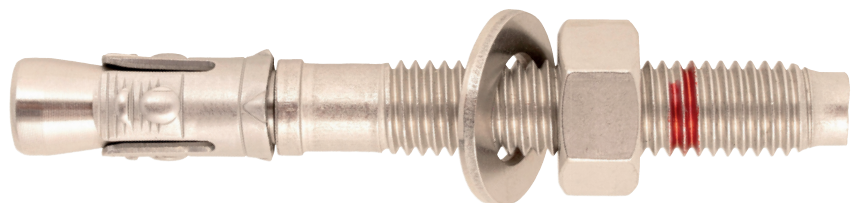


GOUJON D'ANCRAGE INOX A4 ETA OPTION 7

A4-BZ



BÉTON



CARACTÉRISTIQUES

Matière :

Acier inoxydable A4 (316 L)

Avantages :

- ATE béton option 7 pour béton non fissuré
- Pose simple et rapide à travers l'objet à fixer
- Écrou et rondelle prémontés
- Distance au bord, entraxe et épaisseur minimum du support faible
- Grande résistance à la corrosion

EXEMPLES D'APPLICATIONS

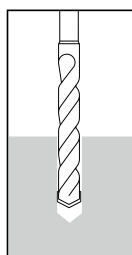
- Fixations de profils métalliques : garde-corps, poutres métalliques, équerres de bardage, sabots de charpente, consoles, chemins de câbles...
- Portes et portails industriels
- Supportage industriel

MISE EN ŒUVRE

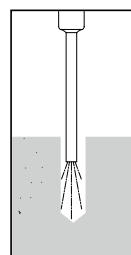
Principe de pose :

Lors de l'application du **couple de serrage (T_{inst})** sur l'**écrou** (avec clef ou boulonneuse), le cône remonte dans la **bague d'expansion**, ce qui provoque une ouverture des **segments** qui viennent se plaquer contre les parois de la cavité. Cela entraîne une adhérence par frottement dans le matériau support.

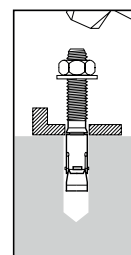
Instructions de pose :



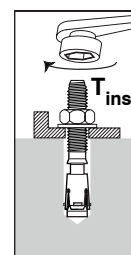
Percer le trou



Dépoussiérer le trou

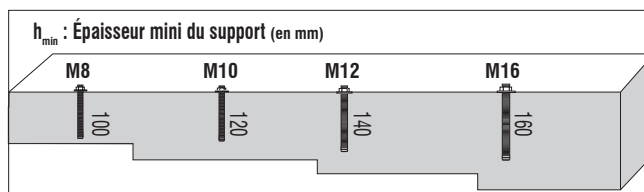
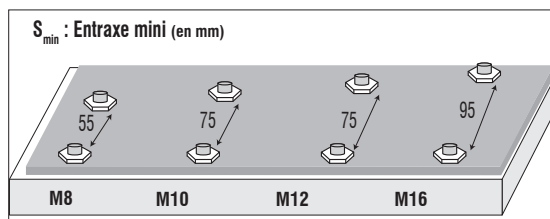
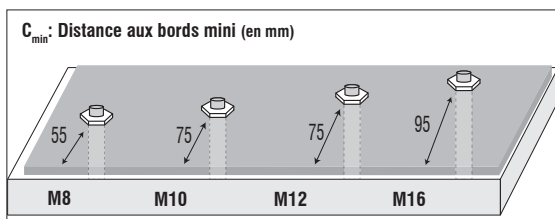


Monter la cheville au travers de la pièce à fixer



Appliquer le couple de serrage

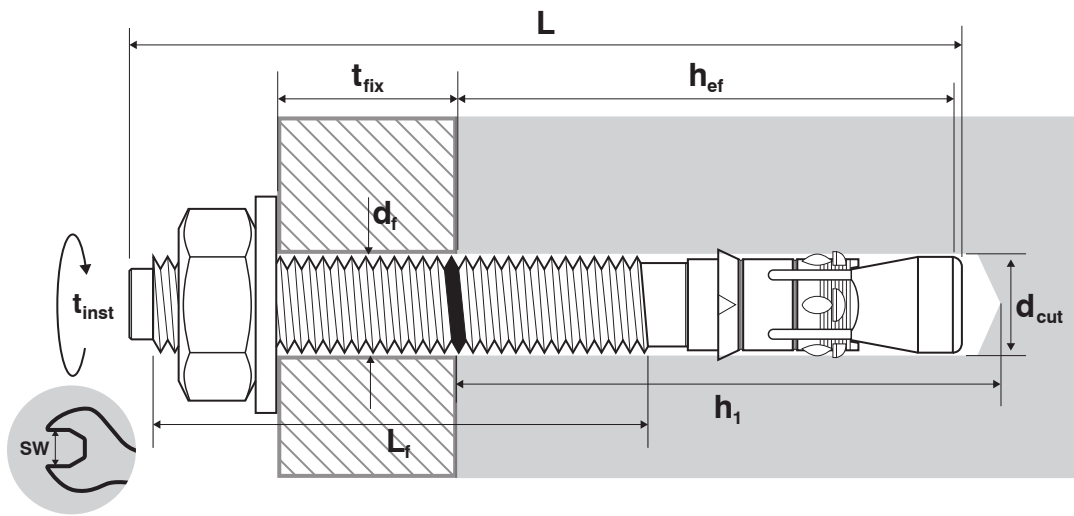
DONNÉES DE MISE EN ŒUVRE



DIMENSIONS

| Ø | L | L _f | t _{fix} | Références |
|------------|-----|----------------|------------------|----------------------|
| | mm | mm | mm | |
| M8 | 65 | 35 | 2 | A4-BZ2-08X065 |
| | 75 | 45 | 12 | A4-BZ2-08X075 |
| | 100 | 65 | 37 | A4-BZ2-08X100 |
| | 120 | 90 | 57 | A4-BZ2-08X120 |
| M10 | 90 | 65 | 10 | A4-BZ2-10X090 |
| | 100 | 65 | 20 | A4-BZ2-10X100 |
| | 120 | 85 | 40 | A4-BZ2-10X120 |
| | 140 | 100 | 60 | A4-BZ2-10X140 |
| M12 | 100 | 56 | 7 | A4-BZ2-12X100 |
| | 120 | 76 | 27 | A4-BZ2-12X120 |
| | 140 | 96 | 47 | A4-BZ2-12X140 |
| M16 | 125 | 68 | 14 | A4-BZ2-16X125 |
| | 145 | 94 | 34 | A4-BZ2-16X145 |

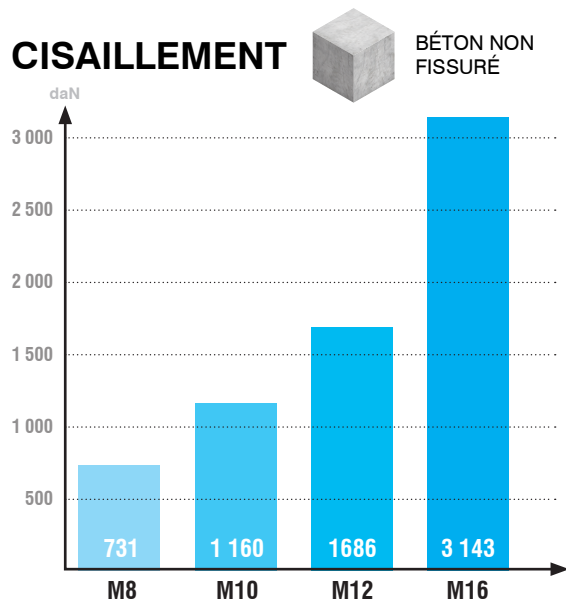
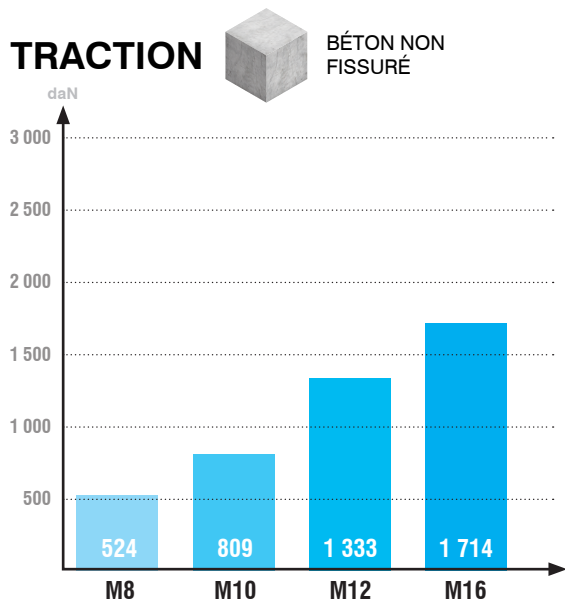
| | | M8 | M10 | M12 | M16 |
|---|-------------------|----|-----|-----|-----|
| Profondeur d'ancrage (mm) | h _{ef} | 45 | 60 | 70 | 85 |
| Ø perçage (mm) | d _{cut} | 8 | 10 | 12 | 16 |
| Profondeur mini de perçage (mm) | h ₁ | 65 | 80 | 95 | 115 |
| Ø maxi de perçage dans pièce à fixer (mm) | d _f | 9 | 12 | 14 | 18 |
| Ouverture de clef (mm) | SW | 13 | 17 | 19 | 24 |
| Couple de serrage (N.m) | T _{inst} | 30 | 45 | 60 | 110 |



Ø : diamètre du filetage
 L : longueur totale
 L_f : longueur de filetage
 t_{fix} : épaisseur maxi de la pièce à fixer

CHARGES DE SERVICE

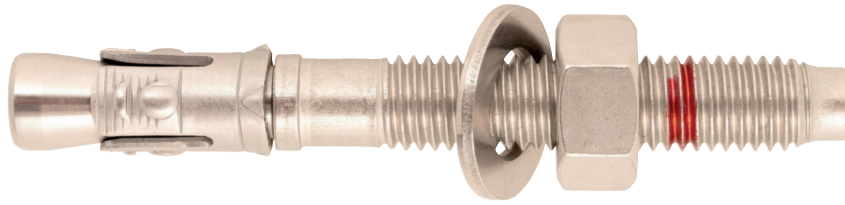
Les charges publiées sont calculées à partir des valeurs caractéristiques données dans les ETA sur lesquels des coefficients partiels de sécurité issus de l'ETAG001 ainsi qu'un coefficient partiel d'action $\gamma_f = 1,4$ sont appliqués. Les valeurs sont données pour des profondeurs d'ancrage standard dans du béton C20/25.



Pour les caractéristiques exactes de résistances et de pose, il convient de respecter toutes les exigences mentionnées dans l'évaluation technique européenne ETE ainsi que sur la notice de pose.

THROUGHBOLT ANCHOR - STAINLESS STEEL A4 ETA OPTION 7

A4-BZ



FEATURES

Material : Stainless steel A4 (316 L)

- Advantages :**
- ETA : Concrete option 7 for non cracked concrete
 - easy and fast installation through the fixture
 - Pre-assembled nut and washer
 - Low minimum edge spacing, distance and material thickness
 - Strong resistance to corrosion

APPLICATION EXAMPLES

- Railings, steel beams, consoles, cable trays
- Industrial doors and gates
- Tension anchor
- Anchor plates with slotted holes
- Facade sub structures
- Anchoring wooden beams

INSTALLATION

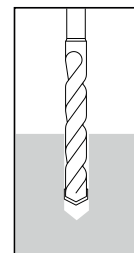
Installation process :

When applying the **torque setting (T_{inst})** to the **nut** (with ratchet or wrench), the cone at the bottom of the anchor pulls into the **expansion ring**, which causes the segments of the ring to open.

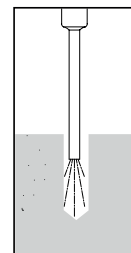
They are then pressed against the wall of the cavity causing adhesion through the support material.

Suitable for pre-positioning and push through application.

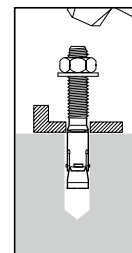
Installation steps:



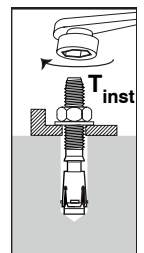
Drill the hole



Remove the dust with a pump

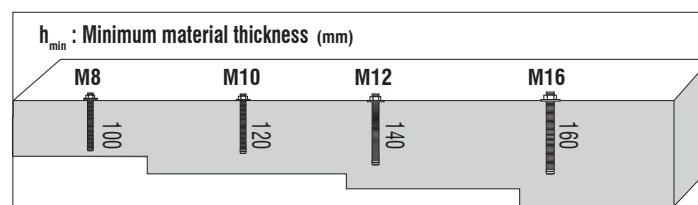
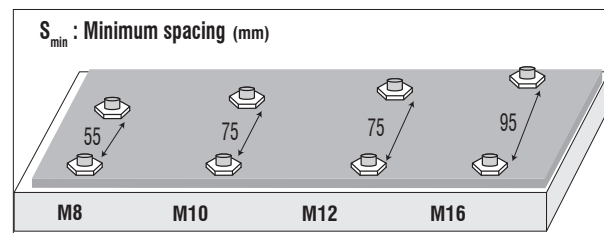
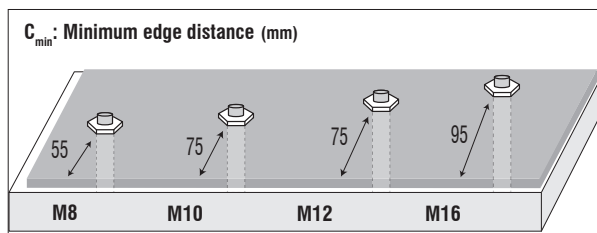


Put the anchor into the hole through the fixture



Apply Torque setting

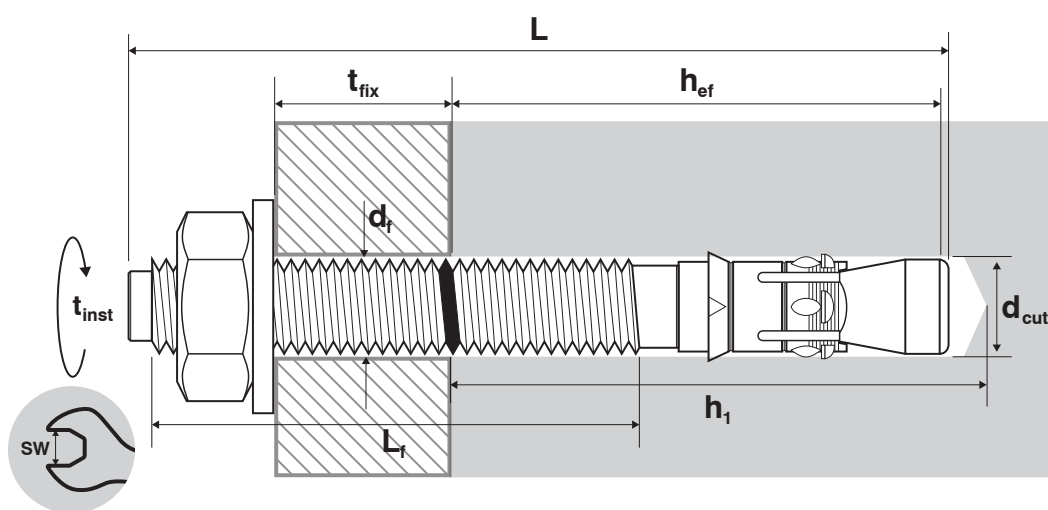
INSTALLATION DATAS



DIMENSIONS & APPLICATION DATAS

| \emptyset | L | L _f | t _{fix} | References |
|-------------|-----|----------------|------------------|---------------|
| | mm | mm | mm | |
| M8 | 65 | 35 | 2 | A4-BZ2-08X065 |
| | 75 | 45 | 12 | A4-BZ2-08X075 |
| | 100 | 65 | 37 | A4-BZ2-08X100 |
| | 120 | 90 | 57 | A4-BZ2-08X120 |
| M10 | 90 | 65 | 10 | A4-BZ2-10X090 |
| | 100 | 65 | 20 | A4-BZ2-10X100 |
| | 120 | 85 | 40 | A4-BZ2-10X120 |
| | 140 | 100 | 60 | A4-BZ2-10X140 |
| M12 | 100 | 56 | 7 | A4-BZ2-12X100 |
| | 120 | 76 | 27 | A4-BZ2-12X120 |
| | 140 | 96 | 47 | A4-BZ2-12X140 |
| M16 | 125 | 68 | 14 | A4-BZ2-16X125 |
| | 145 | 94 | 34 | A4-BZ2-16X145 |

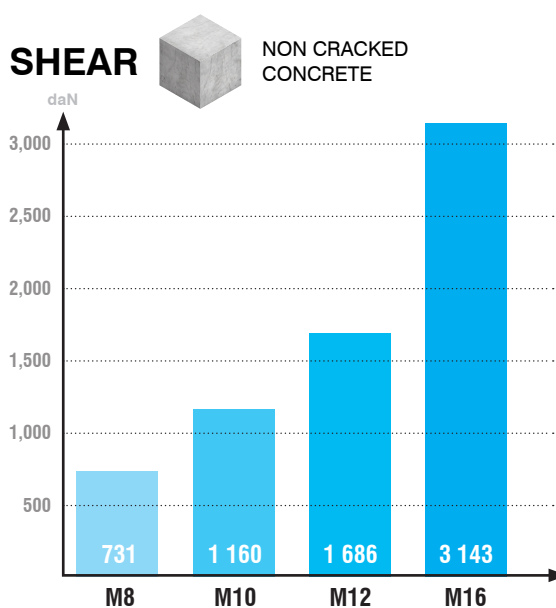
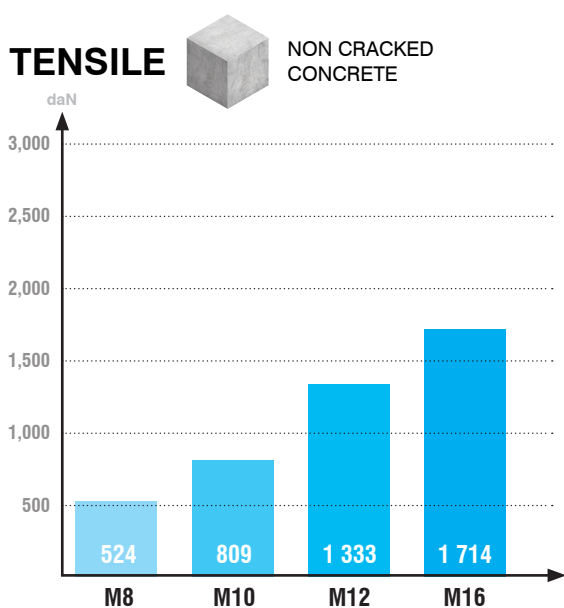
| | | M8 | M10 | M12 | M16 |
|--------------------------------------|-------------------|----|-----|-----|-----|
| Anchor length (mm) | h _{ef} | 45 | 60 | 70 | 85 |
| Ø Drill size (mm) | d _{cut} | 8 | 10 | 12 | 16 |
| Min. drill depth (mm) | h ₁ | 65 | 80 | 95 | 115 |
| Ø clearance hole in the fixture (mm) | d _i | 9 | 12 | 14 | 18 |
| Wrench size/socket size (mm) | S _w | 13 | 17 | 19 | 24 |
| Torque setting (N.m) | T _{inst} | 30 | 45 | 60 | 110 |



\emptyset : Thread diameter
 L : Total length
 L_f : Thread length
 T_{fix} : Maximum thickness of the fixture

RECOMMENDED LOADS

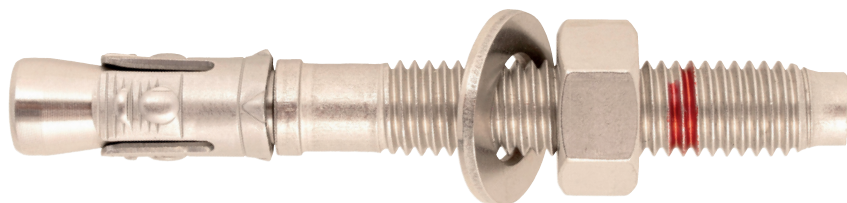
Loads are calculated from published characteristic values in the ETA on which partial safety factors from the ETAG001 and a partial coefficient action $\gamma_f = 1.4$ are applied. Values are given for standard anchor depth for non-cracked concrete C20 / 25.



For accurate loads and installation data, requirements specified in the ETA must be respected as well as the installation guide.

KOTWA TRZPIENIOWA STAL NIERDZEWNA A4
OPCJA 7

A4-BZ

BETON
NIEZARYSOWANYEuropean
Technical
Assesment
Option 7
ETA - 21/0960Program
kalkulacyjny

CECHY

Materiał :

Stal nierdzewna A4 (316 L)

Zalety :

- ETA beton opcja 7 dla betonu niezarysowanego
- Łatwe i szybkie przekładanie przez przedmiot do przymocowania
- Nakrętka i podkładka okrągła w zestawie
- Odległość od krawędzi, rozstaw i grubość minimalne dla słabego podłoża
- Duża odporność na korozję

PRZYKŁADY UŻYCIA

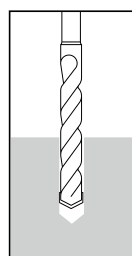
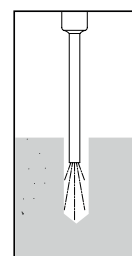
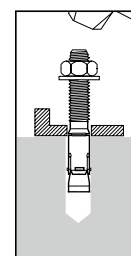
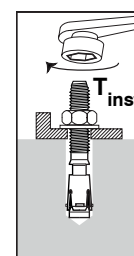
- Mocowanie profili metalowych: balustrady, belki metalowe, kątowniki podwaliny, wsporniki belki, wsporniki, kanały kablowe...
- Drzwi i portale przemysłowe
- Podpory przemysłowe

MONTAŻ

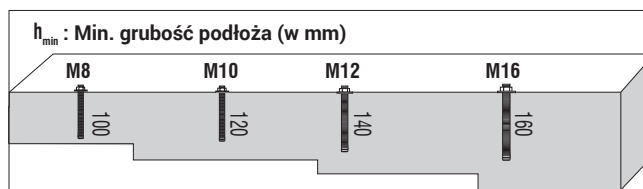
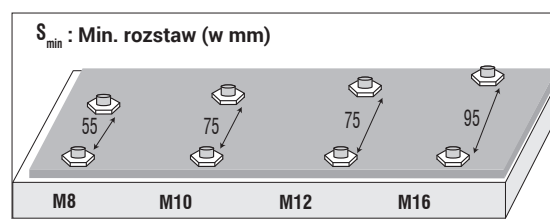
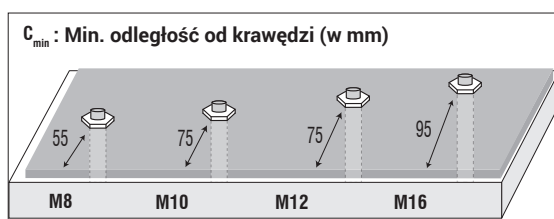
Zasada montażu :

Podczas przykładania momentu dokręcania (T_{inst}) do nakrętki (przy pomocy klucza lub wkrętarki), stożek wkręca się w pierścieni rozprężny, co powoduje otwarcie segmentów, które będą napierać na ścianki wgłębienia. To z kolei powoduje przyczepność poprzez tarcie o tworzywo podłoża.

Instrukcja montażu:

Wywiercić
otwórUsunąć pył
z otworuPrzełożyć śrubę
przez mocowany
przedmiotPrzyłożyć
moment
dokręcenia

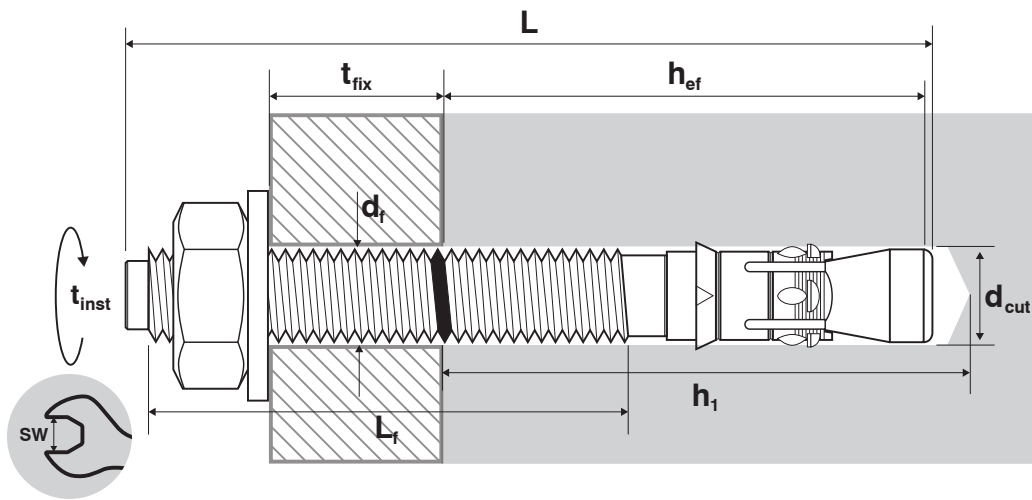
DANE MONTAŻOWE



WYMIARY

| \emptyset | L | L_f | t_{fix} | Symbol |
|-------------|-----|-------|-----------|---------------|
| | mm | mm | mm | |
| M8 | 65 | 35 | 2 | A4-BZ2-08X065 |
| | 75 | 45 | 12 | A4-BZ2-08X075 |
| | 100 | 65 | 37 | A4-BZ2-08X100 |
| | 120 | 90 | 57 | A4-BZ2-08X120 |
| M10 | 90 | 65 | 10 | A4-BZ2-10X090 |
| | 100 | 65 | 20 | A4-BZ2-10X100 |
| | 120 | 85 | 40 | A4-BZ2-10X120 |
| | 140 | 100 | 60 | A4-BZ2-10X140 |
| M12 | 100 | 56 | 7 | A4-BZ2-12X100 |
| | 120 | 76 | 27 | A4-BZ2-12X120 |
| | 140 | 96 | 47 | A4-BZ2-12X140 |
| M16 | 125 | 68 | 14 | A4-BZ2-16X125 |
| | 145 | 94 | 34 | A4-BZ2-16X145 |

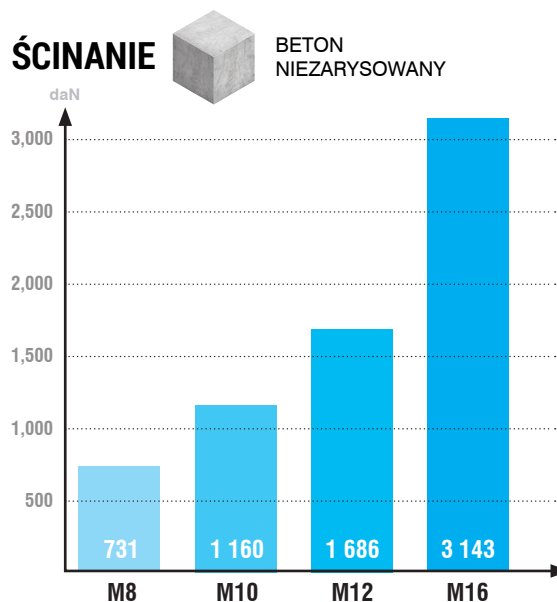
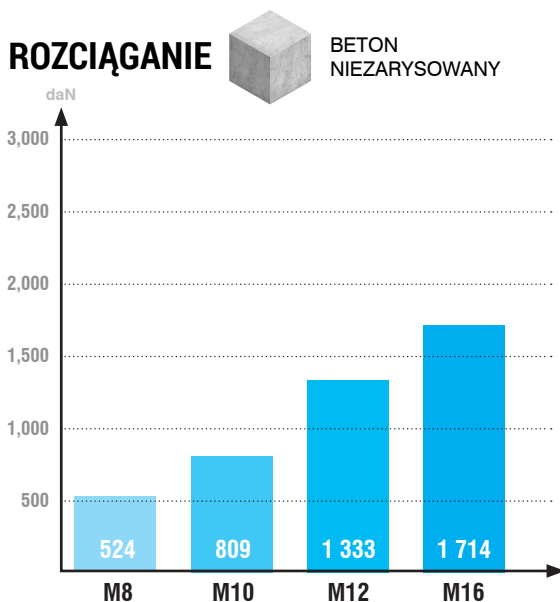
| | | M8 | M10 | M12 | M16 |
|--|------------|----|-----|-----|-----|
| Głębokość zakotwienia (mm) | h_{ef} | 45 | 60 | 70 | 85 |
| \emptyset otworu (mm) | d_{cut} | 8 | 10 | 12 | 16 |
| Min. głębokość otworu (mm) | h_1 | 65 | 80 | 95 | 115 |
| \emptyset maks. mocowanego przedmiotu (mm) | d_f | 9 | 12 | 14 | 18 |
| Rozmiar klucza (mm) | S_w | 13 | 17 | 19 | 24 |
| Moment dokręcenia (N.m) | T_{inst} | 30 | 45 | 60 | 110 |



\emptyset : średnica gwintu
 L: łączna długość
 L_f : długość gwintu
 t_{fix} : efektywna głębokość zakotwienia

ZAKRES OBCIĄŻEŃ

Przedstawiony zakres został wyliczony na podstawie charakterystycznych wartości podanych w ETA, do których zostały przystawione częściowe współczynniki bezpieczeństwa pochodzące z ETAG001 oraz częściowy współczynnik działania $\chi_f = 1.4$. Podane wartości dotyczą standardowych głębokości kotwienia dla betonu C20/25.



Dla zachowania poprawnych cech wytrzymałości i aplikacji, należy przestrzegać wszystkich wymagań zawartych w europejskiej aprobacie technicznej ETA, a także w instrukcji motažu.