**Muro M1- espesor 25cm**

Identificación de ciclos de carga:

 Primer ciclo: D=2mm.

$$T\_{11}ϵ [1,390]$$

$$T\_{12}ϵ [390,724]$$

Segundo ciclo: D=15mm.

$$T\_{21}ϵ [724,1249]$$

$$T\_{22}ϵ [1249,1527]$$

$$T\_{23}ϵ [1527,1810]$$

$$T\_{24}ϵ [1810,2019]$$

Tercer ciclo: D=40mm.

$$T\_{31}ϵ [2019,2429]$$

$$T\_{32}ϵ [2429,2740]$$

$$T\_{33}ϵ [2740,2990]$$

$$T\_{34}ϵ [2990,3228]$$

Cuarto ciclo: D=70mm.

$$T\_{41}ϵ [3228,3902]$$

$$T\_{42}ϵ [3902,4328]$$

$$T\_{43}ϵ [4328,4658]$$

$$T\_{44}ϵ [4658,5045]$$

**Muro M2- espesor 25cm**

Identificación de ciclos de carga:

 Primer ciclo: D=2mm.

$$T\_{11}ϵ [1,441]$$

$$T\_{12}ϵ [441,603]$$

Segundo ciclo: D=15mm.

$$T\_{21}ϵ [603,966]$$

$$T\_{22}ϵ [966,1201]$$

$$T\_{23}ϵ [1201,1363]$$

$$T\_{24}ϵ [1363,1522]$$

Tercer ciclo: D=40mm.

$$T\_{31}ϵ [1522,1888]$$

$$T\_{32}ϵ [1888,2146]$$

$$T\_{33}ϵ [2146,2374]$$

$$T\_{34}ϵ [2374,2569]$$

Cuarto ciclo: D=80mm.

$$T\_{41}ϵ [2569,3093]$$

$$T\_{42}ϵ [3093,3333]$$

$$T\_{43}ϵ [3333,3590]$$

$$T\_{44}ϵ [3590,3773]$$

**Muro M3- espesor 25cm**

Identificación de ciclos de carga:

 Primer ciclo: D=2mm (Llega a 1mm).

$$T\_{11}ϵ [1,348]$$

$$T\_{12}ϵ [348,624]$$

Segundo ciclo: D=15mm (Llega a 8mm).

$$T\_{21}ϵ [624,1066]$$

$$T\_{22}ϵ [1066,1319]$$

$$T\_{23}ϵ [1319,1591]$$

$$T\_{24}ϵ [1591,1818]$$

Tercer ciclo: D=40mm (Llega a 20mm).

$$T\_{31}ϵ [1818,2512]$$

$$T\_{32}ϵ [2512,2968]$$

$$T\_{33}ϵ [2968,3232]$$

$$T\_{34}ϵ [3232,3683]$$

Cuarto ciclo: D=80mm (Llega a 40mm).

$$T\_{41}ϵ [3683,4265]$$

$$T\_{42}ϵ [4265,4588]$$

$$T\_{43}ϵ [4588,4875]$$

$$T\_{44}ϵ [4875,5074]$$

**Muro M1- espesor 40cm**

Identificación de ciclos de carga:

 Primer ciclo: D=2mm.

$$T\_{11}ϵ [1,296]$$

$$T\_{12}ϵ [296,423]$$

$$T\_{13}ϵ [432,513]$$

$$T\_{14}ϵ [513,601]$$

Segundo ciclo: D=15mm.

$$T\_{21}ϵ [601,1242]$$

$$T\_{22}ϵ [1242,1516]$$

$$T\_{23}ϵ [1516,1912]$$

$$T\_{24}ϵ [1912,2269]$$

Tercer ciclo: D=40mm.

$$T\_{31}ϵ [2269,2718]$$

$$T\_{32}ϵ [2718,3162]$$

$$T\_{33}ϵ [3162,3547]$$

$$T\_{34}ϵ [3547,3963]$$

Cuarto ciclo: D=80mm.

$$T\_{41}ϵ [3963,4481]$$

$T\_{42}ϵ [4481,4914]$ (Alcanza -70mm)

$$T\_{43}ϵ [4914,5336]$$

$T\_{44}ϵ [5336,5750]$ (Alcanza -70mm)

Quinto ciclo: D=120mm.

$$T\_{51}ϵ [5750,6399]$$

$T\_{52}ϵ [6399,7030]$ (Alcanza -70mm)

$$T\_{53}ϵ [7030,7418]$$

$T\_{54}ϵ [7418,7691]$ (Alcanza -70mm)

Sexto ciclo: D=160mm.

$$T\_{61}ϵ [7691,8342]$$

$T\_{62}ϵ [8342,8547]$ (Alcanza -70mm)

$$T\_{63}ϵ [8547,8967]$$

$T\_{64}ϵ [8967,9179]$ (Alcanza -70mm)

**Muro M2- espesor 40cm**

Identificación de ciclos de carga:

 Primer ciclo: D=2mm.

$$T\_{11}ϵ [1,287]$$

$$T\_{12}ϵ [287,399]$$

$$T\_{13}ϵ [399,527]$$

$$T\_{14}ϵ [527,696]$$

Segundo ciclo: D=15mm.

$$T\_{21}ϵ [696,1061]$$

$$T\_{22}ϵ [1061,1333]$$

$$T\_{23}ϵ [1333,1515]$$

$$T\_{24}ϵ [1515,1745]$$

Tercer ciclo: D=40mm.

$$T\_{31}ϵ [1745,2091]$$

$$T\_{32}ϵ [2091,2432]$$

$$T\_{33}ϵ [2432,2677]$$

$$T\_{34}ϵ [2677,2982]$$

Cuarto ciclo: D=80mm.

$$T\_{41}ϵ [2982,3782]$$

$T\_{42}ϵ [3782,4382]$

$$T\_{43}ϵ [4382;4811]$$

$T\_{44}ϵ [4811,5200]$

Quinto ciclo: D=120mm.

$$T\_{51}ϵ [5200,5803]$$

$T\_{52}ϵ [5803,6530]$

$$T\_{53}ϵ [6530,7269]$$

$T\_{54}ϵ [7269,7740]$

Sexto ciclo: D=150mm.

$$T\_{61}ϵ [7740,8353]$$

$$T\_{62}ϵ [8353,8702]$$

$$T\_{63}ϵ [8702,9049]$$

$T\_{64}ϵ [9049,9444]$

**Muro M3- espesor 40cm**

Identificación de ciclos de carga:

 Primer ciclo: D=2mm.

$$T\_{11}ϵ [1,277]$$

$$T\_{12}ϵ [277,421]$$

$$T\_{13}ϵ [421,545]$$

$$T\_{14}ϵ [545,672]$$

Segundo ciclo: D=15mm.

$$T\_{21}ϵ [672,1005]$$

$T\_{22}ϵ [1005,1272]$ (Retrocede hasta 16mm)

$$T\_{23}ϵ [1272,1505]$$

$T\_{24}ϵ [1505,1754]$ (Retrocede hasta 16mm)

Tercer ciclo: D=40mm.

$$T\_{31}ϵ [1754,2172]$$

$$T\_{32}ϵ [2172,2514]$$

$$T\_{33}ϵ [2514,2778]$$

$$T\_{34}ϵ [2778,3018]$$

Cuarto ciclo: D=80mm.

$$T\_{41}ϵ [3018,3510]$$

$T\_{42}ϵ [3510,3919]$

$$T\_{43}ϵ [3919;4209]$$

$T\_{44}ϵ [4209,4504]$

Quinto ciclo: D=120mm.

$$T\_{51}ϵ [4504,4918]$$

$T\_{52}ϵ [4918,5284]$

$$T\_{53}ϵ [5284,5686]$$

$T\_{54}ϵ [5686,6212]$

Sexto ciclo: D=150mm.

$$T\_{61}ϵ [6212,6596]$$

$$T\_{62}ϵ [6596,6862]$$

$$T\_{63}ϵ [6862,7316]$$

$T\_{64}ϵ [7316,7531]$