

Table: Case - Response Spectrum 2 - Load Assignments

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Case	LoadType	LoadName	CoordSys	Function	Angle Degrees	TransAccSF m/sec2
EQ y	Acceleration	U1	GLOBAL	ESPECTRO_PAIPA	0,	2,943
EQ y	Acceleration	U2	GLOBAL	ESPECTRO_PAIPA	0,	9,81
EQ x	Acceleration	U1	GLOBAL	ESPECTRO_PAIPA	0,	9,81
EQ x	Acceleration	U2	GLOBAL	ESPECTRO_PAIPA	0,	2,943

Table: Case - Static 1 - Load Assignments

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Case	LoadType	LoadName	LoadSF
DW	Load pattern	DW	1,
LL	Load pattern	LLf1	1,
IM	Load pattern	IM	1,
DC	Load pattern	DC	1,
LLf2	Load pattern	LLf2	1,
LLc3	Load pattern	LLc3	1,
LLc4	Load pattern	LLc4	1,
LLtf5	Load pattern	LLtf5	1,
LLtf6	Load pattern	LLtf6	1,
LLtc7	Load pattern	LLtc7	1,
LLTC8	Load pattern	LLTC8	1,

Table: Frame Section Properties 01 - General, Part 1 of 6

Table: Frame Section Properties 01 - General, Part 1 of 6

SectionName	Material	Shape	t3 m	t2 m	tf m	tw m
FSEC1	A992Fy50	I/Wide Flange	0,3048	0,127	0,009652	0,00635
Tub_10"e12	A572Gr50	Pipe	0,2731			0,012
Tub_10"e9	A572Gr50	Pipe	0,2731			0,009
Tub_8"e10	A572Gr50	Pipe	0,2191			0,01

Table: Frame Section Properties 01 - General, Part 2 of 6

Table: Frame Section Properties 01 - General, Part 2 of 6

SectionName	t2b m	tfb m	FilletRadius m	Area m2	TorsConst m4	I33 m4	I22 m4
FSEC1	0,127	0,009652	0,	0,004265	9,651E-08	0,000066	3,301E-06
Tub_10"e12				0,009843	0,000168	0,000084	0,000084
Tub_10"e9				0,007467	0,00013	0,000065	0,000065
Tub_8"e10				0,006569	0,000072	0,000036	0,000036

Table: Frame Section Properties 01 - General, Part 3 of 6

Table: Frame Section Properties 01 - General, Part 3 of 6

SectionName	I23	AS2	AS3	S33	S22	Z33	Z22
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	m4	m2	m2	m3	m3	m3	m3
FSEC1	0,	0,001935	0,002043	0,000431	0,000052	0,000491	0,000081
Tub_10"e12	0,	0,004929	0,004929	0,000616	0,000616	0,000819	0,000819
Tub_10"e9	0,	0,003737	0,003737	0,000477	0,000477	0,000628	0,000628
Tub_8"e10	0,	0,00329	0,00329	0,000328	0,000328	0,000438	0,000438

Table: Frame Section Properties 01 - General, Part 4 of 6

Table: Frame Section Properties 01 - General, Part 4 of 6

SectionName	R33 m	R22 m	ConcCol	ConcBeam	Color	TotalWt KN	TotalMass KN-s2/m
FSEC1	0,124145	0,027823	No	No	Magenta	0,	0,
Tub_10"e12	0,09241	0,09241	No	No	DarkYellow	137,137	13,98
Tub_10"e9	0,093428	0,093428	No	No	Green	360,181	36,73
Tub_8"e10	0,074013	0,074013	No	No	Blue	417,166	42,54

Table: Frame Section Properties 01 - General, Part 5 of 6

Table: Frame Section Properties 01 - General, Part 5 of 6

SectionName	FromFile	AMod	A2Mod	A3Mod	JMod	I2Mod	I3Mod
FSEC1	No	1,	1,	1,	1,	1,	1,
Tub_10"e12	No	1,	1,	1,	1,	1,	1,
Tub_10"e9	No	1,	1,	1,	1,	1,	1,
Tub_8"e10	No	1,	1,	1,	1,	1,	1,

Table: Frame Section Properties 01 - General, Part 6 of 6

Table: Frame Section Properties 01 - General, Part 6 of 6

SectionName	MMod	WMod	GUID	Notes
FSEC1	1,	1,		Added 15/07/2022 20:12:56
Tub_10"e12	1,	1,		Added 15/07/2022 20:15:25
Tub_10"e9	1,	1,		Added 19/12/2022 11:14:38 a. m.
Tub_8"e10	1,	1,		Added 17/08/2022 21:33:50

Table: Load Case Definitions, Part 1 of 3

Table: Load Case Definitions, Part 1 of 3

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	DesTypeOpt	DesignType
DEAD	LinStatic	Zero				Prog Det	Other
MODAL	LinModal	Zero				Prog Det	Other
VIVA	LinStatic	Zero				Prog Det	Other
DW	LinStatic	Zero				Prog Det	Dead
LL	LinStatic	Zero				Prog Det	Live
IM	LinStatic	Zero				Prog Det	Live
EQ y	LinRespSpec		MODAL			Prog Det	Quake
DC	LinStatic	Zero				Prog Det	Dead
EQ x	LinRespSpec		MODAL			Prog Det	Quake
LLf2	LinStatic	Zero				Prog Det	Live
LLc3	LinStatic	Zero				Prog Det	Live
LLc4	LinStatic	Zero				Prog Det	Live
LLtf5	LinStatic	Zero				Prog Det	Live

LLtf6 LinStatic Zero
 LLtc7 LinStatic Zero
 LLTC8 LinStatic Zero

Prog Det Live
 Prog Det Live
 Prog Det Live

Table: Load Case Definitions, Part 2 of 3**Table: Load Case Definitions, Part 2 of 3**

Case	DesActOpt	DesignAct	AutoType	RunCase	CaseStatus	GUID
DEAD	Prog Det	Other	None	Yes	Finished	0853e002-e438-4d8b-84b5-eea86dc26c3c
MODAL	Prog Det	Other	None	Yes	Finished	48415b02-3a42-4d1a-8bfb-27a3d6a4b306
VIVA	Prog Det	Other	None	Yes	Finished	59e9e239-5764-48c9-89de-28746de17274
DW	Prog Det	Non-Composite	None	Yes	Finished	1940bff2-2409-4ce6-a7bc-26e94a5655ca
LL	Prog Det	Short-Term Composite	None	Yes	Finished	edb642bc-3321-4307-be17-ba3a28647a06
IM	Prog Det	Short-Term Composite	None	Yes	Finished	1f2eb0f7-de91-4c45-88d5-8dca3cd6a51d
EQ y	Prog Det	Short-Term Composite	None	Yes	Finished	2f69e7e9-4e41-4460-904c-fd3540359897
DC	Prog Det	Non-Composite	None	Yes	Finished	920b3a55-4897-4716-8ee7-d61e6b758193
EQ x	Prog Det	Short-Term Composite	None	Yes	Finished	cba18521-7cb7-4dbb-b2ac-3e8025223497
LLf2	Prog Det	Short-Term Composite	None	Yes	Finished	a03826d9-14b6-4888-b611-4a36ea2640ad
LLc3	Prog Det	Short-Term Composite	None	Yes	Finished	c00e8acd-99dd-4cd3-b573-886432472d93
LLc4	Prog Det	Short-Term Composite	None	Yes	Finished	5d4f80f3-6409-455b-8590-ea4665d4a078
LLtf5	Prog Det	Short-Term Composite	None	Yes	Finished	a5061a44-2add-46f3-85b1-bf42a5613c26
LLtf6	Prog Det	Short-Term Composite	None	Yes	Finished	0d50604b-4727-4cc7-8825-6dfd68ddce31
LLtc7	Prog Det	Short-Term Composite	None	Yes	Finished	9b488a7e-1209-4bbd-a320-6d63726f284e
LLTC8	Prog Det	Short-Term Composite	None	Yes	Finished	51f4a6eb-f7b5-4fbb-86bb-d5a295859bbe

Table: Load Case Definitions, Part 3 of 3**Table: Load Case Definitions, Part 3 of 3**

Case	Notes
DEAD	
MODAL	
VIVA	
DW	
LL	
IM	
EQ y	
DC	
EQ x	
LLf2	
LLc3	
LLc4	
LLtf5	
LLtf6	

LLtc7
 LLTC8

Table: Material Properties 02 - Basic Mechanical Properties

Table: Material Properties 02 - Basic Mechanical Properties						
Material	UnitWeight KN/m3	UnitMass KN-s2/m4	E1 KN/m2	G12 KN/m2	U12	A1 1/C
4000Psi	2,3563E+01	2,4028E+00	24855578,06	10356490,86	0,2	9,9000E-06
A416Gr270	7,6973E+01	7,8490E+00	196500599,9			1,1700E-05
A572Gr50	7,6973E+01	7,8490E+00	199947978,8	76903068,77	0,3	1,1700E-05
A992Fy50	7,6973E+01	7,8490E+00	199947978,8	76903068,77	0,3	1,1700E-05