2	Job No	Sheet No	1	Rev	
Software licensed to HP	Part				
Job Title	Ref				
	By Date08-Nov-20 Chd				
Client	File RAJESH KUMA	R [ BEAV.	Date/Time 08-Nov-	2020 22:59	

## **Job Information**

	Engineer	Checked	Approved		
Name:					
Date:	08-Nov-20				

#### Structure Type SPACE FRAME

Number of Nodes	145	Highest Node	145
Number of Elements	114	Highest Beam	212
Number of Plates	100	Highest Plate	214

Number of Basic Load Cases	1
Number of Combination Load Cases	0

Included in this printout are data for:

A.1.	TI 14/1 1 01 1
All	The Whole Structure

Included in this printout are results for load cases:

Туре	L/C	Name
Primary	1	dead

## **Node Displacement Summary**

	Node	L/C	Х	Υ	Z	Resultant	rX	rY	rZ
			(mm)	(mm)	(mm)	(mm)	(rad)	(rad)	(rad)
Max X	19	1:dead	0.012	-1.109	-0.153	1.120	0.000	0.000	-0.002
Min X	6	1:dead	-0.012	-1.109	0.153	1.120	-0.000	0.000	0.002
Max Y	61	1:dead	-0.000	1.364	0.153	1.372	-0.001	-0.000	-0.000
Min Y	39	1:dead	-0.004	-53.868	0.211	53.868	-0.001	0.000	0.006
Max Z	3	1:dead	0.004	-0.570	0.300	0.644	0.003	0.000	-0.001
Min Z	23	1:dead	0.004	-0.570	-0.300	0.644	-0.003	-0.000	-0.001
Max rX	1	1:dead	0.002	-16.546	0.247	16.548	0.005	-0.000	0.004
Min rX	21	1:dead	0.002	-16.546	-0.247	16.548	-0.005	0.000	0.004
Max rY	52	1:dead	-0.001	-5.171	0.271	5.178	0.005	0.000	-0.003
Min rY	40	1:dead	0.001	-5.171	0.271	5.178	0.005	-0.000	0.003
Max rZ	5	1:dead	-0.010	-28.976	0.154	28.976	-0.001	0.000	0.007
Min rZ	8	1:dead	0.010	-28.976	0.154	28.976	-0.001	-0.000	-0.007
Max Rst	39	1:dead	-0.004	-53.868	0.211	53.868	-0.001	0.000	0.006

2	Job No	Sheet No	2	Rev	
Software licensed to HP	Part				
Job Title	Ref				
	Ву	Date <sub>0</sub> 8-Nov-20 Chd			
Client	File RAJESH KUMA	R [ BEAV.	Date/Time 08-Nov-	2020 22:59	

### **Beam End Force Summary**

The signs of the forces at end B of each beam have been reversed. For example: this means that the Min Fx entry gives the largest tension value for an beam.

				Axial	Shear		Torsion	Torsion Bendi	
	Beam	Node	L/C	Fx	Fy	Fz	Mx	Му	Mz
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Max Fx	41	27	1:dead	3.8E+3	238.282	52.074	-0.000	-0.000	0.000
Min Fx	23	14	1:dead	-114.312	318.670	0.616	18.475	1.363	1.83E+3
Max Fy	31	19	1:dead	126.562	2.21E+3	5.817	-300.740	-1.415	4.78E+3
Min Fy	76	6	1:dead	126.562	-2.21E+3	5.817	-300.741	1.415	4.78E+3
Max Fz	50	23	1:dead	1.57E+3	-128.984	362.947	0.000	-4.36E+3	-1.55E+3
Min Fz	40	3	1:dead	1.57E+3	-128.984	-362.947	0.000	4.36E+3	-1.55E+3
Max Mx	38	23	1:dead	103.938	1E+3	-188.232	2.26E+3	48.573	2.58E+3
Min Mx	3	3	1:dead	103.938	1E+3	188.232	-2.26E+3	-48.573	2.58E+3
Max My	40	3	1:dead	1.57E+3	-128.984	-362.947	0.000	4.36E+3	-1.55E+3
Min My	50	23	1:dead	1.57E+3	-128.984	362.947	0.000	-4.36E+3	-1.55E+3
Max Mz	169	18	1:dead	126.562	-2.21E+3	-5.817	300.740	-1.415	4.78E+3
Min Mz	42	7	1:dead	3.3E+3	-238.282	52.074	0.000	-624.891	-2.86E+3

### **Plate Centre Principal Stress Summary**

			Principal		Von Mis		Tresca	
	Plate	L/C	Тор	Bottom	Тор	Bottom	Тор	Bottom
			(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )	$(N/mm^2)$	$(N/mm^2)$	(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )
Max (t)	53	1:dead	1.364	0.419	1.630	1.712	1.805	1.882
Max (b)	85	1:dead	-1.070	4.271	3.822	3.894	4.243	4.271
Max VM (t)	79	1:dead	-1.070	4.271	3.822	3.894	4.243	4.271
Max VM (b)	85	1:dead	-1.070	4.271	3.822	3.894	4.243	4.271
Tresca (t)	79	1:dead	-1.070	4.271	3.822	3.894	4.243	4.271
Tresca (b)	79	1:dead	-1.070	4.271	3.822	3.894	4.243	4.271

### **Reaction Summary**

			Horizontal	Vertical	Horizontal		Moment	
	Node	L/C	FX	FY	FZ	MX	MY	MZ
			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Max FX	28	1:dead	238.282	3.8E+3	-52.074	0.000	0.000	0.000
Min FX	27	1:dead	-238.282	3.8E+3	-52.074	0.000	0.000	0.000
Max FY	27	1:dead	-238.282	3.8E+3	-52.074	0.000	0.000	0.000
Min FY	36	1:dead	128.984	2.07E+3	-362.947	0.000	0.000	0.000
Max FZ	26	1:dead	128.984	2.07E+3	362.947	0.000	0.000	0.000
Min FZ	36	1:dead	128.984	2.07E+3	-362.947	0.000	0.000	0.000
Max MX	25	1:dead	-128.984	2.07E+3	362.947	0.000	0.000	0.000
Min MX	25	1:dead	-128.984	2.07E+3	362.947	0.000	0.000	0.000
Max MY	25	1:dead	-128.984	2.07E+3	362.947	0.000	0.000	0.000
Min MY	25	1:dead	-128.984	2.07E+3	362.947	0.000	0.000	0.000
Max MZ	25	1:dead	-128.984	2.07E+3	362.947	0.000	0.000	0.000

2	Job No	Sheet No	3	Rev	
Software licensed to HP	Part				
Job Title	Ref				
	By Date <sub>08-Nov-20</sub> Chd				
Client	File RAJESH KUMA	R [ BEAV.	Date/Time 08-Nov-	2020 22:59	

# **Reaction Summary Cont...**

			Horizontal	Vertical	Horizontal	Moment		
	Node	L/C	FX	FY	FZ	MX	MY	MZ
			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Min MZ	25	1:dead	-128.984	2.07E+3	362.947	0.000	0.000	0.000