

### ANCLAJES METÁLICOS

#### 1. De Alta Resistencia con Certificación.

#### Anclaje Perno Estándar



| Ref. catálogo | Código        | Estampac. en cabeza | Ø taladro (mm) | Profund. mín de taladro en montaje > (mm) | Longitud anclaje (mm) | Espesor máximo a fijar < (mm) | Longitud de rosca | Rosca | Ancho llave | Ø x espesor de arandela |
|---------------|---------------|---------------------|----------------|-------------------------------------------|-----------------------|-------------------------------|-------------------|-------|-------------|-------------------------|
| 14010001      | FBN 6/5       | -                   | 6              | 45                                        | 40                    | 5 / -                         | 16                | 6     | 8           | 12 x 1.6                |
| 14010002      | FBN 6/10      | -                   | 6              | 50                                        | 55                    | 10 / -                        | 30                | 6     | 8           | 12 x 1.6                |
| 14010003      | FBN 6/30      | -                   | 6              | 70                                        | 75                    | 30 / -                        | 30                | 6     | 8           | 12 x 1.6                |
| 14010004      | FBN II 8/5    | A                   | 8              | 61                                        | 66                    | 5 / 15                        | 34                | 8     | 13          | 16 x 1.6                |
| 14010005      | FBN II 8/10   | B                   | 8              | 66                                        | 71                    | 10 / 20                       | 39                | 8     | 13          | 16 x 1.6                |
| 14010006      | FBN II 8/20   | D                   | 8              | 76                                        | 81                    | 20 / 30                       | 49                | 8     | 13          | 16 x 1.6                |
| 14010007      | FBN II 8/30   | F                   | 8              | 86                                        | 91                    | 30 / 40                       | 59                | 8     | 13          | 16 x 1.6                |
| 14010008      | FBN II 8/50   | K                   | 8              | 106                                       | 111                   | 50 / 60                       | 79                | 8     | 13          | 16 x 1.6                |
| 14010009      | FBN II 8/70   | M                   | 8              | 126                                       | 131                   | 70 / 80                       | 99                | 8     | 13          | 16 x 1.6                |
| 14010010      | FBN II 8/100  | P                   | 8              | 156                                       | 161                   | 100 / 110                     | 100               | 8     | 13          | 16 x 1.6                |
| 14010011      | FBN II 10/10  | B                   | 10             | 78                                        | 86                    | 10 / 20                       | 46                | 10    | 17          | 20 x 4                  |
| 14010012      | FBN II 10/20  | D                   | 10             | 88                                        | 96                    | 20 / 30                       | 56                | 10    | 17          | 20 x 5                  |
| 14010013      | FBN II 10/30  | F                   | 10             | 98                                        | 106                   | 30 / 40                       | 66                | 10    | 17          | 20 x 7                  |
| 14010014      | FBN II 10/50  | K                   | 10             | 118                                       | 126                   | 50 / 60                       | 86                | 10    | 17          | 20 x 8                  |
| 14010015      | FBN II 10/70  | M                   | 10             | 138                                       | 146                   | 70 / 80                       | 100               | 10    | 17          | 20 x 9                  |
| 14010016      | FBN II 10/100 | P                   | 10             | 168                                       | 176                   | 100 / 110                     | 100               | 10    | 17          | 20 x 10                 |
| 14010017      | FBN II 10/140 | S                   | 10             | 208                                       | 216                   | 140 / 150                     | 100               | 10    | 17          | 20 x 11                 |
| 14010018      | FBN II 10/160 | T                   | 10             | 228                                       | 236                   | 160 / 170                     | 100               | 10    | 17          | 20 x 12                 |
| 14010019      | FBN II 12/10  | B                   | 12             | 95                                        | 106                   | 10 / 25                       | 59                | 12    | 19          | 24 x 2.5                |
| 14010020      | FBN II 12/20  | D                   | 12             | 105                                       | 116                   | 20 / 35                       | 69                | 12    | 19          | 24 x 2.5                |
| 14010021      | FBN II 12/30  | F                   | 12             | 115                                       | 126                   | 30 / 45                       | 79                | 12    | 19          | 24 x 2.5                |
| 14010022      | FBN II 12/50  | K                   | 12             | 135                                       | 146                   | 50 / 65                       | 99                | 12    | 19          | 24 x 2.5                |
| 14010023      | FBN II 12/80  | N                   | 12             | 165                                       | 176                   | 80 / 95                       | 129               | 12    | 19          | 24 x 2.5                |
| 14010024      | FBN II 12/100 | P                   | 12             | 185                                       | 196                   | 100 / 115                     | 149               | 12    | 19          | 24 x 2.5                |
| 14010025      | FBN II 12/120 | R                   | 12             | 205                                       | 216                   | 120 / 135                     | 169               | 12    | 19          | 24 x 2.5                |
| 14010026      | FBN II 12/140 | S                   | 12             | 225                                       | 236                   | 140 / 155                     | 189               | 12    | 19          | 24 x 2.5                |
| 14010027      | FBN II 12/160 | T                   | 12             | 245                                       | 256                   | 160 / 185                     | 100               | 12    | 19          | 24 x 2.5                |
| 14010028      | FBN II 16/25  | E                   | 16             | 129                                       | 145                   | 25 / 40                       | 89                | 16    | 24          | 30 x 3                  |
| 14010029      | FBN II 16/50  | K                   | 16             | 154                                       | 170                   | 50 / 65                       | 114               | 16    | 24          | 30 x 3                  |
| 14010030      | FBN II 16/80  | N                   | 16             | 184                                       | 200                   | 80 / 95                       | 144               | 16    | 24          | 30 x 3                  |
| 14010031      | FBN II 16/100 | P                   | 16             | 204                                       | 220                   | 100 / 115                     | 164               | 16    | 24          | 30 x 3                  |
| 14010032      | FBN II 16/140 | S                   | 16             | 244                                       | 260                   | 140 / 155                     | 100               | 16    | 24          | 30 x 3                  |
| 14010033      | FBN II 16/160 | T                   | 16             | 264                                       | 280                   | 160 / 175                     | 100               | 16    | 24          | 30 x 3                  |
| 14010034      | FBN II 16/200 | V                   | 16             | 304                                       | 320                   | 200 / 215                     | 100               | 16    | 24          | 30 x 3                  |
| 14010035      | FBN II 20/30  | F                   | 20             | 165                                       | 184                   | 30 / 55                       | 50                | 20    | 30          | 37 x 3                  |
| 14010036      | FBN II 20/60  | L                   | 20             | 195                                       | 214                   | 60 / 85                       | 90                | 20    | 30          | 37 x 3                  |
| 14010037      | FBN II 20/80  | N                   | 20             | 215                                       | 234                   | 80 / 105                      | 90                | 20    | 30          | 37 x 3                  |
| 14010038      | FBN II 20/120 | R                   | 20             | 255                                       | 274                   | 120 / 145                     | 90                | 20    | 30          | 37 x 3                  |

Disponible en acero inoxidable.

## Anclaje Perno Alto Rendimiento

| Ref. catálogo | Modelo        | Código acero cincado | Longitud total (mm) | Profundidad mín anclaje (mm) | Espesor máx a fijar (mm) |
|---------------|---------------|----------------------|---------------------|------------------------------|--------------------------|
| 14010039      | FAZ II 8/10   | 94871                | 75                  | 45                           | 10                       |
| 14010040      | FAZ II 8/30   | 94877                | 95                  | 45                           | 30                       |
| 14010041      | FAZ II 8/50   | 94878                | 115                 | 45                           | 50                       |
| 14010042      | FAZ II 8/100  | 94879                | 165                 | 45                           | 100                      |
| 14010043      | FAZ II 8/150  | 94980                | 215                 | 45                           | 150                      |
| 14010044      | FAZ II 10/10  | 94981                | 93                  | 60                           | 10                       |
| 14010045      | FAZ II 10/30  | 94983                | 113                 | 60                           | 30                       |
| 14010046      | FAZ II 10/50  | 94984                | 133                 | 60                           | 50                       |
| 14010047      | FAZ II 10/80  | 94985                | 163                 | 60                           | 80                       |
| 14010048      | FAZ II 10/100 | 94986                | 183                 | 60                           | 100                      |
| 14010049      | FAZ II 10/150 | 95141                | 233                 | 60                           | 150                      |
| 14010050      | FAZ II 12/10  | 95419                | 108                 | 70                           | 10                       |
| 14010051      | FAZ II 12/30  | 95421                | 128                 | 70                           | 30                       |
| 14010052      | FAZ II 12/50  | 95446                | 148                 | 70                           | 50                       |

| Ref. catálogo | Modelo        | Código acero cincado | Longitud total (mm) | Profundidad mín anclaje (mm) | Espesor máx a fijar (mm) |
|---------------|---------------|----------------------|---------------------|------------------------------|--------------------------|
| 14010053      | FAZ II 12/80  | 95454                | 178                 | 70                           | 80                       |
| 14010054      | FAZ II 12/100 | 95470                | 198                 | 70                           | 100                      |
| 14010055      | FAZ II 12/150 | 95557                | 248                 | 70                           | 150                      |
| 14010056      | FAZ II 12/200 | 95605                | 298                 | 70                           | 200                      |
| 14010057      | FAZ II 16/25  | 95836                | 146                 | 85                           | 25                       |
| 14010058      | FAZ II 16/50  | 95864                | 171                 | 85                           | 50                       |
| 14010059      | FAZ II 16/100 | 95865                | 221                 | 85                           | 100                      |
| 14010060      | FAZ II 16/150 | 95875                | 271                 | 85                           | 150                      |
| 14010061      | FAZ II 16/200 | 95967                | 321                 | 85                           | 200                      |
| 14010062      | FAZ II 16/250 | 95968                | 371                 | 85                           | 250                      |
| 14010063      | FAZ II 16/300 | 96188                | 421                 | 85                           | 300                      |

Disponible en acero inoxidable.

Cargas máximas admisibles.

| Código    | Tracción centrada |                      | Cortante          |                      |
|-----------|-------------------|----------------------|-------------------|----------------------|
|           | Hormigón Comprim. | H fisurado tracción. | Hormigón Comprim. | H fisurado tracción. |
| FAZ II 8  | 4,71              | 2,62                 | 6,86              | 6,86                 |
| FAZ II 10 | 8,38              | 4,71                 | 11,43             | 11,43                |
| FAZ II 12 | 13,09             | 8,38                 | 16,86             | 16,86                |
| FAZ II 16 | 20,60             | 14,71                | 31,43             | 31,43                |



## Anclaje Alta Resistencia

| Ref. catálogo | Modelo        | Código acero cincado | Longitud total (mm) | Profundidad mín anclaje (mm) | Espesor máx a fijar (mm) |
|---------------|---------------|----------------------|---------------------|------------------------------|--------------------------|
| 14010064      | FH 10/10 S    | 045030               | 84                  | 50                           | 10                       |
| 14010065      | FH 10/25 S    | 045031               | 99                  | 50                           | 25                       |
| 14010066      | FH 10/50 S    | 045032               | 124                 | 50                           | 50                       |
| 14010067      | FH II 12/10 S | 044884               | 90                  | 60                           | 10                       |
| 14010068      | FH II 12/25 S | 044885               | 105                 | 60                           | 25                       |
| 14010069      | FH II 12/50 S | 044886               | 130                 | 60                           | 50                       |
| 14010070      | FH II 15/10 S | 044887               | 106                 | 70                           | 10                       |
| 14010071      | FH II 15/25 S | 044888               | 121                 | 70                           | 25                       |
| 14010072      | FH II 15/50 S | 044889               | 146                 | 70                           | 50                       |
| 14010073      | FH II 18/10 S | 046847               | 118                 | 80                           | 10                       |
| 14010074      | FH II 18/25 S | 044894               | 132                 | 80                           | 25                       |
| 14010075      | FH II 18/50 S | 044896               | 157                 | 80                           | 50                       |
| 14010076      | FH II 24/25 S | 044898               | 160                 | 125                          | 25                       |
| 14010077      | FH II 24/50 S | 044900               | 185                 | 125                          | 50                       |
| 14010078      | FH II 28/30 S | 044901               | 192                 | 125                          | 30                       |
| 14010079      | FH II 28/60 S | 044902               | 222                 | 125                          | 60                       |
| 14010080      | FH II 32/30 S | 044903               | 215                 | 150                          | 30                       |
| 14010081      | FH II 32/60 S | 044904               | 245                 | 150                          | 60                       |

Disponible en acero inoxidable.



### Anclaje de Expansión a Golpes

| Ref. catálogo | Modelo         | Código acero cincado | Longitud total (mm) | Ø broca (mm) | Profundidad del taladro (mm) |
|---------------|----------------|----------------------|---------------------|--------------|------------------------------|
| 14010082      | EA II M6       | 48264                | 30                  | 8            | 32                           |
| 14010083      | EA II M8       | 48284                | 30                  | 10           | 33                           |
| 14010084      | EA II M8 x 40  | 48323                | 40                  | 10           | 43                           |
| 14010085      | EA II M10 x 30 | 48332                | 30                  | 12           | 33                           |
| 14010086      | EA II M10      | 48339                | 40                  | 12           | 43                           |
| 14010087      | EA II M12      | 48406                | 50                  | 15           | 54                           |

| Ref. catálogo | Modelo      | Código acero cincado | Longitud total (mm) | Ø broca (mm) | Profundidad del taladro (mm) |
|---------------|-------------|----------------------|---------------------|--------------|------------------------------|
| 14010088      | EA II M12 D | 48407                | 50                  | 16           | 54                           |
| 14010089      | EA II M16   | 48408                | 65                  | 20           | 70                           |
| 14010090      | EA II M20   | 48409                | 80                  | 24           | 85                           |

Disponibles en acero inoxidable.



ACERO INOXIDABLE

Cargas máximas admisibles.

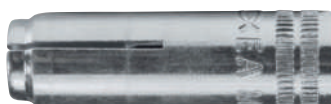
| Código    | Hormigón Comprimido |          | Cargas de rotura  |          |
|-----------|---------------------|----------|-------------------|----------|
|           | Tracción centrada   | Cortante | Tracción centrada | Cortante |
| EA II M6  | -                   | 2,1      | -                 | 6        |
| EA II M8  | 3,1                 | 2,8      | 12,4              | 9,8      |
| EA II M10 | 4,7                 | 4,5      | 18,8              | 11,7     |
| EA II M12 | 6,5                 | 6,7      | 26                | 21,2     |
| EA II M16 | 9,7                 | 11,5     | 38,8              | 31,4     |
| EA II M20 | 13,3                | 18       | 53,2              | 50,3     |

### 2. De Alta Resistencia sin Certificación.

### Anclaje Expansión a Golpes

| Ref. catálogo | Modelo   | Código | Longitud total (mm) | Ø broca (mm) | Profundidad del taladro (mm) |
|---------------|----------|--------|---------------------|--------------|------------------------------|
| 14010091      | EA M6 N  | 90159  | 25                  | 8            | 25                           |
| 14010092      | EA M8N   | 90160  | 30                  | 10           | 30                           |
| 14010093      | EA M10 N | 90161  | 40                  | 12           | 40                           |
| 14010094      | EA M12 N | 90162  | 50                  | 15           | 50                           |
| 14010095      | EA M16 N | 90163  | 65                  | 20           | 65                           |
| 14010096      | EA M20 N | 90164  | 80                  | 25           | 80                           |

| Ref. catálogo | Modelo Bicromatado | Longitud total (mm) | Ø broca (mm) | Rosca |
|---------------|--------------------|---------------------|--------------|-------|
| 14010150      | HENOM06            | 25                  | 8            | M-6   |
| 14010151      | HENOM08            | 30                  | 10           | M-8   |
| 14010152      | HENOM10            | 40                  | 12           | M-10  |
| 14010153      | HENOM12            | 50                  | 15           | M-12  |
| 14010154      | HENOM16            | 65                  | 20           | M-16  |
| 14010155      | HENOM20            | 80                  | 25           | M-20  |



Cargas máximas admisibles.

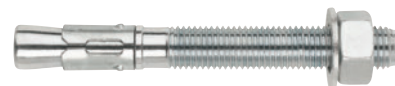
| Código   | Hormigón Comprimido |          | Cargas de rotura  |          |
|----------|---------------------|----------|-------------------|----------|
|          | Tracción centrada   | Cortante | Tracción centrada | Cortante |
| EA M6 N  | -                   | 2,1      | -                 | 6        |
| EA M8N   | 3,1                 | 2,8      | 12,4              | 9,8      |
| EA M10 N | 4,7                 | 4,5      | 18,8              | 11,7     |
| EA M12 N | 6,5                 | 6,7      | 26                | 21,2     |
| EA M16 N | 9,7                 | 11,5     | 38,8              | 31,4     |
| EA M20 N | 13,3                | 18       | 53,2              | 50,3     |

## Anclaje Metálico Estándar



| Ref. catálogo | Modelo            | Código | Longitud total (mm) | Ø broca (mm) | Profundidad del taladro (mm) | Espesor máx a fijar |
|---------------|-------------------|--------|---------------------|--------------|------------------------------|---------------------|
| 14010118      | FSL M6 x 45 D8    | 45650  | 45                  | 8            | 55                           | 2                   |
| 14010119      | FSL M6 x 60 D8    | 45759  | 60                  | 8            | 70                           | 15                  |
| 14010120      | FSL M6 x 45 D9    | 45760  | 45                  | 9            | 55                           | 2                   |
| 14010121      | FSL M6 x 60 D9    | 45651  | 60                  | 9            | 70                           | 15                  |
| 14010122      | FSL M8 x 60 D10   | 45652  | 60                  | 10           | 70                           | 5                   |
| 14010123      | FSL M8 x 80 D10   | 45653  | 80                  | 10           | 90                           | 15                  |
| 14010124      | FSL M8 x 60 D11   | 45761  | 60                  | 11           | 70                           | 5                   |
| 14010125      | FSL M8 x 80 D11   | 45763  | 80                  | 11           | 90                           | 15                  |
| 14010126      | FSL M10 x 70 D12  | 45654  | 70                  | 12           | 80                           | 2                   |
| 14010127      | FSL M10 x 100 D12 | 45655  | 100                 | 12           | 110                          | 25                  |
| 14010128      | FSL M10 x 70 D14  | 45764  | 70                  | 14           | 80                           | 2                   |
| 14010129      | FSL M10 x 100 D14 | 45765  | 100                 | 14           | 110                          | 25                  |
| 14010130      | FSL M12 x 80 D16  | 45656  | 80                  | 16           | 95                           | 2                   |
| 14010131      | FSL M12 x 110 D16 | 45657  | 110                 | 16           | 125                          | 25                  |
| 14010132      | FSL M16 x 110 D20 | 45658  | 110                 | 20           | 130                          | 15                  |
| 14010133      | FSL M20 x 130 D25 | 45659  | 130                 | 25           | 155                          | 25                  |

## Anclaje Zincado



Anclaje Macho para cargas altas.

| Ref. catálogo | Código  | Medidas   | Ref. catálogo | Código  | Medidas    | Ref. catálogo | Código  | Medidas    |
|---------------|---------|-----------|---------------|---------|------------|---------------|---------|------------|
| 14010097      | AM06045 | M-6 x 45  | 14010117      | AM08155 | M-8 x 155  | 14010169      | AM14170 | M-14 x 170 |
| 14010098      | AM06060 | M-6 x 60  | 14010150      | AM10070 | M-10 x 70  | 14010170      | AM14220 | M-14 x 220 |
| 14010099      | AM06070 | M-6 x 70  | 14010151      | AM10090 | M-10 x 90  | 14010171      | AM14250 | M-14 x 250 |
| 14010100      | AM06080 | M-6 x 80  | 14010152      | AM10120 | M-10 x 120 | 14010172      | AM16090 | M-16 x 90  |
| 14010101      | AM06090 | M-6 x 90  | 14010153      | AM10150 | M-10 x 150 | 14010173      | AM16125 | M-16 x 125 |
| 14010102      | AM06100 | M-6 x 100 | 14010154      | AM10170 | M-10 x 170 | 14010174      | AM16145 | M-16 x 145 |
| 14010103      | AM06110 | M-6 x 110 | 14010155      | AM10210 | M-10 x 210 | 14010175      | AM16170 | M-16 x 170 |
| 14010104      | AM06120 | M-6 x 120 | 14010156      | AM10230 | M-10 x 230 | 14010176      | AM16220 | M-16 x 220 |
| 14010105      | AM06130 | M-6 x 130 | 14010157      | AM12075 | M-12 x 75  | 14010177      | AM16250 | M-16 x 250 |
| 14010106      | AM06140 | M-6 x 140 | 14010158      | AM12090 | M-12 x 90  | 14010178      | AM16280 | M-16 x 280 |
| 14010107      | AM06150 | M-6 x 150 | 14010159      | AM12110 | M-12 x 110 | 14010179      | AM20120 | M-20 x 120 |
| 14010108      | AM06160 | M-6 x 160 | 14010160      | AM12140 | M-12 x 140 | 14010180      | AM20170 | M-20 x 170 |
| 14010109      | AM06170 | M-6 x 170 | 14010161      | AM12160 | M-12 x 160 | 14010181      | AM20220 | M-20 x 220 |
| 14010110      | AM06180 | M-6 x 180 | 14010162      | AM12180 | M-12 x 180 | 14010182      | AM20270 | M-20 x 270 |
| 14010111      | AM08050 | M-8 x 50  | 14010163      | AM12220 | M-12 x 220 | 14010183      | AM24180 | M-24 x 180 |
| 14010112      | AM08060 | M-8 x 60  | 14010164      | AM12250 | M-12 x 250 | 14010184      | AM24260 | M-24 x 260 |
| 14010113      | AM08075 | M-8 x 75  | 14010165      | AM14080 | M-14 x 80  |               |         |            |
| 14010114      | AM08090 | M-8 x 90  | 14010166      | AM14100 | M-14 x 100 |               |         |            |
| 14010115      | AM08115 | M-8 x 115 | 14010167      | AM14120 | M-14 x 120 |               |         |            |
| 14010116      | AM08130 | M-8 x 130 | 14010168      | AM14145 | M-14 x 145 |               |         |            |

## Anclaje Zincado Antigiro



Tornillo hexagonal calidad 6.8

| Ref. catálogo | Código  | Medidas  | Ø mm | Ref. catálogo | Código  | Medidas    | Ø mm |
|---------------|---------|----------|------|---------------|---------|------------|------|
| 14010134      | ACHT08C | M-6 x 45 | 8    | 14010142      | ACHT12C | M-10 x 70  | 12   |
| 14010135      | ACHT08L | M-6 x 60 | 8    | 14010143      | ACHT12L | M-10 x 100 | 12   |
| 14010136      | ACHT09C | M-6 x 45 | 9    | 14010144      | ACHT14C | M-10 x 70  | 14   |
| 14010137      | ACHT09L | M-6 x 60 | 9    | 14010145      | ACHT14L | M-10 x 100 | 14   |
| 14010138      | ACHT10C | M-8 x 60 | 10   | 14010146      | ACHT16C | M-12 x 80  | 16   |
| 14010139      | ACHT10L | M-8 x 80 | 10   | 14010147      | ACHT16L | M-12 x 110 | 16   |
| 14010140      | ACHT11C | M-8 x 60 | 11   | 14010148      | ACHT20C | M-16 x 110 | 20   |
| 14010141      | ACHT11L | M-8 x 80 | 11   | 14010149      | ACHT20L | M-20 x 130 | 25   |