

TASSELLI LEGGERI > LIGHT LOADS ANCHORS  
CHEVILLES CHARGES LEGERES > DÜBELLEICHELASTEN



# LIGHT ANCHORS

TASSELLI PER MATERIALI FORATI E ISOLANTI



## JNS-PLUS



## JNS-P



## JNH-CE



## IS



## JNL



sistemi di fissaggio  
**BOSSONG**  
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SISTEMI DI FISSAGGIO



OPTION 7 - 1  
SEISMIC C1-C2  
ETAG 020 - 014  
FIRE





# JNS-PLUS

TASSELLI PROLUNGATI  
FRAME PLUG  
FIXATIONS RALONGÉES  
LANGE BEFESTIGUNGEN



**JNS-PLUS**



**JNS-PLUS X4**



**JNS-PLUS TE**



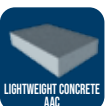
**JNS-PLUS TE X4**



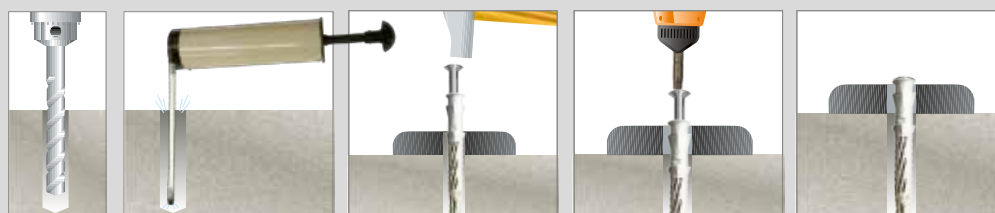
**JNS-PLUS TX**



## Applicazioni | Applications | Applications | Anwendungen



PROCEDURA DI INSTALLAZIONE  
INSTALLATION PROCEDURE  
PROCÉDURE D'INSTALLATION  
INSTALLATIONSVERFAHREN





## JNS-PLUS



**Avvitamento**, testa svasata. Per forato  
**Screwing**, countersunk washer. For hollow materials  
**Vissage**, tête évasée. Pour matériaux creux  
**Anschrauben**, Senkkopf. Für Lochmaterialien

Ø 8 T30  
 Ø 10 T40

## JNS-PLUS TE



**Avvitamento**, vite testa esagonale. Per forato  
**Screwing**, screw exagonal head. For hollow materials  
**Vissage**, vis tête hexagonal. Pour matériaux creux  
**Anschrauben**, Sechseck Kopf. Für Lochmaterialien

Ø 8 T30  
 Ø 10 T40

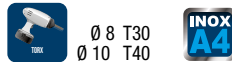
KU1

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|--|--|-----|
|                                  | JNS-PLUS                            | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]  | Nr. |
| 701700                           | JNS-PLUS 8x80                       | 8  | 80   | 10   | 100 |
| 701701                           | JNS-PLUS 8x100                      | 8  | 100  | 30   | 50  |
| 701702                           | JNS-PLUS 8x120                      | 8  | 120  | 50   | 50  |
| 701703                           | JNS-PLUS 8x140                      | 8  | 140  | 70   | 50  |
| 701704                           | JNS-PLUS 10x80                      | 10   | 80   | 10   | 50  |
| 701705                           | JNS-PLUS 10x100                     | 10   | 100  | 30   | 50  |
| 701706                           | JNS-PLUS 10x120                     | 10   | 120  | 50   | 50  |
| 701707                           | JNS-PLUS 10x140                     | 10   | 140  | 70   | 50  |
| 701708                           | JNS-PLUS 10x160                     | 10   | 160  | 90   | 50  |
| 701709                           | JNS-PLUS 10x200                     | 10   | 200  | 130  | 50  |
| 701710                           | JNS-PLUS 10x230                     | 10   | 230  | 160  | 25  |

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|--|--|-----|
|                                  | JNS-PLUS-TE                         | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]  | Nr. |
| 701715                           | JNS-PLUS-TE 10x80                   | 10   | 80   | 10   | 50  |
| 701716                           | JNS-PLUS-TE 10x100                  | 10   | 100  | 30   | 50  |
| 701717                           | JNS-PLUS-TE 10x120                  | 10   | 120  | 50   | 50  |
| 701718                           | JNS-PLUS-TE 10x140                  | 10   | 140  | 70   | 25  |
| 701719                           | JNS-PLUS-TE 10x160                  | 10   | 160  | 90   | 25  |
| 701720                           | JNS-PLUS-TE 10x200                  | 10   | 200  | 130  | 25  |
| 701721                           | JNS-PLUS-TE 10x230                  | 10   | 230  | 160  | 25  |

KU4

## JNS-PLUS X4



Ø 8 T30  
 Ø 10 T40

KU2

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|--|--|-----|
|                                  | JNS-PLUS X4                         | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]  | Nr. |
| 701400                           | JNS-PLUS X4 8x80                    | 8  | 80   | 10   | 100 |
| 701401                           | JNS-PLUS X4 8x100                   | 8  | 100  | 30   | 50  |
| 701402                           | JNS-PLUS X4 8x120                   | 8  | 120  | 50   | 50  |
| 701403                           | JNS-PLUS X4 8x140                   | 8  | 140  | 70   | 50  |
| 701404                           | JNS-PLUS X4 10x80                   | 10   | 80   | 10   | 50  |
| 701405                           | JNS-PLUS X4 10x100                  | 10   | 100  | 30   | 50  |
| 701406                           | JNS-PLUS X4 10x120                  | 10   | 120  | 50   | 50  |
| 701407                           | JNS-PLUS X4 10x140                  | 10   | 140  | 70   | 50  |
| 701408                           | JNS-PLUS X4 10x160                  | 10   | 160  | 90   | 50  |
| 701409                           | JNS-PLUS X4 10x200                  | 10   | 200  | 130  | 50  |
| 701410                           | JNS-PLUS X4 10x230                  | 10   | 230  | 160  | 25  |

## JNS-PLUS TE X4



Ø 8 T30  
 Ø 10 T40

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|--|--|-----|
|                                  | JNS-PLUS-TE X4                      | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]  | Nr. |
| 701450                           | JNS-PLUS-TE X4 8x80                 | 8  | 80   | 10   | 100 |
| 701451                           | JNS-PLUS-TE X4 8x100                | 8  | 100  | 30   | 50  |
| 701452                           | JNS-PLUS-TE X4 8x120                | 8  | 120  | 50   | 50  |
| 701453                           | JNS-PLUS-TE X4 8x140                | 8  | 140  | 70   | 50  |
| 701454                           | JNS-PLUS-TE X4 10x80                | 10   | 80   | 10   | 50  |
| 701455                           | JNS-PLUS-TE X4 10x100               | 10   | 100  | 30   | 50  |
| 701456                           | JNS-PLUS-TE X4 10x120               | 10   | 120  | 50   | 50  |
| 701457                           | JNS-PLUS-TE X4 10x140               | 10   | 140  | 70   | 25  |
| 701458                           | JNS-PLUS-TE X4 10x160               | 10   | 160  | 90   | 25  |
| 701459                           | JNS-PLUS-TE X4 10x200               | 10   | 200  | 130  | 25  |
| 701460                           | JNS-PLUS-TE X4 10x230               | 10   | 230  | 160  | 25  |

KU5

## JNS-PLUS TX



**Avvitamento**, vite testa bombata. Per forato  
**Screwing**, rounded head. For hollow materials  
**Vissage**, vis tête arrondie. Pour matériaux creux  
**Anschrauben**, abgerundeter Kopf. Für Lochmaterialien

T40

KU3

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|--|--|-----|
|                                  | JNS-PLUS-TX                         | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]  | Nr. |
| 701724                           | JNS-PLUS-TX 10x80                   | 10   | 80   | 10   | 50  |
| 701725                           | JNS-PLUS-TX 10x100                  | 10   | 100  | 30   | 50  |
| 701726                           | JNS-PLUS-TX 10x120                  | 10   | 120  | 50   | 50  |
| 701727                           | JNS-PLUS-TX 10x140                  | 10   | 140  | 70   | 25  |
| 701728                           | JNS-PLUS-TX 10x160                  | 10   | 160  | 90   | 25  |
| 701729                           | JNS-PLUS-TX 10x200                  | 10   | 200  | 130  | 25  |





## Dati carico | Load data | Données de charge | Lastdaten

**LEGEND**

$F_{rec}$  [kN] Carico ammissibile  
Admissible load  
Charge admissible  
Zulässige Lasten

- > Carichi validi per singolo ancorante senza influenza di interasse e distanza dal bordo e  $h \geq 2h_{ef}$
- > Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2h_{ef}$
- > Charges valables pour chaque ancrage sans influence d'interaxe et distance du bord et  $h \geq 2h_{ef}$
- > Passende Ringe für den einzelnen Veranker, ohne Achsenabstandseinfluss und des Randabstands und  $h \geq 2h_{ef}$
- > 1kN = 100 Kg

- > Azione di taglio non diretta verso il bordo
- > Shear directed away from the edge
- > Action de cisaillement pas dirigée vers le bord
- > Queraktion nicht an den Rand gerichtet

- > Coefficiente di sicurezza globale incluso
- > General safety factor included
- > Coefficient de sécurité generale inclu
- > Generelle Sicherheitskoeffizient inbegriffen

- > Coefficiente lato carichi utilizzato = 1,4
- > Load increasing safety coefficient used = 1,4
- > Coefficient côté charge utilisé = 1,4
- > Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4



| MATERIALE BASE<br>BASE MATERIAL   |  | JNS PLUS 8                            | JNS PLUS 10                           |
|---|--|---------------------------------------|---------------------------------------|
|   |  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD |
|   |  | $F_{rec}$ [kN]                        | $F_{rec}$ [kN]                        |
|  | <b>Calcestruzzo Fessurato e Non Fessurato</b><br><b>Cracked and Non-Cracked Concrete</b><br>$\geq C16/20$  | 1,38                                  | 1,78                                  |
|  | <b>Mattone pieno secondo EN 771-1:2011</b><br><b>Mattone pieno 110x60x240 "Danesi"</b><br><b>Solid brick</b>   | 0,85                                  | 0,57                                  |
|  | <b>Mattone pieno secondo EN 771-1:2011</b><br><b>Mattone pieno 250x120x55 "Terreal Italia"</b><br><b>Solid brick</b>   | 1,14                                  | 1,42                                  |
|  | <b>Tufo vulcanico in accordo a EN 771-3:2011</b><br><b>Fior di tufo 370x370x110 "Cave riunite"</b><br><b>Solid brick</b>   | -                                     | 0,08                                  |
|  | <b>Mattone pieno secondo, EN 771-2:2011</b><br><b>Kalksandsteine KS-Plansteine KS-R(P)-20-2,0-8DF (240)</b><br><b>"Heidelberger-Kalksandstein"</b><br><b>Solid brick</b> | 1,57                                  | 1,71                                  |
|  | <b>Mattone forato, secondo. EN 771-1:2011</b><br><b>Doppio doppio UNI 120x245x250 "Danesi"</b><br><b>Hollow brick</b>  | -                                     | 0,08                                  |
|  | <b>Mattone forato, secondo. EN 771-1:2011</b><br><b>Forati 120x250x250 "Wienerberger"</b><br><b>Hollow brick</b>   | 0,08                                  | -                                     |
|  | <b>Mattone forato, secondo. EN 771-1:2011</b><br><b>Poroton-Hochlochziegel-Block-T-24,0-0,9 L "Wienerberger"</b><br><b>Hollow brick</b>                                  | 0,25                                  | 0,25                                  |
|  | <b>Mattone forato, secondo EN 771-1:2011</b><br><b>Poroton-Kleinformat HzB- 2DF -0,9 "Wienerberger"</b><br><b>Hollow brick</b>   | 0,25                                  | 0,25                                  |
|  | <b>Mattone forato (silicato di calcio) secondo EN 771-2:2011</b><br><b>"Heidelberger-Kalksandstein" KS-L</b><br><b>Hollow brick</b>                                      | 1,43                                  | 1,57                                  |
|  | <b>Calcestruzzo AAC (fb = 3,5 MPa)</b><br><b>secondo EN 771-4: 2011</b><br><b>Lightweight concrete</b>   | 0,18                                  | 0,21                                  |



# JNS

TASSELLI PROLUNGATI  
FRAME PLUG  
FIXATIONS RALONGÉES  
LANGE BEFESTIGUNGEN



JNS-P   

JNS-P X2  



KP R-FAST  



JNS-FOR XB / TE / TX  

JNS-FOR-XBX4 



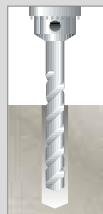
JNI-MET  

## Applicazioni | Applications | Applications | Anwendungen

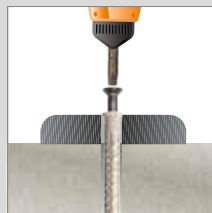
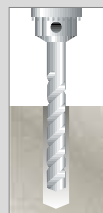


PROCEDURA DI INSTALLAZIONE  
INSTALLATION PROCEDURE  
PROCÉDURE D'INSTALLATION  
INSTALLATIONSVERFAHREN

### JNS-P



PROCEDURA DI INSTALLAZIONE  
INSTALLATION PROCEDURE  
PROCÉDURE D'INSTALLATION  
INSTALLATIONSVERFAHREN





Percussione, testa svasata > Hammering countersunk head  
À percussion, tête fraisée > Schlagschraube mit Senkkopf

KAT

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESSORE FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE | Nr. |
|----------------------------------|-------------------------------------|--|--|---|-----|
| JNS-P                            |                                     |  |  |   |     |
|                                  |                                     | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]   |     |
| 701658                           | JNS-P 6 x 40                        | 6  | 40   | 10  | 200 |
| 701660                           | JNS-P 6 x 60                        | 6  | 60   | 30  | 200 |
| 701800                           | JNS-P 6 x 80                        | 6  | 80   | 50  | 200 |
| 701860                           | JNS-P 8 x 60                        | 8  | 60   | 20  | 100 |
| 701880                           | JNS-P 8 x 80                        | 8  | 80   | 40  | 100 |
| 701810                           | JNS-P 8 x 100                       | 8  | 100  | 60  | 100 |
| 701812                           | JNS-P 8 x 120                       | 8  | 120  | 80  | 100 |
| 701814                           | JNS-P 8 x 140                       | 8  | 140  | 100   | 50  |
| 701818                           | JNS-P 8 x 160 *                     | 8  | 160  | 120   | 50  |
| 701819                           | JNS-P 10 x 80                       | 10   | 80   | 30  | 100 |
| 701820                           | JNS-P 10 x 100                      | 10   | 100  | 50  | 50  |
| 701821                           | JNS-P 10 x 120                      | 10   | 120  | 70  | 50  |
| 701822                           | JNS-P 10 x 140                      | 10   | 140  | 90  | 50  |
| 701823                           | JNS-P 10 x 160                      | 10   | 160  | 110   | 50  |
| 701824                           | JNS-P 10 x 180 *                    | 10   | 180  | 130   | 50  |
| 701825                           | JNS-P 10 x 200 *                    | 10   | 200  | 150   | 50  |
| 701826                           | JNS-P 10 x 220 *                    | 10   | 220  | 170   | 50  |

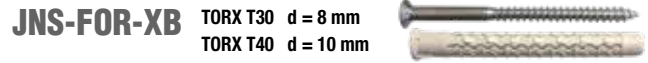
(\*) Tasselli senza omologazione ETA-CE > Light loads without ETA-CE approval  
Chevilles sans approbation ETE-CE > Dübelleichtlasten ohne ETA-CE-Zulassung



Percussione, testa svasata > Hammering countersunk head  
À percussion, tête fraisée > Schlagschraube mit Senkkopf

KAT

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr. |
|----------------------------------|-------------------------------------|-----------------------|--------|-----------------------|-----|
| JNS-P X2                         |                                     |                       |        |                       |     |
| 701663                           | JNS-P X2 6 x 40                     | 6                     | 40     | 10                    | 200 |
| 701664                           | JNS-P X2 6 x 60                     | 6                     | 60     | 30                    | 200 |
| 701665                           | JNS-P X2 6 x 80                     | 6                     | 80     | 50                    | 200 |
| 701666                           | JNS-P X2 8 x 60                     | 8                     | 60     | 20                    | 100 |
| 701667                           | JNS-P X2 8 x 80                     | 8                     | 80     | 40                    | 100 |
| 701668                           | JNS-P X2 8 x 100                    | 8                     | 100    | 60                    | 100 |



Avvitamento, vite TORX, testa svasata. Per forato  
Screwing, TORX, screw countersunk head: For hollow materials  
Vissage, vis TORX, tête fraisée. Pour matériaux creux  
Anschrauben, Senkkopf TORX. Für Lochmaterialien



KAT

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESSORE FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE | Nr. |
|----------------------------------|-------------------------------------|--|--|---|-----|
| JNS-FOR-XB                       |                                     |  |  |   |     |
|                                  |                                     | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]   |     |
| 701500                           | JNS-FOR-XB 6 x 60*                  | 6  | 60   | 20  | 100 |
| 701501                           | JNS-FOR-XB 8 x 80                   | 8  | 80   | 10  | 100 |
| 701502                           | JNS-FOR-XB 8 x 100                  | 8  | 100  | 30  | 100 |
| 701503                           | JNS-FOR-XB 8 x 120                  | 8  | 120  | 50  | 100 |
| 701504                           | JNS-FOR-XB 8 x 140                  | 8  | 140  | 70  | 50  |
| 701505                           | JNS-FOR-XB 8 x 170                  | 8  | 170  | 100   | 50  |
| 701506                           | JNS-FOR-XB 8 x 200                  | 8  | 200  | 125   | 50  |
| 701507                           | JNS-FOR-XB 10 x 80                  | 10   | 80   | 10  | 50  |
| 701508                           | JNS-FOR-XB 10 x 100                 | 10   | 100  | 30  | 50  |
| 701509                           | JNS-FOR-XB 10 x 120                 | 10   | 120  | 50  | 50  |
| 701510                           | JNS-FOR-XB 10 x 140                 | 10   | 140  | 70  | 50  |
| 701511                           | JNS-FOR-XB 10 x 160                 | 10   | 160  | 90  | 50  |
| 701512                           | JNS-FOR-XB 10 x 200                 | 10   | 200  | 130   | 50  |
| 701513                           | JNS-FOR-XB 10 x 240                 | 10   | 240  | 170   | 25  |
| 701514                           | JNS-FOR-XB 10 x 260                 | 10   | 260  | 190   | 25  |

(\*) Pozidrive > Pozidrive > Pozidriv > Pozidriv



KAT

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr. |
|----------------------------------|-------------------------------------|-----------------------|--------|-----------------------|-----|
| JNS-FOR-XB4                      |                                     |                       |        |                       |     |
| 701521                           | JNS-FOR-XB4 8 x 80                  | 8                     | 80     | 10                    | 100 |
| 701522                           | JNS-FOR-XB4 8 x 100                 | 8                     | 100    | 30                    | 100 |
| 701523                           | JNS-FOR-XB4 8 x 120                 | 8                     | 120    | 50                    | 100 |



Avvitamento, vite testa esagonale. Per forato  
Screwing, screw exagonal head. For hollow materials  
Vissage, vis tête hexagonale. Pour matériaux creux  
Anschrauben, Sechseck Kopf. Für Lochmaterialien



KAT

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr. |
|----------------------------------|-------------------------------------|-----------------------|--------|-----------------------|-----|
| JNS-FOR-TE                       |                                     |                       |        |                       |     |
| 701846                           | JNS-FOR-TE 10 x 80                  | 10                    | 80     | 10                    | 50  |
| 701847                           | JNS-FOR-TE 10 x 100                 | 10                    | 100    | 30                    | 50  |
| 701848                           | JNS-FOR-TE 10 x 120                 | 10                    | 120    | 50                    | 50  |
| 701849                           | JNS-FOR-TE 10 x 140                 | 10                    | 140    | 70                    | 50  |
| 701850                           | JNS-FOR-TE 10 x 160                 | 10                    | 160    | 90                    | 50  |



Avvitamento, vite testa bombata. Per forato  
Screwing, rounded head. For hollow materials  
Vissage, vis tête arrondie. Pour matériaux creux  
Anschrauben, abgerundeter Kopf. Für Lochmaterialien



KAT

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr. |
|----------------------------------|-------------------------------------|-----------------------|--------|-----------------------|-----|
| JNS-FOR-TX                       |                                     |                       |        |                       |     |
| 701851                           | JNS-FOR-TX 10 x 80                  | 10                    | 80     | 10                    | 50  |
| 701852                           | JNS-FOR-TX 10 x 100                 | 10                    | 100    | 30                    | 50  |
| 701853                           | JNS-FOR-TX 10 x 120                 | 10                    | 120    | 50                    | 50  |
| 701854                           | JNS-FOR-TX 10 x 140                 | 10                    | 140    | 70                    | 50  |
| 701857                           | JNS-FOR-TX 10 x 160                 | 10                    | 160    | 90                    | 50  |



## KP R-FAST




Testa esagonale > exagonal head > tête hexagonale > Sechseck Kopf



TORX T40

KAF


| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LANGE | SPESSORE FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |  |
|----------------------------------|-------------------------------------|--|--|---|---|
| KP R-FAST                        |                                     | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]   | Nr.   |
| 701688                           | KPR-FAST 12 x 80                    | 12   | 80   | 10  | 50  |
| 701689                           | KPR-FAST 12 x 100                   | 12   | 100  | 30  | 50  |
| 701690                           | KPR-FAST 12 x 120                   | 12   | 120  | 50  | 50  |
| 701691                           | KPR-FAST 12 x 140                   | 12   | 140  | 70  | 50  |
| 701692                           | KPR-FAST 12 x 160                   | 12   | 160  | 90  | 25  |
| 701693                           | KPR-FAST 12 x 180                   | 12   | 180  | 110   | 25  |
| 701694                           | KPR-FAST 12 x 200                   | 12   | 200  | 130   | 25  |
| 701695                           | KPR-FAST 12 x 230                   | 12   | 230  | 160   | 25  |
| 701696                           | KPR-FAST 12 x 260                   | 12   | 260  | 190   | 25  |
| 701697                           | KPR-FAST 12 x 300                   | 12   | 300  | 230   | 25  |
| 701698                           | KPR-FAST 12 x 330                   | 12   | 330  | 260   | 25  |
| 701699                           | KPR-FAST 12 x 360                   | 12   | 360  | 290   | 25  |

## JNI-MET



Tassello per infissi > Anchor for frames > Pour batis > Für Fenster und Türflügel

LA8

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LANGE | SPESSORE FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |  |
|----------------------------------|-------------------------------------|--|--|---|---|
| JNI-MET                          |                                     | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]   | Nr.   |
| 695340                           | JNI-MET 8x72                        | 8  | 72   | 22  | 100   |
| 695341                           | JNI-MET 8x92                        | 8  | 92   | 42  | 100   |
| 695342                           | JNI-MET 8x112                       | 8  | 112  | 62  | 100   |
| 701730                           | JNI-MET 10x72                       | 10   | 72   | 22  | 100   |
| 701731                           | JNI-MET 10x92                       | 10   | 92   | 42  | 100   |
| 701732                           | JNI-MET 10x112                      | 10   | 112  | 62  | 100   |
| 701733                           | JNI-MET 10x132                      | 10   | 132  | 82  | 100   |
| 701734                           | JNI-MET 10x152                      | 10   | 152  | 102   | 100   |
| 701735                           | JNI-MET 10x182                      | 10   | 182  | 132   | 50  |
| 701736                           | JNI-MET 10x202                      | 10   | 202  | 152   | 50  |
| 701739                           | CC JNI B ○                          | Copricalotta colorato bianco > white             |  |   | 100   |
| 701740                           | CC JNI M ●                          | Copricalotta colorato marrone > brown            |  |   | 100   |

⚠ Su richiesta > On demand > Sur demande > Auf Wunsch

## Dati carico | Load data | Données de charge | Lastdaten

**LEGEND**

F<sub>rec</sub> [kN] Carico ammissibile  
Admissible load  
Charge admissible  
Zulässige Lasten

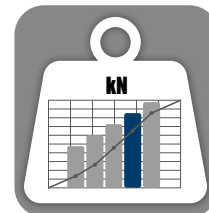
> Carichi validi per singolo ancorante senza influenza di interasse e distanza dal bordo e h ≥ 2hef  
> Loads for single anchor with no influence of spacing and edge distance and with h ≥ 2hef  
> Charges valables pour chaque ancrage sans influence d'interaxe et distance du bord et h ≥ 2hef  
> Passende Ringe für den einzelnen Veranker, ohne Achsenabstandseinfluss und des Randabstands und h ≥ 2hef




> 1kN = 100 Kg

> Azione di taglio non diretta verso il bordo  
> Shear directed away from the edge  
> Action de cisaillement pas dirigée vers le bord  
> Queraktion nicht an den Rand gerichtet

> Coefficiente di sicurezza globale incluso  
> General safety factor included  
> Coefficient de sécurité generale inclu  
> Generelle Sicherheitskoeffizient inbegriffen

> Coefficiente lato carichi utilizzato = 1,4  
> Load increasing safety coefficient used = 1,4  
> Coefficient côté charge utilisé = 1,4  
> Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4



| ARTICOLO<br>ITEM | Calcestruzzo non fessurato<br>Non cracked Concrete<br>Beton non fissuré<br>Ungerissener Beton |      | Mattone pieno<br>Solid Brick<br>Brique pleine<br>Vollmauerwerk |      | Materiale forato<br>Hollow Material<br>Material creux<br>Lochziegel Material |      |
|------------------|---|------|--|------|--|------|
|                  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   |      | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                          |      | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD  |      |
|                  | F <sub>rec</sub> [kN]   |      | F <sub>rec</sub> [kN]  |      | F <sub>rec</sub> [kN]  |      |
| JNS-P 6          |            | 0,29 |  | 0,27 |  | -    |
| JNS-P 8          |            | 0,54 |  | 0,29 |  | -    |
| JNS-P 10         |            | 0,54 |  | 0,54 |  | -    |
| JNS-FOR-XB 8     |   | 0,80 |  | 0,40 |  | 0,15 |
| JNS-FOR-XB 10    |   | 1,20 |  | 0,70 |  | 0,20 |
| JNS-FOR-TE 10    |   | 1,20 |  | 0,70 |  | 0,20 |
| JNS-FOR-TX 10    |   | 1,20 |  | 0,70 |  | 0,20 |
| KP R-FAST        |   | 1,90 |  | 1,00 |  | 0,50 |
| JNI MET 8        |   | 0,70 |  | 0,60 |  | -    |
| JNI MET 10       |   | 1,10 |  | 1,00 |  | -    |





**JNL**

PER LATTONERIA > FOR TILLING  
POUR FERBLATERIE > FÜR BLECHARBEITEN



**JNL-BOI**



**JNL-BOR**



**JNL-BOTDM**



**JNL-BOBG**



**JN**

**JNL**



**BNL-EC**



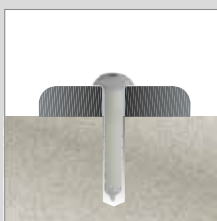
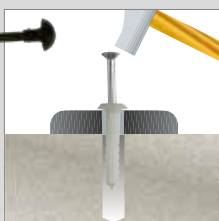
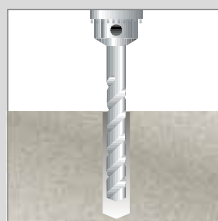
**JNH-CE**

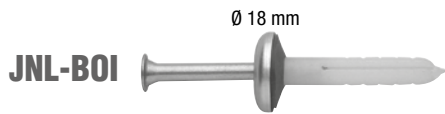


**Applicazioni | Applications | Applications | Anwendungen**



PROCEDURA DI INSTALLAZIONE  
INSTALLATION PROCEDURE  
PROCÉDURE D'INSTALLATION  
INSTALLATIONSVERFAHREN





Con vite e borchia INOX > With screw and stud STAINLESS STEEL  
Avec vis et bossette ACIER INOX > Mit EDELSTAHL-Schraube und Buckel



KB1

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LANGE | SPESORE<br>FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|--|---|-----|
|                                  | <b>JNL-BOI</b>                      | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]   | Nr. |
| 701652                           | JNL 30 BOI inox                     | 6  | 30   | 1,2   | 200 |
| 701654                           | JNL 40 BOI inox                     | 6  | 40   | 5   | 200 |
| 701655                           | JNL 50 BOI inox                     | 6  | 50   | 15  | 200 |
| 701656                           | JNL 60 BOI inox                     | 6  | 60   | 25  | 200 |
| 701661                           | JNL 80 BOI inox                     | 6  | 80   | 45  | 200 |
| 701662                           | JNL 100 BOI inox                    | 6  | 100  | 65  | 200 |

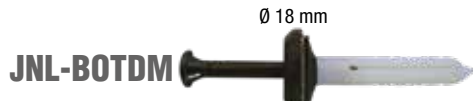


Con vite e borchia RAME > With screw and stud Copper  
Avec vis et bossette CUIVRE > Mit Kupper-Schraube und Buckel



KB1

|        | <b>JNL-BOR</b>    | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr. |
|--------|-------------------|-----------------------|--------|-----------------------|-----|
| 701642 | JNL 30 BOR rame   | 6                     | 30     | 1,2                   | 200 |
| 701644 | JNL 40 BOR copper | 6                     | 40     | 5                     | 200 |
| 701645 | JNL 50 BOR cuivre | 6                     | 50     | 15                    | 200 |
| 701646 | JNL 60 BOR Kupper | 6                     | 60     | 25                    | 200 |
| 701648 | JNL 80 BOR rame   | 6                     | 80     | 40                    | 200 |

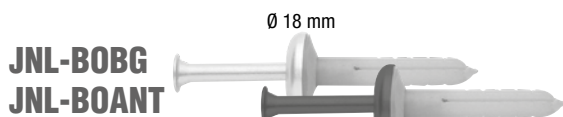


Con vite e borchia testa di moro > With screw and stud browned head  
Avec vis et bossette tete de negre > Mit Dunkelbraunen Schraube und Buckel



KB1

|        | <b>JNL-BOTDM</b> | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr. |
|--------|------------------|-----------------------|--------|-----------------------|-----|
| 701653 | JNL 30 BOTDM     | 6                     | 30     | 1,2                   | 200 |
| 701649 | JNL 40 BOTDM     | 6                     | 40     | 5                     | 200 |
| 701650 | JNL 50 BOTDM     | 6                     | 50     | 15                    | 200 |
| 701651 | JNL 60 BOTDM     | 6                     | 60     | 25                    | 200 |
| 701640 | JNL 80 BOTDM     | 6                     | 80     | 45                    | 200 |
| 701641 | JNL 100 BOTDM    | 6                     | 100    | 65                    | 200 |

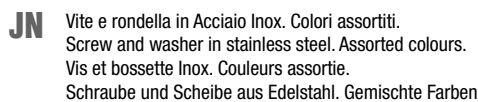


Con vite e borchia bianco grigio / antracite > With screw and stud white gray / black head  
Avec vis et bossette blanc gris / noir > Mit Weisser und Grauer / Schwarz Schraube und Buckel



KB1

|        | <b>JNL-BOBG</b> | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr. |
|--------|-----------------|-----------------------|--------|-----------------------|-----|
| 701639 | JNL 40 BOBG     | 6                     | 40     | 5                     | 200 |
| 701643 | JNL 60 BOBG     | 6                     | 60     | 5                     | 200 |
| 701637 | JNL 40 BOANT    | 6                     | 40     | 5                     | 200 |



Vite e rondella in Acciaio Inox. Colori assortiti.  
Screw and washer in stainless steel. Assorted colours.  
Vis et bossette Inox. Couleurs assortie.  
Schraube und Scheibe aus Edelstahl. Gemischte Farben



KB4

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LANGE | SPESORE<br>FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|--|---|-----|
|                                  | <b>JN</b>                           | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]   | Nr. |
| 701670                           | JN 38 RI                            | 6  | 38   | 4   | 200 |
| 701671                           | JN 38 RI R                          | 6  | 38   | 4   | 200 |
| 701672                           | JN 38 RI TDM                        | 6  | 38   | 4   | 200 |
| 701673                           | JN 38 RI BG                         | 6  | 38   | 4   | 200 |



| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE<br>SCREW<br>VIS<br>SCHRAUBE | TASSELLO PLASTICO<br>PLASTIC SLEEVE<br>CHEVILLE<br>PLASTIQUE<br>PLASTIKDÜBEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA<br>TOTALE<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LANGE | SPESORE<br>FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |      |
|----------------------------------|-------------------------------------|----------------------------------|--|--|---|---|------|
|                                  | <b>JNL</b>                          |                                  | colore   | d <sub>nom</sub> [mm]                            | L [mm]  | t <sub>fix</sub> [mm]   | Nr.  |
| 701602                           | JNL 5/25 B                          |                                  | ○  | 5  | 25  | 1,2   | 2000 |
| 701603                           | JNL 25 B                            |                                  | ○  | 6  | 25  | 1,2   | 1000 |
| 701604                           | JNL 40 B                            |                                  | ○  | 6  | 40  | 10  | 1000 |
| 701605                           | JNL 50 B                            |                                  | ○  | 6  | 50  | 20  | 200  |
| 701606                           | JNL 60 B                            |                                  | ○  | 6  | 60  | 30  | 200  |
| 701607                           | JNL 80 B                            |                                  | ○  | 6  | 80  | 50  | 200  |
| 701608                           | JNL 100 B                           |                                  | ○  | 6  | 100   | 70  | 200  |

KB2



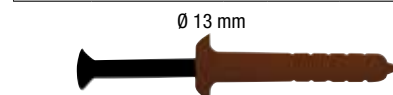
|        | <b>BNL-EC</b> | colore | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr. |
|--------|---------------|--------|-----------------------|--------|-----------------------|-----|
| 701594 | BNL-EC 6X40   | ○      | 6                     | 40     | 10                    | 200 |
| 701595 | BNL-EC 6X50   | ○      | 6                     | 50     | 20                    | 100 |
| 701596 | BNL-EC 6X60   | ○      | 6                     | 60     | 30                    | 100 |

KB2



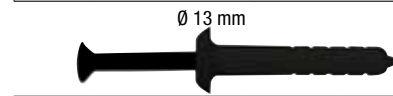
|        | <b>JNL</b>    | colore | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr.  |
|--------|---------------|--------|-----------------------|--------|-----------------------|------|
| 701554 | JNL 40 B inox | ○      | 6                     | 40     | 10                    | 1000 |
| 701555 | JNL 50 B inox | ○      | 6                     | 50     | 20                    | 200  |
| 701556 | JNL 60 B inox | ○      | 6                     | 60     | 30                    | 200  |
| 701558 | JNL 80 B inox | ○      | 6                     | 80     | 50                    | 200  |

KB2



|        | <b>JNL</b> | colore | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr.  |
|--------|------------|--------|-----------------------|--------|-----------------------|------|
| 701613 | JNL 40 TDM | ●      | 6                     | 40     | 10                    | 1000 |
| 701617 | JNL 60 TDM | ●      | 6                     | 60     | 30                    | 200  |

KB2



|        | <b>JNL</b> | colore | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr.  |
|--------|------------|--------|-----------------------|--------|-----------------------|------|
| 701614 | JNL 40 N   | ●      | 6                     | 40     | 10                    | 1000 |
| 701615 | JNL 50 N   | ●      | 6                     | 50     | 20                    | 200  |
| 701616 | JNL 60 N   | ●      | 6                     | 60     | 30                    | 200  |

KB2



|        | <b>JNL</b> | colore | d <sub>nom</sub> [mm] | L [mm] | t <sub>fix</sub> [mm] | Nr.  |
|--------|------------|--------|-----------------------|--------|-----------------------|------|
| 701633 | JNL 30 R   | ●      | 6                     | 30     | 1,2                   | 1000 |
| 701634 | JNL 40 R   | ●      | 6                     | 40     | 10                    | 1000 |
| 701635 | JNL 50 R   | ●      | 6                     | 50     | 20                    | 200  |
| 701636 | JNL 60 R   | ●      | 6                     | 60     | 30                    | 200  |
| 701638 | JNL 80 R   | ●      | 6                     | 80     | 50                    | 200  |

KB2

○ bianco > white > blanc > Weiß ● rame > copper > cuivre > Kupper  
● nero > black > noir > Schwarz ● grigio > gray > gris > Grau  
● testa di moro > black head > tete de negre > Dunkelbraun



**JNH-CE**

Testa piatta > Flat haed > Tete plate > Flachkopf



KB3

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|--------------------------|-------------------------------------|--|--|--|-----|
| CE                       | JNH-CE                              | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]  | Nr. |
| 702030                   | JNH-CE 5x30                         | 5  | 30   | 5  | 200 |
| 702031                   | JNH-CE 5x40                         | 5  | 40   | 15   | 100 |
| 702032                   | JNH-CE 5x50                         | 5  | 50   | 25   | 100 |
| 702033                   | JNH-CE 6x35                         | 6  | 35   | 5  | 100 |
| 702034                   | JNH-CE 6x40                         | 6  | 40   | 10   | 100 |
| 702035                   | JNH-CE 6x50                         | 6  | 50   | 20   | 200 |
| 702036                   | JNH-CE 6x60                         | 6  | 60   | 30   | 200 |

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX<br>BEFESTIGUNGSDICKE |     |
|--------------------------|-------------------------------------|--|--|--|-----|
| CE                       | JNH-CE                              | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]  | Nr. |
| 702037                   | JNH-CE 6x80                         | 6  | 80   | 50   | 200 |
| 702038                   | JNH-CE 8x60                         | 8  | 60   | 20   | 100 |
| 702039                   | JNH-CE 8x80                         | 8  | 80   | 40   | 100 |
| 702040                   | JNH-CE 8x100                        | 8  | 100  | 60   | 100 |
| 702041                   | JNH-CE 8x120                        | 8  | 120  | 80   | 100 |
| 702042                   | JNH-CE 8x140                        | 8  | 140  | 100  | 100 |

**Dati carico | Load data | Données de charge | Lastdaten**

**LEGEND**

F<sub>rec</sub> [kN] Carico ammissibile  
Admissible load  
Charge admissible  
Zulässige Lasten

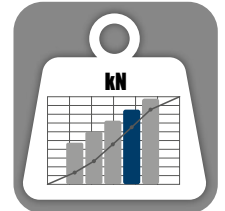
- > Carichi validi per singolo ancorante senza influenza di interasse e distanza dal bordo e  $h \geq 2h_{ef}$
- > Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2h_{ef}$
- > Charges valables pour chaque ancrage sans influence d'interaxe et distance du bord et  $h \geq 2h_{ef}$
- > Passende Ringe für den einzelnen Veranker, ohne Achsenabstandseinfluss und des Randabstands und  $h \geq 2h_{ef}$

> 1kN = 100 Kg

- > Azione di taglio non diretta verso il bordo
- > Shear directed away from the edge
- > Action de cisaillement pas dirigée vers le bord
- > Queraktion nicht an den Rand gerichtet

- > Coefficiente di sicurezza globale incluso
- > General safety factor included
- > Coefficient de sécurité generale inclu
- > Generelle Sicherheitskoeffizient inbegriffen

- > Coefficiente lato carichi utilizzato = 1,4
- > Load increasing safety coefficient used = 1,4
- > Coefficient côté charge utilisé = 1,4
- > Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4

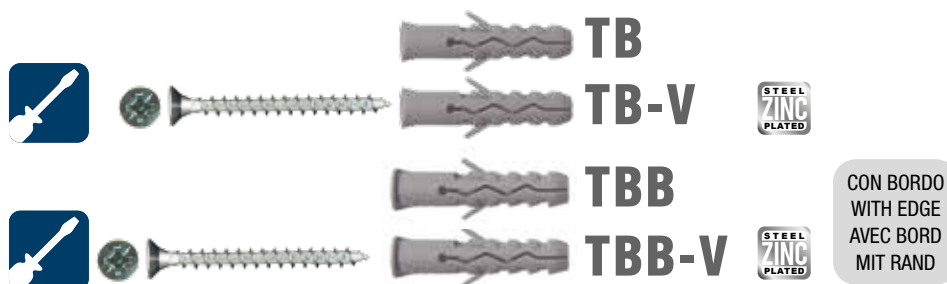


| ARTICOLO<br>ITEM | Calcestruzzo non fessurato<br>Non cracked Concrete<br>Beton non fissuré<br>Ungerissener Beton |                                       |  | Mattone pieno<br>Solid Brick<br>Brique pleine<br>Vollmauerwerk |                                       |  |
|------------------|---|---------------------------------------|--|--|---------------------------------------|--|
|                  |   | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD |  |  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD |  |
|                  |   | F <sub>rec</sub> [kN]                 |  | F <sub>rec</sub> [kN]  |                                       |  |
| JNL-BOI          |   | 0,26                                  |  | 0,24   |                                       |  |
| JNL-BOR          |   | 0,26                                  |  | 0,24   |                                       |  |
| JNL-BOTDM        |   | 0,26                                  |  | 0,24   |                                       |  |
| JN               |   | 0,26                                  |  | 0,24   |                                       |  |
| JNL 5            |   | 0,20                                  |  | 0,20   |                                       |  |
| JNL 6            |   | 0,26                                  |  | 0,24   |                                       |  |
| JNH-CE 5         |   | 0,23                                  |  | 0,25   |                                       |  |
| JNH-CE 6         |   | 0,29                                  |  | 0,25   |                                       |  |
| JNH-CE 8         |   | 0,54                                  |  | 0,29   |                                       |  |
| BNL-EC           |   | 0,20                                  |  | 0,18   |                                       |  |



**TB**

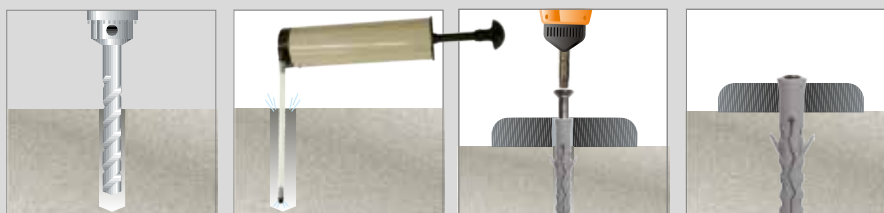
TASSELLI A ESPANSIONE > EXPANSION PLUG  
CHEVILLE À EXPANSION > SPREIZDÜBEL



Applicazioni | Applications | Applications | Anwendungen



PROCEDURA DI INSTALLAZIONE  
INSTALLATION PROCEDURE  
PROCÉDURE D'INSTALLATION  
INSTALLATIONSVERFAHREN



**TB**

Tasselli in nylon senza vite > Nylon anchors no screw  
Chevilles nylon sans vis > Nylon Dübel ohne Schraube

SENZA BORDO > NO EDGE  
NO BORD > NO RAND

**TBB**

Tasselli in nylon senza vite > Nylon anchors no screw  
Chevilles nylon sans vis > Nylon Dübel ohne Schraube

CON BORDO > WITH EDGE  
AVEC BORD > MIT RAND

KC1

| CODICE<br>CODE<br>CODE<br>NUMMER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA<br>TOTALE<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE |                     |
|----------------------------------|-------------------------------------|--|---|---------------------|
|                                  | <b>T B</b>                          | d <sub>nom</sub> [mm]                            | L [mm]  | Nr.                 |
| 695004                           | TB 4                                | 4  | 20  | 1000 in sacco/bag   |
| 695005                           | TB 5                                | 5  | 25  | 1000 in sacco/bag   |
| 695006                           | TB 6                                | 6  | 30  | 1000 in sacco/bag   |
| 695008                           | TB 8                                | 8  | 40  | 1000 in sacco/bag   |
| 695010                           | TB 10                               | 10   | 50  | 1000 in sacco/bag   |
| 695012                           | TB 12                               | 12   | 60  | 500 in sacco/bag    |
|                                  | <b>T B</b>                          | d <sub>nom</sub> [mm]                            | L [mm]  | Nr.                 |
| 695054                           | TB 4                                | 4  | 20  | 1000 in scatola/box |
| 695055                           | TB 5                                | 5  | 25  | 1000 in scatola/box |
| 695056                           | TB 6                                | 6  | 30  | 1000 in scatola/box |
| 695058                           | TB 8                                | 8  | 40  | 1000 in scatola/box |
| 695060                           | TB 10                               | 10   | 50  | 100 in scatola/box  |
| 695062                           | TB 12                               | 12   | 60  | 100 in scatola/box  |
| 695014                           | TB 14                               | 14   | 75  | 50 in scatola/box   |
| 695066                           | TB 16                               | 16   | 80  | 50 in scatola/box   |

KC2

| CODICE<br>CODE<br>CODE<br>NUMMER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø X LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER<br>LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA<br>TOTALE<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE |                     |
|----------------------------------|-------------------------------------|---|--|---|---------------------|
|                                  | <b>T B B</b>                        | d x Lv [mm]   | d [mm]   | L [mm]  | Nr.                 |
| 695015                           | TBB 5                               | -   | 5  | 25  | 1000 in sacco/bag   |
| 695016                           | TBB 6                               | -   | 6  | 30  | 1000 in sacco/bag   |
| 695018                           | TBB 8                               | -   | 8  | 40  | 1000 in sacco/bag   |
| 695020                           | TBB 10                              | -   | 10   | 50  | 1000 in sacco/bag   |
| 695022                           | TBB 12                              | -   | 12   | 60  | 1000 in sacco/bag   |
|                                  | <b>T B B</b>                        | d x Lv [mm]   | d [mm]   | L [mm]  | Nr.                 |
| 695075                           | TBB 5                               | -   | 5  | 25  | 1000 in scatola/box |
| 695076                           | TBB 6                               | -   | 6  | 30  | 1000 in scatola/box |
| 695078                           | TBB 8                               | -   | 8  | 40  | 1000 in scatola/box |
| 695080                           | TBB 10                              | -   | 10   | 50  | 500 in scatola/box  |
| 695082                           | TBB 12                              | -   | 12   | 60  | 500 in scatola/box  |
| 695024                           | TBB 14                              | -   | 14   | 75  | 50 in scatola/box   |



Tasselli in nylon con vite > Nylon anchors with screw  
Chevilles nylon avec vis > Nylon Dübel mit Schraube

SENZA BORDO > NO EDGE  
NO BORD > NO RAND



Tasselli in nylon con vite > Nylon anchors with screw  
Chevilles nylon avec vis > Nylon Dübel mit Schraube

CON BORDO > WITH EDGE  
AVEC BORD > MIT RAND

KC1

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø X LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER<br>LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA<br>TOTALE<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE |                     |
|--------------------------|-------------------------------------|---|--|---|---------------------|
|                          | <b>T B - V</b>                      | d x Lv [mm]   | d <sub>nom</sub> [mm]                            | L [mm]  | Nr.                 |
| 695105                   | <b>TB-V 5</b>                       | 3,5 x 30  | 5  | 25  | 1000 in scatola/box |
| 695106                   | <b>TB-V 6</b>                       | 4 x 35  | 6  | 30  | 1000 in scatola/box |
| 695108                   | <b>TB-V 8</b>                       | 5 x 45  | 8  | 40  | 1000 in scatola/box |
| 695110                   | <b>TB-V 10</b>                      | 6 x 60  | 10   | 50  | 500 in scatola/box  |



KC2

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø X LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER<br>LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA<br>TOTALE<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE |                         |
|--------------------------|-------------------------------------|---|--|---|-------------------------|
|                          | <b>T B B - V</b>                    | d x Lv [mm]   | d [mm]   | L [mm]  | Nr.                     |
| 695115                   | <b>TBB-V 5</b>                      | 3,5 x 30  | 5  | 25  | 1000 in scatola/box     |
| 695116                   | <b>TBB-V 6</b>                      | 4 x 35  | 6  | 30  | 1000 in scatola/box     |
| 970076                   | <b>TBB-V 6</b>                      | 5 x 40  | 6  | 30  | 5000 in scatola/box     |
| 695118                   | <b>TBB-V 8</b>                      | 5 x 45  | 8  | 40  | 1000 in scatola/box     |
| 695119                   | <b>TBB-V 10</b>                     | 6 x 60  | 10   | 50  | 500 in scatola/box      |
|                          | <b>T B B - V</b>                    | d x Lv [mm]   |  |   | Nr.                     |
| 702304                   | <b>TBB-V 6</b>                      | 4 x 35  |  |   | 300 in secchio / bucket |
| 702302                   | <b>TBB-V 6</b>                      | 5 x 40  |  |   | 300 in secchio / bucket |
| 702303                   | <b>TBB-V 8</b>                      | 5 x 45  |  |   | 200 in secchio / bucket |

## Dati carico | Load data | Données de charge | Lastdaten

**LEGEND**

F<sub>rec</sub> [kN] Carico ammissibile  
Admissible load  
Charge admissible  
Zulässige Lasten

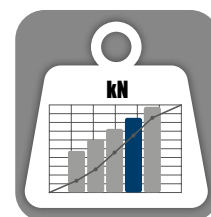
- > Carichi validi per singolo ancorante senza influenza di interasse e distanza dal bordo e h ≥ 2hef
- > Loads for single anchor with no influence of spacing and edge distance and with h ≥ 2hef
- > Charges valables pour chaque ancrage sans influence d'interaxe et distance du bord et h ≥ 2hef
- > Passende Ringe für den einzelnen Veranker, ohne Achsenabstandseinfluss und des Randabstands und h ≥ 2hef

> 1kN = 100 Kg

- > Azione di taglio non diretta verso il bordo
- > Shear directed away from the edge
- > Action de cisaillement pas dirigée vers le bord
- > Queraktion nicht an den Rand gerichtet

- > Coefficiente di sicurezza globale incluso
- > General safety factor included
- > Coefficient de sécurité generale inclu
- > Generelle Sicherheitskoeffizient inbegriffen

- > Coefficiente lato carichi utilizzato = 1,4
- > Load increasing safety coefficient used = 1,4
- > Coefficient côté charge utilisé = 1,4
- > Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4



| ARTICOLO<br>ITEM          | Calcestruzzo non fessurato<br>Non cracked Concrete<br>Beton non fissuré<br>Ungerissener Beton | Mattone pieno<br>Solid Brick<br>Brique pleine<br>Vollmauerwerk | Materiale forato<br>Hollow Material<br>Material creux<br>Lochziegeln Material |
|---------------------------|---|--|---|
|                           |   |  |   |
|                           | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                          | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   |
|                           | F <sub>rec</sub> [kN]   | F <sub>rec</sub> [kN]  | F <sub>rec</sub> [kN]   |
| <b>TB-V 5 - TBB-V 5</b>   | 0,10  | 0,09   | 0,05  |
| <b>TB-V 6 - TBB-V 6</b>   | 0,20  | 0,15   | 0,10  |
| <b>TB-V 8 - TBB-V 8</b>   | 0,45  | 0,40   | 0,30  |
| <b>TB-V 10 - TBB-V 10</b> | 0,70  | 0,50   | 0,40  |



# BM LA

TASSELLI CON ACCESSORIO > PLUGS WITH ACCESSORY  
 BOUCHONS AVEC ACCESSOIRE > DÜBEL MIT ZUBEHÖR

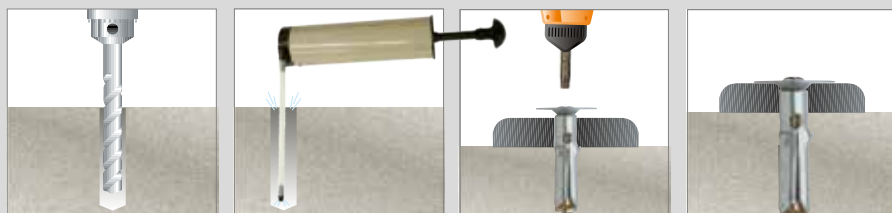


|  |                 |  |  |                 |  |
|--|-----------------|--|--|-----------------|--|
|  | <b>BM 01 03</b> |  |  | <b>LA 01 03</b> |  |
|  | <b>BM 05 07</b> |  |  | <b>LA 05 07</b> |  |
|  | <b>BM 09 11</b> |  |  | <b>LA 09 11</b> |  |
|  | <b>BM 13 15</b> |  |  | <b>LA 13 15</b> |  |
|  |                 |  |  | <b>LA 15/9</b>  |  |
|  | <b>BM 17 19</b> |  |  | <b>LA 19/9</b>  |  |
|  | <b>BM 21 23</b> |  |  | <b>LA 21 23</b> |  |
|  | <b>BM 25 27</b> |  |  | <b>LA 25 27</b> |  |

## Applicazioni | Applications | Applications | Anwendungen



PROCEDURA DI INSTALLAZIONE  
 INSTALLATION PROCEDURE  
 PROCÉDURE D'INSTALLATION  
 INSTALLATIONSVERFAHREN







**BM 01 03**  Gancio corto > Short hook  
Crochet court > Kurzer Haken

**LA 01 03**  Gancio corto > Short hook  
Crochet court > Kurzer Haken

KE1

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø<br>FILETTATURA<br>THREAD<br>FILETAGE<br>GEWINDE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø ESTERNE<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOTAL LENGTH<br>LONGUEUR ÉLÉMENT<br>DÜBELLÄNGE |  |
|--------------------------|-------------------------------------|--|---|--|--|---|
|                          | BM                                  |  | d [mm]  | d <sub>nom</sub> [mm]                          | L [mm]   | Nr.   |
| 695201                   | BM 01                               | gancio corto<br>short hook                         | M4  | 9  | 40   | 200   |
| 695203                   | BM 03                               | gancio corto<br>short hook                         | M5  | 12   | 45   | 100   |

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø<br>FILETTATURA<br>THREAD<br>FILETAGE<br>GEWINDE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø ESTERNE<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOTAL LENGTH<br>LONGUEUR ÉLÉMENT<br>DÜBELLÄNGE |  |
|--------------------------|-------------------------------------|--|---|--|--|---|
|                          | LA                                  |  | d [mm]  | d <sub>nom</sub> [mm]                          | L [mm]   | Nr.   |
| 695301                   | LA 01/8                             | gancio corto<br>short hook                         | M4  | 8  | 40   | 200   |
| 695303                   | LA 03/9                             | gancio corto<br>short hook                         | M5  | 9  | 45   | 200   |

KE2

**BM 05 07**  Gancio medio > Medium hook  
Crochet moyen > Mittlerer Haken

**LA 05 07**  Gancio medio > Medium hook  
Crochet moyen > Mittlerer Haken

|        | BM    |                             | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|-------|-----------------------------|--------|-----------------------|--------|-----|
| 695205 | BM 05 | gancio medio<br>medium hook | M4     | 9                     | 40     | 200 |
| 695207 | BM 07 | gancio medio<br>medium hook | M5     | 12                    | 45     | 100 |

|        | LA      |                             | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|---------|-----------------------------|--------|-----------------------|--------|-----|
| 695305 | LA 05/8 | gancio medio<br>medium hook | M4     | 8                     | 40     | 200 |
| 695307 | LA 07/9 | gancio medio<br>medium hook | M5     | 9                     | 45     | 200 |

**BM 09 11**  Gancio lungo > Long hook  
Long Crochet > Langer Haken

**LA 09 11**  Gancio lungo > Long hook  
Long Crochet > Langer Haken

|        | BM    |                           | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|-------|---------------------------|--------|-----------------------|--------|-----|
| 695209 | BM 09 | gancio lungo<br>long hook | M4     | 9                     | 40     | 200 |
| 695211 | BM 11 | gancio lungo<br>long hook | M5     | 12                    | 45     | 100 |

|        | LA      |                           | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|---------|---------------------------|--------|-----------------------|--------|-----|
| 695309 | LA 09/8 | gancio lungo<br>long hook | M4     | 8                     | 40     | 200 |
| 695311 | LA 11/9 | gancio lungo<br>long hook | M5     | 9                     | 45     | 100 |


**BM 13 15**  Vite > Screw > Vis > Schraube

**LA 13 15**  Vite > Screw > Vis > Schraube

|        | BM    |              | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|-------|--------------|--------|-----------------------|--------|-----|
| 695214 | BM 13 | vite > screw | M4     | 9                     | 40     | 200 |
| 695215 | BM 15 | vite > screw | M5     | 12                    | 45     | 100 |

|        | LA      |              | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|---------|--------------|--------|-----------------------|--------|-----|
| 695313 | LA 13/8 | vite > screw | M4     | 8                     | 40     | 200 |
| 695315 | LA 15/9 | vite > screw | M5     | 9                     | 45     | 200 |

**BM 17 19**  Doppio dado > Double nut  
Double ecrou > Doppelte Mutter

**LA 15/9**  Doppio espansione > Double expansion  
Double expansion > Doppelte Spreizdübel

|        | BM    |                           | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|-------|---------------------------|--------|-----------------------|--------|-----|
| 695217 | BM 17 | doppio dado<br>double nut | M4     | 9                     | 40     | 100 |
| 695219 | BM 19 | doppio dado<br>double nut | M5     | 12                    | 45     | 100 |

|        | LA        |                                       | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|-----------|---------------------------------------|--------|-----------------------|--------|-----|
| 695317 | LA 15/9 L | doppia espansione<br>double expansion | M5     | 9                     | 80     | 100 |

**LA 19/9**  Doppio dado > Double nut  
Double ecrou > Doppelte Mutter

**BM 21 23**  Occhio aperto > Hook  
Crochet > Haken

**LA 21 23**  Occhio aperto > Hook  
Crochet > Haken

|        | BM    |                      | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|-------|----------------------|--------|-----------------------|--------|-----|
| 695221 | BM 21 | occh. aperto<br>hook | M4     | 9                     | 40     | 200 |
| 695223 | BM 23 | occh. aperto<br>hook | M5     | 12                    | 45     | 100 |

|        | LA      |                      | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|---------|----------------------|--------|-----------------------|--------|-----|
| 695321 | LA 21/8 | occh. aperto<br>hook | M4     | 8                     | 40     | 200 |
| 695323 | LA 23/9 | occh. aperto<br>hook | M5     | 9                     | 45     | 100 |

**BM 25 27**  Occhio chiuso > Eye  
Piton > Auge

**LA 25 27**  Occhio chiuso > Eye  
Piton > Auge

|        | BM    |                     | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|-------|---------------------|--------|-----------------------|--------|-----|
| 695225 | BM 25 | occh. chiuso<br>eye | M4     | 9                     | 40     | 200 |
| 695227 | BM 27 | occh. chiuso<br>eye | M5     | 12                    | 45     | 100 |

|        | LA      |                     | d [mm] | d <sub>nom</sub> [mm] | L [mm] | Nr. |
|--------|---------|---------------------|--------|-----------------------|--------|-----|
| 695325 | LA 25/8 | occh. chiuso<br>eye | M4     | 8                     | 40     | 200 |
| 695327 | LA 27/9 | occh. chiuso<br>eye | M5     | 9                     | 45     | 100 |



## Dati carico | Load data | Données de charge | Lastdaten

**LEGEND**

$F_{rec}$  [kN] Carico ammissibile  
Admissible load  
Charge admissible  
Zulässige Lasten

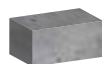
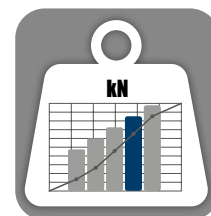
- > Carichi validi per singolo ancorante senza influenza di interasse e distanza dal bordo e  $h \geq 2h_{ef}$
- > Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2h_{ef}$
- > Charges valables pour chaque ancrage sans influence d'interaxe et distance du bord et  $h \geq 2h_{ef}$
- > Passende Ringe für den einzelnen Veranker, ohne Achsenabstandseinfluss und des Randabstands und  $h \geq 2h_{ef}$

> 1kN = 100 Kg

- > Azione di taglio non diretta verso il bordo
- > Shear directed away from the edge
- > Action de cisaillement pas dirigée vers le bord
- > Queraktion nicht an den Rand gerichtet

- > Coefficiente di sicurezza globale incluso
- > General safety factor included
- > Coefficient de sécurité generale inclu
- > Generelle Sicherheitskoeffizient inbegriffen

- > Coefficiente lato carichi utilizzato = 1,4
- > Load increasing safety coefficient used = 1,4
- > Coefficient côté charge utilisé = 1,4
- > Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4



Calcestruzzo non fessurato  
Non cracked Concrete  
Béton non fissuré  
Ungerissener Beton

| ARTICOLO<br>ITEM | Vite<br>Screw<br>Vis<br>Schraube      | Gancio corto<br>Short hook<br>Crochet court<br>Kurzer Haken | Gancio medio<br>Medium hook<br>Crochet moyen<br>Mittlerer Haken | Gancio lungo<br>Long hook<br>Long Crochet<br>Langer Haken | Occhiolo aperto<br>Hook<br>Crochet<br>Haken | Occhiolo chiuso<br>Eye<br>Piton<br>Auge |
|------------------|---------------------------------------|---|---|---|---|---|
|                  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                       | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                           | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                     | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD       | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   |
|                  | $F_{rec}$ [kN]                        | $F_{rec}$ [kN]  | $F_{rec}$ [kN]  | $F_{rec}$ [kN]  | $F_{rec}$ [kN]                              | $F_{rec}$ [kN]                          |
| BM (M4)          | 0,40                                  | 0,15  | 0,08  | 0,05  | 0,08  | 0,08                                    |
| BM (M5)          | 0,80                                  | 0,30  | 0,16  | 0,10  | 0,12  | 0,12                                    |
| LA (M4)          | 0,40                                  | 0,15  | 0,08  | 0,05  | 0,08  | 0,08                                    |
| LA (M5)          | 0,80                                  | 0,30  | 0,16  | 0,10  | 0,12  | 0,12                                    |






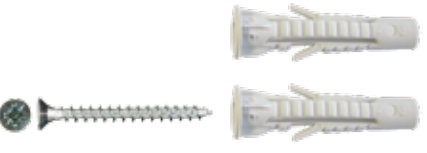











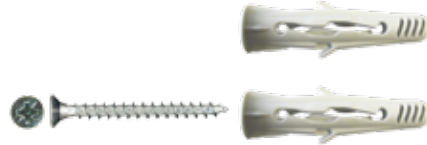








**F**

TASSELLI PER FORATI > ANCHORS FOR HOLLOW MATERIALS  
 CHEVILLES POUR MATERIAUX CREUX > DÜBEL FÜR LOCHMATERIALEN



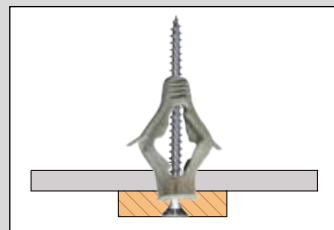
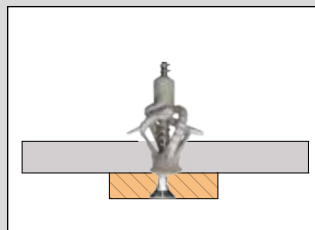
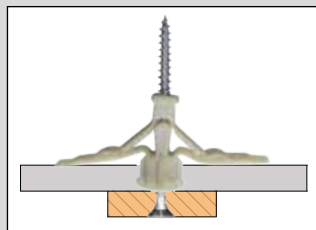
|   |   |              |  |
|---|---|--------------|--|
|    |    | <b>FOB</b>   |  |
|   |    | <b>FOB-V</b> |   |
|    |    | <b>OX</b>    |    |
|   |    | <b>OX-V</b>  |       |
|  |   | <b>FOX</b>   |   |
|   |  | <b>FOX-V</b> |   |
|  |  | <b>FBN</b>   |    |
|   |  | <b>FBN-V</b> |   |



Applicazioni | Applications | Applications | Anwendungen

|   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|--|
|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|--|

PROCEDURA DI INSTALLAZIONE  
 INSTALLATION PROCEDURE  
 PROCÉDURE D'INSTALLATION  
 INSTALLATIONSVERFAHREN





## FOB



KD4

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>LENGTH<br>LONGUEUR<br>TOT.<br>LÄNGE | Nr. |
|--------------------------|-------------------------------------|--|--|---|-----|
|                          | <b>FOB</b>                          | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]  |     |
| 702000                   | FOB 6 x 35                          | -  | 6  | 35  | 100 |
| 702001                   | FOB 6 x 45                          | -  | 6  | 45  | 100 |
| 702002                   | FOB 8 x 50                          | -  | 8  | 50  | 100 |

## FOB-V

Con vite TSP a croce > With TSP cross screw  
Avec TSP fraisée > Mit Kreuz TSP Schraube

KD4

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>LENGTH<br>LONGUEUR<br>TOT.<br>LÄNGE | Nr. |
|--------------------------|-------------------------------------|--|--|---|-----|
|                          | <b>FOB-V</b>                        | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]  |     |
| 702003                   | FOB-V 6 x 35                        | 3,5 x 45   | 6  | 35  | 100 |
| 702004                   | FOB-V 6 x 45                        | 3,5 x 60   | 6  | 45  | 100 |
| 702005                   | FOB-V 8 x 50                        | 4,5 x 60   | 8  | 50  | 50  |

## OX



KD2

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESSORE<br>THICKNESS<br>ÉPAISSEUR<br>DICKE | Nr. |
|--------------------------|-------------------------------------|--|--|--|---|-----|
|                          | <b>OX</b>                           | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]   | L [mm]                                      |     |
| 701926                   | OX 6                                | -  | 6  | 35   | -   | 200 |
| 701928                   | OX 8                                | -  | 8  | 42   | -   | 200 |

## OX-V

Con vite > With screw > Avec vis > Mit Schraube

KD2

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESSORE FISSABILE MAX.<br>FIX THICKNESS<br>ÉPAISSEUR FIX<br>MAX.<br>BEFESTIGUNGSDICKE | Nr.  |
|--------------------------|-------------------------------------|--|--|--|--|------|
|                          | <b>OX-V</b>                         | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]   | t <sub>fix</sub> [mm]  |      |
| 701946                   | OX-V 6                              | 4 x 45   | 6  | 35   | 5  | 1000 |
| 701948                   | OX-V 8                              | 4,5 x 50   | 8  | 42   | 8  | 1000 |

## FBN



KD1

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESSORE<br>THICKNESS<br>ÉPAISSEUR<br>DICKE | Nr. |
|--------------------------|-------------------------------------|--|--|--|---|-----|
|                          | <b>FBN</b>                          | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]   | L [mm]                                      |     |
| 701950                   | FBN 6 x 35                          | -  | 6  | 35   | -   | 100 |
| 701960                   | FBN 8 x 50                          | -  | 8  | 50   | -   | 100 |
| 701965                   | FBN 10 x 60                         | -  | 10   | 60   | -   | 50  |

## FOX



KD5

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>LENGTH<br>LONGUEUR<br>TOT.<br>LÄNGE | Nr. |
|--------------------------|-------------------------------------|--|--|---|-----|
|                          | <b>FOX</b>                          | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]  |     |
| 701990                   | FOX 5                               | -  | 5  | 25  | 100 |
| 701993                   | FOX 6                               | -  | 6  | 30  | 100 |
| 701994                   | FOX 8                               | -  | 8  | 40  | 100 |
| 701995                   | FOX 10                              | -  | 10   | 50  | 50  |
| 701991                   | FOX 12                              | -  | 12   | 60  | 25  |
| 701992                   | FOX 14                              | -  | 14   | 70  | 20  |

## FOX-V



Vite a testa larga  
Screw large head  
Vis grande tete  
Schraube großer Kopf

Con vite separata  
With separate screw  
Avec vis séparée  
Mit getrennter Schraube

KD5

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | Nr.                     |
|--------------------------|-------------------------------------|--|--|--|-------------------------|
|                          | <b>FOX-V</b>                        | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]   |                         |
| 701997                   | FOX-V 5                             | 4 x 30   | 5  | 25   | 100                     |
| 701996                   | FOX-V 6                             | 4,5 x 40   | 6  | 30   | 100                     |
| 701998                   | FOX-V 8                             | 5 x 50   | 8  | 40   | 50                      |
| 701999                   | FOX-V 10                            | 6 x 60   | 10   | 50   | 25                      |
| 701987                   | FOX-V-TL 6                          | 4,5 x 40   | 6  | 30   | 100                     |
| 701988                   | FOX-V-TL 8                          | 5 x 50   | 8  | 40   | 50                      |
|                          | <b>FOX-V</b>                        | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]   |                         |
| 702305                   | FOX-V 6                             | 4,5 x 40   |  |  | 300 in secchio / bucket |
| 702306                   | FOX-V 8                             | 5 x 50   |  |  | 150 in secchio / bucket |
| 702307                   | FOX-V 10                            | 6 x 60   |  |  | 75 in secchio / bucket  |

## FBN-V

Con vite > With screw > Avec vis > Mit Schraube

KD3

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | SPESSORE<br>THICKNESS<br>ÉPAISSEUR<br>DICKE | Nr. |
|--------------------------|-------------------------------------|--|--|--|---|-----|
|                          | <b>FBN-V</b>                        | d x Lv [mm]  | d <sub>nom</sub> [mm]                            | L [mm]   | L [mm]                                      |     |
| 701970                   | FBN-V 6 x 35                        | 4 x 45   | 6  | 35   | 10  | 100 |
| 701980                   | FBN-V 8 x 50                        | 4,5 x 60   | 8  | 50   | 10  | 50  |
| 701985                   | FBN-V 10 x 60                       | 6 x 70   | 10   | 60   | 10  | 50  |



## Dati carico | Load data | Données de charge | Lastdaten

**LEGEND**

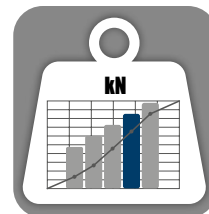
$F_{rec}$  [kN] Carico ammissibile  
Admissible load  
Charge admissible  
Zulässige Lasten

- > Carichi validi per singolo ancorante senza influenza di interasse e distanza dal bordo e  $h \geq 2h_{ef}$
- > Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2h_{ef}$
- > Charges valables pour chaque ancrage sans influence d'interaxe et distance du bord et  $h \geq 2h_{ef}$
- > Passende Ringe für den einzelnen Veranker, ohne Achsenabstandseinfluss und des Randabstands und  $h \geq 2h_{ef}$
- > 1kN = 100 Kg

- > Azione di taglio non diretta verso il bordo
- > Shear directed away from the edge
- > Action de cisaillement pas dirigée vers le bord
- > Queraktion nicht an den Rand gerichtet

- > Coefficiente di sicurezza globale incluso
- > General safety factor included
- > Coefficient de sécurité générale inclu
- > Generelle Sicherheitskoeffizient inbegriffen

- > Coefficiente lato carichi utilizzato = 1,4
- > Load increasing safety coefficient used = 1,4
- > Coefficient côté charge utilisé = 1,4
- > Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4



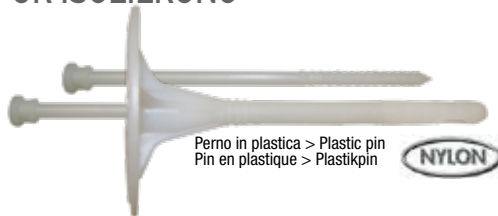
| ARTICOLO<br>ITEM | Calcestruzzo non fessurato<br>Non cracked Concrete<br>Beton non fissuré<br>Ungerissener Beton | Mattone pieno<br>Solid Brick<br>Brique pleine<br>Vollmauerwerk | Materiale forato<br>Hollow Material<br>Material creux<br>Lochziegeln Material |
|------------------|---|--|---|
|                  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                          | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   |
|                  | $F_{rec}$ [kN]  | $F_{rec}$ [kN]   | $F_{rec}$ [kN]  |
| FOB-V            | 0,20  | 0,15   | 0,10  |
| OX-V             | 0,30  | 0,20   | 0,15  |
| FOX-V            | 0,35  | 0,25   | 0,20  |
| FBN-V            | 0,25  | 0,20   | 0,15  |
| NF-V             | -   | -  | 0,06  |





**IS**

TASSELLI PER ISOLAMENTO  
ANCHORS FOR INSULATION  
CHEVILLES POUR ISOLATION  
DUBEL FÜR ISOLIERUNG



Perno in plastica > Plastic pin  
Pin en plastique > Plastikpin

NYLON

**LTX**



THERMAL CONDUCTIVITY 0.000 W/K Ø 8  
THERMAL CONDUCTIVITY 0.001 W/K Ø 10

PE



Perno in ferro > Steel pin  
Pin en fer > Stahlpin

STEEL ZINC PLATED

**LMX**



THERMAL CONDUCTIVITY 0.004 W/K Ø 8  
THERMAL CONDUCTIVITY 0.004 W/K Ø 10

PE



Perno in ferro > Steel pin  
Pin en fer > Stahlpin

STEEL ZINC PLATED

**WK THERM S**



THERMAL CONDUCTIVITY 0.002 W/K

PE



**CF**

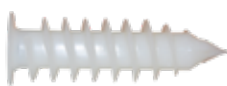


**IS**



**TDP60**

PP



**T-IS**

NYLON



**TDX90**

NYLON

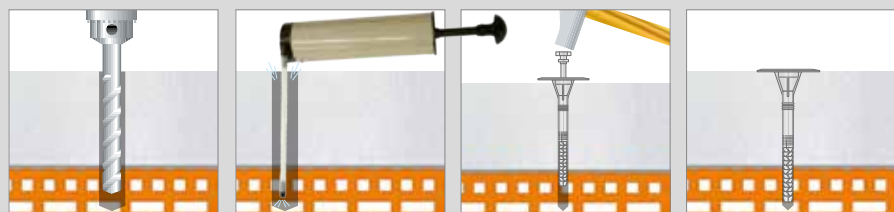
**TDX140**

NYLON

**Applicazioni | Applications | Applications | Anwendungen**

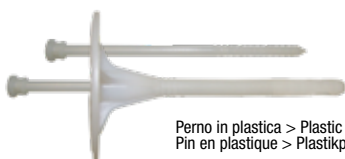


PROCEDURA DI INSTALLAZIONE  
INSTALLATION PROCEDURE  
PROCÉDURE D'INSTALLATION  
INSTALLATIONSVERFAHREN





LTX 












Perno in plastica > Plastic pin  
Pin en plastique > Plastikpin

LMX 












Perno in ferro > Steel nail  
Clou fer > Stahl Nagel

KF7 / KF8

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL  | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | Ø TESTA<br>HEAD Ø<br>Ø TÊTE<br>KOPF Ø | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX.<br>MAX BEFESTIGUNGSDICKE |  |
|--------------------------|--|--|--|---------------------------------------|---|---|
| CE                       | LTX  | d [mm]   | L [mm]   | Ø [mm]                                | t <sub>fix</sub> [mm]   | Nr.   |
| 700851                   | LTX 8x95   | 8  | 95   | 60                                    | 70* / 30**  | 200   |
| 700852                   | LTX 8x115     | 8  | 115  | 60                                    | 90* / 50**  | 200   |
| 700853                   | LTX 8x135     | 8  | 135  | 60                                    | 110* / 70**   | 200   |
| 700854                   | LTX 8x155     | 8  | 155  | 60                                    | 130* / 90**   | 200   |
| 700855                   | LTX 8x175     | 8  | 175  | 60                                    | 150* / 110**  | 200   |
| 700856                   | LTX 8x195  | 8  | 195  | 60                                    | 170* / 130**  | 200   |
| 700857                   | LTX 10x70  | 10   | 70   | 60                                    | 40* / 20**  | 200   |
| 700858                   | LTX 10x90  | 10   | 90   | 60                                    | 60* / 40**  | 200   |
| 700859                   | LTX 10x110   | 10   | 110  | 60                                    | 80* / 60**  | 200   |
| 700860                   | LTX 10x120  | 10   | 120  | 60                                    | 90* / 70**  | 200   |
| 700861                   | LTX 10x140  | 10   | 140  | 60                                    | 110* / 90**   | 200   |
| 700862                   | LTX 10x160  | 10   | 160  | 60                                    | 130* / 110**  | 200   |
| 700863                   | LTX 10x180  | 10   | 180  | 60                                    | 150* / 130**  | 200   |
| 700864                   | LTX 10x200   | 10   | 200  | 60                                    | 170* / 150**  | 200   |
| 700865                   | LTX 10x220   | 10   | 220  | 60                                    | 190* / 170**  | 100   |
| 700866                   | LTX 10x260   | 10   | 260  | 60                                    | 230* / 210**  | 100   |

LTX8 \*A-B-C-D / hef = 25 mm  
LTX10 \*A-B-C-D / hef = 30 mm

LTX8 \*\*E / hef = 65 mm  
LTX10 \*\*E / hef = 50 mm

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL   | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | Ø TESTA<br>HEAD Ø<br>Ø TÊTE<br>KOPF Ø | SPESORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX.<br>MAX BEFESTIGUNGSDICKE |  |
|--------------------------|---|--|--|---------------------------------------|---|---|
| CE                       | LMX   | d [mm]   | L [mm]   | Ø [mm]                                | t <sub>fix</sub> [mm]   | Nr.   |
| 700934                   | LMX 8x95  | 8  | 95   | 60                                    | 70* / 30**  | 200   |
| 700935                   | LMX 8x115     | 8  | 115  | 60                                    | 90* / 50**  | 200   |
| 700936                   | LMX 8x135     | 8  | 135  | 60                                    | 110* / 70**   | 200   |
| 700937                   | LMX 8x155     | 8  | 155  | 60                                    | 130* / 90**   | 200   |
| 700938                   | LMX 8x175     | 8  | 175  | 60                                    | 150* / 110**  | 200   |
| 700939                   | LMX 8x195   | 8  | 195  | 60                                    | 170* / 130**  | 200   |
| 700925                   | LMX 10x70   | 10   | 70   | 60                                    | 40* / 20**  | 200   |
| 700926                   | LMX 10x90   | 10   | 90   | 60                                    | 60* / 40**  | 200   |
| 700927                   | LMX 10x110  | 10   | 110  | 60                                    | 80* / 60**  | 200   |
| 700928                   | LMX 10x120  | 10   | 120  | 60                                    | 90* / 70**  | 200   |
| 700929                   | LMX 10x140  | 10   | 140  | 60                                    | 110* / 90**   | 200   |
| 700930                   | LMX 10x160  | 10   | 160  | 60                                    | 130* / 110**  | 200   |
| 700931                   | LMX 10x180  | 10   | 180  | 60                                    | 150* / 130**  | 200   |
| 700932                   | LMX 10x200  | 10   | 200  | 60                                    | 170* / 150**  | 200   |
| 700933                   | LMX 10x220  | 10   | 220  | 60                                    | 190* / 170**  | 100   |
| 700946                   | LMX 10x260  | 10   | 260  | 60                                    | 230* / 210**  | 100   |

LMX8 \*A-B-C-D / hef = 25 mm  
LMX10 \*A-B-C-D / hef = 30 mm

LMX8 \*\*E / hef = 65 mm  
LMX10 \*\*E / hef = 50 mm

KF4





**WK THERM S**



Perno in ferro > Steel nail  
Clou fer > Stahl Nagel



KF6

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOT.<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | Ø TESTA<br>HEAD Ø<br>Ø TÊTE<br>KOPF Ø | SPESSORE FISS. MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX.<br>MAX BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|--|---------------------------------------|--|-----|
|                                  | <b>WK THERM S</b>                   | d [mm]   | L [mm]   | Ø [mm]                                | t <sub>fix</sub> [mm]  | Nr. |
| 700801                           | WK THERM S 8x95                     | 8  | 95   | 60                                    | 70* / 30**   | 200 |
| 700802                           | WK THERM S 8x115                    | 8  | 115  | 60                                    | 90* / 50**   | 200 |
| 700803                           | WK THERM S 8x135                    | 8  | 135  | 60                                    | 110* / 70**  | 200 |
| 700804                           | WK THERM S 8x155                    | 8  | 155  | 60                                    | 130* / 90**  | 200 |
| 700805                           | WK THERM S 8x175                    | 8  | 175  | 60                                    | 150* / 110**   | 200 |
| 700806                           | WK THERM S 8x195                    | 8  | 195  | 60                                    | 170* / 130**   | 200 |
| 700807                           | WK THERM S 8x215                    | 8  | 215  | 60                                    | 190* / 150**   | 100 |
| 700808                           | WK THERM S 8x235                    | 8  | 235  | 60                                    | 210* / 170**   | 100 |
| 700809                           | WK THERM S 8x255                    | 8  | 255  | 60                                    | 230* / 190**   | 100 |
| 700810                           | WK THERM S 8x275                    | 8  | 275  | 60                                    | 250* / 210**   | 100 |
| 700811                           | WK THERM S 8x295                    | 8  | 295  | 60                                    | 270* / 230**   | 100 |

\* A-B-C-D / hef = 25 mm

\*\* E / hef = 65 mm

**LEGENDA**



Calcestruzzo non fessurato > Non cracked Concrete  
Beton non fissuré > Ungerissener Beton



Mattone pieno > Solid Brick  
Brique pleine > Vollmauerwerk



Materiale forato > Hollow Material  
Material creux > Lochziegel Material



Calcestruzzo alleggerito > Lightweight concrete  
Beton leger > Leichtbeton



Calcestruzzo cellulare > Aerated concrete  
Béton cellulaire > Porenbeton

t<sub>fix</sub> comprende anche lo spessore dell'eventuale adesivo necessario per incollare l'elemento/pannello isolante.  
t<sub>fix</sub> also includes the thickness of any adhesive required to bond the insulation element / panel  
t<sub>fix</sub> comprend également l'épaisseur de tout adhésif requis pour lier l'élément isolant / le panneau  
t<sub>fix</sub> schließt auch die Dicke eines jeden Klebstoffs ein, der erforderlich ist, um das Dämmelement / die Platte zu verbinden

KF2

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA<br>TOTALE<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | Ø TESTA<br>HEAD Ø<br>Ø TÊTE<br>KOPF Ø | SPESSORE FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX.<br>MAX BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|---|---------------------------------------|--|-----|
|                                  | <b>IS</b>                           | d [mm]   | L [mm]  | Ø [mm]                                | t <sub>fix</sub> [mm]  | Nr. |
| 700965                           | IS 60                               | 10   | 60  | 50                                    | 20 - 30  | 100 |
| 700966                           | IS 70                               | 10   | 70  | 50                                    | 20 - 40  | 100 |
| 700967                           | IS 90                               | 10   | 90  | 50                                    | 40 - 60  | 100 |
| 700968                           | IS 110                              | 10   | 110   | 50                                    | 70 - 80  | 100 |
| 700969                           | IS 130                              | 10   | 130   | 50                                    | 90 - 110   | 100 |
| 700970                           | IS 150                              | 10   | 150   | 50                                    | 110 - 120  | 100 |
| 700987                           | IS 240                              | 10   | 240   | 50                                    | 210  | 250 |

**CF**



KF1

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA<br>TOTALE<br>TOT LENGTH<br>LONGUEUR TOT.<br>LÄNGE | Ø TESTA<br>HEAD Ø<br>Ø TÊTE<br>KOPF Ø | SPESSORE FISSABILE MAX<br>MAX FIX THICKNESS<br>ÉPAISSEUR FIX MAX.<br>MAX BEFESTIGUNGSDICKE |     |
|----------------------------------|-------------------------------------|--|---|---------------------------------------|--|-----|
|                                  | <b>CF</b>                           | d [mm]   | L [mm]  | Ø [mm]                                | t <sub>fix</sub> [mm]  | Nr. |
| 700988                           | CF 50                               | 8  | 50  | 38                                    | 10 - 20  | 500 |
| 700989                           | CF 70                               | 8  | 70  | 38                                    | 20 - 40  | 500 |
| 700990                           | CF 90                               | 8  | 90  | 38                                    | 30 - 50  | 400 |
| 700992                           | CF 110                              | 8  | 110   | 38                                    | 50 - 80  | 250 |
| 700993                           | CF 130                              | 8  | 130   | 38                                    | 80 - 100   | 250 |





**T-IS**



Tassello autop perforante per materiali isolanti  
Self drilling anchors for insulation  
Scheville autoforeuse pour matériaux d'isolation  
Selbstdurchbohrend- Anker für Isoldierungen

KF5

| CODICE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL  | Ø FILETTATURA<br>THREAD<br>FILETAGE<br>GEWINDE | LUNGHEZZA<br>LENGTH<br>LONGUEUR<br>LÄNGE | VITE<br>SCREW<br>VIS<br>SCHRAUBE | Nr. |
|--------------------------|--------------------------------------|--|--|----------------------------------|-----|
|                          | <b>T-IS</b>                          | d [mm]   | L [mm]                                   | d [mm]                           |     |
| 700921                   | T-IS 60 (TX 40)                      | -  | 58                                       | 4,5-5,0                          | 50  |
| 700922                   | T-IS 95 (SW 13)                      | M8   | 97                                       | 8,10                             | 50  |
| 700923                   | Kit 2 inserto TX20/40 per T-IS 60    |  |  |                                  | 1   |
| 700924                   | Kit 2 inserti PZZ / TX40 per T-IS 60 |  |  |                                  | 1   |

**TDX 90  
TDX 140**



Rondella supplementare per isolamento  
Extra Insulation washer  
Rondelle supplémentaire pour isolation  
zusätzliche Unterlegscheibe für die Isolierung



| CODICE > CODE<br>CODE > NUMMER | ARTICOLO > ITEM<br>TYPE > ARTIKEL | Ø ESTERNO > OUTSIDE Ø<br>Ø EXTÉRIEUR > AUBEN Ø | Nr. |
|--------------------------------|-----------------------------------|--|-----|
|                                | <b>TDX 90 / TDX 140</b>           | d [mm]   |     |
| 700891                         | TDX 90                            | 90   | 100 |
| 700893                         | TDX 140                           | 140  | 100 |

KF9

**TDP60**



Rondella isolamento per viti legno Ø 5 e 6 mm  
Insulation washer for wood screws Ø 5 e 6 mm  
Rondelle isolation pour vis à bois Ø 5 e 6 mm  
Isolationsscheibe für Holzschrauben Ø 5 e 6 mm

KF9

| CODICE > CODE<br>CODE > NUMMER | ARTICOLO > ITEM<br>TYPE > ARTIKEL | Ø ESTERNO > OUTSIDE Ø<br>Ø EXTÉRIEUR > AUBEN Ø | Nr. |
|--------------------------------|-----------------------------------|--|-----|
|                                | <b>TDP 60</b>                     | d [mm]   |     |
| 700890                         | TDP 60                            | 60   | 100 |

VLS

**Dati carico | Load data | Données de charge | Lastdaten**

| LEGEND | F <sub>rec</sub> [kN] | Carico ammissibile<br>Admissible load<br>Charge admissible<br>Zulässige Lasten |
|--------|-----------------------|--|
|--------|-----------------------|--|

- > Coefficiente di sicurezza globale incluso  
> General safety factor included  
> Coefficient de sécurité generale inclu  
> Generelle Sicherheitskoeffizient inbegriffen
- > Coefficiente lato carichi utilizzato = 1,4  
> Load increasing safety coefficient used = 1,4  
> Coefficient côté charge utilisé = 1,4  
> Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4
- > 1kN = 100 Kg



| ARTICOLO<br>ITEM | Calcestruzzo non fessurato<br>Non cracked Concrete<br>Beton non fissuré<br>Ungerissener Beton | Mattone pieno<br>Solid Brick<br>Brique pleine<br>Vollmauerwerk | Materiale forato<br>Hollow Material<br>Material creux<br>Lochziegeln Material | Calcestruzzo alleggerito<br>Lightweight concrete<br>Beton leger<br>Leichtbeton | Calcestruzzo cellulare<br>Aerated concrete<br>Béton cellulaire<br>Porenbeton | Isolamento<br>Insulation<br>Isolation<br>Isolierung |
|------------------|---|--|---|--|--|---|
|                  | <b>A</b>  | <b>B</b>   | <b>C</b>  | <b>D</b>   | <b>E</b>   | EPS/XPS   |
|                  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                          | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD               |
|                  | F <sub>rec</sub> [kN]   | F <sub>rec</sub> [kN]  | F <sub>rec</sub> [kN]   | F <sub>rec</sub> [kN]  | F <sub>rec</sub> [kN]  | F <sub>rec</sub> [kN]                               |
| CF               | 0,20  | 0,20   | 0,10  | -  | -  |   |
| IS               | 0,25  | 0,25   | 0,11  | -  | -  |   |
| LMX 8            | 0,26  | 0,26   | 0,14  | 0,26   | 0,32 (AAC 7)   |   |
| LMX 10           | 0,32  | 0,32   | 0,18  | 0,32   | 0,32 (AAC 7)   |   |
| WK THERM S       | 0,53  | 0,53   | 0,26  | 0,32   | 0,42 (AAC 7)   |   |
| LTX 8            | 0,26  | 0,26   | 0,14  | 0,21   | 0,32 (AAC 7)   |   |
| LTX 10           | 0,26  | 0,21   | 0,14  | 0,21   | 0,21 (AAC 7)   |   |
| T-IS 60*         | -   | -  | -   | -  | -  | 0,05  |
| T-IS 95**        | -   | -  | -   | -  | -  | 0,10  |

\* Lunghezza vite > Screw length > Longueur de vis > Schraubenlänge min 30 mm /max 50 mm

\*\* min 40 mm /max 80 mm

EPS/XPS Densità > Density > Densité > Dichte > 15 Kg/m<sup>3</sup>

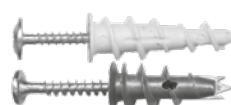


# CFO

## TASSELLI PER CARTONGESSO E FORATO ANCHORS FOR PLASTBOARD AND HOLLOW MATERIALS CHEVILLES POUR MATERIAUX CREUX ET PLACOPLATRE DÜBEL FÜR LOCHMATERIALEN UND GIPSKARTON



**CG**



**TC-V**



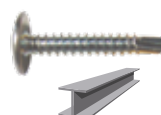
**MT 83**



**VPC**



**GP 01**



**AP-TL**



Viti autopercoranti > Self drilling screws  
MAX 3 mm > Rif. DIN 7504

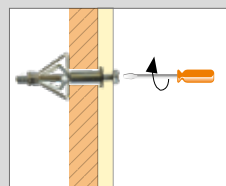
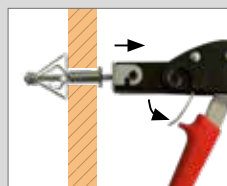
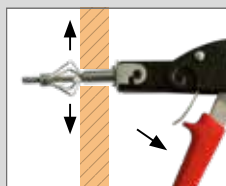
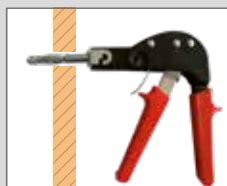


**GAS-B**



**SPE**

PROCEDURA DI INSTALLAZIONE  
INSTALLATION PROCEDURE  
PROCÉDURE D'INSTALLATION  
INSTALLATIONSVERFAHREN




**VPC**




Viti fosfatate per cartongesso > Screws for plastboard  
Vis pour placoplatre > Schrauben für Gipskarton

**MT 83 / GP 01**

Pinze professionali per tasselli GC > Professional tongs for CG anchors

| CODICE<br>CODE<br>CODE<br>NUMMER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø x LUNGHEZZA<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE |  |
|----------------------------------|-------------------------------------|---|---|
|                                  | <b>VPC</b>                          | d x Lv [mm]   | Nr.   |
| 696100                           | VPC 3,5 x 25                        | 3,5 x 25  | 1000  |
| 696102                           | VPC 3,5 x 35                        | 3,5 x 35  | 1000  |
| 696101                           | VPC 3,5 x 45                        | 3,5 x 45  | 1000  |
| 696200                           | VPC 3,5 x 25                        | 3,5 x 25  | 100   |
| 696202                           | VPC 3,5 x 35                        | 3,5 x 35  | 100   |
| 696201                           | VPC 3,5 x 45                        | 3,5 x 45  | 100   |

| CODICE > CODE<br>CODE > NUMMER | ARTICOLO > ITEM<br>TYPE > ARTIKEL |  |
|--------------------------------|-----------------------------------|---|
|                                |                                   | Nr.   |
| 720699                         | MT 83                             | 1   |
| 720701                         | GP 01                             | 1   |



KG7

KG4





**CG**



Con vite > With screw  
Avec vis > Mit Schraube

KG3

| CODICE<br>CODE<br>CODE<br>NUMMER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FILETTATURA X LUNGH.<br>THREAD Ø X LENGTH<br>Ø DU FILETAGE X LONGUEUR<br>GEWINDE X DÜBELLÄNGE | Ø ESTERNO<br>OUTSIDE Ø<br>Ø ESTERNE<br>AUBEN Ø | SPESORE PARETE<br>WALL THICKNESS<br>ÉPAISSEUR<br>WANDSTARKE |     |
|----------------------------------|-------------------------------------|---|---|--|---|-----|
|                                  | <b>CG</b>                           | d [mm]  | d x L   | d <sub>nom</sub> [mm]                          | [mm]  | Nr. |
| 713010                           | CG 8-32                             | M4  | M4 x 38   | 8  | 3 - 14  | 100 |
| 713020                           | CG 11-37                            | M5  | M5 x 43   | 11   | 6 - 13  | 100 |
| 713030                           | CG 11-52                            | M5  | M5 x 57   | 11   | 3 - 16  | 50  |
| 713040                           | CG 11-65                            | M5  | M5 x 70   | 11   | 16 - 32   | 50  |
| 713050                           | CG 13-37                            | M6  | M6 x 43   | 13   | 6 - 13  | 50  |
| 713060                           | CG 13-52                            | M6  | M6 x 57   | 13   | 3 - 16  | 50  |
| 713070                           | CG 13-65                            | M6  | M6 x 70   | 13   | 16 - 32   | 50  |

**TC-V**



Tassello per cartongesso in nylon e zama con vite  
Anchor for plasterboard in nylon and zamak with screw  
Cheville nylon et zamak pour placoplatre avec vis  
Nylon- und Zamakdübel für Gipskarton mit Schraube

| CODICE<br>CODE<br>CODE<br>NUMMER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL |     |
|----------------------------------|-------------------------------------|-----|
|                                  | <b>TC-V</b>                         | Nr. |
| 713234                           | TCN-V 3 x 25 Nylon                  | 100 |
| 713235                           | TCZ-V 4,5 x 35 Zama > Zamac         | 100 |

KG2

**AP-TL**



Viti autoporforanti zincate bianche con testa larga a croce  
Selfdrilling screws white galvanised with large head cross  
Autoforeuse large tête à croix  
Selbstdurchbohrer mit Großem Kopf

| CODICE<br>CODE<br>CODE<br>NUMMER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | VITE Ø X LUNGHEZZA<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE |      |
|----------------------------------|-------------------------------------|---|------|
|                                  | <b>AP-TL</b>                        | d x Lv [mm]   | Nr.  |
| 696107                           | AP-TL 4,2 x 13                      | 4,2 x 13  | 1000 |
| 696112                           | AP-TL 4,2 x 19                      | 4,2 x 19  | 1000 |
| 696113                           | AP-TL 4,2 x 25                      | 4,2 x 25  | 1000 |

KG8

**GAS-B**



Per fissaggio su Gas Beton.  
Installazione con chiave a brugola  
Fixings on Gas Beton

KG6

| CODICE<br>CODE<br>CODE<br>NUMMER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø ESTERNE<br>AUBEN Ø | LUNGHEZZA<br>TOTALE<br>TOTAL<br>LENGTH | Ø INTERNO<br>Ø INTERIEUR<br>INNENØ | VITE Ø X LUNGH.<br>SCREW Ø FOR LENGTH<br>VIS Ø POUR LONGUEUR<br>SCHRAUBE Ø PER LÄNGE |     |
|----------------------------------|-------------------------------------|--|--|------------------------------------|--|-----|
|                                  | <b>GAS-B</b>                        | d <sub>nom</sub> [mm]                          | L [mm]                                 | Ø <sub>int</sub> [mm]              | d x Lv [mm]  | Nr. |
| 713306                           | GAS - B6                            | 10   | 60                                     | 6                                  | -  | 100 |
| 713308                           | GAS - B8                            | 12   | 70                                     | 8                                  | -  | 100 |
| 713310                           | GAS - B10                           | 14   | 80                                     | 10                                 | -  | 100 |

**SPE**



Spessori per serramenti  
Claps spacers for frames  
Épaisseurs pour batis  
Distanzstücke für Fenster und Türflügel

| CODICE<br>CODE<br>CODE<br>NUMMER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | SPESORE<br>THICKNESS<br>ÉPAISSEUR<br>DICKE |      |
|----------------------------------|-------------------------------------|--|------|
|                                  | <b>SPE</b>                          | L [mm]                                     | Nr.  |
| 650070                           | SPE Bianco > White ○                | 2  | 1000 |
| 650071                           | SPE Grigio > Grey ●                 | 3  | 800  |
| 650072                           | SPE Nero > Black ●                  | 5  | 500  |

KG9

**Dati carico | Load data | Données de charge | Lastdaten**

**LEGEND**

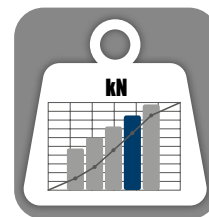
F<sub>rec</sub> [kN] Carico ammissibile  
Admissible load  
Charge admissible  
Zulässige Lasten

- > Carichi validi per singolo ancorante senza influenza di interasse e distanza dal bordo e h ≥ 2hef
- > Loads for single anchor with no influence of spacing and edge distance and with h ≥ 2hef
- > Charges valables pour chaque ancrage sans influence d'interaxe et distance du bord et h ≥ 2hef
- > Passende Ringe für den einzelnen Veranker, ohne Achsenabstandseinfluss und des Randabstands und h ≥ 2hef
- > 1kN = 100 Kg

- > Azione di taglio non diretta verso il bordo
- > Shear directed away from the edge
- > Action de cisaillement pas dirigée vers le bord
- > Queraktion nicht an den Rand gerichtet

- > Coefficiente di sicurezza globale incluso
- > General safety factor included
- > Coefficient de sécurité generale inclu
- > Generelle Sicherheitskoeffizient inbegriffen

- > Coefficiente lato carichi utilizzato = 1,4
- > Load increasing safety coefficient used = 1,4
- > Coefficient côté charge utilisé = 1,4
- > Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4

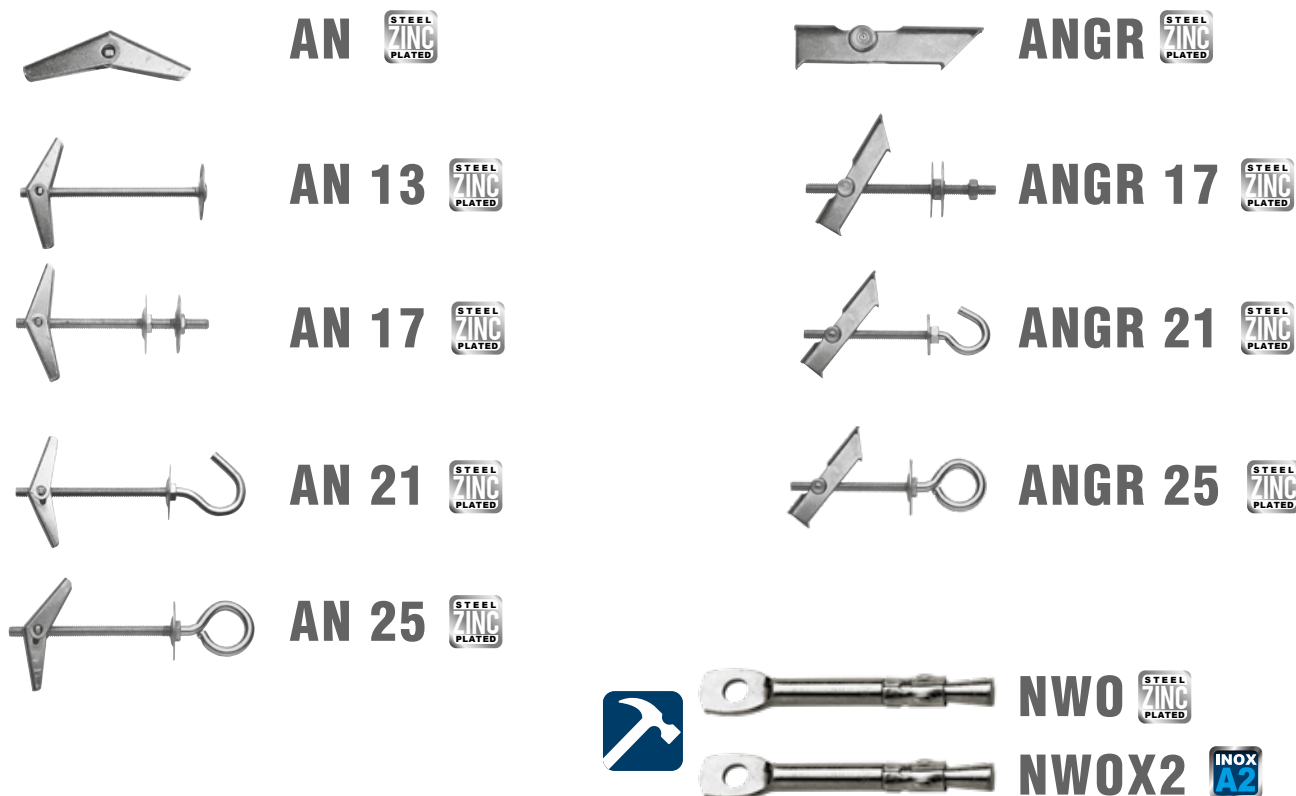


| ARTICOLO<br>ITEM | Cartongesso<br>Plaster board<br>Placoplatre<br>Gipskarton | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD | Gasbeton<br>Gasbeton<br>Gasbeton<br>Gasbeton |
|------------------|---|---------------------------------------|--|
|                  |   | F <sub>rec</sub> [kN]                 | F <sub>rec</sub> [kN]                        |
| CG 8             |   | 0,08                                  | -  |
| CG 11            |   | 0,12                                  | -  |
| CG 13            |   | 0,16                                  | -  |
| GAS-B 6          |   | -                                     | 0,15   |
| GAS-B 8          |   | -                                     | 0,20   |
| GAS-B 10         |   | -                                     | 0,30   |



**CS**

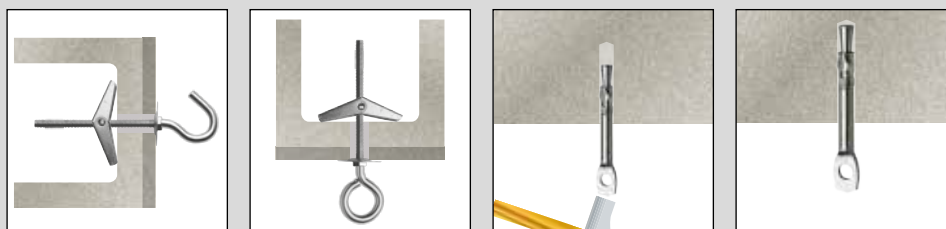
TASSELLI PER CONTROSOFFITTI E PARETI VUOTE  
ANCHORS FOR CEILINGS AND HALLOWS WALLS  
CHEVILLES POUR FAUX PLAFONDS ET PAROIS MINCES  
DÜBEL FÜR HÄNGEDECKEN UND HOHLWÄNDE



**Applicazioni | Applications | Applications | Anwendungen**



PROCEDURA DI INSTALLAZIONE  
INSTALLATION PROCEDURE  
PROCÉDURE D'INSTALLATION  
INSTALLATIONSVERFAHREN





**AN**



Solo ancorina > Only anchor  
Seulement ancrés > Nur Anker

KH3

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|-----|
| AN                               |                                     |  | d [mm]  | d <sub>0</sub> [mm]                  | Nr. |
| 695345                           | AN4                                 | solo ancorina<br>only anchor                       | M4  | 12                                   | 500 |
| 695356                           | AN5                                 | solo ancorina<br>only anchor                       | M5  | 15                                   | 500 |
| 695364                           | AN6                                 | solo ancorina<br>only anchor                       | M6  | 17                                   | 200 |
| 695365                           | AN8                                 | solo ancorina<br>only anchor                       | M8  | 20                                   | 100 |

⚠ M10 Su richiesta > On demand > Sur demande > Auf Wunsch lieferbar

**AN 13**



Vite > Screw > Vis > Schraube

KH4

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | Ø FILETT. X LUNGH.<br>THREAD Ø X LENGTH<br>Ø DU FILETAGE X LONGUEUR<br>Ø X DÜBELLÄNGE | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|---|-----|
| AN                               |                                     |  | d [mm]  | d <sub>0</sub> [mm]                  | d x L   | Nr. |
| 695349                           | AN4 13-80                           | vite   | M4  | 12                                   | M4 x 80   | 100 |
| 695351                           | AN5 13-80                           | vite   | M5  | 15                                   | M5 x 80   | 100 |
| 695354                           | AN5 13-120                          | vite   | M5  | 15                                   | M5 x 120  | 50  |
| 695363                           | AN6 13-80                           | vite   | M6  | 17                                   | M6 x 80   | 50  |
| 695369                           | AN8 13                              | vite   | M8  | 20                                   | M8 x 80   | 50  |

**AN 17**



Doppio dado > Double nut  
Double ecrou > Doppelte Mutter

KH5

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | Ø FILETT. X LUNGH.<br>THREAD Ø X LENGTH<br>Ø DU FILETAGE X LONGUEUR<br>Ø X DÜBELLÄNGE | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|---|-----|
| AN                               |                                     |  | d [mm]  | d <sub>0</sub> [mm]                  | d x L   | Nr. |
| 695346                           | AN4 17-100                          | doppio dado  | M4  | 12                                   | M4 x 100  | 100 |
| 695353                           | AN5 17                              | double nut   | M5  | 15                                   | M5 x 75   | 100 |
| 695359                           | AN6 17-100                          | doppio dado  | M6  | 17                                   | M6 x 100  | 50  |
| 695366                           | AN8 17                              | double nut   | M8  | 20                                   | M8 x 90   | 50  |

**AN 21**



Occhio aperto > Hook  
Crochet > Haken

KH6

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | d x L   | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|---------|-----|
| AN                               |                                     |  | d [mm]  | d <sub>0</sub> [mm]                  | d x L   | Nr. |
| 695348                           | AN4 21                              | occhio aperto                                      | M4  | 12                                   | M4 x 70 | 100 |
| 695355                           | AN5 21                              | hook   | M5  | 15                                   | M5 x 65 | 100 |
| 695362                           | AN6 21                              | occhio aperto                                      | M6  | 17                                   | M6 x 70 | 50  |
| 695368                           | AN8 21                              | hook   | M8  | 20                                   | M8 x 60 | 50  |

**AN 25**



Occhio > Eye  
Piton > Auge

KH7

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | d x L   | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|---------|-----|
| AN                               |                                     |  | d [mm]  | d <sub>0</sub> [mm]                  | d x L   | Nr. |
| 695347                           | AN4 25                              | occhio chiuso                                      | M4  | 12                                   | M4 x 70 | 100 |
| 695357                           | AN5 25                              | eye  | M5  | 15                                   | M5 x 65 | 100 |
| 695358                           | AN6 25                              | occhio chiuso                                      | M6  | 17                                   | M6 x 70 | 50  |
| 695367                           | AN8 25                              | eye  | M8  | 20                                   | M8 x 60 | 50  |

**ANGR**



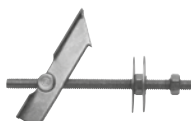
Solo ancorina > Only anchor  
Seulement ancrés > Nur Anker

KH8

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|-----|
| ANGR                             |                                     |  | d [mm]  | d <sub>0</sub> [mm]                  | Nr. |
| 695371                           | ANGR M6                             | solo ancorina                                      | M6  | 16                                   | 100 |
| 695375                           | ANGR M8                             | only anchor  | M8  | 20                                   | 100 |

⚠ M10 Su richiesta > On demand > Sur demande > Auf Wunsch lieferbar

**ANGR 17**

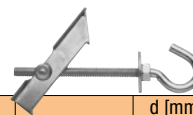


Doppio dado > Double nut  
Double ecrou > Doppelte Mutter

KH9

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | Ø FILETT. X LUNGH.<br>THREAD Ø X LENGTH<br>Ø DU FILETAGE X LONGUEUR<br>Ø X DÜBELLÄNGE | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|---|-----|
| ANGR                             |                                     |  | d [mm]  | d [mm]                               | d x L   | Nr. |
| 695360                           | ANGR 17 M6                          | double nut   | M6  | 16                                   | M6 x 100  | 50  |
| 695370                           | ANGR 17 M8                          | double nut   | M8  | 20                                   | M8 x 100  | 50  |

**ANGR 21**



Occhio aperto > Hook  
Crochet > Haken

KH4

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | d x L    | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|----------|-----|
| ANGR                             |                                     |  | d [mm]  | d <sub>0</sub> [mm]                  | d x L    | Nr. |
| 695361                           | ANGR 21 M6                          | occhio aperto                                      | M6  | 16                                   | M6 x 75  | 50  |
| 695373                           | ANGR 21 M8                          | hook   | M8  | 20                                   | M8 x 100 | 50  |

**ANGR 25**



Occhio chiuso > Eye  
Piton > Auge

KH8

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | ACCESSORI<br>ACCESSORIES<br>ACCESSOIRES<br>ZUBEHÖR | Ø FILETTATURA<br>THREAD Ø<br>FILET Ø<br>GEWINDE Ø | Ø FORO<br>HOLE Ø<br>Ø TROU<br>LOCH Ø | d x L   | Nr. |
|----------------------------------|-------------------------------------|--|---|--------------------------------------|---------|-----|
| ANGR                             |                                     |  | d [mm]  | d <sub>0</sub> [mm]                  | d x L   | Nr. |
| 695372                           | ANGR 25 M6                          | occh. chiuso                                       | M6  | 16                                   | M6 x 75 | 50  |
| 695374                           | ANGR 25 M8                          | eye  | M8  | 20                                   | M8 x 80 | 50  |

**NWO / NWOX2**



Tasselli per controsoffitti e pareti vuote > Anchor for ceilings and hollow walls  
Ancrages pour plafond et murs creux > Anker für Hängedecken u. Hohlwände

KH2

| CODICE<br>CODE<br>CODE<br>NUMBER | ARTICOLO<br>ITEM<br>TYPE<br>ARTIKEL | Ø ESTERNO<br>OUTSIDE Ø<br>Ø EXTERIEUR<br>AUBEN Ø | LUNGHEZZA TOTALE<br>TOTAL LENGTH<br>LONGUEUR TOT.<br>LÄNGE | Nr. |
|----------------------------------|-------------------------------------|--|--|-----|
| NWO                              |                                     | d <sub>nom</sub> [mm]                            | L [mm]   | Nr. |
| 708550                           | NWO 6-60 G                          | 6  | 60   | 100 |
| NWOX2                            |                                     | d <sub>nom</sub> [mm]                            | L [mm]   | Nr. |
| 708552                           | NWOX2 6-60                          | 6  | 60   | 100 |

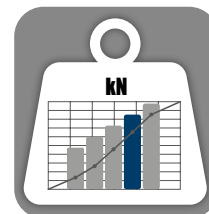


## Dati carico | Load data | Données de charge | Lastdaten

**LEGEND**

$F_{rec}$  [kN] Carico ammissibile  
Admissible load  
Charge admissible  
Zulässige Lasten

- > Carichi validi per singolo ancorante senza influenza di interasse e distanza dal bordo e  $h \geq 2h_{ef}$
- > Loads for single anchor with no influence of spacing and edge distance and with  $h \geq 2h_{ef}$
- > Charges valables pour chaque ancrage sans influence d'interaxe et distance du bord et  $h \geq 2h_{ef}$
- > Passende Ringe für den einzelnen Veranker, ohne Achsenabstandseinfluss und des Randabstands und  $h \geq 2h_{ef}$
- > 1kN = 100 Kg



- > Azione di taglio non diretta verso il bordo
- > Shear directed away from the edge
- > Action de cisaillement pas dirigée vers le bord
- > Queraktion nicht an den Rand gerichtet

- > Coefficiente di sicurezza globale incluso
- > General safety factor included
- > Coefficient de sécurité generale inclu
- > Generelle Sicherheitskoeffizient inbegriffen

- > Coefficiente lato carichi utilizzato = 1,4
- > Load increasing safety coefficient used = 1,4
- > Coefficient côté charge utilisé = 1,4
- > Verwendeter Lasterhöhungssicherheitskoeffizient = 1,4

Calcestruzzo non fessurato  
Non cracked Concrete  
Beton non fissuré  
Ungerissener Beton



| ARTICOLO<br>ITEM | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD |
|------------------|---------------------------------------|
|                  | $F_{rec}$ [kN]                        |
| NWO              | 0,40                                  |



| ARTICOLO<br>ITEM | Vite<br>Screw<br>Vis<br>Schraube      |  | Doppio dado<br>Double nut<br>Double ecrou<br>Doppelte Mutter |  | Occhiolo aperto<br>Hook<br>Crochet<br>Haken |  | Occhiolo chiuso<br>Eye<br>Piton<br>Auge |  |
|------------------|---------------------------------------|--|--|--|---|--|---|--|
|                  | AN 13                                 |  | AN 17  |  | AN 21                                       |  | AN 25                                   |  |
|                  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD |  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                        |  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD       |  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   |  |
|                  | $F_{rec}$ [kN]                        |  | $F_{rec}$ [kN]   |  | $F_{rec}$ [kN]                              |  | $F_{rec}$ [kN]                          |  |
| AN (M4)          | 0,30                                  |  | 0,30   |  | 0,08  |  | 0,08                                    |  |
| AN (M5)          | 0,35                                  |  | 0,35   |  | 0,10  |  | 0,10                                    |  |
| AN (M6)          | 0,40                                  |  | 0,40   |  | 0,15  |  | 0,15                                    |  |
| AN (M8)          | 0,55                                  |  | 0,55   |  | 0,20  |  | 0,20                                    |  |



| ARTICOLO<br>ITEM | Doppio dado<br>Double nut<br>Double ecrou<br>Doppelte Mutter |  | Occhiolo aperto<br>Hook<br>Crochet<br>Haken |  | Occhiolo chiuso<br>Eye<br>Piton<br>Auge |  |
|------------------|--|--|---|--|---|--|
|                  | ANGR 17  |  | ANGR 21                                     |  | ANGR 25                                 |  |
|                  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD                        |  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD       |  | CARICO AMMISSIBILE<br>ADMISSIBLE LOAD   |  |
|                  | $F_{rec}$ [kN]   |  | $F_{rec}$ [kN]                              |  | $F_{rec}$ [kN]                          |  |
| ANGR (M6)        | 0,45   |  | 0,15  |  | 0,15                                    |  |
| ANGR (M8)        | 0,60   |  | 0,20  |  | 0,20                                    |  |