



ZAPATA	$L1 \times L2$	h	$As1$	$As2$
Z-1	0.60×0.60	0.20	4 # 3.050 @ .16	4 # 3.050 @ .16
Z-2	0.80×0.80	0.20	5 # 3.070 @ .17	5 # 3.070 @ .17
Z-3	1.00×1.00	0.20	6 # 3.090 @ .17	6 # 3.090 @ .17
Z-4	1.20×1.20	0.20	7 # 4.110 @ .17	7 # 4.110 @ .17
Z-5	1.40×1.40	0.25	8 # 4.130 @ .18	8 # 4.130 @ .18
Z-6	1.60×1.60	0.30	8 # 5.150 @ .20	8 # 5.150 @ .20
Z-7	1.80×1.80	0.30	8 # 6.170 @ .23	8 # 6.170 @ .23
Z-8	2.00×2.00	0.35	12 # 5.190 @ .16	12 # 5.190 @ .16
Z-9	2.10×2.10	0.35	11 # 6.200 @ .19	11 # 6.200 @ .19
Z-10	1.80×1.20	0.25	8 # 4.170 @ .15	9 # 4.110 @ .20

CUADRO DE ZAPATAS

Centro de Biblioteca y Teatro
Universidade Tecnológica de Pereira

MATERIALES

Concreto de $f'c = 210 \text{ kg/cm}^2$

Hierro de $f_y = 4200 \text{ kg/cm}^2$

$$H_{\text{eff}} = 2370 \text{ kcal/cm}^2$$
$$\text{Var. } 1/4^n - 3/8^n$$
[illegible]

Matr. No.25202-46529 Cund.

Vo. Bo. Diseño Estructural

T E T R A - Diseños Estructurales

Fernando Escalante Echeverri (Ing.Civil, M.Sc, Ph.D.,)

Cra.7a. Bis No.18B-25 (Pereira-Colombia)

Tel. (963) 34 30 47