	---	11.76	---

## 部材No. [24-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	24.74	---	54.62	---

## 部材No. [24-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	7.95	---	16.59	---

## 部材No. [25-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
2	---	0.00	---	0.00
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	7.96	---	16.60	---

## 部材No. [25-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
2	---	68.08	---	48.64
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	4.61	---	9.10	---

## 部材No. [26-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	27.68	---	54.58	---

## 部材No. [26-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	36.02	---	66.51	---

## 部材No. [27-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	0.00	---	0.00	---
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	36.03	---	66.51	---

## 部材No. [27-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	51.21	---	88.69	---

## 部材No. [28-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	51.22	---	88.71	---

## 部材No. [28-j]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	35.22	0.00	57.38	0.00

## 部材No. [29-i]

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	35.24	0.00	57.41	0.00

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
部材No. [29-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
3	---	0.00	---	0.00
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	20.19	0.00	31.05	0.00

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
部材No. [30-i]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	47.02	0.00	72.32	0.00

StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
部材No. [30-j]				
StepNo	Awreq (cm <sup>2</sup> )		Asreq (cm <sup>2</sup> )	
	上縁側	下縁側	上縁側	下縁側
4	---	0.00	---	0.00
5	0.00	---	0.00	---
6	0.00	---	0.00	---
7	0.00	---	0.00	---
8	0.00	---	0.00	---
9	0.00	---	0.00	---
10	0.00	---	0.00	---
11	0.00	---	0.00	---
12	0.00	---	0.00	---
13	45.98	37.32	66.48	53.96