

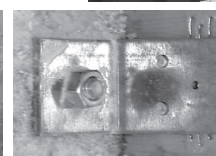
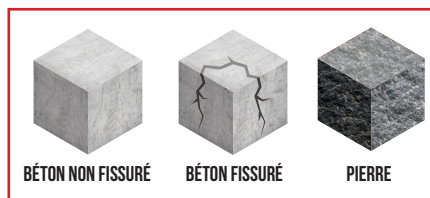
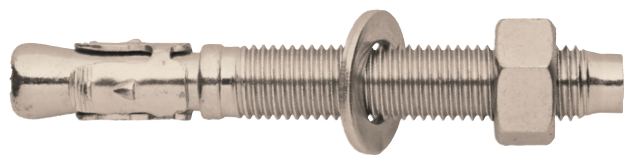
GOUJON D'ANCRAGE INOX HAUTE SÉCURITÉ

A4-BZ2

European
Technical
Assessment
0679 - CPR - 1027
ETA - 14/0081
ETAG 00/1 et 2
Opcja 1



Logiciel de calcul



CARACTÉRISTIQUES

Matière :

Acier inoxydable A4 (316 L)

Avantages :

- ATE béton option 1 pour béton fissuré et 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
- Tenue au feu (F120)
- Grande résistance à la corrosion

EXEMPLES D'APPLICATIONS

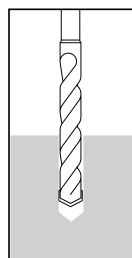
- Fixations de profils métalliques : garde-corps, poutres métalliques, équerres de bardage, sabots de charpente, consoles, chemins de câbles...
- Portes et portails industriels
- Supportage industriel

MISE EN ŒUVRE

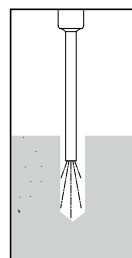
Principe de pose :

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.

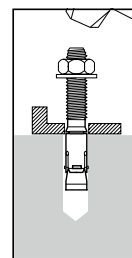
Instructions de pose :



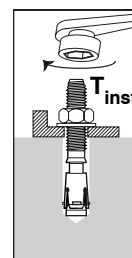
Percer le trou



Dépoussiérer le trou

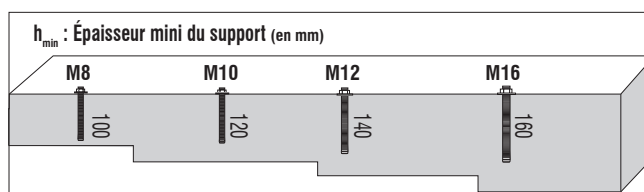
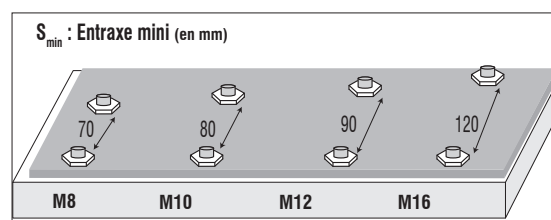
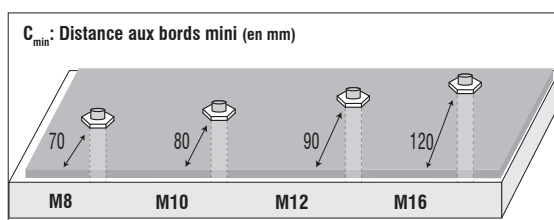


Monter la cheville au travers de la pièce à fixer



Appliquer le couple de serrage

DONNÉES DE MISE EN ŒUVRE

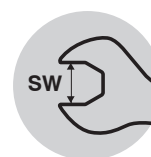
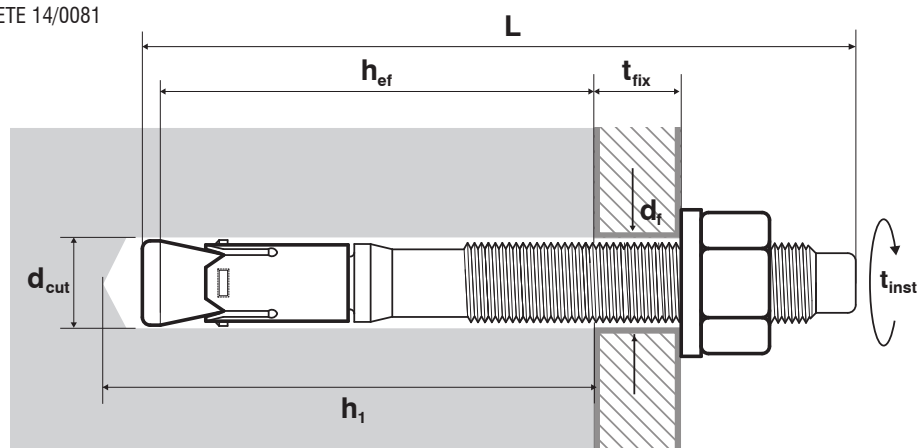


DIMENSIONS

Ø	L	t _{fix}	h _{ef}	Références
	mm	mm	mm	
M8	65	5	45	A4-BZ2-08x65*
	75	15	45	A4-BZ2-08x75
	100	40	45	A4-BZ2-08x100
	120	60	45	A4-BZ2-08x120
M10	90	10	60	A4-BZ2-10x90
	100	20	60	A4-BZ2-10x100
	120	40	60	A4-BZ2-10x120
	140	60	60	A4-BZ2-10x140
M12	100	5	70	A4-BZ2-12x100*
	120	25	70	A4-BZ2-12x120
	140	45	70	A4-BZ2-12x140
M16	125	15	85	A4-BZ2-16x125*
	145	35	85	A4-BZ2-16x145*

*Dimensions hors ETE 14/0081

		M8	M10	M12	M16*
Profondeur d'ancrage (mm)	h_{ef}	45	60	70	85
Ø perçage	d_{cut}	8	10	12	16
Profondeur mini de perçage	h_1	60	75	85	100
Ø maxi de perçage dans pièce à fixer	d_f	9	12	14	18
Ouverture de clef	S_w	13	17	19	24
Couple de serrage (N.m)	T_{inst}	20	45	60	130



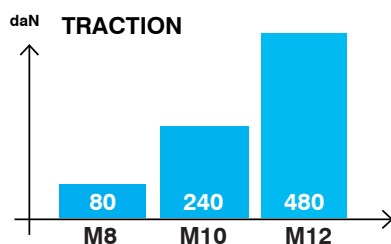
Ø: diamètre du filetage
L: longueur totale
t_{fix}: épaisseur maxi de la pièce à fixer

CHARGES DE SERVICE

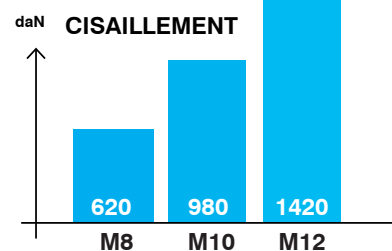
Les charges publiées sont calculées à partir des valeurs caractéristiques données dans les ETA sur lesquels des coefficients partiels de sécurité issus de l'ETAG001 ainsi qu'un coefficient partiel d'action $\gamma_f = 1,4$ sont appliqués. Les valeurs sont données pour des profondeurs d'ancrage standard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



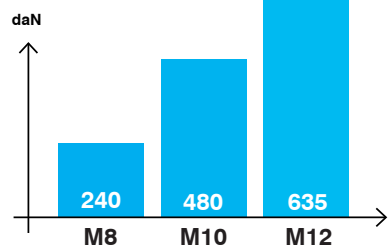
BÉTON
FISSURÉ



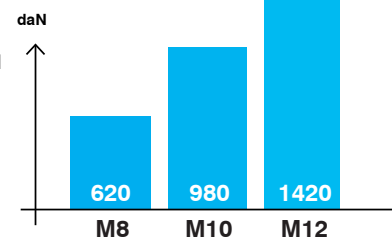
BÉTON
FISSURÉ



BÉTON
NON
FISSURÉ



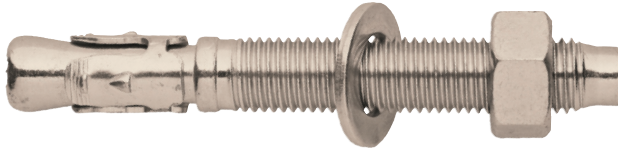
BÉTON
NON
FISSURÉ



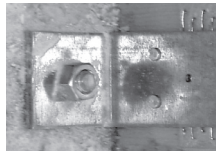
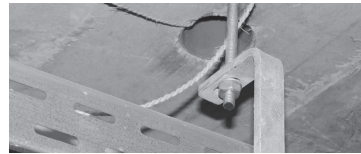
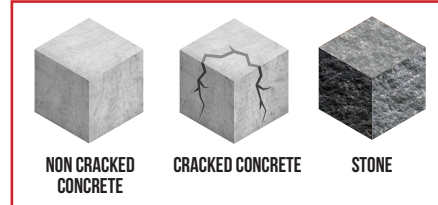
Pour les caractéristiques exactes de résistances et de pose, il convient de respecter toutes les exigences mentionnées dans l'évaluation technique européenne ETE 14/0081 ainsi que sur la notice de pose.

THROUGHBOLT ANCHOR - STAINLESS STEEL A4 ETA OPTION 1

A4-BZ2



European
Technical
Assessment
0679 - CPR - 1027
ETA - 14/0081
ETAG 00/1 et 2
Option1



FEATURES

Material : Stainless steel A4 (316 L)

- Advantages :**
- ETA : Concrete option 1 for cracked and non cracked concrete
 - easy and fast installation through the fixture
 - Pre-assembled nut and washer
 - Low minimum edge spacing, distance and material thickness
 - Fire resistant (FB120)
 - 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

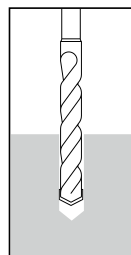
Installation process :

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.

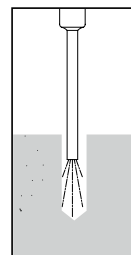
They are then pressed against the wall of the cavity causing adhesion through the support material.

Suitable for pre-positioning and push through application.

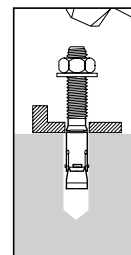
Installation steps :



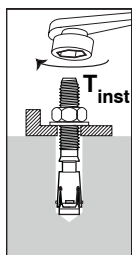
Drill the hole



Remove the dust with a pump

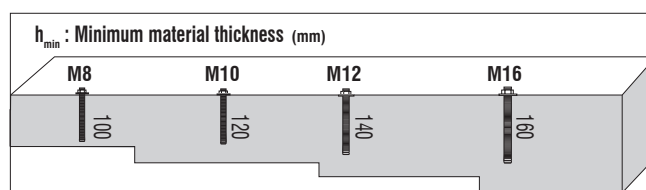
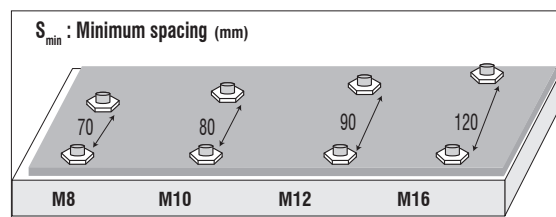
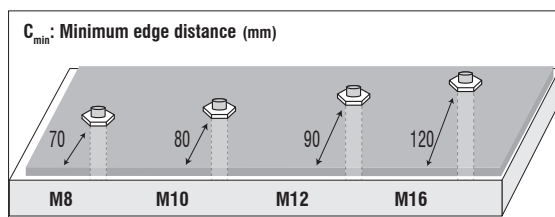


Put the anchor into the hole through the fixture



Apply Torque setting

INSTALLATION DATAS

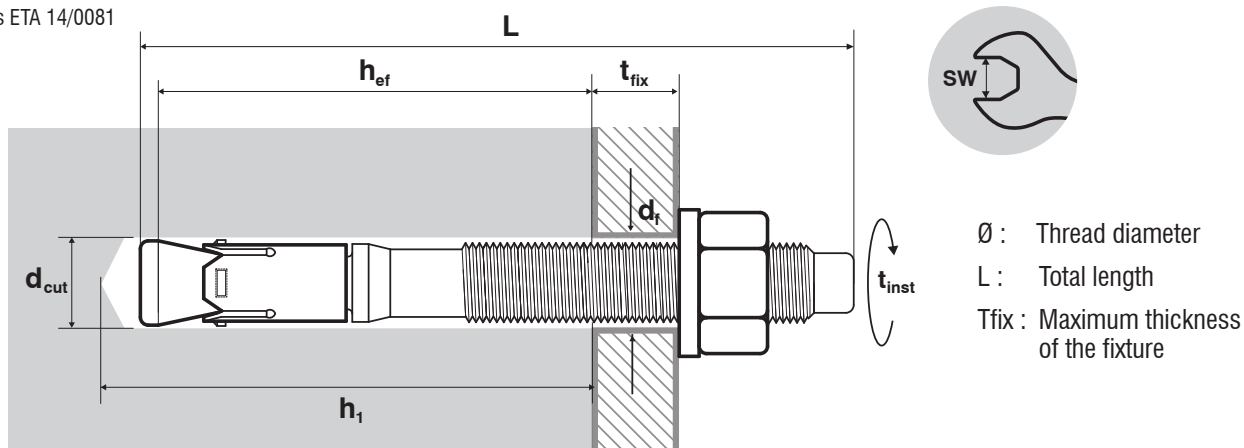


DIMENSIONS & APPLICATION DATAS

Ø	L	t _{fix}	h _{ef}	Références
	mm	mm	mm	
M8	65	5	45	A4-BZ2-08x65*
	75	15	45	A4-BZ2-08x75
	100	40	45	A4-BZ2-08x100
	120	60	45	A4-BZ2-08x120
M10	90	10	60	A4-BZ2-10x90
	100	20	60	A4-BZ2-10x100
	120	40	60	A4-BZ2-10x120
	140	60	60	A4-BZ2-10x140
M12	100	5	70	A4-BZ2-12x100*
	120	25	70	A4-BZ2-12x120
	140	45	70	A4-BZ2-12x140
M16	125	15	85	A4-BZ2-16x125*
	145	35	85	A4-BZ2-16x145*

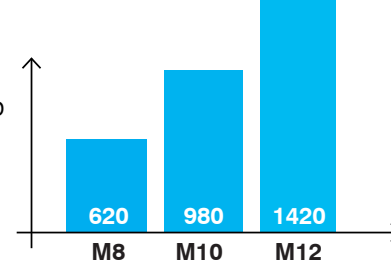
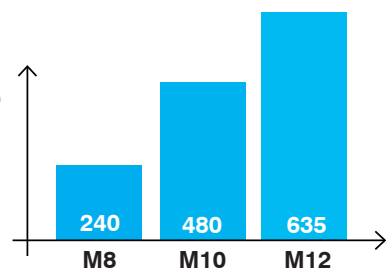
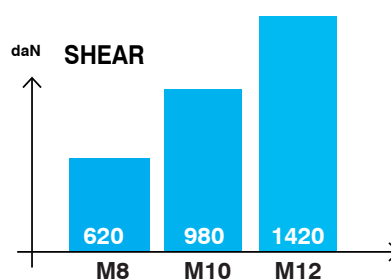
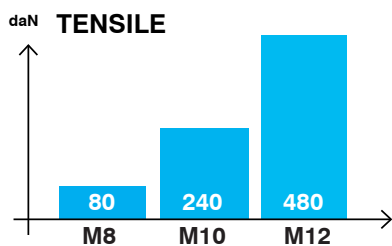
*Overall dimensions ETA 14/0081

		M8	M10	M12	M16*
Anchor length (mm)	h _{ef}	45	60	70	85
Ø Drill size	d _{cut}	8	10	12	16
Min. drill depth	h ₁	60	75	85	100
Ø clearance hole in the fixture	d _f	9	12	14	18
Wrench size/socket size	S _w	13	17	19	24
Torque setting (N.m)	T _{inst}	20	45	60	130



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 14/0081 must be respected as well as the installation guide.

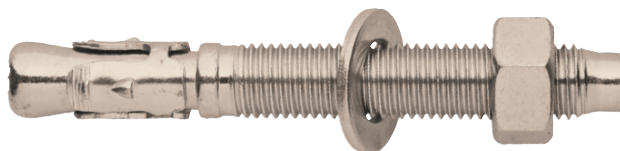
KOTWA TRZPIENIOWA STAL NIERDZEWNA A4

A4-BZZ

European
Technical
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ETAG 00/1 et 2
Opcja 1



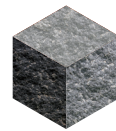
Program kalkulacyjny



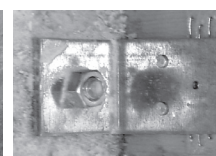
BETON
NIEZARYSOWANY



BETON
ZARYSOWANY



KAMIEŃ



CECHY

- Materiał :**
Stal nierdzewna A4 (316 L)
- Zalety :**
- ETA beton opcja 1 dla betonu zarysowanego i 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
 - Odporna na ogień (F120)
 - Duża odporność na korozję

PRZYKŁADY UŻYCIA

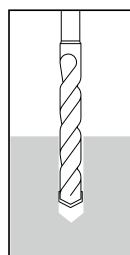
- Mocowanie profili metalowych: balustrady, belki metalowe, kątowniki podwaliny, wsporniki belki, wsporniki, kanały kablowe...
- Drzwi i portale przemysłowe
- Podpory przemysłowe

MONTAŻ

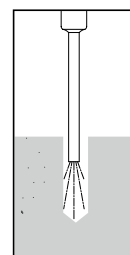
Zasada montażu :

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

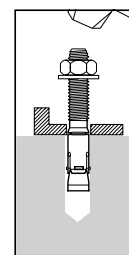
Instrukcja montażu :



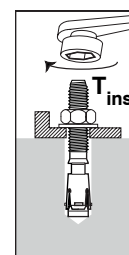
Wywiercić
otwór



Usunąć pył z
otworu

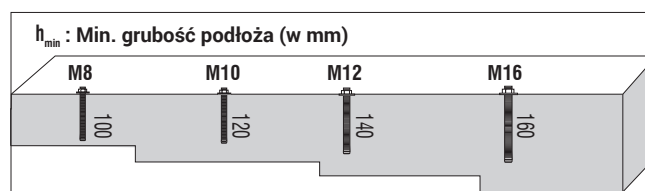
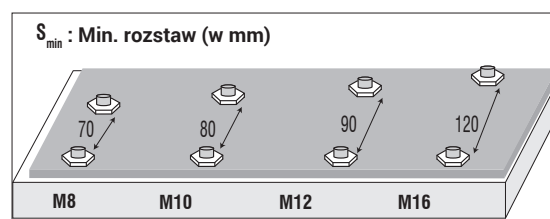
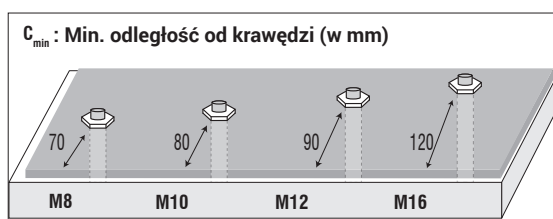


Przełożyć śrubę
przez mocowany
przedmiot



Przyłożyć
moment
dokręcenia

DANE MONTAŻOWE

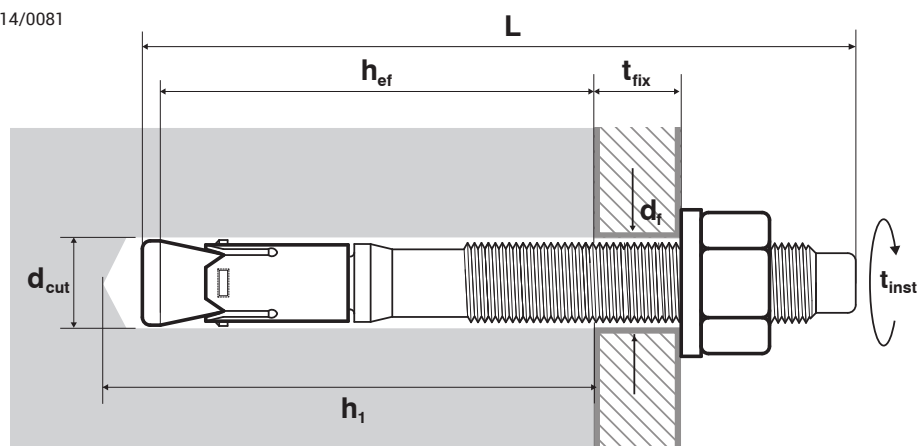


WYMIARY

Ø	L	t _{fix}	h _{ef}	Nr artykułu
	mm	mm	mm	
M8	65	5	45	A4-BZ2-08x65*
	75	15	45	A4-BZ2-08x75
	100	40	45	A4-BZ2-08x100
	120	60	45	A4-BZ2-08x120
M10	90	10	60	A4-BZ2-10x90
	100	20	60	A4-BZ2-10x100
	120	40	60	A4-BZ2-10x120
	140	60	60	A4-BZ2-10x140
M12	100	5	70	A4-BZ2-12x100*
	120	25	70	A4-BZ2-12x120
	140	45	70	A4-BZ2-12x140
M16	125	15	85	A4-BZ2-16x125*
	145	35	85	A4-BZ2-16x145*

Głębokość zakotwienia (mm)	h _{ef}	M8	M10	M12	M16*
Ø otworu	d _{cut}	8	10	12	16
Min. głębokość otworu	h ₁	60	75	85	100
Ø maks. mocowanego przedmiotu	d _i	9	12	14	18
Rozmiar klucza	S _w	13	17	19	24
Moment dokręcenia (N.m)	T _{inst}	20	45	60	130

*Wymiary poza ETA 14/0081



Ø: średnica gwintu

L: łączna długość

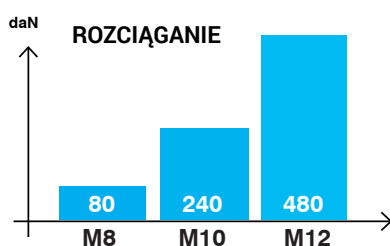
t_{fix}: efektywna głębokość zakotwienia

ZAKRES OBCIĄŻEŃ

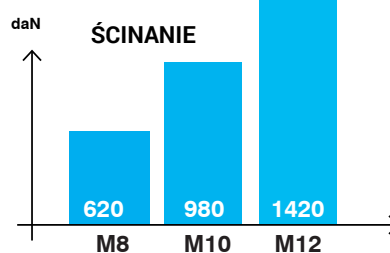
Przedstawiony zakres został wyliczony na podstawie charakterystycznych wartości podanych w ETA, do których zostały przystawione częściowe współczynniki bezpieczeństwa pochodzące z ETAG001 oraz częściowy współczynnik działania $\chi_f = 1,4$. Podane wartości dotyczą standardowych głębokości kotwienia dla betonu C20/25.



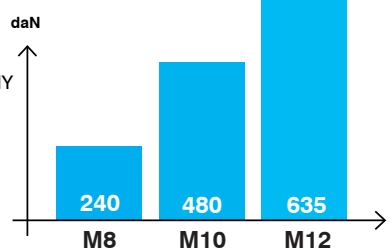
BETON
ZARYSOWANY



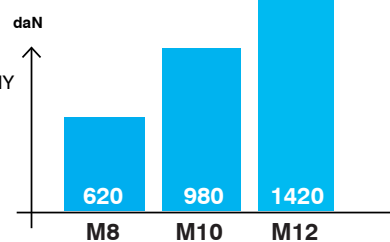
BETON
ZARYSOWANY



BETON
NIEZARYSOWANY



BETON
NIEZARYSOWANY



Dla zachowania poprawnych cech wytrzymałości i aplikacji, należy przestrzegać wszystkich wymagań zawartych w europejskiej aprobacie technicznej ETA 14/0081, a także w instrukcji montażu.