

MATERIALS

Number of materials = 2

REINFORCED CONCRETE

Mat	Name	f'c Kg/cm2	fy Kg/cm2	fys1 Kg/cm2	fys2 Kg/cm2	E Kg/cm2	G Kg/cm2	w Kg/m3
1	RConcrete1	210	4200	4200	4200	218540	87430	2400.0
2	RConcrete2	280	4200	4200	4200	252350	100940	2400.0

f'c: Compressive strength of concrete
fy: Yield strength of longitudinal reinforcement
fys1: Yiel strength of shear reinforcement, bar sizes <= 3/8"
fys2: Yiel strength of shear reinforcement, bar sizes > 3/8"

COLUMN SECTIONS

Number of prismatic sections = 1

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm2)	I2 (cm4)	I3 (cm4)	J (cm4)
1	C-30X30	Rectang	30.00	30.00	-	-	-	-	900.0	67500	67500	99900

Design Results - Columns (DMO)

Column	Story	L (m)	Lu (m)	Sec Mat	bxh (cm)	TRANSVERSE REINFORCEMENT		LONGITUDINAL REINFORCEMENT						
						TIES	XTIES	Sec	LdCmb critc	Pu (ton)	Mu2 (ton-m)	Mu3 (ton-m)	RHO -	As (cm2)
K-9	1	3.25	3.03	1 2	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	25	16.70	0.73	3.80	0.0100	9.00
						10 #3 @ 20 cm (ctr)	1 (h)	Bot	34	10.26	3.14	4.06	0.0130	11.74
M-9	1	3.25	3.03	1 2	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	24	16.12	0.48	3.89	0.0100	9.00
						10 #3 @ 20 cm (ctr)	1 (h)	Bot	33	10.27	3.14	4.06	0.0130	11.74
K-7	1	3.25	3.03	1 2	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	22	8.36	3.70	1.08	0.0100	9.00
						10 #3 @ 20 cm (ctr)	1 (h)	Bot	22	8.36	4.42	1.03	0.0101	9.11
M-7	1	3.25	3.03	1 2	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	20	8.36	3.70	1.08	0.0100	9.00
						10 #3 @ 20 cm (ctr)	1 (h)	Bot	20	8.36	4.42	1.02	0.0101	9.11