

Columnas				
b (cm)	h (cm)	A (cm <sup>2</sup> )	Sx(cm <sup>3</sup> )	Ix (cm <sup>4</sup> )
1.5	2	3	1	1
2	2	4.0	1.3	1.3
3	3	9.0	4.5	6.8
3	4	12.0	8.0	16.0
4	4	16.0	10.7	21.3
4	6.5	26.0	28.2	91.5
5	5	25.0	20.8	52.1
5	6.5	32.5	35.2	114.4
5	9	45.0	67.5	303.8
6.5	6.5	42.3	45.8	148.8
6.5	9	58.5	87.8	394.9
9	9	81.0	121.5	546.8
9	14	126.0	294.0	2058.0
14	14	196.0	457.3	3201.3
14	19	266.0	842.3	8002.2
14	24	336.0	1344.0	16128.0
19	19	361.0	1143.2	10860.1
19	24	456.0	1824.0	21888.0
19	29	551.0	2663.2	38615.9
24	24	576.0	2304.0	27648.0
24	29	696.0	3364.0	48778.0
29	29	841	4064.8	58940.1

Vigas				
b (cm)	h (cm)	A (cm <sup>2</sup> )	Sx(cm <sup>3</sup> )	Ix (cm <sup>4</sup> )
1.5	4	6.0	4.0	8.0
1.5	6.5	9.8	10.6	34.3
1.5	9	13.5	20.3	91.1
1.5	14	21.0	49.0	343.0
1.5	19	28.5	90.3	857.4
1.5	24	36.0	144.0	1728.0
1.5	29	43.5	210.3	3048.6
2	4	8.0	5.3	10.7
2	6.5	13.0	14.1	45.8
2	9	18.0	27.0	121.5
2	14	28.0	65.3	457.3
2	19	38.0	120.3	1143.2
2	24	48.0	192.0	2304.0
2	29	58.0	280.3	4064.8
3	6.5	19.5	21.1	68.7
3	9	27.0	40.5	182.3
3	14	42.0	98.0	686.0
3	19	57.0	180.5	1714.8
3	24	72.0	288.0	3456.0
3	29	87.0	420.5	6097.3
4	9	36.0	54.0	243.0
4	14	56.0	130.7	914.7
4	19	76.0	240.7	2286.3
4	24	96.0	384.0	4608.0
4	29	116.0	560.7	8129.7
5	14	70.0	163.3	1143.3
5	19	95.0	300.8	2857.9
5	24	120.0	480.0	5760.0
5	29	145.0	700.8	10162.1
6.5	14	91.0	212.3	1486.3
6.5	19	123.5	391.1	3715.3
6.5	24	156.0	624.0	7488.0
6.5	29	188.5	911.1	13210.7
9	19	171.0	541.5	5144.3
9	24	216.0	864.0	10368.0
9	29	261.0	1261.5	18291.8
14	29	406.0	1962.3	28453.8

Esfuerzos Admisibles y Modulo de Elasticidad			
Propiedades kg/cm <sup>2</sup>	GRUPO		
	A	B	C
E <sub>prom</sub>	130000	100000	90000
f <sub>m</sub> (σ <sub>r</sub> )	210	150	100
f <sub>c</sub> (σ <sub>c par</sub> )	145	110	80
f <sub>c</sub> (σ <sub>c per</sub> )	40	28	15
f <sub>v</sub> (τ)	15	12	8
f <sub>t</sub> (σ <sub>t</sub> )	145	105	75