

Table: Frame Section Properties 01 - General, Part 1 of 7

SectionName	Material	Shape	t3 m	t2 m	tf m	tw m
barandaS2	A36	Pipe	0,050000			0,002000
C36X36X2.5	A36	Box/Tube	0,360000	0,360000	0,025000	0,025000
FSEC1	A36	Pipe	0,600000			0,008000
FSEC2	A36	Pipe	0,650000			0,005000
IPE200	A36	I/Wide Flange	0,200000	0,100000	0,008500	0,005600
IPE300	A36	I/Wide Flange	0,300000	0,150000	0,010700	0,007100
IPE400	A36	I/Wide Flange	0,400000	0,180000	0,013500	0,008600
Riostra 7X7X3	A36	Pipe	0,070000			0,006000
RIOSTRA2	A36	Pipe	0,070000			0,005000
Riostras en columnas	A36	Box/Tube	0,200000	0,200000	0,025000	0,025000
T60	A36	Pipe	0,600000			0,019000
TUBO120X60X10	A36	Box/Tube	0,120000	0,060000	0,010000	0,010000
tubo2	A36	Pipe	0,090000			0,015000
TUBO200X200X20	A36	Box/Tube	0,200000	0,200000	0,020000	0,020000
TUBO260X260X20	A36	Box/Tube	0,260000	0,260000	0,020000	0,020000
TUBO360X360X40	A36	Box/Tube	0,360000	0,360000	0,040000	0,040000
TUBO-D273X5.6	A36	Pipe	0,273000			0,005600
TUBO-D76.1X3.2	A36	Pipe	0,076100			0,003200
tubos	A36	Pipe	0,090000			0,006000

Table: Frame Section Properties 01 - General, Part 2 of 7

SectionName	t2b m	tfb m	Area m2	TorsConst m4	I33 m4	I22 m4	I23 m4
barandaS2			0,000302	1,740E-07	8,701E-08	8,701E-08	0,000000
C36X36X2.5			0,033500	0,000940	0,000630	0,000630	0,000000
IPE400	0,180000	0,013500	0,008450	5,130E-07	0,000231	0,000013	0,000000
Riostra 7X7X3			0,001206	1,246E-06	6,231E-07	6,231E-07	0,000000
RIOSTRA2			0,001021	1,085E-06	5,424E-07	5,424E-07	0,000000
Riostras en columnas			0,017500	0,000134	0,000091	0,000091	0,000000
T60			0,034680	0,002930	0,001465	0,001465	0,000000
TUBO120X60X10			0,003200	3,781E-06	5,307E-06	1,627E-06	0,000000
tubo2			0,003534	5,169E-06	2,584E-06	2,584E-06	0,000000
TUBO200X200X20			0,014400	0,000117	0,000079	0,000079	0,000000
TUBO260X260X20			0,019200	0,000277	0,000186	0,000186	0,000000
TUBO360X360X40			0,051200	0,001311	0,000888	0,000888	0,000000
TUBO-D273X5.6			0,004704	0,000084	0,000042	0,000042	0,000000
TUBO-D76.1X3.2			0,000733	9,737E-07	4,878E-07	4,878E-07	0,000000
tubos			0,001583	2,807E-06	1,404E-06	1,404E-06	0,000000

Table: Frame Section Properties 01 - General, Part 4 of 7

SectionName	R22 m	ConcCol	ConcBeam	Color	TotalWt Tonf	TotalMass Tonf-s2/m	FromFile
barandaS2	0,016985	No	No	Green	0,8238	8,400E-02	No
C36X36X2.5	0,137143	No	No	Cyan	9,4660	0,97	No
IPE400	0,039494	No	No	Red	6,3671	0,65	Yes
Riostra 7X7X3	0,022727	No	No	Yellow	0,9668	9,858E-02	No
RIOSTRA2	0,023049	No	No	Gray8Dark	0,1258	1,283E-02	No
Riostras en columnas	0,072169	No	No	Magenta	5,9430	0,61	No
T60	0,205524	No	No	Cyan	16,0120	1,63	No
TUBO120X60X10	0,022549	No	No	Blue	2,1852	0,22	Yes
tubo2	0,027042	No	No	Gray8Dark	0,4117	4,198E-02	No
TUBO200X200X20	0,073937	No	No	Cyan	0,0000	0,00	Yes
TUBO260X260X20	0,098319	No	No	Green	0,0000	0,00	Yes
TUBO360X360X40	0,131659	No	No	Green	0,0000	0,00	Yes
TUBO-D273X5.6	0,094570	No	No	8421440	0,0000	0,00	Yes
TUBO-D76.1X3.2	0,025799	No	No	Green	0,0000	0,00	Yes
tubos	0,029774	No	No	Magenta	0,7795	7,949E-02	No

Table: Frame Section Properties 13 - Time Dependent

SectionName	TypeSize	AutoValSize m	AutoSFSsize	UserValSize m
barandaS2	Auto	0,00200	1,000000	
C36X36X2.5	Auto	0,02500	1,000000	
IPE400	Auto	0,05000	1,000000	
Riostra 7X7X3	Auto	0,00600	1,000000	
RIOSTRA2	Auto	0,00500	1,000000	
Riostras en columnas	Auto	0,02500	1,000000	
T60	Auto	0,01900	1,000000	
TUBO120X60X10	Auto	0,25000	1,000000	
tubo2	Auto	0,01500	1,000000	
TUBO200X200X20	Auto	0,00000	1,000000	

TUBO260X260X20	Auto	0,25000	1,000000
TUBO360X360X40	Auto	0,05000	1,000000
TUBO-D273X5.6	Auto	0,00000	1,000000
TUBO-D76.1X3.2	Auto	0,00000	0,000000
tubos	Auto	0,00600	1,000000

Table: Joint Reactions, Part 1 of 2

Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2
				Tonf	Tonf	Tonf	Tonf-m	Tonf-m
49	COMB15	Combination	Max	0,6506	-0,3141	0,1173	6,65295	0,17158
49	COMB15	Combination	Min	-1,5872	-2,4957	-6,9774	0,66623	-0,17868
50	COMB15	Combination	Max	0,6513	2,4995	0,1171	-0,67666	0,17164
50	COMB15	Combination	Min	-1,5883	0,3179	-6,9848	-6,66426	-0,17874
52	COMB15	Combination	Max	5,2782	1,5834	14,6171	2,18121	0,89460
52	COMB15	Combination	Min	-5,4866	-1,6946	-30,8731	-5,32295	-1,05681
54	COMB15	Combination	Max	5,2779	1,7007	14,6234	5,30587	0,89496
54	COMB15	Combination	Min	-5,4845	-1,5757	-30,8494	-2,19503	-1,05677
75	COMB15	Combination	Max	1,5873	-0,3176	0,1139	6,66492	0,17872
75	COMB15	Combination	Min	-0,6517	-2,4999	-6,9861	0,67534	-0,17152
76	COMB15	Combination	Max	1,5877	2,5007	0,1116	-0,68206	0,17880
76	COMB15	Combination	Min	-0,6510	0,3198	-6,9860	-6,66714	-0,17160
78	COMB15	Combination	Max	5,4848	1,5828	14,5962	2,17583	1,05663
78	COMB15	Combination	Min	-5,2747	-1,6928	-30,8470	-5,32304	-0,89434
80	COMB15	Combination	Max	5,4862	1,6981	14,6490	5,31836	1,05669
80	COMB15	Combination	Min	-5,2804	-1,5802	-30,8588	-2,18713	-0,89528
433	COMB15	Combination	Max	4,1579	157,5800	107,2251	-35,87193	11,64462
433	COMB15	Combination	Min	-4,1559	52,4685	35,7026	-107,74085	-11,63732
434	COMB15	Combination	Max	4,1608	-52,4760	107,2449	107,74789	11,64973
434	COMB15	Combination	Min	-4,1624	-157,6026	35,7091	35,87432	-11,65304

Table: Joint Reactions, Part 2 of 2

Joint	OutputCase	StepType	M3
			Tonf-m
49	COMB15	Max	0,40607
49	COMB15	Min	-0,53613
50	COMB15	Max	0,53572
50	COMB15	Min	-0,40615
52	COMB15	Max	0,68946
52	COMB15	Min	-0,80931
54	COMB15	Max	0,80898
54	COMB15	Min	-0,69099
75	COMB15	Max	0,53459
75	COMB15	Min	-0,40756
76	COMB15	Max	0,40678
76	COMB15	Min	-0,53512
78	COMB15	Max	0,80976
78	COMB15	Min	-0,68909
80	COMB15	Max	0,68891
80	COMB15	Min	-0,81089
433	COMB15	Max	9,89436
433	COMB15	Min	-9,90133
434	COMB15	Max	9,90693
434	COMB15	Min	-9,90982

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
49	Yes	Yes	Yes	Yes	Yes	Yes
50	Yes	Yes	Yes	Yes	Yes	Yes
52	Yes	Yes	Yes	Yes	Yes	Yes
54	Yes	Yes	Yes	Yes	Yes	Yes
75	Yes	Yes	Yes	Yes	Yes	Yes
76	Yes	Yes	Yes	Yes	Yes	Yes
78	Yes	Yes	Yes	Yes	Yes	Yes
80	Yes	Yes	Yes	Yes	Yes	Yes
433	Yes	Yes	Yes	Yes	Yes	Yes
434	Yes	Yes	Yes	Yes	Yes	Yes

Table: Material List 1 - By Object Type

ObjectType	Material	TotalWeight Tonf	NumPieces
Frame	A36	43,0809	381

Table: Material List 2 - By Section Property

Section	ObjectType	NumPieces	TotalLength m	TotalWeight Tonf
TUBO120X60X10	Frame	29	87,00000	2,1852
T60	Frame	10	58,82318	16,0120

Riostra 7X7X3	Frame	26	102,10144	0,9668		
tubos	Frame	10	62,72223	0,7795		
RIOSTRA2	Frame	4	15,69502	0,1258		
barandaS2	Frame	262	348,00000	0,8238		
IPE400	Frame	20	96,00000	6,3671		
C36X36X2.5	Frame	8	36,00000	9,4660		
Riostras en columnas	Frame		8	43,26662	5,9430	
tubo2	Frame	4	14,84125	0,4117		

Table: Material Properties 02 - Basic Mechanical Properties

Material	UnitWeight	UnitMass	E1	G12	U12	A1
	Tonf/m3	Tonf-s2/m4	Tonf/m2	Tonf/m2		1/C
3000Psi	2,4028E+00	2,4501E-01	2194996,45	914581,85	0,200000	9,9000E-06
A36	7,8490E+00	8,0038E-01	20389019,16	7841930,45	0,300000	1,1700E-05

Table: Material Properties 03a - Steel Data, Part 1 of 2

Material	Fy	Fu	EffFy	EffFu	SSCurveOpt	SSHysType	SHard	SMax
	Tonf/m2	Tonf/m2	Tonf/m2	Tonf/m2				
A36	25310,51	40778,04	37965,76	44855,84	Simple	Kinematic	0,020000	0,140000

Table: Material Properties 03b - Concrete Data, Part 1 of 2

Material	Fc	LtWtConc	SSCurveOpt	SSHysType	SFc	SCap	FinalSlope	FAngle
	Tonf/m2							Degrees
3000Psi	2109,21	No	Mander	Takeda	0,001922	0,005000	-0,100000	0,000

Table: Modal Load Participation Ratios

OutputCase	ItemType	Item	Static Percent	Dynamic Percent
MODAL	Acceleration	UX	100,0000	93,9993
MODAL	Acceleration	UY	100,0000	96,6830
MODAL	Acceleration	UZ	82,4387	16,4618

Table: Modal Participating Mass Ratios, Part 1 of 3

OutputCase	StepType	StepNum	Period Sec	UX	UY	UZ	SumUX	SumUY
MODAL	Mode	1,000000	0,530039	0,234907	5,757E-11	7,374E-11	0,234907	5,757E-11
MODAL	Mode	2,000000	0,238035	1,198E-07	0,023470	6,746E-07	0,234907	0,023470
MODAL	Mode	3,000000	0,217649	2,761E-06	5,540E-08	0,164547	0,234910	0,023470
MODAL	Mode	4,000000	0,204228	0,269901	1,269E-09	1,848E-06	0,504811	0,023470
MODAL	Mode	5,000000	0,131465	1,809E-09	0,001259	2,287E-09	0,504811	0,024729
MODAL	Mode	6,000000	0,107502	0,003644	1,941E-06	0,000012	0,508455	0,024731
MODAL	Mode	7,000000	0,098227	0,018983	2,430E-06	9,725E-06	0,527438	0,024733
MODAL	Mode	8,000000	0,075262	4,585E-06	0,749361	5,520E-07	0,527442	0,774094
MODAL	Mode	9,000000	0,064204	0,186965	0,000471	2,902E-06	0,714407	0,774564
MODAL	Mode	10,000000	0,059718	0,001663	0,047077	0,000027	0,716070	0,821641
MODAL	Mode	11,000000	0,030893	0,000422	0,144904	9,084E-06	0,716491	0,966545
MODAL	Mode	12,000000	0,025003	0,223501	0,000285	7,519E-06	0,939993	0,966830

Table: Modal Participating Mass Ratios, Part 2 of 3

OutputCase	StepType	StepNum	SumUZ	RX	RY	RZ	SumRX	SumRY
MODAL	Mode	1,000000	7,374E-11	1,234E-10	0,830089	4,433E-11	1,234E-10	0,830089
MODAL	Mode	2,000000	6,747E-07	0,103643	9,405E-11	1,322E-10	0,103643	0,830089
MODAL	Mode	3,000000	0,164548	2,934E-07	4,646E-07	0,000013	0,103643	0,830090
MODAL	Mode	4,000000	0,164550	3,799E-08	0,005581	3,088E-09	0,103643	0,835671
MODAL	Mode	5,000000	0,164550	0,009888	3,482E-07	2,126E-06	0,113531	0,835671
MODAL	Mode	6,000000	0,164561	3,767E-07	2,341E-06	0,012211	0,113531	0,835674
MODAL	Mode	7,000000	0,164571	7,623E-09	0,036779	0,006781	0,113531	0,872453
MODAL	Mode	8,000000	0,164572	0,012037	4,609E-06	1,310E-06	0,125568	0,872457
MODAL	Mode	9,000000	0,164575	0,000041	0,005050	0,000766	0,125610	0,877507
MODAL	Mode	10,000000	0,164602	0,003775	0,000017	0,000086	0,129385	0,877524
MODAL	Mode	11,000000	0,164611	0,222936	0,000019	2,037E-06	0,352320	0,877543
MODAL	Mode	12,000000	0,164618	0,000835	0,000072	0,003471	0,353155	0,877616

Table: Modal Participating Mass Ratios, Part 3 of 3

OutputCase	StepType	StepNum	SumRZ

MODAL	Mode	1,000000	4,433E-11
MODAL	Mode	2,000000	1,765E-10
MODAL	Mode	3,000000	0,000013
MODAL	Mode	4,000000	0,000013
MODAL	Mode	5,000000	0,000016
MODAL	Mode	6,000000	0,012226
MODAL	Mode	7,000000	0,019007
MODAL	Mode	8,000000	0,019009
MODAL	Mode	9,000000	0,019775
MODAL	Mode	10,000000	0,019861
MODAL	Mode	11,000000	0,019863
MODAL	Mode	12,000000	0,023333

Table: Modal Participation Factors, Part 1 of 2

OutputCase	StepType	StepNum	Period Sec	UX	UY	UZ	RX	RY
				Tonf-m	Tonf-m	Tonf-m	Tonf-m	Tonf-m
MODAL	Mode	1,000000	0,530039	0,899470	0,000014	-0,000016	0,000321	5,356287
MODAL	Mode	2,000000	0,238035	-0,000642	0,284309	-0,001524	9,295885	0,000057
MODAL	Mode	3,000000	0,217649	-0,003084	-0,000437	-0,752807	-0,015640	-0,004007
MODAL	Mode	4,000000	0,204228	0,964140	0,000066	-0,002522	0,005628	-0,439209
MODAL	Mode	5,000000	0,131465	0,000079	0,065852	-0,000089	2,871238	-0,003469
MODAL	Mode	6,000000	0,107502	0,112036	-0,002586	-0,006393	-0,017721	0,008994
MODAL	Mode	7,000000	0,098227	-0,255692	-0,002893	-0,005788	0,002521	-1,127463
MODAL	Mode	8,000000	0,075262	-0,003974	1,606512	0,001379	3,167997	-0,012622
MODAL	Mode	9,000000	0,064204	0,802451	0,040255	-0,003161	0,185650	0,417761
MODAL	Mode	10,000000	0,059718	-0,075670	0,402662	-0,009677	1,774083	0,024329
MODAL	Mode	11,000000	0,030893	-0,038107	-0,706445	-0,005593	13,633612	0,025715
MODAL	Mode	12,000000	0,025003	0,877361	-0,031326	0,005089	0,834454	0,050028

Table: Modal Participation Factors, Part 2 of 2

OutputCase	StepType	StepNum	RZ	ModalMass	ModalStiff
			Tonf-m	Tonf-m-s2	Tonf-m
MODAL	Mode	1,000000	-0,000189	1,0000	140,521965
MODAL	Mode	2,000000	0,000327	1,0000	696,754665
MODAL	Mode	3,000000	-0,104341	1,0000	833,382744
MODAL	Mode	4,000000	-0,001579	1,0000	946,519183
MODAL	Mode	5,000000	0,041437	1,0000	2284,242896
MODAL	Mode	6,000000	3,140718	1,0000	3416,089271
MODAL	Mode	7,000000	2,340454	1,0000	4091,620936
MODAL	Mode	8,000000	0,032526	1,0000	6969,620282
MODAL	Mode	9,000000	0,786582	1,0000	9577,138507
MODAL	Mode	10,000000	-0,263465	1,0000	11070,16775
MODAL	Mode	11,000000	-0,040562	1,0000	41364,4637
MODAL	Mode	12,000000	-1,674432	1,0000	63151,0136

Table: Modal Periods And Frequencies

OutputCase	StepType	StepNum	Period	Frequency	CircFreq	Eigenvalue
			Sec	Cyc/sec	rad/sec	rad2/sec2
MODAL	Mode	1,000000	0,530039	1,8867E+00	1,1854E+01	1,4052E+02
MODAL	Mode	2,000000	0,238035	4,2011E+00	2,6396E+01	6,9675E+02
MODAL	Mode	3,000000	0,217649	4,5945E+00	2,8868E+01	8,3338E+02
MODAL	Mode	4,000000	0,204228	4,8965E+00	3,0766E+01	9,4652E+02
MODAL	Mode	5,000000	0,131465	7,6066E+00	4,7794E+01	2,2842E+03
MODAL	Mode	6,000000	0,107502	9,3022E+00	5,8447E+01	3,4161E+03
MODAL	Mode	7,000000	0,098227	1,0180E+01	6,3966E+01	4,0916E+03
MODAL	Mode	8,000000	0,075262	1,3287E+01	8,3484E+01	6,9696E+03
MODAL	Mode	9,000000	0,064204	1,5575E+01	9,7863E+01	9,5771E+03
MODAL	Mode	10,000000	0,059718	1,6745E+01	1,0521E+02	1,1070E+04
MODAL	Mode	11,000000	0,030893	3,2369E+01	2,0338E+02	4,1364E+04
MODAL	Mode	12,000000	0,025003	3,9995E+01	2,5130E+02	6,3151E+04