

CALCULO DE REQUERIMIENTOS PARA MOMENTOS DE INERCIA Y MODULOS DE SECCION PARA LOS MANGUETES VERTICALES INTERMEDIOS DE CANCELES EN DIFERENTES PISOS DEL EDIFICIO



06-nov-24

PROYECTO: Las Olas

CARACTERISTICAS GENERALES:

UBICACION:

Acapulco

ALTITUD SOBRE NIVEL DEL MAR:

30 m

ZONA EOLICA (1..7) O VELOCIDAD REGIONAL:

200

> VELO
> EN krr

200

GRUPO DE ESTRUCTURA (A;B):

B

FACTOR DE TOPOGRAFIA

(0.7;0.8;1.0;1.2):

1.20

> EXPONENTE ALFA:

0.14

COEFICIENTE DE EMPUJE:

1.20

MODULO ELASTICIDAD DEL MATERIAL

(ALU=703000;FE=2150000):

703000

> ESFUERZO MAXIMO PERMITIDO

ALEACION 6063, TEMPLA (5;6):

5

> EN kg/cm2:

888.4

DEFLEXIONES MAXIMAS PERMITIDAS DE

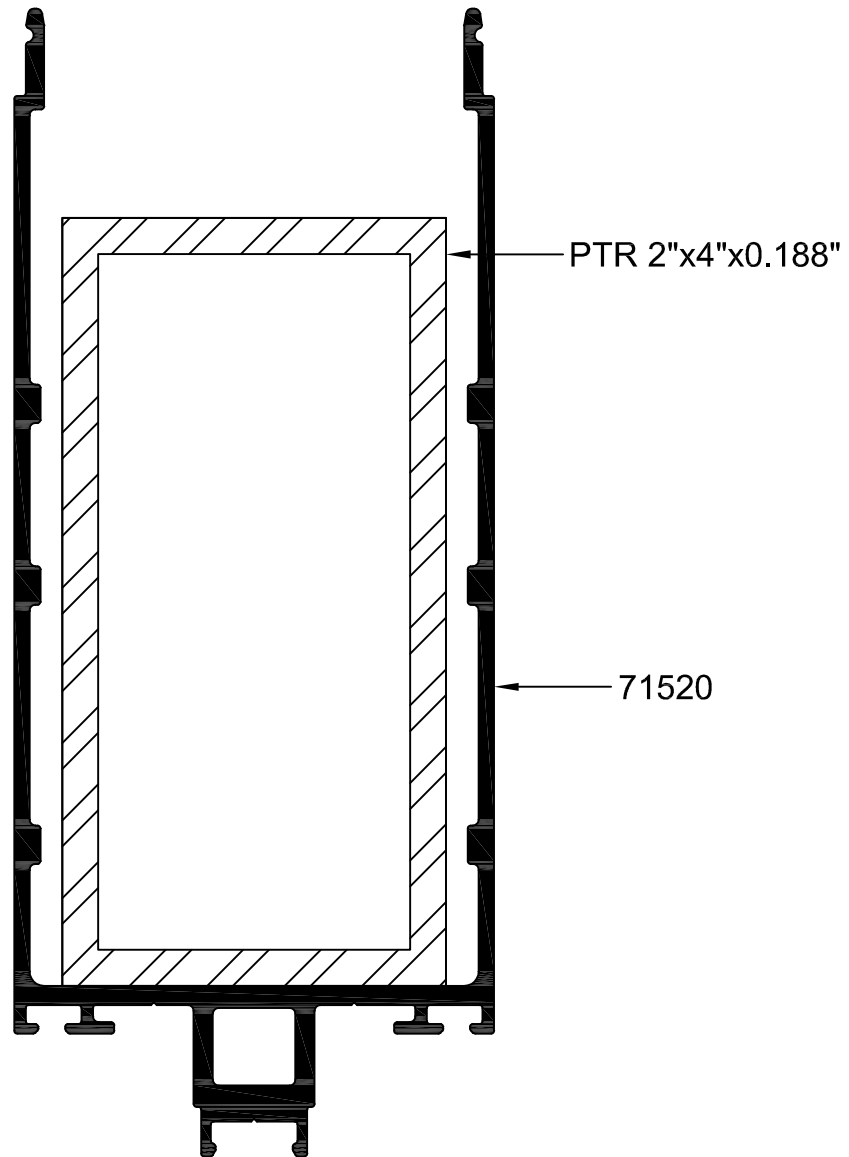
LOS MANGUETES VERTICALES (L/175 O CENTIMETROS):

DISTANCIA MAYOR ENTRE DOS cv

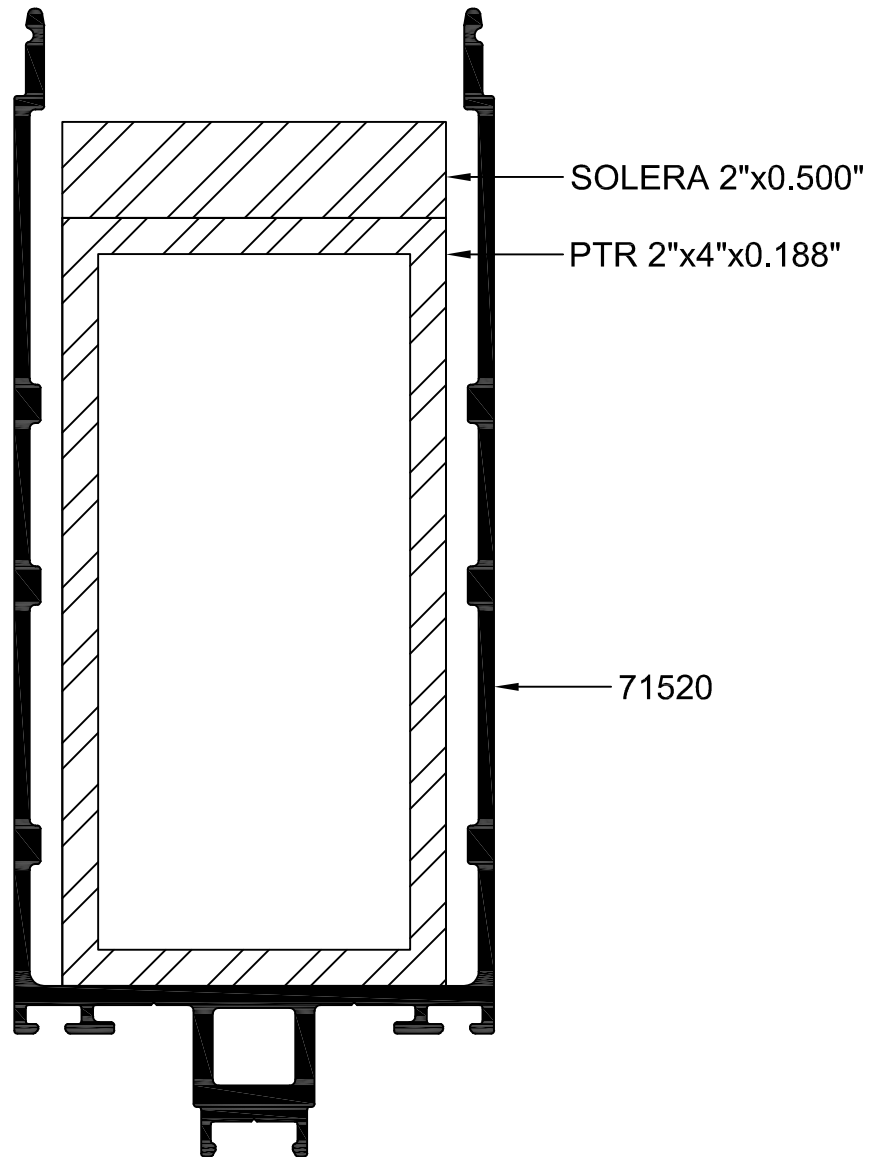
ARRIOSTRAMIENTOS DEL MANGUETE VERTICAL:

UBICACIÓN Y MEDIDAS DE LOS CANCELES:

NO DE PISO	ALTURA DE PISO A PISO m	ALTURA SOBRE EL TERRENO m	MEDIDAS DE LOS CANCELES				VELOCIDAD DE DISEÑO DEL VIENTO km/h	CARGA DE DISEÑO DEL VIENTO kg/m2	DEFLEXION QUE RESULTA cm	REQUERIMIENTOS PARA LOS MANGUETES VERTICALES		
			ANCHO DE CLAROS IZQUIERDO cm	DERECHO cm	ALTURA cm	cm				Ix-x cm4	Sx-x cm3	Iy-y cm4
1	3.95	0.00	0.0	0.0	0.0	0.0			L/175 0.00			
2	3.40	3.40	120.0	120.0	340.0	160.0	240.0	275.5	L/175 1.94 <	399.40	51.43	40.34
3	3.40	6.80	120.0	120.0	340.0	160.0	240.0	275.5	L/175 1.94 <	399.40	51.43	40.34
4	3.40	10.20	120.0	120.0	340.0	160.0	240.7	277.0	L/175 1.94 <	401.63	51.72	40.56
5	3.40	13.60	120.0	120.0	340.0	160.0	250.6	300.2	L/175 1.94 <	435.32	56.06	43.97
6	3.40	17.00	120.0	120.0	340.0	160.0	258.5	319.6	L/175 1.94 <	463.38	59.67	46.80
7	3.40	20.40	120.0	120.0	340.0	160.0	265.2	336.3	L/175 1.94 <	487.65	62.80	49.25
8	3.40	23.80	120.0	120.0	340.0	160.0	271.0	351.1	L/175 1.94 <	509.16	65.57	51.42
9	3.40	27.20	120.0	120.0	340.0	160.0	276.1	364.5	L/175 1.94 <	528.56	68.06	53.38
10	3.40	30.60	120.0	120.0	340.0	160.0	280.7	376.7	L/175 1.94 <	546.28	70.35	55.17
11	3.40	34.00	120.0	120.0	340.0	160.0	284.9	388.0	L/175 1.94 <	562.64	72.45	56.83
12	3.40	37.40	120.0	120.0	340.0	160.0	288.7	398.5	L/175 1.94 <	577.85	74.41	58.36
13	3.40	40.80	120.0	120.0	340.0	160.0	292.2	408.3	L/175 1.94 <	592.10	76.25	59.80
14	3.40	44.20	120.0	120.0	340.0	160.0	295.5	417.6	L/175 1.94 <	605.52	77.97	61.16
15	3.40	47.60	120.0	120.0	340.0	160.0	298.6	426.4	L/175 1.94 <	618.22	79.61	62.44
16	4.25	51.85	120.0	120.0	425.0	160.0	302.2	436.7	L/175 2.43 <	1259.07	129.29	101.40



EXTERIOR
Ix-x TOTAL = 745.85 cm⁴
BASICO VERTICAL



EXTERIOR
Ix-x TOTAL = 1336.64 cm⁴
BASICO VERTICAL