

iii- c/ MUROS LAT. COMO APOYO:

m (c/ MUROS APOYOS)	M_{xrm}	M_{xrm}	M_{yerm}	M_{ye}	M_{ym}
$M_{EST} (TON-M/M)$	12.5	25.2	-7.25	-8.28	55.1
$M_{SIS} (TON-M/M)$	100.6	49.9	-173.4	-151.8	25.1
	139.8	69.3	-240.7	-211.0	34.9

CARGA TRIANGULAR

$$K = q L_x L_y / 2$$

i) c/ MUROS LAT. EMPOT:

m (c/ MUROS EMP)	M_{xer}	M_{xem}	M_{xrm}	M_{xrm}	M_{yem}	M_{ye}	M_{ym}
$M_{EST} (TON-M/M)$	-27.4	-16.7	40.7	39.0	-12.7	-16.2	55.2
$M_{SIS} (TON-M/M)$	62.5	83.8	-34.4	-35.9	110.2	86.4	-25.3
	84.9	113.8	-46.7	-48.7	149.7	117.4	-34.4

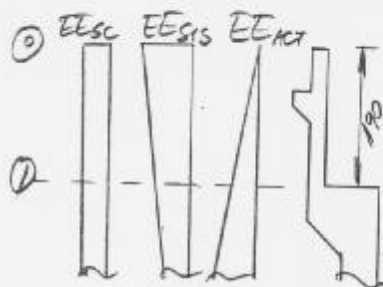
ii) c/ MUROS LAT. COMO APOYOS:

m (c/ MUROS APOYOS)	M_{xrm}	M_{xrm}	M_{yem}	M_{ye}	M_{ym}
$M_{EST} (T-M/M)$	22.6	38.6	-8.39	-9.75	46.5
$M_{SIS} (")$	-61.9	-36.2	+166.8	+143.5	-30.1
	-84.1	-49.3	+226.6	+195.0	-40.9

MOMENTOS FLECTORES DE DISEÑO:

	M_{xer}	M_{xem}	M_{xrm}	M_{xrm}	M_{yem}	M_{ye}	M_{ym}
$M_{EST} (T-M/M)$	-81.0	-4.1	38.7	13.7	16.4	-8.3	-5.0
$M_{SIS} (T-M/M)$	-114.5	-8.4	55.7	20.0	19.3	-16.0	-6.0
$M_{DIS} (TON-M/M)$	-114.5	-8.4	55.7	20.0	19.3	-16.0	-6.0
$A_s (cm^2)$	33.6	2.5	16.0	5.65	5.56	4.6	1.7
$\phi 16 @ 20 + 10 \phi 25 @ 20$							

4.2 = ESPALDAR



$$EE_{ACT} = 0.238 \times 2.2 \times 1.9 = 0.99 \text{ TON/m}^2$$

$$EE_{SC} = 0.38 \text{ TON/m}^2$$

$$EE_{SIS} = 1.59 \text{ "}$$

$$EE_{SIS} = 1.59 \times (8.7 - 1.9) / 8.7 = 1.24 \text{ "}$$

$$\text{CASO ESTÁTICO: } M_{EST} = (0.99 \times 1.9^2 / 6 + 0.38 \times 2.4^2 / 2) \times 1.69 = 2.86 \text{ TON-M/M}$$

$$\text{CASO SÍSMICO: } M_{SIS} = 1.69 \times 0.99 \times 1.9^2 / 6 + 1.3 \times 0.25 \times 2.5 \times 0.15 \times 1.9^2 / 2 + 1.59 \times 1.24 / 12 \times 1.9^2 / 2 \times 1.3 = 4.55 \text{ TON-M/M}$$

$$M_{DIS} = 4.5 \text{ TON-M/M} \quad d = 20.4 \text{ cm} \quad A_s = 6.0 \text{ cm}^2 \quad (c/\phi 12 @ 20 + 5 \phi 12 @ 20)$$