Company: Company Engineer: Name
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 9) 10:31:53 a. m. 27/06/2025
File: C:\IE REGIDOR\MOD9.rcb

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 TIES	TRANSVERSE REINFORCEMENT XTIES	LONGITUDINAL REINFORCEMENT Sec	LdCmb critc	Pu (ton)	Mu2 (ton-m)	Mu3 (ton-m)	RHO -	As (cm2)
C-3	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	26	7.13	1.11	2.02	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	34	4.75	1.08	2.54	0.0100	9.00
B-3	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	25	7.54	0.98	2.34	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	35	4.87	0.31	3.04	0.0100	9.00
A-3	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	34	5.00	0.48	1.77	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	33	3.04	0.96	2.06	0.0100	9.00
C-2	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	28	6.70	2.35	0.80	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	28	6.70	2.78	0.79	0.0100	9.00
B-2	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	22	7.82	2.51	0.93	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	22	7.82	2.83	0.99	0.0100	9.00
A-2	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	20	6.08	2.22	0.69	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	20	6.08	2.61	0.69	0.0100	9.00
C-1	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	34	3.52	0.72	1.47	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	28	5.55	2.06	1.07	0.0100	9.00
B-1	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	33	3.78	0.57	2.12	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	33	3.78	0.64	2.57	0.0100	9.00
A-1	1	3.30	2.98	1	30x30	6 #3 @ 10 cm (end)	1 (b)	Top	1	5.02	0.12	0.24	0.0100	9.00
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	21	3.27	1.90	0.91	0.0100	9.00