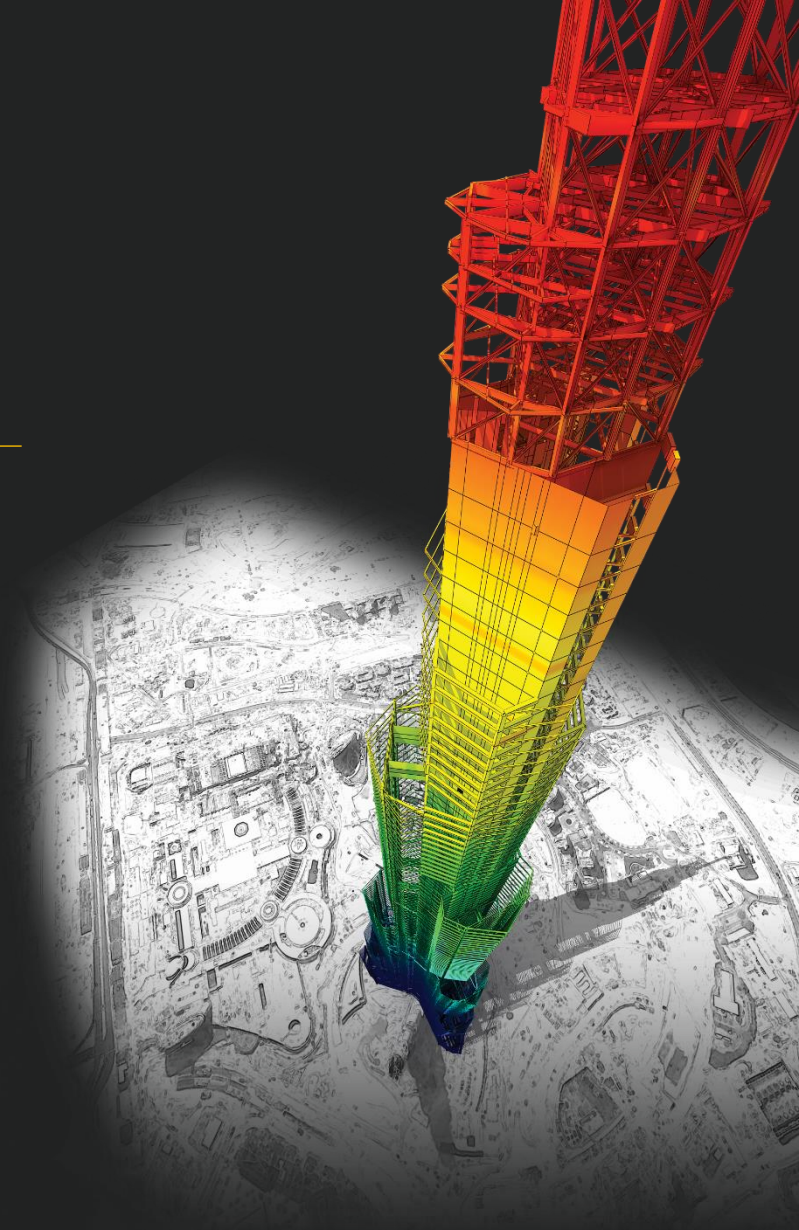


# Reaction Table 無法顯示全部數值

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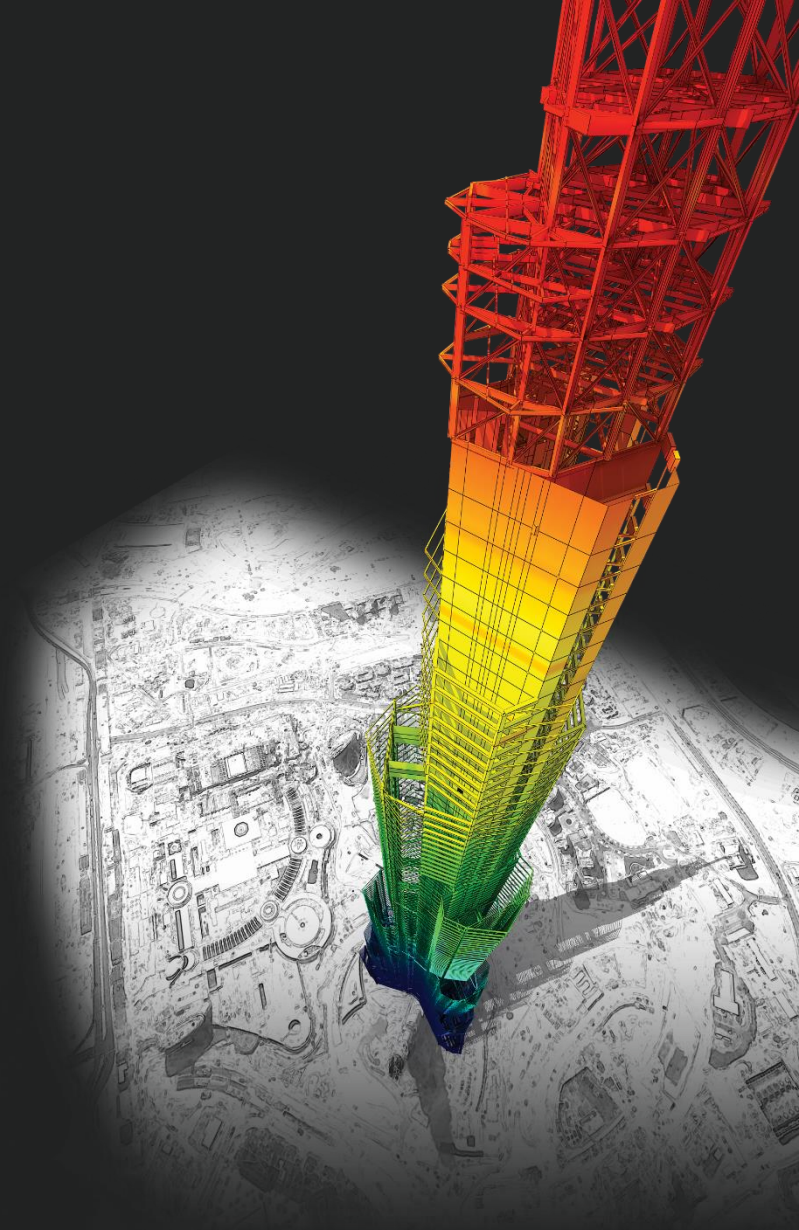


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問題

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# 問題

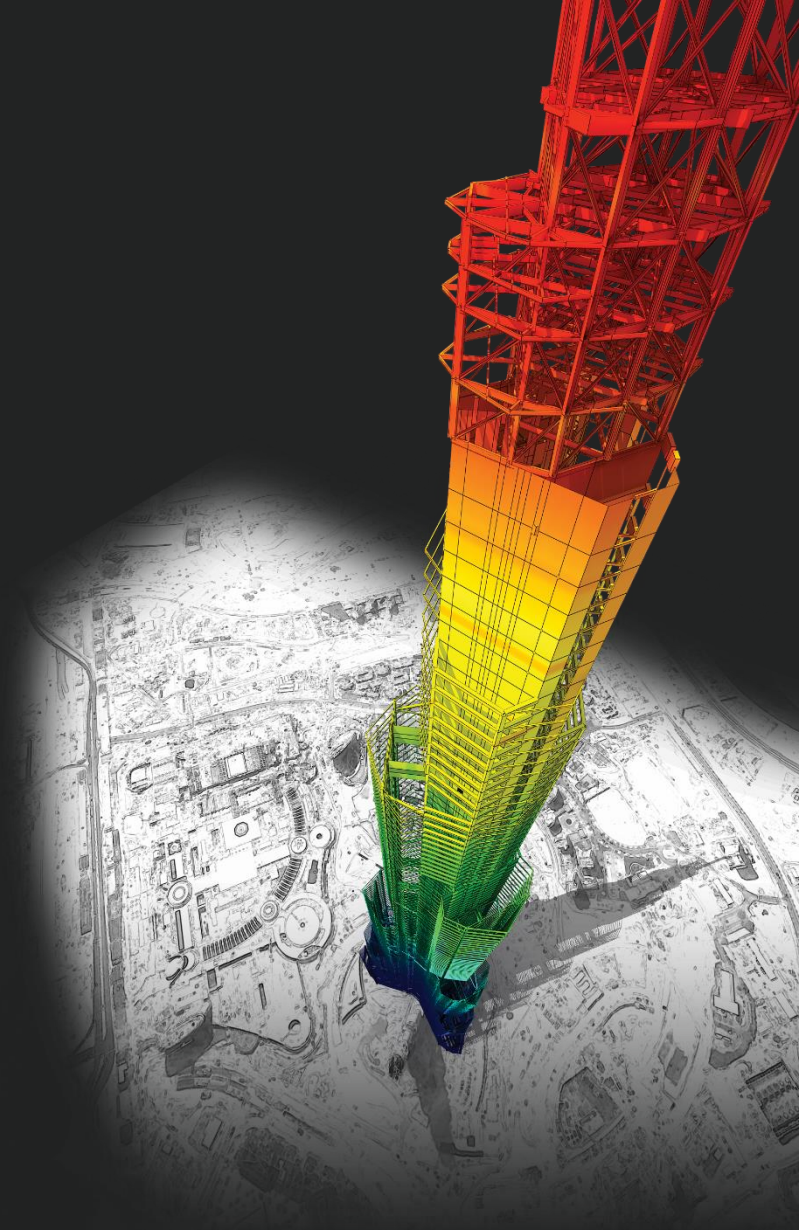
我想查看 Point support spring 的反力，但是調反力 (Y向) table 時，反力明細與總計的數值不太正常。(就是 FY 沒什麼數值，但是總和 80 幾 ton)  
(Load-case WY1)

我認為總和是對的，但是各點反力不對。只有 support 的位置有反力，點彈簧位置的反力都是0。

Node	Load	FX (kgf)	FY (kgf)	FZ (kgf)	MX (kgf*cm)	MY (kgf*cm)	MZ (kgf*cm)
1	WY1	-118.303238	-364.109869	0.000000	0.000000	0.000000	0.000000
2	WY1	0.000000	-405.888629	0.000000	0.000000	0.000000	0.000000
3	WY1	0.000000	-409.413230	0.000000	0.000000	0.000000	0.000000
4	WY1	0.000000	-409.413230	0.000000	0.000000	0.000000	0.000000
5	WY1	0.000000	-405.888629	0.000000	0.000000	0.000000	0.000000
6	WY1	118.303238	-364.109869	0.000000	0.000000	0.000000	0.000000
37	WY1	0.000000	0.000000	0.000000	4390.458788	-1055.380035	0.000000
38	WY1	0.000000	0.000000	0.000000	4733.369998	-0.000000	0.000000
39	WY1	0.000000	0.000000	0.000000	4733.372143	-0.000000	0.000000
40	WY1	0.000000	0.000000	0.000000	4733.372143	-0.000000	0.000000
41	WY1	0.000000	0.000000	0.000000	4733.369998	-0.000000	0.000000
42	WY1	0.000000	0.000000	0.000000	4390.458788	1055.380035	0.000000
299	WY1	-112.225822	-154.465593	0.000000	0.000000	0.000000	0.000000
300	WY1	0.000000	0.000000	0.000000	-8646.928712	6282.360538	0.000000
301	WY1	-238.273481	-327.955313	0.000000	0.000000	0.000000	0.000000
307	WY1	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
315	WY1	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
323	WY1	0.000000	0.000000	0.000000	-0.000000	0.000000	0.000000
327	WY1	0.000000	0.000000	0.000000	-1415.232025	1028.227294	0.000000
328	WY1	0.000000	0.000000	0.000000	3390.334553	-2463.220117	0.000000
329	WY1	0.000000	0.000000	0.000000	-1415.231070	1028.226889	0.000000
330	WY1	0.000000	0.000000	0.000000	3390.334373	-2463.220042	0.000000
331	WY1	0.000000	0.000000	0.000000	-1700.494319	1235.480906	0.000000
343	WY1	0.000000	0.000000	0.000000	3469.976580	-1691.259751	0.000000
345	WY1	0.000000	0.000000	0.000000	3506.643081	-1717.899523	0.000000
347	WY1	0.000000	0.000000	0.000000	3506.643904	-1717.900121	0.000000
349	WY1	0.000000	0.000000	0.000000	3506.643918	-1717.900132	0.000000
351	WY1	0.000000	0.000000	0.000000	3506.645341	-1717.901166	0.000000
356	WY1	0.000000	0.000000	0.000000	-2276.645634	1654.079189	0.000000
362	WY1	0.000000	0.000000	0.000000	-2276.645042	1654.078933	0.000000
383	WY1	238.273481	-327.955313	0.000000	0.000000	0.000000	0.000000
385	WY1	112.225822	-154.465593	0.000000	0.000000	0.000000	0.000000
386	WY1	0.000000	0.000000	0.000000	-8646.928712	-6282.360538	0.000000
401	WY1	0.000000	0.000000	0.000000	-1415.232025	-1028.227294	0.000000
402	WY1	0.000000	0.000000	0.000000	3390.334553	2463.220117	0.000000
403	WY1	0.000000	0.000000	0.000000	-1415.231070	-1028.226889	0.000000
404	WY1	0.000000	0.000000	0.000000	3390.334373	2463.220042	0.000000

# 回答

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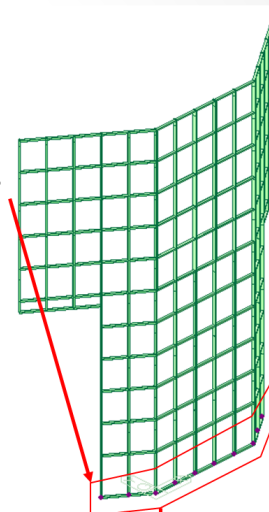
# 回答

我已經看您的模型。  
然後看 Support Reaction 的 Value  
都是在結構的下面。

因為在 1F，Floor Diaphragm 是  
Do Not Consider。

Node	Load	FX (kgf)	FY (kgf)	FZ (kgf)	MX (kgf*cm)	MY (kgf*cm)	MZ (kgf*cm)
1	WY1	-118.303238	-364.109869	0.000000	0.000000	0.000000	0.000000
2	WY1	0.000000	-405.888629	0.000000	0.000000	0.000000	0.000000
3	WY1	0.000000	-409.413230	0.000000	0.000000	0.000000	0.000000
4	WY1	0.000000	-409.413230	0.000000	0.000000	0.000000	0.000000
5	WY1	0.000000	-405.888629	0.000000	0.000000	0.000000	0.000000
6	WY1	118.303238	-364.109869	0.000000	0.000000	0.000000	0.000000
299	WY1	-112.225822	-154.465593	0.000000	0.000000	0.000000	0.000000
301	WY1	-238.273481	-327.955313	0.000000	0.000000	0.000000	0.000000
383	WY1	238.273481	-327.955313	0.000000	0.000000	0.000000	0.000000
385	WY1	112.225822	-154.465593	0.000000	0.000000	0.000000	0.000000

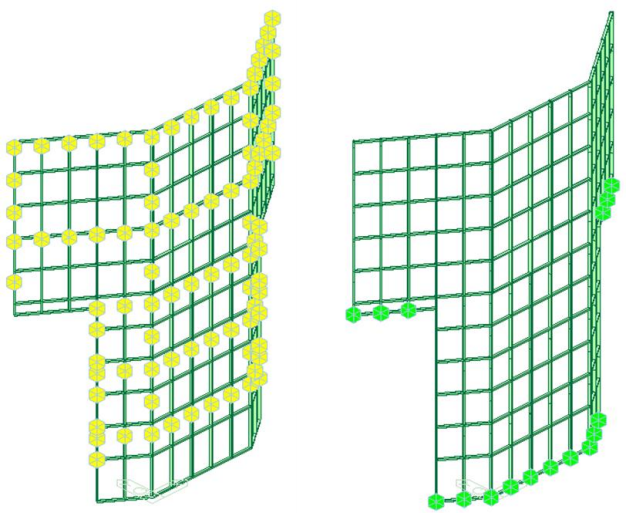
Node 1-6, 299, 301, 383, 385 有 FY。  
其他的沒有。



Module Name	Story Name	Level(cm)	Height(cm)	Floor Diaphragm
Base	11F	1070.00	62.00	Consider
Base	10F	952.00	118.00	Consider
Base	9F	890.00	62.00	Consider
Base	8F	772.00	118.00	Consider
Base	7F	710.00	62.00	Consider
Base	6F	592.00	118.00	Consider
Base	5F	530.00	62.00	Consider
Base	4F	412.00	118.00	Consider
Base	3F	350.00	62.00	Consider
Base	2F	232.00	118.00	Consider
Base	1F	0.00	232.00	Do not consider

因為在 1F 的 Floor Diaphragm 是 Do Not Consider。  
所以 Support Reaction 有 Value。

然後我看其他的 Support (Spring Support 和 Fixed Support) 在 2F 到 Roof。  
在 2F 到 Roof，Floor Diaphragm 都是 Consider。所以應該 Support Reaction 沒有 Value。

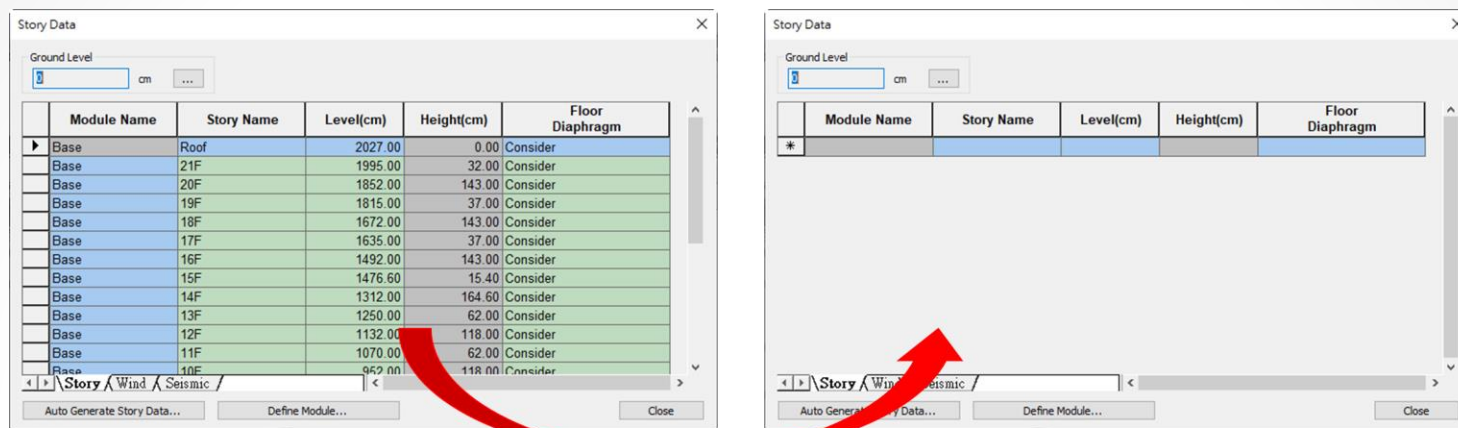


Module Name	Story Name	Level(cm)	Height(cm)	Floor Diaphragm
Base	Roof	2027.00	0.00	Consider
Base	21F	1995.00	32.00	Consider
Base	20F	1852.00	143.00	Consider
Base	19F	1815.00	37.00	Consider
Base	18F	1672.00	143.00	Consider
Base	17F	1635.00	37.00	Consider
Base	16F	1492.00	143.00	Consider
Base	15F	1476.60	15.40	Consider
Base	14F	1312.00	164.60	Consider
Base	13F	1250.00	62.00	Consider
Base	12F	1132.00	118.00	Consider
Base	11F	1070.00	62.00	Consider
Base	10E	962.00	118.00	Consider

```
Calculating the Total Weight of the structure.
The process of Data Preparation for Analysis/Post-processing Completed.
Saving the Input Data.
Checking the Input Data to perform Analysis.
Creating Data for Analysis.
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=307, DOF component=X - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=307, DOF component=Y - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=307, DOF component=Rotation about Z -Axis
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=315, DOF component=X - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=315, DOF component=Y - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=315, DOF component=Rotation about Z -Axis
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=323, DOF component=X - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=323, DOF component=Y - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=323, DOF component=Rotation about Z -Axis
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=413, DOF component=X - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=413, DOF component=Y - Displacement
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[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=421, DOF component=X - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=421, DOF component=Y - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=421, DOF component=Rotation about Z -Axis
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=429, DOF component=X - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=429, DOF component=Y - Displacement
[Warning]Constrained degrees-of-freedom at Slave nodes are automatically released. Node=429, DOF component=Rotation about Z -Axis
*** Reading Analysis Result
Reading Reaction Force Result - Static Analysis
```

如果在 2F~Roof 您已經輸入 Spring Support，您應該不能做 Floor Diaphragm。

所以您應該 Delete 那個 Floor Diaphragm 。跑分析以後，Support Reaction 都有 Value 。



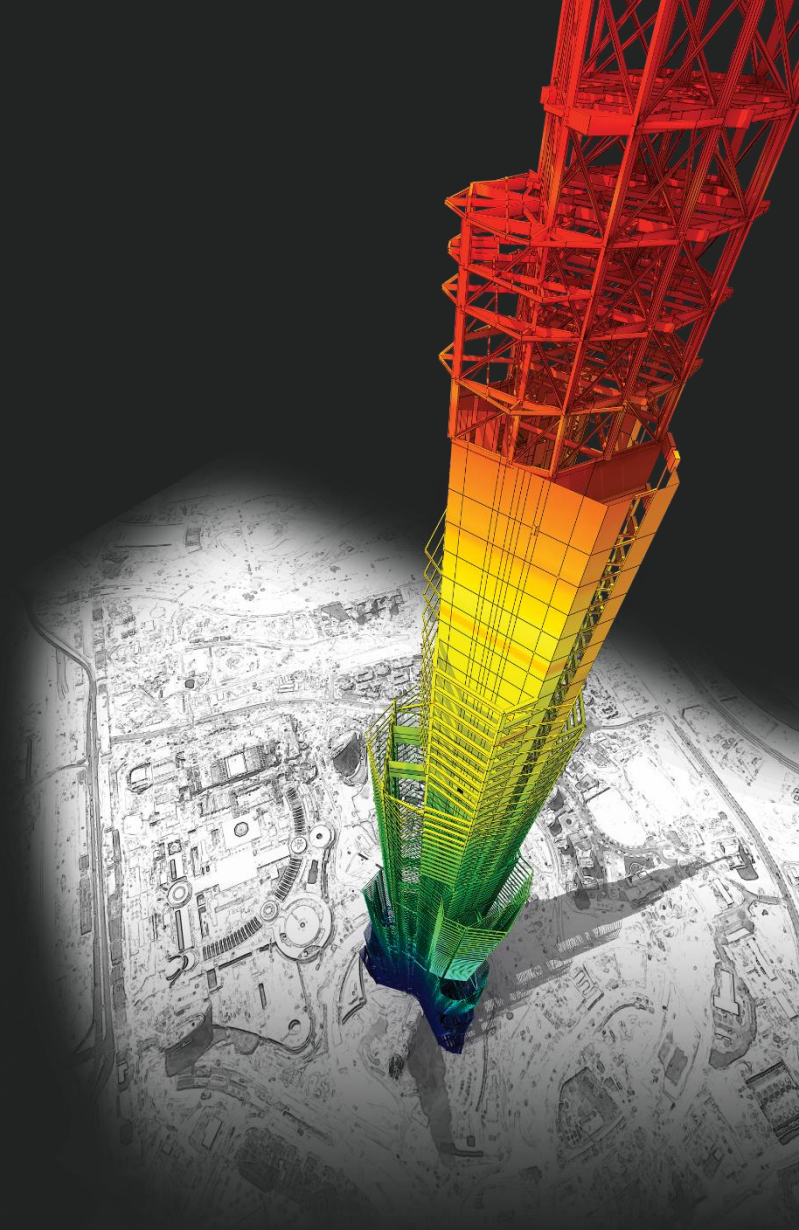
Delete Floor Diaphragm 。

Support Reaction 沒有問題 。

Node	Load	Fx (kgf)	Fy (kgf)	Fz (kgf)	Mx (kgfcm)	My (kgfcm)	Mz (kgfcm)
1	WY1	-137.581980	-421.588419	0.000000	0.000000	0.000000	0.000000
2	WY1	-3.496106	-729.722711	0.000000	0.000000	0.000000	0.000000
3	WY1	-1.162854	-740.377820	0.000000	0.000000	0.000000	0.000000
4	WY1	1.162854	-740.377820	0.000000	0.000000	0.000000	0.000000
5	WY1	3.495106	-729.722711	0.000000	0.000000	0.000000	0.000000
6	WY1	137.581980	-421.588419	0.000000	0.000000	0.000000	0.000000
13	WY1	-101.968930	-299.200543	0.000000	0.000000	0.000000	0.000000
14	WY1	-132.544014	-393.603772	0.000000	0.000000	0.000000	0.000000
15	WY1	-149.032745	-507.579143	0.000000	0.000000	0.000000	0.000000
16	WY1	-154.459819	-547.536283	0.000000	0.000000	0.000000	0.000000
17	WY1	-14.013446	-1471.998224	0.000000	0.000000	0.000000	0.000000
18	WY1	-7.192470	-1492.767181	0.000000	0.000000	0.000000	0.000000
19	WY1	-2.471534	-1586.771538	0.000000	0.000000	0.000000	0.000000
20	WY1	-35.138134	-1928.633858	0.000000	0.000000	0.000000	0.000000
21	WY1	-4.642960	-1475.364422	0.000000	0.000000	0.000000	0.000000
22	WY1	-2.380489	-1504.836721	0.000000	0.000000	0.000000	0.000000
23	WY1	-0.821813	-1598.611194	0.000000	0.000000	0.000000	0.000000
24	WY1	-10.309993	-1939.489546	0.000000	0.000000	0.000000	0.000000
25	WY1	4.642960	-1475.364420	0.000000	0.000000	0.000000	0.000000
26	WY1	2.380489	-1504.836719	0.000000	0.000000	0.000000	0.000000
27	WY1	0.821813	-1598.611192	0.000000	0.000000	0.000000	0.000000
28	WY1	10.353322	-1939.489551	0.000000	0.000000	0.000000	0.000000
29	WY1	14.013446	-1471.998225	0.000000	0.000000	0.000000	0.000000
30	WY1	7.192470	-1492.767181	0.000000	0.000000	0.000000	0.000000
31	WY1	2.471534	-1586.771539	0.000000	0.000000	0.000000	0.000000
32	WY1	35.196784	-1928.634090	0.000000	0.000000	0.000000	0.000000
33	WY1	101.968930	-299.200543	0.000000	0.000000	0.000000	0.000000
34	WY1	132.544014	-393.603772	0.000000	0.000000	0.000000	0.000000
35	WY1	149.032745	-507.579143	0.000000	0.000000	0.000000	0.000000
36	WY1	154.460976	-547.536436	0.000000	0.000000	0.000000	0.000000
37	WY1	-119.939993	-382.484551	0.000000	4019.855549	-1287.539820	0.000000
38	WY1	-8.834028	-1195.215027	0.000000	4771.854988	-145.835823	0.000000
39	WY1	-1.437792	-1214.390956	0.000000	4847.302700	-43.464889	0.000000
40	WY1	1.433685	-1214.390945	0.000000	4847.302700	43.464889	0.000000
41	WY1	4.829996	-1195.214629	0.000000	4771.854986	145.835823	0.000000
42	WY1	119.939819	-382.488219	0.000000	4019.855548	1287.539820	0.000000

# Thank You

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