

|          |        |
|----------|--------|
| TABLA N° | 24     |
| esp. =   | 0.20 m |
| a =      | 3.00 m |
| b =      | 6.00 m |
| a/b =    | 0.50   |
| adoptado | 0.50   |
| real     |        |

E = 2000000 t/m<sup>2</sup>  
 $\mu = 0.15$   
N = 1364.0 tm

Tabla 24

Placa rectangular libremente apoyada en uno de sus lados y empotrada en los restantes tres.  
Carga hidrostática que tiene su valor mínimo en el lado libremente apoyado.

#### Análisis de Carga

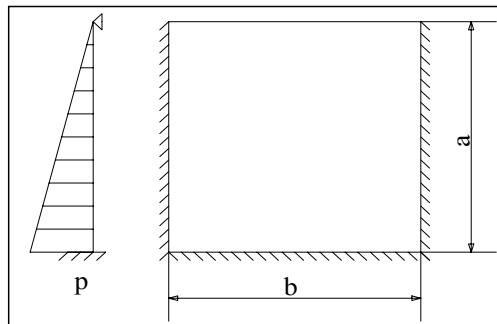
|     |          |                        |
|-----|----------|------------------------|
|     | adoptado | g H°                   |
| g = | 0.000    | 0.480 t/m <sup>2</sup> |
| p = | 5.800    | t/m <sup>2</sup>       |
| q = | 5.800    | t/m <sup>2</sup>       |

de 0 a 0.50

#### Esfuerzos

|                     |        |      |
|---------------------|--------|------|
| M°a =               | -3.242 | tm/m |
| M°b =               | -1.890 | tm/m |
| Macp =              | 1.310  | tm/m |
| Mbcp =              | 0.230  | tm/m |
| wcp =               | 0.699  | mm   |
| w <sub>máxc</sub> = | 0.699  | mm   |

| a/b  | wcp     | M°a     | M°b     | Macp   | Mbcp   | w <sub>máxc</sub> | M°b <sub>máxc</sub> | Ma <sub>máxc</sub> | Mb <sub>máxc</sub> |
|------|---------|---------|---------|--------|--------|-------------------|---------------------|--------------------|--------------------|
| 0.00 | 0.00203 | -0.0621 | -0.0362 | 0.0251 | 0.0044 | 0.00203           | -0.0362             | 0.0251             | 0.0058             |
| 0.55 | 0.00188 | -0.0603 | -0.0360 | 0.0235 | 0.0056 | 0.00188           | -0.0360             | 0.0235             | 0.0062             |
| 0.60 | 0.00173 | -0.0578 | -0.0356 | 0.0217 | 0.0068 | 0.00173           | -0.0356             | 0.0217             | 0.0068             |
| 0.65 | 0.00159 | -0.0548 | -0.0352 | 0.0198 | 0.0079 | 0.00159           | -0.0352             | 0.0198             | 0.0079             |
| 0.70 | 0.00145 | -0.0516 | -0.0346 | 0.0179 | 0.0089 | 0.00145           | -0.0346             | 0.0179             | 0.0089             |
| 0.75 | 0.00132 | -0.0482 | -0.0338 | 0.0161 | 0.0096 | 0.00132           | -0.0338             | 0.0161             | 0.0096             |
| 0.80 | 0.00119 | -0.0450 | -0.0329 | 0.0143 | 0.0101 | 0.00119           | -0.0329             | 0.0143             | 0.0101             |
| 0.85 | 0.00107 | -0.0422 | -0.0319 | 0.0127 | 0.0105 | 0.00107           | -0.0319             | 0.0128             | 0.0105             |
| 0.90 | 0.00095 | -0.0395 | -0.0307 | 0.0112 | 0.0107 | 0.00095           | -0.0307             | 0.0117             | 0.0107             |
| 0.95 | 0.00084 | -0.0370 | -0.0295 | 0.0098 | 0.0106 | 0.00084           | -0.0296             | 0.0104             | 0.0106             |
| 1.00 | 0.00074 | -0.0345 | -0.0283 | 0.0085 | 0.0105 | 0.00074           | -0.0285             | 0.0095             | 0.0105             |
| b/a  |         |         |         |        |        |                   |                     |                    |                    |
| 0.00 | 0.00124 | -0.0451 | -0.0413 | 0.0017 | 0.0203 | 0.00141           | -0.0499             | 0.0092             | 0.0230             |
| 0.55 | 0.00120 | -0.0441 | -0.0406 | 0.0025 | 0.0196 | 0.00131           | -0.0480             | 0.0092             | 0.0211             |
| 0.60 | 0.00116 | -0.0431 | -0.0398 | 0.0034 | 0.0188 | 0.00123           | -0.0460             | 0.0092             | 0.0196             |
| 0.65 | 0.00112 | -0.0421 | -0.0389 | 0.0044 | 0.0179 | 0.00116           | -0.0439             | 0.0093             | 0.0182             |
| 0.70 | 0.00108 | -0.0410 | -0.0378 | 0.0053 | 0.0169 | 0.00110           | -0.0416             | 0.0093             | 0.0170             |
| 0.75 | 0.00104 | -0.0399 | -0.0366 | 0.0063 | 0.0159 | 0.00105           | -0.0395             | 0.0094             | 0.0159             |
| 0.80 | 0.00099 | -0.0387 | -0.0352 | 0.0071 | 0.0148 | 0.00099           | -0.0373             | 0.0094             | 0.0148             |
| 0.85 | 0.00094 | -0.0376 | -0.0336 | 0.0076 | 0.0138 | 0.00094           | -0.0352             | 0.0095             | 0.0138             |
| 0.90 | 0.00088 | -0.0365 | -0.0319 | 0.0080 | 0.0127 | 0.00088           | -0.0330             | 0.0096             | 0.0127             |
| 0.95 | 0.00081 | -0.0355 | -0.0301 | 0.0083 | 0.0116 | 0.00081           | -0.0307             | 0.0096             | 0.0116             |



Multiplicadores para los datos numéricos

Para  $a/b < 1$

Para las flechas  $pa^4/D$ ; para los demás valores  $pa^2$ .

Para  $b/a < 1$

Para las flechas  $pb^4/D$ ; para los demás valores  $pb^2$ .

Tabique externo en cisterna de contacto