

Obra :TPG [Trabajo Práctico General]
Planta : PB
σ'bk = 210 Kg/cm2 βs = 4200 Kg/cm2
Altura = 3.25m

Cálculo de columnas

Pos.	Nsup t	Rv1 t	Rv2 t	Rv3 t	Rv4 t	P.p t	Ntot. t	M tm	Sup. cmý	Lados cm	Fe cmý	Fmin cmý	cant	í	í sep	OBSERVACIONES
01	70.2	5.2	2.6	0.0	0.0	0.9	78.8	2.0 0.5	1100	a 55 b 20	5.4 0.8	6.6	6 0	12 0	6 14	=08
02	78.0	5.2	1.6	0.0	0.0	0.9	85.6	0.0 0.0	1100	a 55 b 20	5.2 0.0	7.2	8 0	12 0	6 14	=07
03	91.6	2.6	1.1	0.4	3.0	3.1	101.7	0.0 3.2	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
04	115.1	0.6	5.0	1.0	1.5	3.1	126.3	0.0 0.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
05	62.2	5.2	0.5	0.0	0.0	3.1	71.0	0.0 0.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
06	169.9	3.4	2.0	3.0	5.5	3.1	186.9	0.0 2.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
09	69.6	3.0	3.0	3.0	0.0	1.1	79.7	2.0 0.0	1400	a 70 b 20	0.0 0.0	7.0	6 0	12 0	6 14	=16
10	156.5	5.0	6.8	6.1	0.0	2.4	176.8	0.0 1.0	3025	a 55 b 55	0.0 0.0	15.1	8 6	12 12	6 14	=15
11	87.5	6.8	1.7	0.0	0.0	1.2	97.2	0.0 0.0	1560	a 20 b 78	0.0 0.0	8.2	2 6	12 12	6 14	=14
12	108.1	2.8	4.6	3.4	0.0	3.0	121.9	0.0 0.5	3900	a 100 b 39	0.0 0.0	19.5	12 6	12 12	6 14	=13
17	71.9	5.0	3.0	0.0	0.0	0.9	80.8	0.5 2.0	1100	a 55 b 20	18.3 0.0	18.3	10 0	16 0	6 19	=24 Cuantia 1.83%
18	124.0	3.2	4.8	6.1	0.0	1.5	139.6	0.5 1.0	1925	a 55 b 35	0.0 0.0	11.7	6 4	12 12	6 14	=23
19	56.5	3.2	2.5	0.0	0.0	0.9	63.0	0.0 0.0	1100	a 55 b 20	0.0 0.0	5.5	4 2	12 12	6 14	=22
20	49.2	1.5	3.4	0.0	0.0	0.9	54.9	0.5 0.5	1100	a 55 b 20	0.0 0.0	5.5	4 2	12 12	6 14	=21

Obra :TPG [Trabajo Práctico General]
Planta : SS01°
Cálculo de columnas
σ'bk = 210 Kg/cm2 βs = 4200 Kg/cm2
Altura = 3.00m

Pos.	Nsup t	Rv1 t	Rv2 t	Rv3 t	Rv4 t	P.p t	Ntot. t	M tm	Sup. cmý	Lados cm	Fe cmý	Fmin cmý	cant	í	í sep	OBSERVACIONES
01	78.8	0.0	0.0	0.0	0.0	0.8	79.6	2.0 0.5	1100	a 55 b 20	4.7 0.9	6.7	6 0	12 0	6 14	=08
02	85.6	0.0	1.6	0.0	0.0	0.8	88.0	0.0 0.0	1100	a 55 b 20	5.6 0.9	7.4	8 0	12 0	6 14	=07
03	101.7	2.6	1.1	0.4	3.0	2.8	111.7	0.0 3.2	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
04	126.3	0.6	5.0	1.0	1.5	2.8	137.2	0.0 0.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
05	71.0	5.2	0.5	0.0	0.0	2.8	79.5	0.0 0.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
06	186.9	3.4	2.0	3.0	5.5	2.8	203.6	0.0 2.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
09	79.7	0.0	0.0	3.0	0.0	1.0	83.7	2.0 0.0	1400	a 70 b 20	0.0 0.0	7.0	6 0	12 0	6 14	=16
10	176.8	5.0	6.8	6.1	0.0	2.2	196.9	0.0 1.0	3025	a 55 b 55	0.0 0.0	16.5	8 8	12 12	6 14	=15
11	97.2	6.8	1.7	0.0	0.0	1.1	106.8	0.0 0.0	1560	a 20 b 78	0.0 0.0	9.0	2 6	12 12	6 14	=14
12	121.9	2.8	4.6	3.4	0.0	2.8	135.5	0.0 0.5	3900	a 100 b 39	0.0 0.0	19.5	12 6	12 12	6 14	=13
17	80.8	0.0	0.0	0.0	0.0	0.8	81.6	0.5 2.0	1100	a 55 b 20	17.2 0.0	17.2	10 0	16 0	6 19	=24 Cuantia 1.83%
18	139.6	0.0	0.0	6.1	0.0	1.4	147.1	0.5 1.0	1925	a 55 b 35	0.0 0.0	12.4	8 4	12 12	6 14	=23
19	63.0	0.0	2.5	0.0	0.0	0.8	66.3	0.0 0.0	1100	a 55 b 20	0.0 0.0	5.6	4 2	12 12	6 14	=22
20	54.9	0.0	3.4	0.0	0.0	0.8	59.1	0.5 0.5	1100	a 55 b 20	0.0 0.0	5.5	4 2	12 12	6 14	=21
99	0.0	7.5	5.0	5.0	0.0	2.2	19.7	50.0 0.0	3025	a 55 b 55	0.0 72.7	72.7	0 16	0 25	8 25	Cuantia 2.60%

Obra :TPG [Trabajo Práctico General]
Planta : SS02°
Cálculo de columnas
σ'bk = 210 Kg/cm2 βs = 4200 Kg/cm2
Altura = 3.50m

Pos.	Nsup t	Rv1 t	Rv2 t	Rv3 t	Rv4 t	P.p t	Ntot. t	M tm	Sup. cmý	Lados cm	Fe cmý	Fmin cmý	cant	í	í sep	OBSERVACIONES
01	79.6	0.0	0.0	0.0	0.0	0.9	80.5	2.0 0.5	1100	a 55 b 20	7.6 1.6	7.6	8 0	12 0	6 14	=08
02	88.0	0.0	1.6	0.0	0.0	0.9	90.5	0.0 0.0	1100	a 55 b 20	9.4 2.4	9.4	8 0	12 0	6 14	=07
03	111.7	2.6	1.1	0.4	3.0	3.3	122.1	0.0 3.2	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
04	137.2	0.6	5.0	1.0	1.5	3.3	148.6	0.0 0.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
05	79.5	5.2	0.5	0.0	0.0	3.3	88.5	0.0 0.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
06	203.6	3.4	2.0	3.0	5.5	3.3	220.8	0.0 2.0	3945	a 15 b 263	0.0 0.0	19.7	2 16	12 12	6 14	
09	83.7	0.0	0.0	3.0	0.0	1.2	87.9	2.0 0.0	1400	a 70 b 20	0.0 0.0	7.4	6 2	12 12	6 14	=16
10	196.9	5.0	6.8	6.1	0.0	2.5	217.3	0.0 1.0	3025	a 55 b 55	0.0 0.0	18.3	8 8	12 12	6 14	=15
11	106.8	6.8	1.7	0.0	0.0	1.3	116.6	0.0 0.0	1560	a 20 b 78	0.0 6.0	9.8	0 10	0 12	6 14	=14
12	135.5	2.8	4.6	3.4	0.0	3.3	149.6	0.0 0.5	3900	a 100 b 39	0.0 0.0	19.5	12 6	12 12	6 14	=13
17	81.6	0.0	0.0	0.0	0.0	0.9	82.5	0.5 2.0	1100	a 55 b 20	20.8 0.0	20.8	10 0	16 0	6 19	=24 Cuantia 1.83%
18	147.1	0.0	0.0	6.1	0.0	1.6	154.8	0.5 1.0	1925	a 55 b 35	5.6 3.4	13.0	10 2	12 12	6 14	=23
19	66.3	0.0	2.5	0.0	0.0	2.5	71.3	0.0 0.0	3025	a 55 b 55	0.0 0.0	15.1	8 6	12 12	6 14	=22
20	59.1	0.0	3.4	0.0	0.0	0.9	63.4	0.5 0.5	1100	a 55 b 20	0.0 0.0	5.5	4 2	12 12	6 14	=21
99	19.7	7.5	5.0	5.0	0.0	2.5	39.7	50.0 0.0	3025	a 55 b 55	0.0 68.5	68.5	0 14	0 25	8 25	Cuantia 2.27%