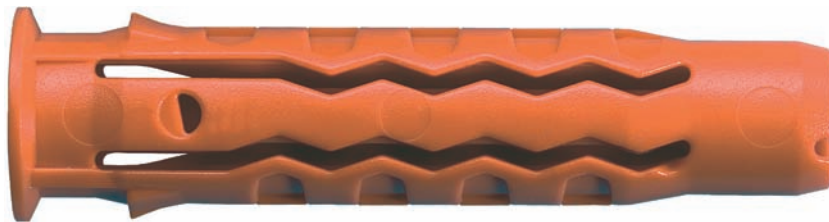
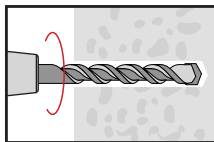




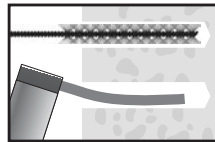
# TACOS



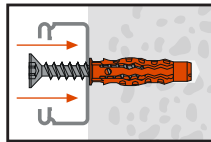
### Sistema de colocación



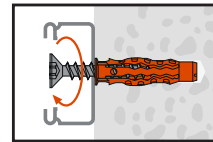
1 Toma de la tabla el Ø y la profundidad del orificio a taladrar.



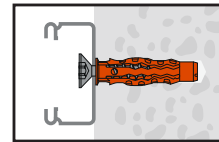
2 Limpiar el orificio con un cepillo, luego aspirarlo.



3 Fijar el taco y los materiales de construcción

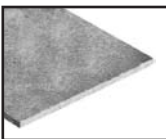


4 Fijar los materiales con un tornillo.

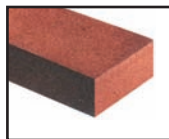


5 Hacer que el tornillo entre con precisión.

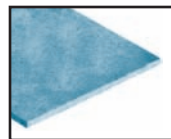
### Materiales específicos



HORMIGÓN



LADRILLO MACIZO



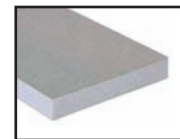
HORMIGÓN CELULAR



PIEDRA NATURAL  
PIEDRA ARENISCA



LADRILLO HUECO



YESO

### Características

| CODIGO     | DESCRIPCION      | Ø<br>TORNILLO | Ø<br>BROCA | LONG. |
|------------|------------------|---------------|------------|-------|
| CX51050050 | MUNGO MQ 5 x 25  | 2,6-4         | 5          | 35    |
| CX51050060 | MUNGO MQ 6 x 30  | 3,5-5         | 6          | 45    |
| CX51050080 | MUNGO MQ 8 x 40  | 4,5-6         | 8          | 55    |
| CX51050100 | MUNGO MQ 10 x 50 | 6-8           | 10         | 65    |
| CX51050120 | MUNGO MQ 12 x 60 | 8-10          | 12         | 80    |
| CX51050140 | MUNGO MQ 14 x 70 | 10-12         | 14         | 90    |

### Cargas recomendadas en kN. (1kN. ≙ 100 Kg)

| Hormigón<br>C20/25 | Ladrillo<br>Macizo | Hormigón<br>celular | Piedra | Ladrillo<br>Hueco |
|--------------------|--------------------|---------------------|--------|-------------------|
| 0.45               | 0.45               | 0.12                | 0.45   | 0.15              |
| 1.10               | 0.90               | 0.12                | 0.70   | 0.20              |
| 1.20               | 1.00               | 0.19                | 1.00   | 0.40              |
| 1.90               | 1.10               | 0.30                | 1.80   | 0.45              |
| 2.70               | 1.50               | 0.40                | 2.10   | 0.50              |
| 3.00               | 1.80               | 0.55                | 2.30   | 0.60              |

Coefficiente de seguridad: 5

# TACO NYLON MUNGO MQ

Quattro®

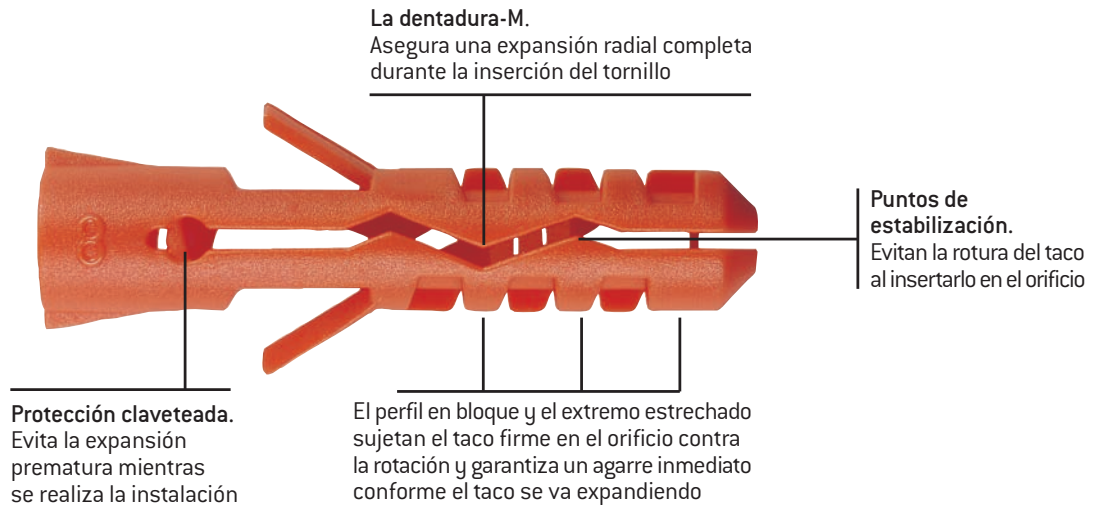


## MQ

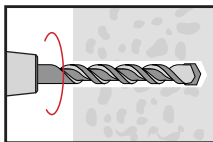
| Tamaño del taco                                 |  | 5    | 6     | 8     | 10    | 12   | 14   |       |
|---|--|------|-------|-------|-------|------|------|-------|
| Cargas de resistencia recomendadas <sup>1</sup> |  |      |       |       |       |      |      |       |
| N <sub>Emp</sub>                                | - Hormigón                                 | 0,45 | 1,10  | 1,20  | 1,90  | 2,70 | 3,00 |       |
|   | - Ladrillo / Ladrillos rojos               | 0,45 | 0,90  | 1,00  | 1,10  | 1,50 | 1,80 |       |
|   | - Hormigón celular                         | 0,12 | 0,12  | 0,19  | 0,30  | 0,40 | 0,55 |       |
| Medición del tornillo:                          |  |      |       |       |       |      |      |       |
| d <sub>s</sub>                                  | - Tornillo para madera                     | mm   | 2.6-4 | 3.5-5 | 4.5-6 | 6-8  | 8-10 | 10-12 |
|   | - Tornillo para aglomerado                 |      |       |       |       |      |      |       |
|   | - Tornillos métricos                       | M    | 3     | 4     | 5     | 7    | 8    | 9     |
| h <sub>1</sub>                                  | Profundidad del orificio taladrado         | mm   | 35    | 40    | 50    | 70   | 80   | 90    |
| d <sub>0</sub>                                  | Ø del orificio taladrado en mat. de const. | mm   | 5     | 6     | 8     | 10   | 12   | 14    |
| l   | Longitud del taco                          | mm   | 18    | 25    | 30    | 40   | 50   | 60    |
| d <sub>nom</sub>                                | Ø del taco                                 | mm   | 5     | 6     | 8     | 10   | 12   |       |

1) Tornillos para madera con diámetro máximo / Factor de seguridad 5

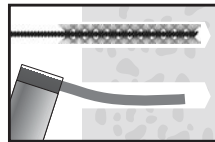




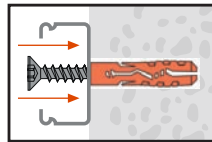
## Sistema de colocación



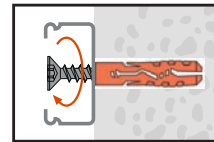
1 Toma de la tabla el  $\emptyset$  y la profundidad del orificio a taladrar.



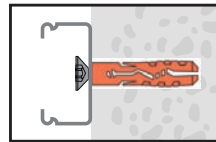
2 Limpiar el orificio con un cepillo, luego aspirarlo.



3 Fijar el taco y los materiales de construcción

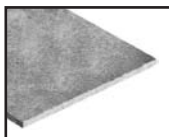


4 Fijar los materiales con un tornillo.

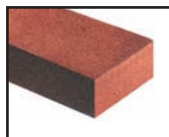


5 Hacer que el tornillo entre con precisión.

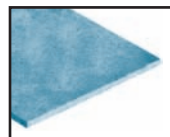
## Materiales específicos



HORMIGÓN



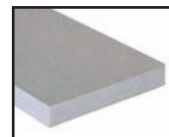
LADRILLO MACIZO



HORMIGÓN CELULAR



PIEDRA NATURAL  
PIEDRA CALCAREA



YESO



LADRILLO HUECO

## Cargas recomendadas en kN. (1kN. $\triangleq$ 100 Kg)

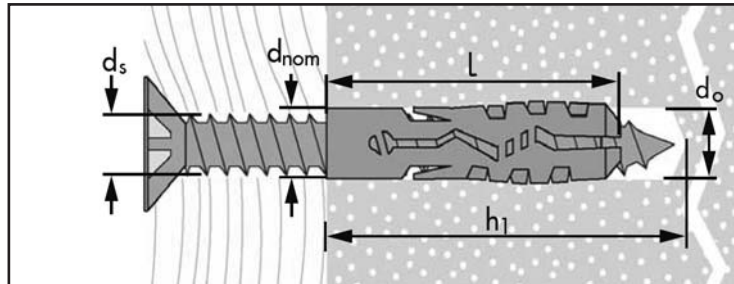
| Métrica | Hormigón C20/25 | Ladrillo | Hormigón Celular |
|---------|-----------------|----------|------------------|
| MN 4    | 0.25            | 0.2      | 0.02             |
| MN 5    | 0.35            | 0.3      | 0.04             |
| MN 6    | 0.6             | 0.5      | 0.06             |
| MN 7    | 0.7             | 0.65     | 0.07             |
| MN 8    | 0.85            | 0.8      | 0.09             |
| MN 10   | 1.4             | 1.0      | 0.2              |
| MN 12   | 1.8             | 1.4      | 0.4              |
| MN 14   | 3.0             | 1.5      | 0.5              |
| MN 15   | 3.1             | 1.6      | 0.6              |
| MN 16   | 3.5             | ----     | 0.6              |
| MN 20   | 5.2             | ----     | 1.0              |

Coeficiente de seguridad: 5

## Características

| CODIGO     | DESCRIPCION | $\emptyset$ TORNILLO | $\emptyset$ BROCA | LONGITUD | EMBALAJE CAJA/CARTON |
|------------|-------------|----------------------|-------------------|----------|----------------------|
| CX51000040 | MUNGO MN 4  | 2,2-3                | 4                 | 30       | 100 / 3.600          |
| CX51000050 | MUNGO MN 5  | 2,6-4                | 5                 | 35       | 100 / 3.600          |
| CX51000060 | MUNGO MN 6  | 3,5-5                | 6                 | 40       | 100 / 3.600          |
| CX51000070 | MUNGO MN 7  | 4,5-5                | 7                 | 50       | 100 / 3.600          |
| CX51000080 | MUNGO MN 8  | 4,5-6                | 8                 | 55       | 100 / 3.600          |
| CX51000100 | MUNGO MN 10 | 6-8                  | 10                | 65       | 50 / 1.800           |
| CX51000120 | MUNGO MN 12 | 8-10                 | 12                | 80       | 25 / 900             |
| CX51000140 | MUNGO MN 14 | 10-12                | 14                | 90       | 20 / 720             |
| CX51000160 | MUNGO MN 16 | 12-14                | 16                | 100      | 10 / 360             |
| CX51000200 | MUNGO MN 20 | 14-16                | 20                | 115      | 5 / 180              |

# TACO NYLON MUNGO MN

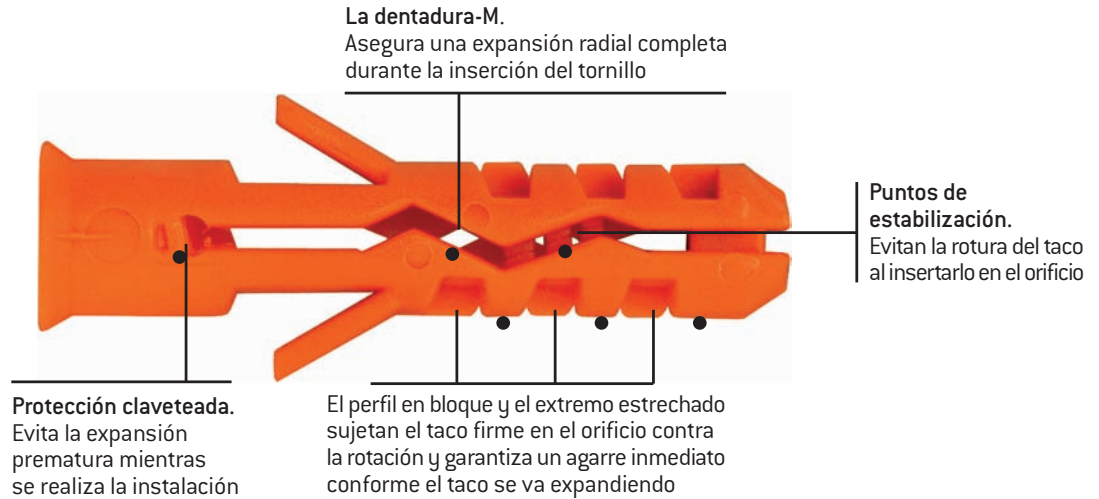


| Tamaño de taco                                       |  | 4    | 5       | 6       | 7       | 8       | 10      | 12      | 14      | 15      | 16      | 20      |         |
|--|--|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| (Cargas de resistencia recomendadas <sup>1)</sup> ): |  |      |         |         |         |         |         |         |         |         |         |         |         |
| N <sub>Emp</sub>                                     | - Hormigón                                     | 0.25 | 0.35    | 0.6     | 0.7     | 0.85    | 1.4     | 1.8     | 3       | 3.1     | 3.5     | 5.2     |         |
|  | - Ladrillo / Ladrillo rojo                     | 0.2  | 0.3     | 0.5     | 0.65    | 0.8     | 1       | 1.4     | 1.5     | 1.6     |         |         |         |
|  | - Hormigón Celular                             | 0.02 | 0.04    | 0.06    | 0.07    | 0.09    | 0.2     | 0.4     | 0.5     | 0.6     | 0.6     | 1       |         |
| Medición del tornillo:                               |  |      |         |         |         |         |         |         |         |         |         |         |         |
| d <sub>s</sub>                                       | - Tornillos para madera-Ø                      | mm   | 2.2-3   | 2.6-4   | 3.5-5   | 4.5-5   | 4.5-6   | 6-8     | 8-10    | 10-12   | 10-12   | 12-14   | 14-16   |
|  | - Tornillo para aglomerado-Ø                   | mm   |         |         |         |         |         |         |         |         |         |         |         |
| h <sub>1</sub>                                       | - Tornillos métricos                           | M    |         | 3       | 4       | 4       | 5       | 6       | 8       | 10      | 10      | 12      | 14      |
|  | - Profundidad del orificio taladrado           | mm   | 30      | 35      | 40      | 50      | 55      | 65      | 80      | 90      | 95      | 100     | 115     |
| d <sub>0</sub>                                       | - Ø orificio taladrado en mat. de construcción | mm   | 4       | 5       | 6       | 7       | 8       | 10      | 12      | 14      | 15      | 16      | 20      |
| l  | - Longitud de taco                             | mm   | 20      | 25      | 30      | 35      | 40      | 50      | 60      | 70      | 75      | 80      | 90      |
| d <sub>nom</sub>                                     | - Ø de taco                                    | mm   | 4       | 5       | 6       | 7       | 8       | 10      | 12      | 14      | 15      | 16      | 20      |
|  |  |      | 1000040 | 1000050 | 1000060 | 1000070 | 1000080 | 1000100 | 1000120 | 1000140 | 1000150 | 1000160 | 1000200 |

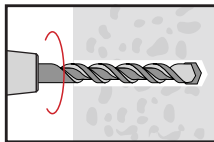
## Taco de nylon MN

1) Tornillos para madera con diámetro máximo / Factor de seguridad 5

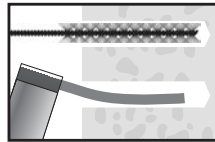
## CON COLLARÍN



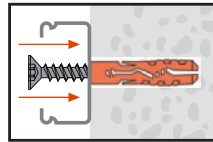
### Sistema de colocación



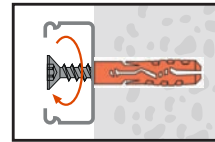
1 Toma de la tabla el Ø y la profundidad del orificio a taladrar.



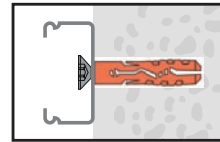
2 Limpiar el orificio con un cepillo, luego aspirarlo.



3 Fijar el taco y los materiales de construcción

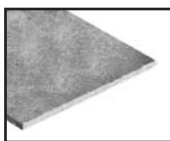


4 Fijar los materiales con un tornillo.

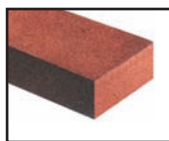


5 Hacer que el tornillo entre con precisión.

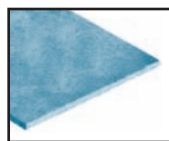
### Materiales específicos



HORMIGÓN



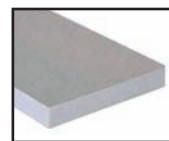
LADRILLO MACIZO



HORMIGÓN CELULAR



PIEDRA NATURAL  
PIEDRA CALCAREA



YESO



LADRILLO HUECO

### Cargas recomendadas en kN. (1kN. $\approx$ 100 Kg)

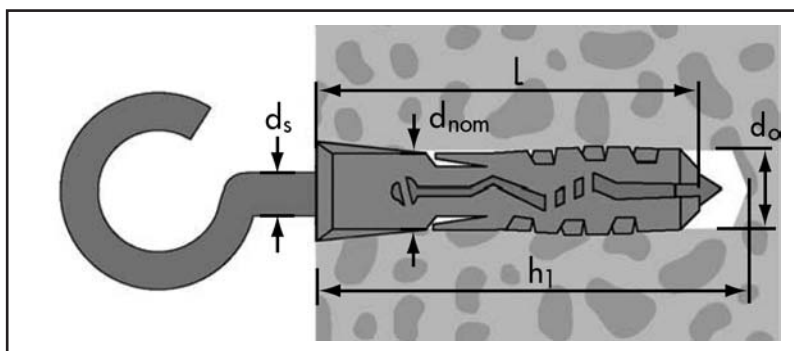
| Métrica | Hormigón C20/25 | Ladrillo Macizo | Hormigón Celular |
|---------|-----------------|-----------------|------------------|
| MNK 5   | 0.35            | 0.3             | 0.04             |
| MNK 6   | 0.6             | 0.5             | 0.06             |
| MNK 8   | 0.85            | 0.8             | 0.09             |
| MNK 10  | 1.4             | 1.0             | 0.2              |
| MNK 12  | 1.8             | 1.4             | 0.4              |

Coefficiente de seguridad: 5

### Características

| CODIGO     | DESCRIPCION  | Ø TORNILLO | Ø BROCA | LONGITUD | EMBALAJE CAJA/CARTON |
|------------|--------------|------------|---------|----------|----------------------|
| CX51040520 | MUNGO MNK 5  | 2,6-4      | 5       | 25       | 100 / 3.600          |
| CX51040630 | MUNGO MNK 6  | 3,5-5      | 6       | 30       | 100 / 3.600          |
| CX51040840 | MUNGO MNK 8  | 4,5-6      | 8       | 40       | 100 / 3.600          |
| CX51041050 | MUNGO MNK 10 | 6-8        | 10      | 50       | 50 / 1.800           |
| CX51041250 | MUNGO MNK 12 | 8-10       | 12      | 60       | 25 / 900             |

# TACO NYLON MUNGO MNK



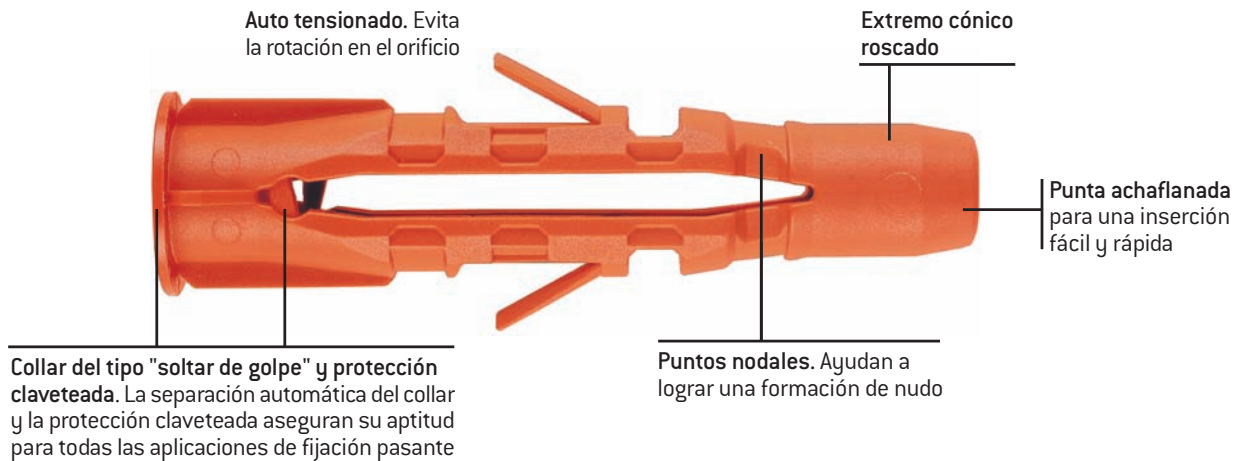
## MNK

| Tamaño del taco                                 |  | 5    | 6       | 8       | 10      | 12      |         |         |
|---|--|------|---------|---------|---------|---------|---------|---------|
| Cargas de resistencia recomendadas <sup>1</sup> |  |      |         |         |         |         |         |         |
| - Hormigón                                      |  | 0.35 | 0.6     | 0.85    | 1.4     | 1.8     |         |         |
| N <sub>Emp</sub>                                | - Ladrillo / Ladrillos rojos               | kN   | 0.3     | 0.5     | 0.8     | 1       | 1.4     |         |
|   | - Hormigón celular                         |      | 0.04    | 0.06    | 0.09    | 0.2     | 0.4     |         |
| Medición del tornillo:                          |  |      |         |         |         |         |         |         |
| d <sub>s</sub>                                  | - Tornillo para madera                     | mm   | 2.6-4   | 3.5-5   | 4.5-6   | 6-8     | 8-10    |         |
|   | - Tornillo para aglomerado                 |      |         |         |         |         |         |         |
|   | - Tornillos métricos                       | M    | 3       | 4       | 5       | 6       | 8       |         |
| h <sub>1</sub>                                  | Profundidad del orificio taladrado         | mm   | 25      | 35      | 40      | 55      | 65      | 80      |
| d <sub>o</sub>                                  | Ø del orificio taladrado en mat. de const. | mm   | 5       | 6       | 8       | 10      | 12      |         |
| l   | Longitud del taco                          | mm   | 18      | 25      | 30      | 40      | 50      | 60      |
| d <sub>nom</sub>                                | Ø del taco                                 | mm   | 5       | 6       | 8       | 10      | 12      |         |
|   |  |      | 1040510 | 1040520 | 1040630 | 1040840 | 1041050 | 1041250 |

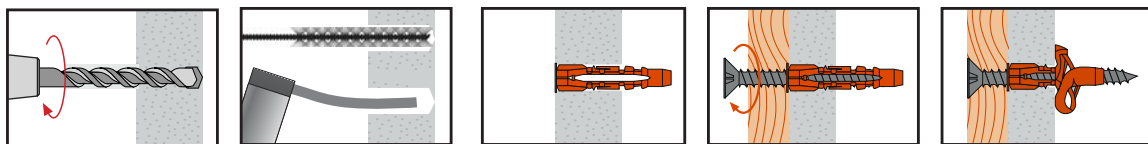
## Taco de Nylon MNK

1) Tornillos para madera con diámetro máximo / Factor de seguridad 5





## Sistema de colocación



1 Toma de la tabla el  $\emptyset$  y la profundidad del orificio a taladrar.

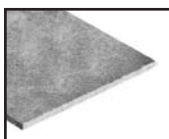
2 Limpiar el orificio con un cepillo, luego aspirarlo.

3 Fijar el taco

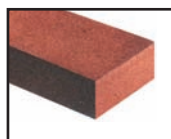
4 Fijar los materiales con un tornillo.

5 Hacer que el tornillo entre con precisión.

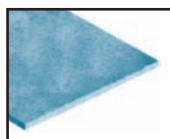
## Materiales específicos



HORMIGÓN



LADRILLO MACIZO



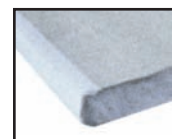
HORMIGÓN CELULAR



PIEDRA NATURAL  
PIEDRA ARENISCA



LADRILLO HUECO



PLACA CARTÓN-YESO

### Cargas recomendadas en kN. (1kN. $\triangleq$ 100 Kg)

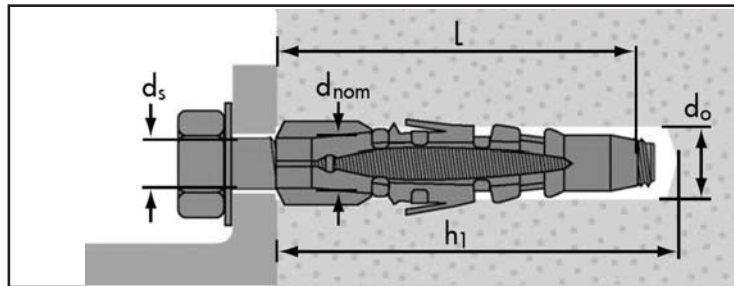
| Métrica | Hormigón C20/25 | Ladrillo Macizo | Ladrillo Perforado | Yeso  | Aglomerado |
|---------|-----------------|-----------------|--------------------|-------|------------|
| MU 6    | 0.6             | 0,45            | 0.3                | 0.15* | 0.4*       |
| MU 8    | 1.1             | 0,9             | 0.5                | 0.18* | 0.45*      |
| MU 10   | 1.8             | 1,2             | 0.5                | 0.2*  | 0.6*       |
| MU 12   | 3.0             | 1.8             | 1.2                | ----  | ----       |
| MU 14   | 4.0             | 2.2             | 1.3                | ----  | ----       |

Coefficiente de seguridad: 5

### Características

| CODIGO     | DESCRIPCION      | $\emptyset$ TORNILLO | $\emptyset$ BROCA | LONGITUD | EMBALAJE CAJA/CARTON |
|------------|------------------|----------------------|-------------------|----------|----------------------|
| CX51010630 | MUNGO MU 6 x 35  | 3-4                  | 6                 | 45       | 100 / 3.600          |
| CX51010640 | MUNGO MU 6 x 45  | 3-4                  | 6                 | 55       | 100 / 3.600          |
| CX51010850 | MUNGO MU 8 x 50  | 4,5-6                | 8                 | 65       | 50 / 1.800           |
| CX51011060 | MUNGO MU 10 x 60 | 6-8                  | 10                | 75       | 25 / 900             |
| CX51011270 | MUNGO MU 12 x 70 | 8-10                 | 12                | 90       | 20 / 720             |
| CX51011470 | MUNGO MU 14 x 75 | 10-12                | 14                | 100      | 10 / 360             |

# TACO NYLON MUNGO MU



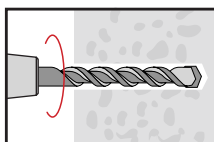
| <b>MU</b>                                  |  | 6                 | 8                 | 10                | 12                | 14                 |                   |                    |                   |                   |                 |
|--|--|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-----------------|
| <b>Tamaño del taco</b>                     |  |                   |                   |                   |                   |                    |                   |                    |                   |                   |                 |
| <b>Cargas de resistencia recomendadas:</b> |  |                   |                   |                   |                   |                    |                   |                    |                   |                   |                 |
| N <sub>Emp</sub>                           | Hormigón                                   | 0.6 <sup>1)</sup> | 0.4 <sup>2)</sup> | 0.6 <sup>1)</sup> | 0.4 <sup>2)</sup> | 1.1 <sup>1)</sup>  | 0.8 <sup>2)</sup> | 1.8 <sup>1)</sup>  | 1.2 <sup>2)</sup> | 3 <sup>2)</sup>   | 4 <sup>2)</sup> |
|  | Ladrillo                                   |                   |                   |                   |                   |                    |                   |                    |                   |                   |                 |
|  | Ladrillo hueco                             |                   |                   |                   |                   |                    |                   |                    |                   |                   |                 |
|  | Hormigón celular                           |                   |                   |                   |                   |                    |                   |                    |                   |                   |                 |
|  | Cartón-yeso                                |                   |                   |                   |                   |                    |                   |                    |                   |                   |                 |
|  | Cartón ordinario                           | 0.4 <sup>2)</sup> | -                 | 0.4 <sup>2)</sup> | -                 | 0.15 <sup>2)</sup> | -                 | 0.18 <sup>2)</sup> | -                 | 0.2 <sup>2)</sup> | -               |
| <b>Medida del tornillo:</b>                |  |                   |                   |                   |                   |                    |                   |                    |                   |                   |                 |
| d <sub>t</sub>                             | Tornillos para madera                      | mm                | 3-4               | 4.5-6             | 6-8               | 8-10               | 10-12             |                    |                   |                   |                 |
|  | Tornillos para cartón ordinario            | M                 | 4                 | 6                 | 8                 | 10                 | 12                |                    |                   |                   |                 |
|  | Tornillos métricos                         |                   |                   |                   |                   |                    |                   |                    |                   |                   |                 |
| h <sub>1</sub>                             | Profundidad del orificio taladrado         | mm                | 45                | 55                | 65                | 75                 | 90                | 100                |                   |                   |                 |
| d <sub>o</sub>                             | ∅ del orificio taladrado en mat. de const. | mm                | 6                 | 8                 | 10                | 12                 | 14                |                    |                   |                   |                 |
| l  | Longitud del taco                          | mm                | 35                | 45                | 50                | 60                 | 70                | 75                 |                   |                   |                 |
| d <sub>nom</sub>                           | ∅ del taco                                 | mm                | 6                 | 8                 | 10                | 12                 | 14                |                    |                   |                   |                 |
|  |  |                   | 1010630           | 1010640           | 1010850           | 1010660            | 1011270           | 1011470            |                   |                   |                 |

## Taco Multi MU

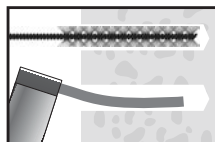
- 1) Tornillos para madera con diámetro máximo  
 2) Tornillos para aglomerado con diámetro máximo / Factor de seguridad 5



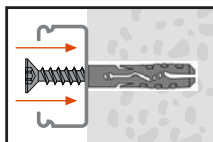
## Sistema de colocación



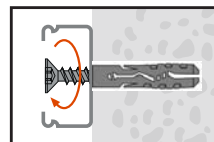
1 Toma de la tabla el Ø y la profundidad del orificio a taladrar.



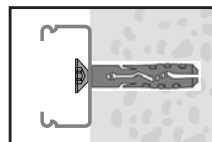
2 Limpiar el orificio con un cepillo, luego aspirarlo.



3 Fijar el taco y los materiales de construcción

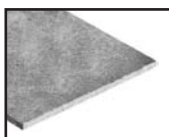


4 Fijar los materiales con un tornillo.



5 Hacer que el tornillo entre con precisión.

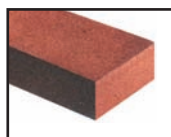
## Materiales específicos



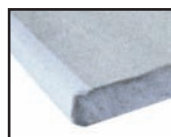
HORMIGÓN



PIEDRA NATURAL  
PIEDRA CALCAREA



LADRILLO MACIZO



PLACA CARTÓN-YESO



LADRILLO HUECO



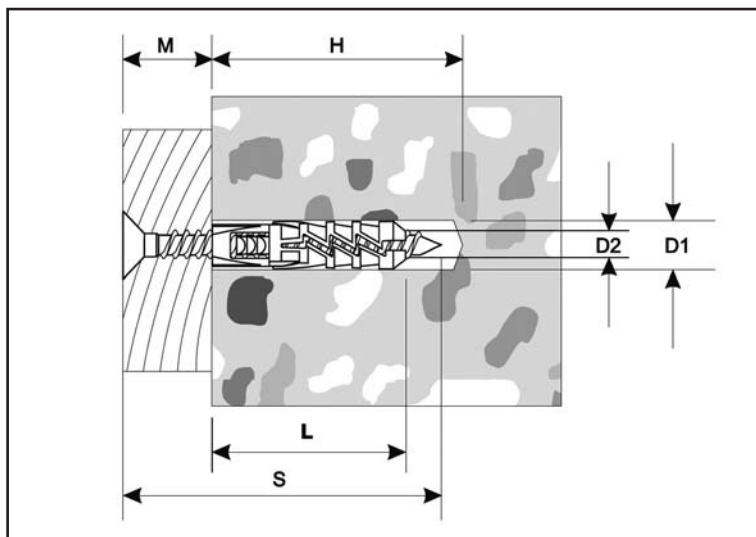
BLOQUE HORMIGÓN

## Cargas recomendadas en kN. (1kN. $\triangleq$ 100 Kp)

| Métrica | Hormigón C20/25 | Ladrillo | Hormigón Celular |
|---------|-----------------|----------|------------------|
| 5       | 0.35            | 0.3      | 0.04             |
| 6       | 0.6             | 0.5      | 0.06             |
| 8       | 0.85            | 0.8      | 0.09             |
| 10      | 1.4             | 1.0      | 0.2              |
| 12      | 1.8             | 1.4      | 0.4              |

Coefficiente de seguridad: 5

# TACO NYLON GRIS



D1 = diámetro del taco  
D2 = diámetro del tornillo  
H = Profundidad mínima de taladrado  
M = Longitud máxima de uso  
L = Longitud taco  
S = Longitud tornillo

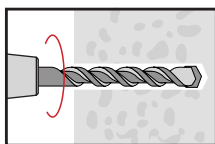
## Características

| CODIGO    | DESCRIPCION | Ø<br>TORNILLO | Ø<br>BROCA | LONGITUD<br>(L) | EMBALAJE<br>CAJA/CARTON |
|-----------|-------------|---------------|------------|-----------------|-------------------------|
| CX5535700 | 5           | 2,6-4         | 5          | 30              | 100 / 3.600             |
| CX5535701 | 6           | 3,5-5         | 6          | 35              | 100 / 3.600             |
| CX5535702 | 8           | 4,5-6         | 8          | 50              | 100 / 3.600             |
| CX5535703 | 10          | 6-8           | 10         | 60              | 50 / 1.800              |
| CX5535704 | 12          | 8-10          | 12         | 70              | 25 / 900                |

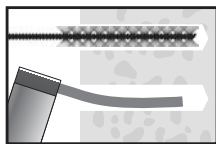




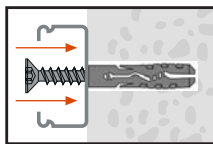
## Sistema de colocación



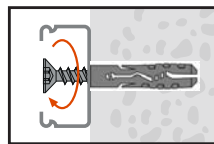
1 Toma de la tabla el  $\emptyset$  y la profundidad del orificio a taladrar.



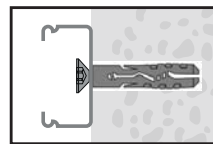
2 Limpiar el orificio con un cepillo, luego aspirarlo.



3 Fijar el taco y los materiales de construcción

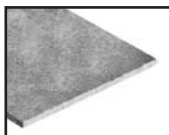


4 Fijar los materiales con un tornillo.



5 Hacer que el tornillo entre con precisión.

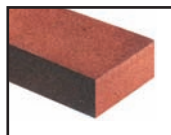
## Materiales específicos



HORMIGÓN



PIEDRA NATURAL  
PIEDRA CALCAREA



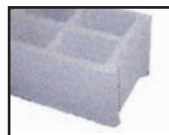
LADRILLO MACIZO



PLACA CARTÓN-YESO



LADRILLO HUECO



BLOQUE HORMIGÓN

### Cargas recomendadas en kN. (1kN. $\pm$ 100 Kp)

| Métrica | Hormigón C20/25 | Ladrillo Macizo | Ladrillo Hueco |
|---------|-----------------|-----------------|----------------|
| 10      | 0,80            | 0,48            | 0.2            |
| 11      | 0,90            | 0,54            | 0.4            |
| 12      | 1,20            | 0,72            | 0.4            |
| 13      |                 |                 | 0.4            |
| 14      | 1,45            | 0,85            | 0.5            |
| 15      |                 |                 | 0.6            |
| 16      | 1,70            | 1,12            | 0.6            |

Coeficiente de seguridad: 5

### Características

| CODIGO    | DESCRIPCION                       | $\emptyset$ BROCA | $\emptyset$ TORNILLO |
|-----------|-----------------------------------|-------------------|----------------------|
| CX5535710 | TACO PLASTICO $\emptyset$ 5 X 20  | 5                 | 3                    |
| CX5535711 | TACO PLASTICO $\emptyset$ 6 X22   | 6                 | 3                    |
| CX5535712 | TACO PLASTICO $\emptyset$ 7 X 23  | 7                 | 3                    |
| CX5535713 | TACO PLASTICO $\emptyset$ 8 X 25  | 8                 | 3                    |
| CX5535714 | TACO PLASTICO $\emptyset$ 9 X 30  | 9                 | 3                    |
| CX5535715 | TACO PLASTICO $\emptyset$ 10 X 40 | 10                | 4                    |
| CX5535716 | TACO PLASTICO $\emptyset$ 12 X 50 | 12                | 4                    |