 Software licensed to	Job No	Sheet No 1	Rev
	Part		
Job Title G+3 RCC Building	Ref		
	By Team 7	Date 17-Sep-21	Chd
Client	File G+3.std	Date/Time 17-Sep-2021 22:00	

Job Information

	Engineer	Checked	Approved
Name:	Team 7		
Date:	17-Sep-21		

Structure Type	SPACE FRAME
----------------	-------------

Number of Nodes	168	Highest Node	174
Number of Elements	315	Highest Beam	317
Number of Plates	15	Highest Plate	332

Number of Basic Load Cases	-2
Number of Combination Load Cases	1

Included in this printout are data for:

All	The Whole Structure
-----	---------------------

Included in this printout are results for load cases:

Type	L/C	Name
Primary	1	DL
Primary	2	LL
Combination	3	1.5 X COMBINATION LOAD

Section Properties

Prop	Section	Area (cm ²)	I _{yy} (cm ⁴)	I _{zz} (cm ⁴)	J (cm ⁴)	Material
2	Rect 0.45x0.23	1.04E+3	45.6E+3	175E+3	124E+3	CONCRETE
3	Rect 0.60x0.30	1.8E+3	135E+3	540E+3	371E+3	CONCRETE

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	15.000	15.000	15.000	15.000	CONCRETE

Materials

Mat	Name	E (kN/mm ²)	v	Density (kg/m ³)	α (/°C)
1	STEEL	205.000	0.300	7.83E+3	12E -6
2	STAINLESSSTEEL	197.930	0.300	7.83E+3	18E -6
3	ALUMINUM	68.948	0.330	2.71E+3	23E -6
4	CONCRETE	21.718	0.170	2.4E+3	10E -6



Software licensed to

Job No

Sheet No

2

Rev

Part

Job Title G+3 RCC Building

Ref

By Team 7

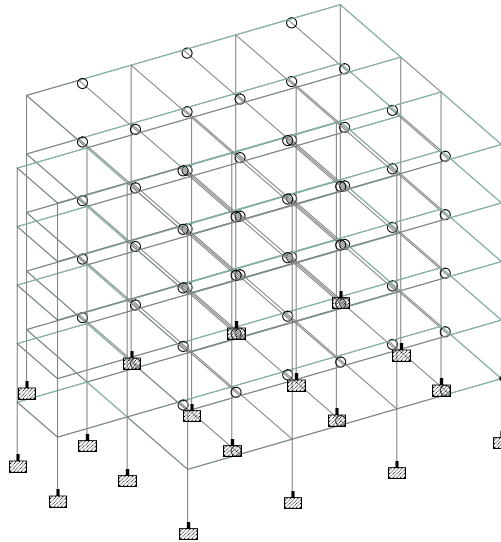
Date 17-Sep-21

Chd

Client

File G+3.std

Date/Time 17-Sep-2021 22:00



Load 1

Whole Structure (Input data was modified after picture taken)

Node Displacement Summary

	Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
Max X	168	3:1.5 X COMBI	1.368	-1.864	-0.003	2.312	0.000	-0.000	-0.001
Min X	160	2:LL	-0.005	-0.005	0.000	0.008	-0.000	-0.000	0.000
Max Y	32	1:DL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min Y	139	3:1.5 X COMBI	0.864	-11.998	0.001	12.029	-0.000	0.000	0.000
Max Z	98	3:1.5 X COMBI	1.275	-4.320	0.069	4.505	0.001	-0.000	-0.000
Min Z	110	3:1.5 X COMBI	1.275	-4.320	-0.069	4.505	-0.001	0.000	-0.000
Max rX	96	3:1.5 X COMBI	1.320	-4.808	0.030	4.986	0.001	0.000	-0.001
Min rX	108	3:1.5 X COMBI	1.320	-4.808	-0.030	4.986	-0.001	-0.000	-0.001
Max rY	96	3:1.5 X COMBI	1.320	-4.808	0.030	4.986	0.001	0.000	-0.001
Min rY	108	3:1.5 X COMBI	1.320	-4.808	-0.030	4.986	-0.001	-0.000	-0.001
Max rZ	103	3:1.5 X COMBI	1.232	-5.697	0.010	5.829	-0.001	0.000	0.001
Min rZ	96	3:1.5 X COMBI	1.320	-4.808	0.030	4.986	0.001	0.000	-0.001
Max Rst	139	3:1.5 X COMBI	0.864	-11.998	0.001	12.029	-0.000	0.000	0.000



Software licensed to

Job No

Sheet No

3

Rev

Part

Job Title G+3 RCC Building

Ref

By Team 7

Date 17-Sep-21

Chd

Client

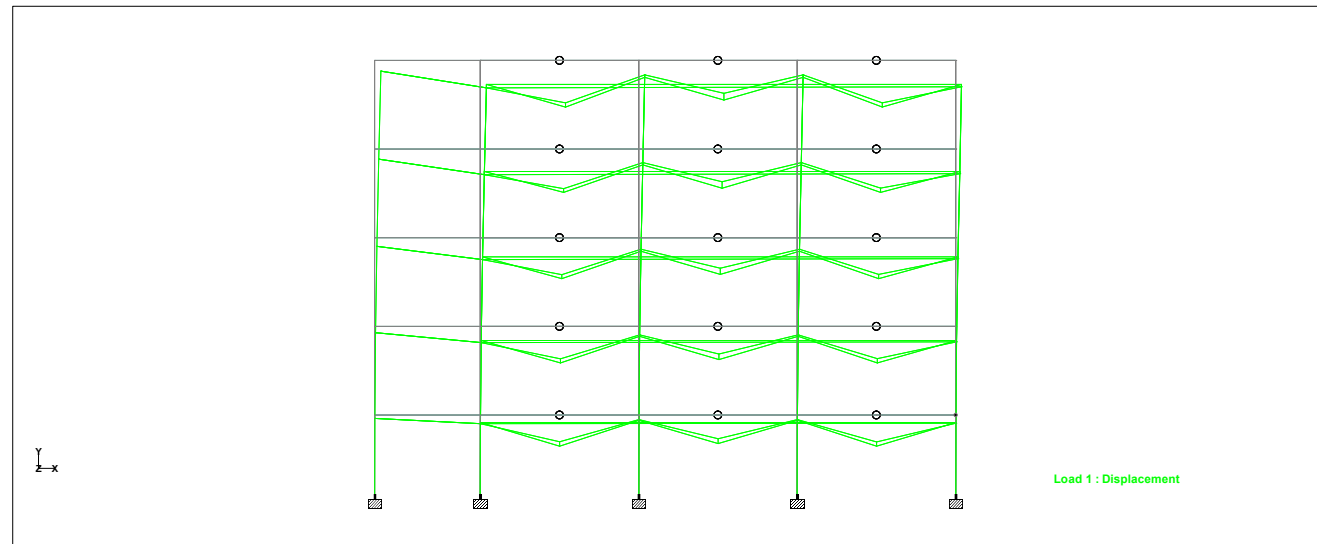
File G+3.std

Date/Time 17-Sep-2021 22:00

Beam Displacement Detail Summary

Displacements shown in italic indicate the presence of an offset

	Beam	L/C	d (m)	X (mm)	Y (mm)	Z (mm)	Resultant (mm)
Max X	115	3:1.5 X COMBI	2.680	1.455	-5.625	0.211	5.814
Min X	44	3:1.5 X COMBI	1.200	-0.182	-0.905	-0.379	0.997
Max Y	44	1:DL	3.000	0.000	0.000	0.000	0.000
Min Y	244	3:1.5 X COMBI	3.000	0.865	-28.954	0.001	28.967
Max Z	120	3:1.5 X COMBI	2.345	0.919	-4.716	0.399	4.821
Min Z	108	3:1.5 X COMBI	2.345	0.919	-4.716	-0.398	4.821
Max Rst	244	3:1.5 X COMBI	3.000	0.865	-28.954	0.001	28.967



Whole Structure Displacements 3mm:1m 1 DL

Beam End Displacement Summary

Displacements shown in italic indicate the presence of an offset

	Beam	Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)
Max X	310	168	3:1.5 X COMBI	1.368	-1.863	-0.003	2.312
Min X	292	161	2:LL	-0.005	-0.005	0.000	0.008
Max Y	44	32	1:DL	0.000	0.000	0.000	0.000
Min Y	215	139	3:1.5 X COMBI	0.864	-11.998	0.001	12.029
Max Z	110	98	3:1.5 X COMBI	1.274	-4.321	0.069	4.505
Min Z	121	109	3:1.5 X COMBI	1.288	-4.321	-0.068	4.509
Max Rst	215	139	3:1.5 X COMBI	0.864	-11.998	0.001	12.029



Software licensed to

Job No

Sheet No

4

Rev

Part

Job Title G+3 RCC Building

Ref

By Team 7

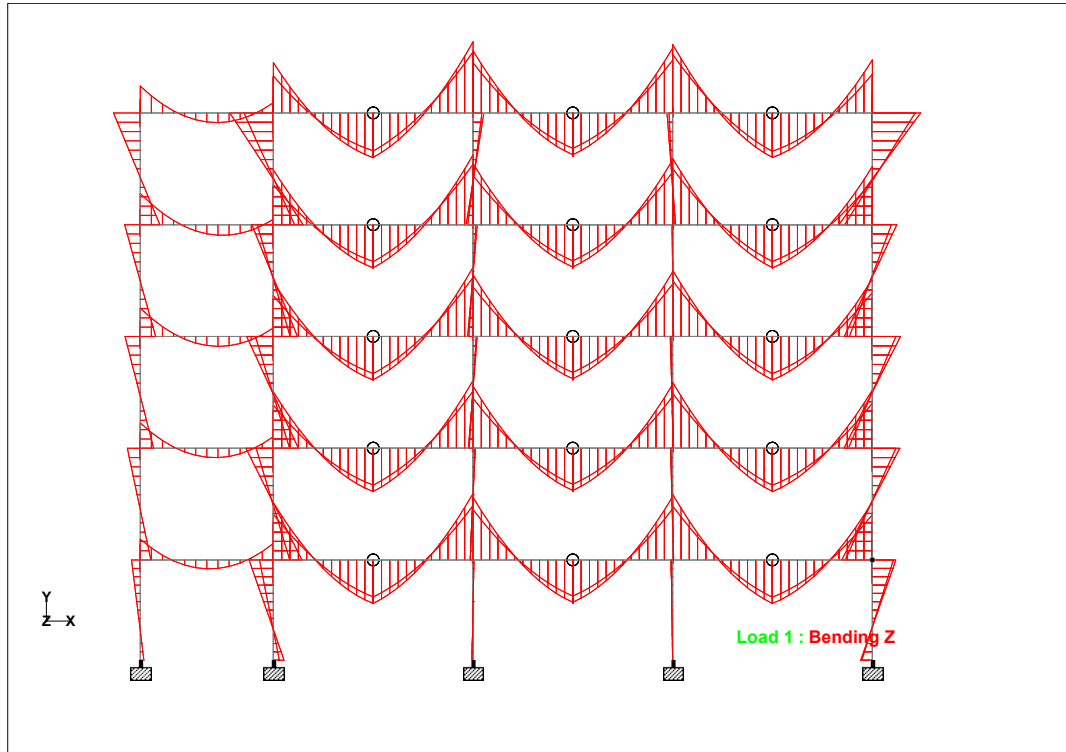
Date 17-Sep-21

Chd

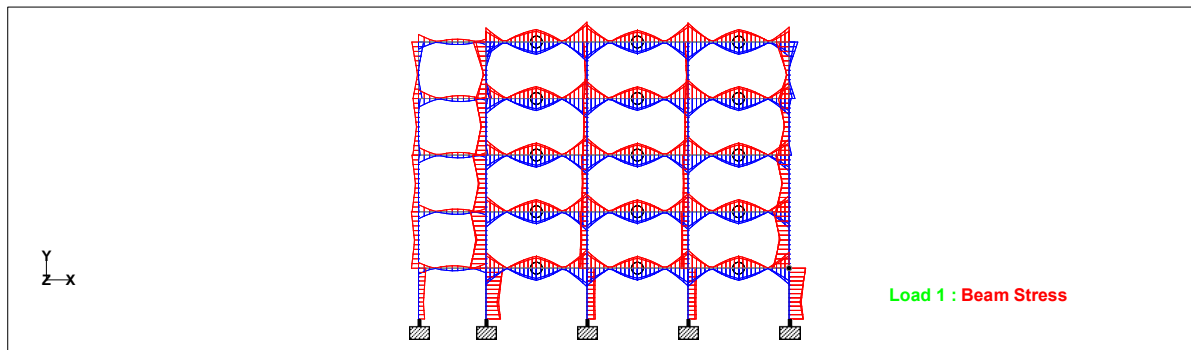
Client

File G+3.std

Date/Time 17-Sep-2021 22:00



Whole Structure Mz 40kNm:1m 1 DL (Input data was modified after picture taken)



Whole Structure Beam Stress 9.4e+006mm:m 1 DL (Input data was modified after picture taken)



Software licensed to

Job No

Sheet No

5

Rev

Part

Job Title G+3 RCC Building

Ref

By Team 7

Date 17-Sep-21

Chd

Client

File G+3.std

Date/Time 17-Sep-2021 22:00

Reaction Summary

			Horizontal	Vertical	Horizontal	Moment		
	Node	L/C	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
Max FX	32	3:1.5 X COMBI	31.580	1.97E+3	16.692	16.532	0.056	-29.280
Min FX	39	3:1.5 X COMBI	-36.813	2.34E+3	-9.196	-9.051	0.033	35.913
Max FY	36	3:1.5 X COMBI	28.713	2.42E+3	-11.939	-11.774	0.015	-26.726
Min FY	173	2:LL	0.176	7.026	-0.090	-0.089	0.001	-0.307
Max FZ	32	3:1.5 X COMBI	31.580	1.97E+3	16.692	16.532	0.056	-29.280
Min FZ	44	3:1.5 X COMBI	31.580	1.97E+3	-16.692	-16.532	-0.056	-29.280
Max MX	32	3:1.5 X COMBI	31.580	1.97E+3	16.692	16.532	0.056	-29.280
Min MX	44	3:1.5 X COMBI	31.580	1.97E+3	-16.692	-16.532	-0.056	-29.280
Max MY	32	3:1.5 X COMBI	31.580	1.97E+3	16.692	16.532	0.056	-29.280
Min MY	44	3:1.5 X COMBI	31.580	1.97E+3	-16.692	-16.532	-0.056	-29.280
Max MZ	39	3:1.5 X COMBI	-36.813	2.34E+3	-9.196	-9.051	0.033	35.913
Min MZ	32	3:1.5 X COMBI	31.580	1.97E+3	16.692	16.532	0.056	-29.280

Base Pressure Summary

	Node	L/C	FX (N/mm ²)	FY (N/mm ²)	FZ (N/mm ²)
Max FX	32	1:DL	0.000	0.000	0.000
Min FX	32	1:DL	0.000	0.000	0.000
Max FY	32	1:DL	0.000	0.000	0.000
Min FY	32	1:DL	0.000	0.000	0.000
Max FZ	32	1:DL	0.000	0.000	0.000
Min FZ	32	1:DL	0.000	0.000	0.000

Statics Check Results

L/C		FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
1:DL	Loads	0.000	-16.2E+3	0.000	130E+3	0.000	-132E+3
1:DL	Reactions	0.000	16.2E+3	-0.000	-130E+3	0.000	132E+3
	Difference	0.000	0.000	-0.000	0.000	0.000	0.001
2:LL	Loads	0.000	-6.62E+3	0.000	53E+3	0.000	-59.6E+3
2:LL	Reactions	0.000	6.62E+3	-0.000	-53E+3	-0.000	59.6E+3
	Difference	0.000	0.000	-0.000	0.000	-0.000	0.001



Software licensed to

Job No

Sheet No

6

Rev

Part

Job Title **G+3 RCC Building**

Ref

By **Team 7**

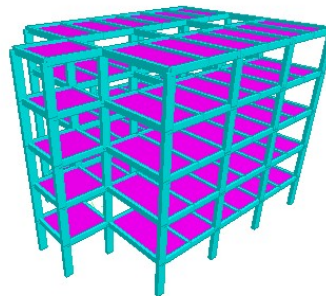
Date **17-Sep-21**

Chd

Client

File **G+3.std**

Date/Time **17-Sep-2021 22:00**



3D Rendered View (Input data was modified after picture taken)