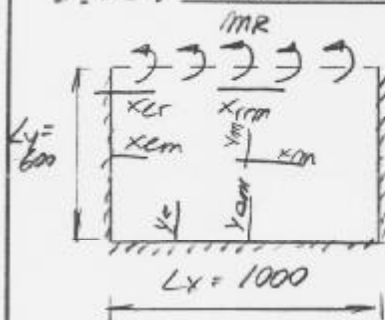


2.4.3 - MURO FRONTAL



i) MOMENTO FLECTOR EN BORDE (mR)

$$\frac{L_y}{L_x} = 0.6$$

$$mR_{EST} = 2.86 \text{ TON-M/M}$$

$$mR_{SIS} = 4.55 \text{ "}$$

$$M = mR/m$$

	m_{xcr}	m_{xcm}	m_{xrm}	m_{xom}	m_{yem}	m_{ye}	m_{ym}
	-0.56	7.82	3.18	-18.5	8.03	8.74	-3.36
M_{EST}	-5.11	0.37	0.9	-0.15	0.36	0.33	-0.85
M_{SIS}	-8.12	0.58	1.42	-0.25	0.56	0.52	-1.36

ii) CARGA LINEAL EN BORDE (q)

$$q_{EST} = 0.99 \times 1.9/2 + 0.38 \times 1.9 = 1.66 \times 1.69 = 2.81 \text{ TON/M}$$

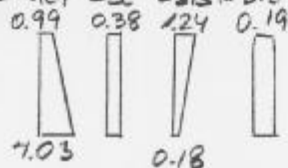
$$q_{SIS} = (0.59 + 1.24)/2 \times 1.9 \times 1.3 + 0.99 \times 1.9/2 + 0.09 \times 1.9 \times 1.3 = 5.3$$

$$M = \frac{q L_x}{m}$$

	m_{xcr}	m_{xcm}	m_{xrm}	m_{xom}	m_{yem}	m_{ye}	m_{ym}
	-2.14	-13	7.62	21.4	-11.2	-18.6	-19
M_{EST}	-13.1	-2.2	3.7	1.3	-2.5	-1.5	-1.5
M_{SIS}	-24.9	-4.0	7.0	2.5	-4.7	-2.3	-2.8

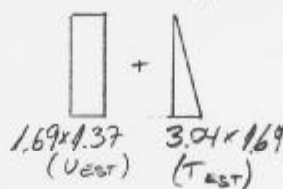
iii) CARGAS UNIFORME y TRIANGULAR

$$1.69 \times E_{EACT} \quad E_{ESC} \quad E_{SIS} \quad E_{SIS} \times 1.3$$

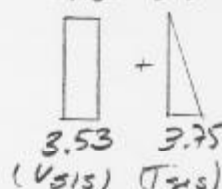


CARGA UNIFORME (U)

CASO ESTÁTICO



CASO SÍSMICO



$$M = \frac{U_{kly}}{m}$$

	m_{xcr}	m_{xcm}	m_{xrm}	m_{xom}	m_{yem}	m_{ye}	m_{ym}
	-7.42	-14.6	19.8	38.6	-11.1	-13.7	80
M_{Uest}	-18.7	-9.5	7.0	3.6	-12.5	-10.1	1.7
M_{Usis}	-28.6	-14.4	10.7	5.5	-19.1	-15.5	2.6

CARGA TRIANGULAR

$$M = \frac{T_k L_y}{2m}$$

	m_{xcr}	m_{xcm}	m_{xrm}	m_{xom}	m_{yem}	m_{ye}	m_{ym}
	-17.0	-18.3	36.6	59.2	-12.0	-15.0	59.1
M_{TEST}	-9.1	-8.4	4.2	2.6	-12.8	-10.3	2.6
M_{TSIS}	-6.6	-6.1	3.0	1.9	-9.5	-7.6	1.9

TOTALES

	x_{cr}	x_{cm}	x_{rm}	x_{om}	y_{em}	y_e	y_m
$M_{EST} (T-M/M)$	-46.0	-19.7	15.8	7.4	-27.4	-21.6	2.0
$M_{SIS} (")$	-68.2	-25.1	22.1	9.7	-32.7	-25.4	0.3
$M_{SIS} (")$	-68.2	-25.1	22.1	9.7	-32.7	-25.4	2.0
$d (cm)$	92	44	92	44	44	44	44
$A_g (cm^2)$	20.4	15.8	6.4	5.9	21.0	16.0	1.2