CHEVILLE DE SÉCURITÉ HAUTE PERFORMANCE
VERSION TÊTE HEXAGONALE

HVE



CATÉGORIE SISMIQUE C1

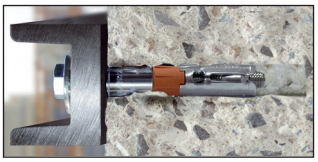
CATÉGORIE SISMIQUE C2

BÉTON
BÉTON FISSURÉ



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OPTION 1
10/0060

FB120



CARACTÉRISTIQUES

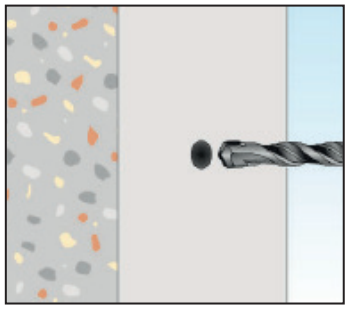
Matière :
Acier électrozingué

Avantages :
- Pose simple et rapide à travers l'objet à fixer
- Cheville femelle : démontable
- ATE béton option 1 pour béton fissuré et non fissuré
- Tenue au feu (120 minutes)
- Utilisation possible sous action sismique (performance catégorie C1 et C2)

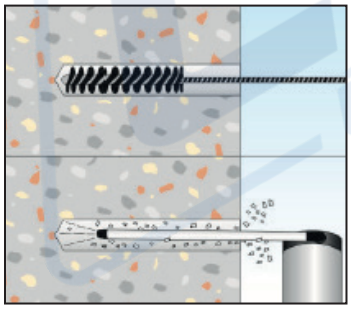
EXEMPLES D'APPLICATIONS

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

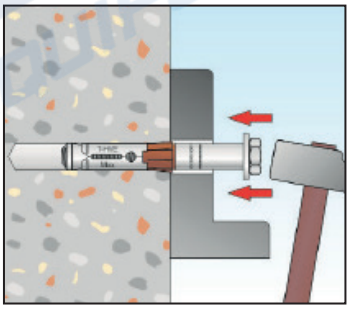
MISE EN ŒUVRE



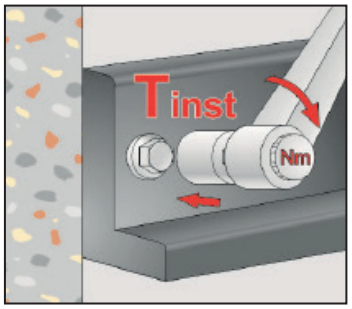
Percer le trou



Dépoussiérer le trou

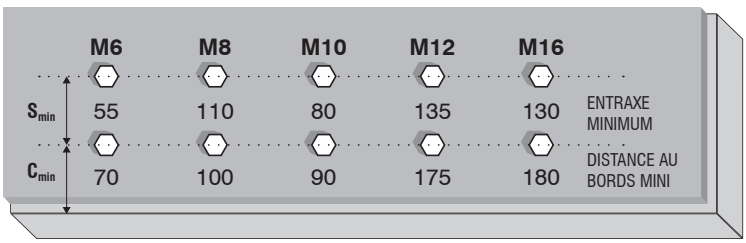


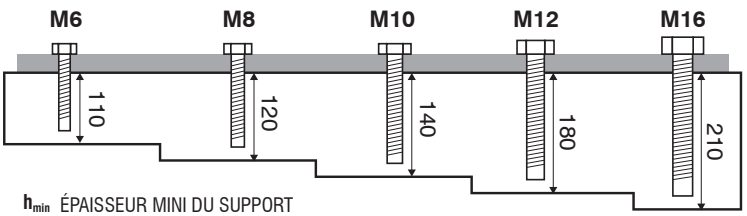
Monter la cheville au travers de la pièce à fixer



Serrer au couple indiqué dans les données de montage

DONNÉES DE MISE EN ŒUVRE

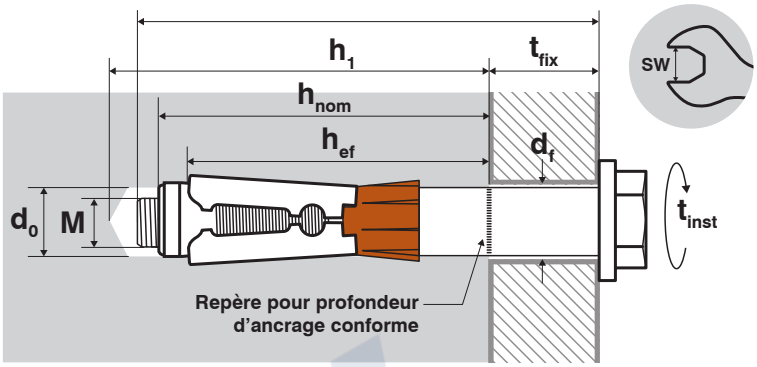




DIMENSIONS & DONNÉES DE MONTAGE

Type	M	L	t_{fix}	Référence
		mm	mm	
HVE M6	M6	70	5	HVE10/5
		80	15	HVE10/15
		100	35	HVE10/35
HVE M8	M8	80	10	HVE12/10
		100	30	HVE12/30
		120	50	HVE12/50
HVE M10	M10	100	20	HVE16/20
		120	40	HVE16/40
		140	60	HVE16/60
HVE M12	M12	120	20	HVE18/20
		150	50	HVE18/50
HVE M16	M16	140	20	HVE24/20
		170	50	HVE24/50

		M6	M8	M10	M12	M16
Profondeur d'ancrage effective *(mm)*	h_{ef}	55	60	70	90	105
Ø perçage *(mm)*	d_0	10	12	16	18	24
Profondeur mini de perçage *(mm)*	h_1	80	90	100	120	140
Profondeur d'ancrage hors-tout *(mm)*	h_{nom}	65	70	80	100	120
Ø maxi de perçage dans pièce à fixer *(mm)*	d_f	12	14	18	20	26
Ouverture de clef *(mm)*	SW	10	13	17	19	24
Couple de serrage *(N.m.)*	T_{inst}	15	30	50	100	160



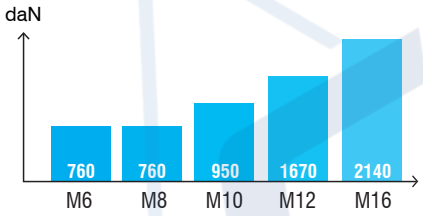
CHARGES DE SERVICE

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.

TRACTION

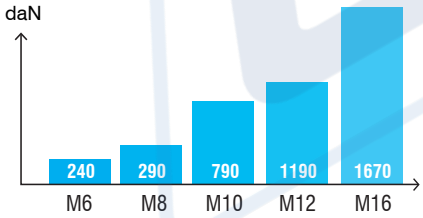


Béton non fissuré



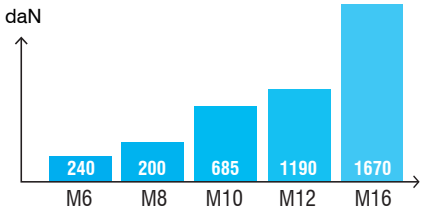


Béton fissuré



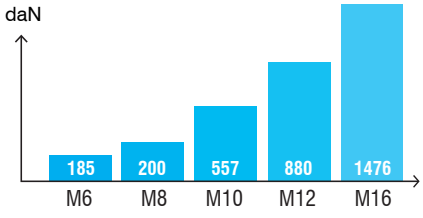
CATÉGORIE SISMIQUE C1

Sous contrainte sismique catégorie C1

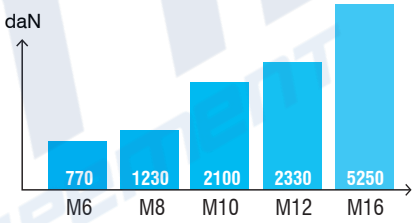


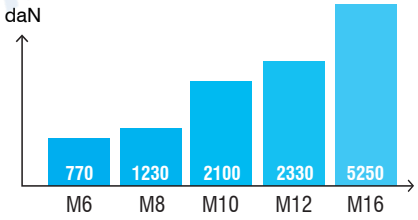
CATÉGORIE SISMIQUE C2

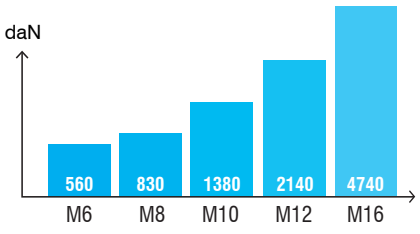
Sous contrainte sismique catégorie C2

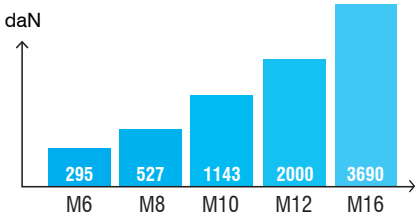


CISAILLEMENT







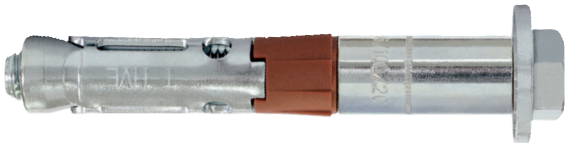


Pour les caractéristiques exactes de résistances et de pose, il convient de respecter toutes les exigences mentionnées dans l'agrément technique européen ETA 10/0060 ainsi que sur la notice de pose.

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HIGH LOAD SAFETY BOLT
HEXAGONAL HEAD VERSION

HVE



CATEGORY SEISMIC C1

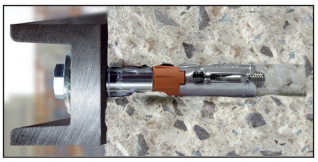
CATEGORY SEISMIC C2

NON CRAKED
CRAKED CONCRETE



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OPTION 1
10/0060

FB120



FEATURES

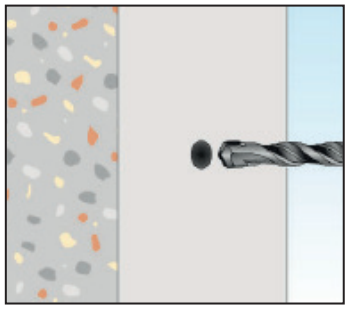
Material:
Steel

Avantages:
- Easy and fast installation through the fixture
- Can be desinstalled
- ETA option 1 for cracked concrete and uncracked concrete
- Fire approval 120 minutes
- Approved for seismic applications category C1 and C2

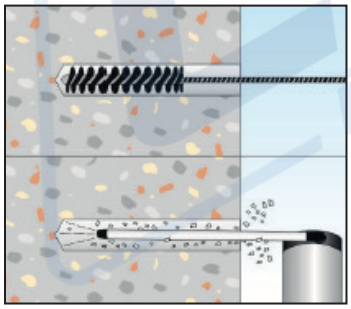
APPLICATION EXAMPLES

- For fixing metal profiles, railings, beams steel cladding brackets, industrial racking, consoles, cable trays....
- Industrial doors and gates
- Industrial support

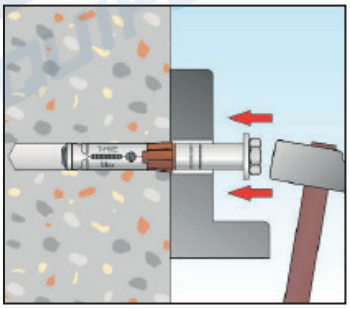
INSTALLATION



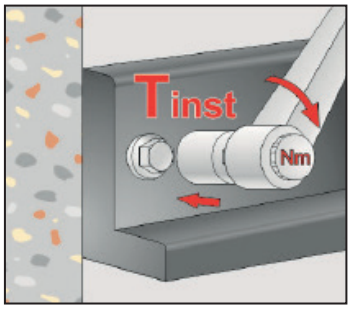
Drill the hole



Remove the dust from the hole with an air pump

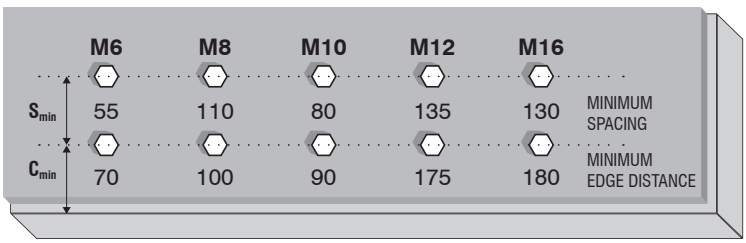


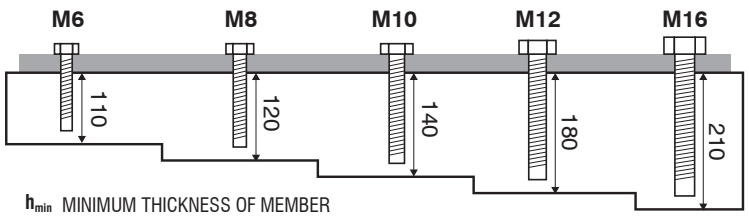
Put the Anchor into the hole through the fixture



Apply required torque

INSTALLATION DATAS

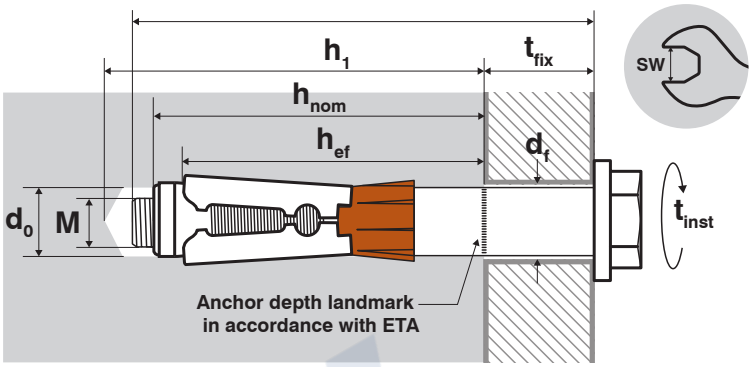




DIMENSIONS & APPLICATION DATAS

Type	M	L	t_{fix}	Reference
		mm	mm	
HVE M6	M6	70	5	HVE10/5
		80	15	HVE10/15
		100	35	HVE10/35
HVE M8	M8	80	10	HVE12/10
		100	30	HVE12/30
		120	50	HVE12/50
HVE M10	M10	100	20	HVE16/20
		120	40	HVE16/40
		140	60	HVE16/60
HVE M12	M12	120	20	HVE18/20
		150	50	HVE18/50
HVE M16	M16	140	20	HVE24/20
		170	50	HVE24/50

		M6	M8	M10	M12	M16
Anchor length *(mm)*	h_{ef}	55	60	70	90	105
Ø drill hole *(mm)*	d_o	10	12	16	18	24
Min. drilling depth *(mm)*	h_1	80	90	100	120	140
Overall anchor embedment depth *(mm)*	h_{nom}	65	70	80	100	120
Ø clearance hole in the fixture *(mm)*	d_f	12	14	18	20	26
Wrench size/socket size *(mm)*	SW	10	13	17	19	24
Required torque moment *(N.m.)*	T_{inst}	15	30	50	100	160

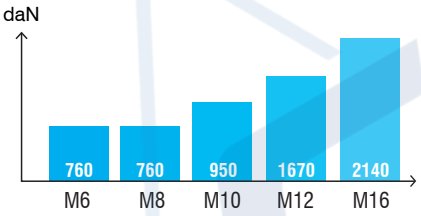


RECOMMENDED LOADS

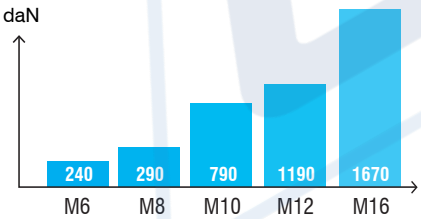
Loads are calculated from published characteristic values in the ETA on which partial safety factors from the ETAG001 and a partial coefficient action $\gamma_f = 1.4$ are applied. Values are given for standard embedment depth for non-cracked concrete C20 / 25.

TENSILE

Non cracked concrete

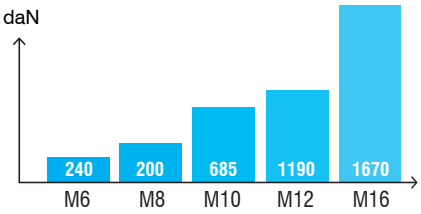


Cracked concrete



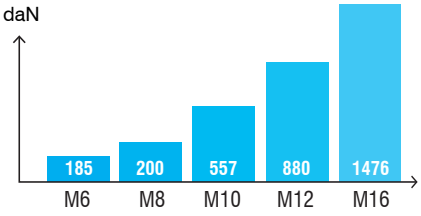
CATÉGORIE SISMIQUE C1

under seismic constraint C1

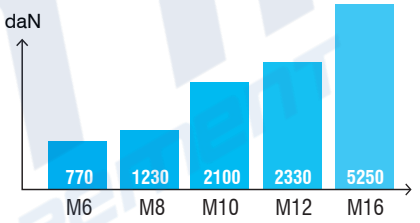


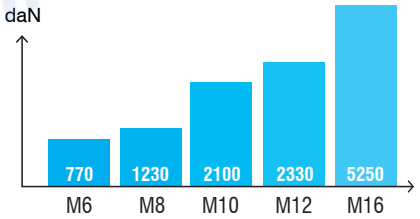
CATÉGORIE SISMIQUE C2

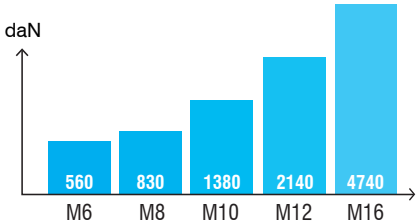
under seismic constraint C2

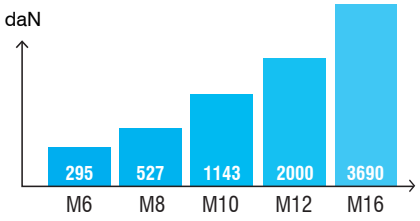


SHEAR









For accurate loads and implementation data, requirements specified in the ETA 10/0060 must be respected as well as the installation guide.

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KOTWA DO DUŻYCH OBCIĄŻEŃ
WERSJA Z ŁBEM SZEŚCIOKĄTNYM

HVE



STREFA SEJSMICZNA C1

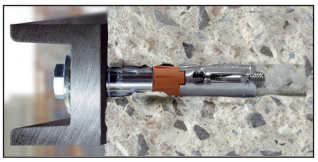
STREFA SEJSMICZNA C2

BETON
BETON SPĘKANY



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OPTION 1
10/0060

FB120



CECHY

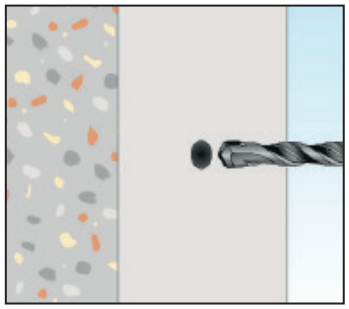
Materiał :
Stal ocynkowana

Zalety :
- Łatwe i szybkie przekładanie przez mocowany przedmiot
- Kotwa zewnętrzna : demontowana
- ETA beton opcja 1 dla betonu spękanego i niespękanego
- Odporność na ogień (120 minut)
- Można używać pod działaniem sejsmicznym (kategoria wydajności C1 i C2)

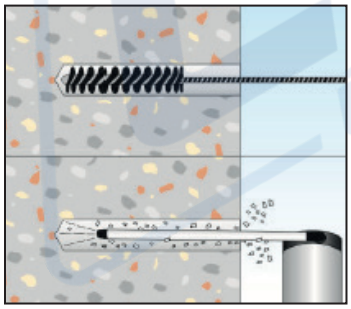
PRZYKŁADY UŻYCIA

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

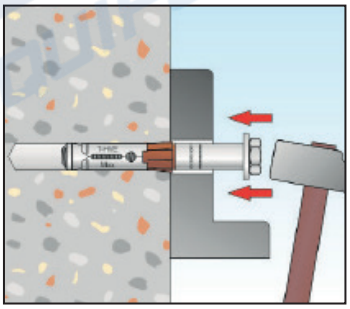
MONTAŻ



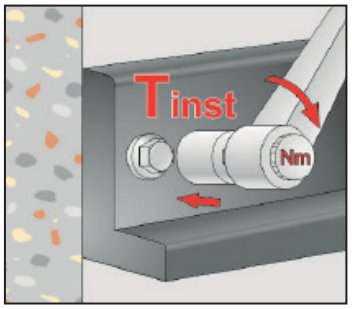
Wywiercić otwór



Usunąć pył z otworu

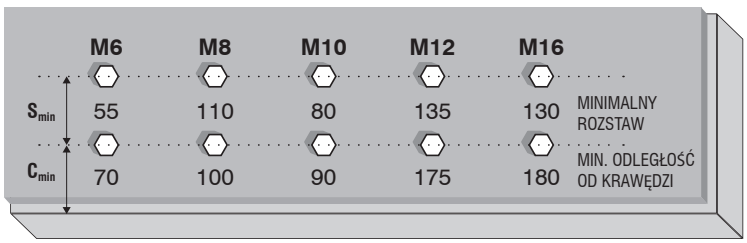


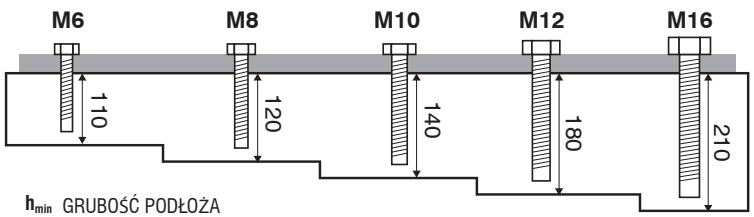
Przełożyć kotwę przez mocowany przedmiot



Moment obrotowy wskazany w danych montażowych

DANE MONTAŻOWE

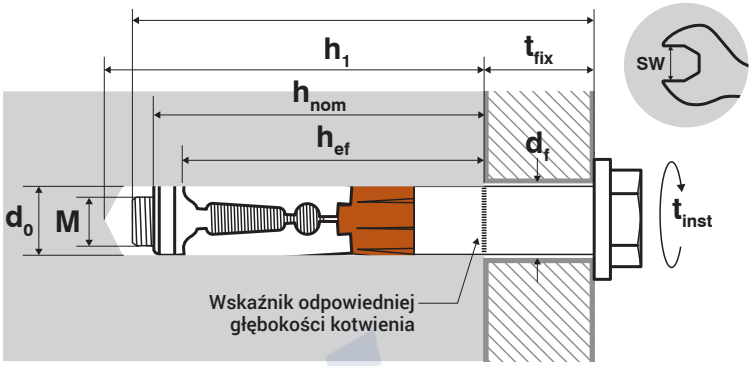




WYMIARY I DANE MONTAŻOWE

Typ	M	L	t_{fix}	Symbol
		mm	mm	
HVE M6	M6	70	5	HVE10/5
		80	15	HVE10/15
		100	35	HVE10/35
HVE M8	M8	80	10	HVE12/10
		100	30	HVE12/30
		120	50	HVE12/50
HVE M10	M10	100	20	HVE16/20
		120	40	HVE16/40
		140	60	HVE16/60
HVE M12	M12	120	20	HVE18/20
		150	50	HVE18/50
HVE M16	M16	140	20	HVE24/20
		170	50	HVE24/50

		M6	M8	M10	M12	M16
Efektywna głębokość zakotwienia *(mm)*	h_{ef}	55	60	70	90	105
Ø wiertła *(mm)*	d_o	10	12	16	18	24
Min. głębokość otworu *(mm)*	h_1	80	90	100	120	140
Całkowita głębokość kotwienia *(mm)*	h_{nom}	65	70	80	100	120
Ø maks. otworu w mocowanym przedmiocie *(mm)*	d_f	12	14	18	20	26
Rozmiar klucza *(mm)*	SW	10	13	17	19	24
Moment dokręcenia *(N.m.)*	T_{inst}	15	30	50	100	160



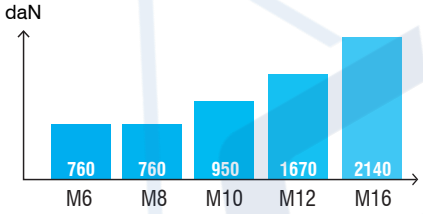
ZAKRES OBCIĄŻEŃ

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 ϒf = 1,4. Podane wartości dotyczą standardowych głębokości kotwienia dla betonu C20/25.

ROZCIĄGANIE

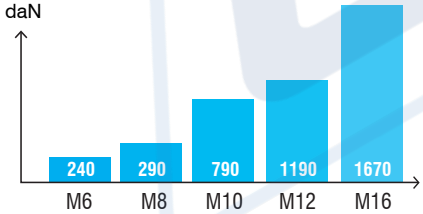


Beton niespękany



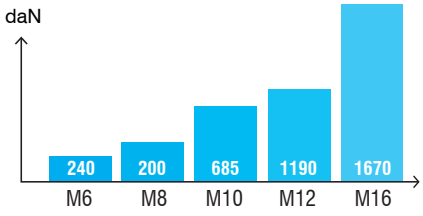


Beton spękany



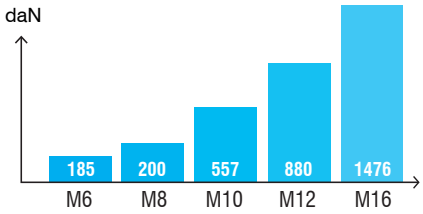
STREFA SEJSMICZNA C1

Pod wpływem sejsmicznym kategoria C1

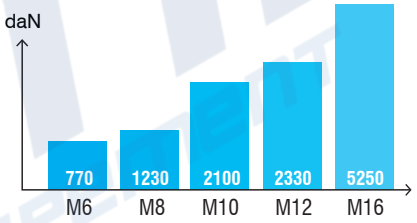


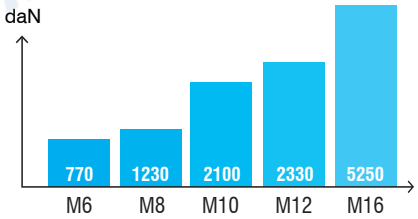
STREFA SEJSMICZNA C2

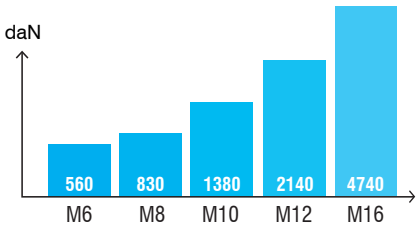
Pod wpływem sejsmicznym kategoria C2

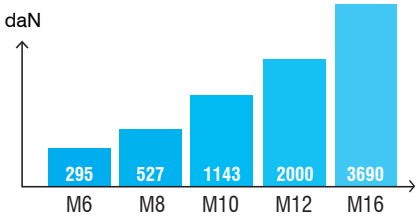


ŚCINANIE









Dla zachowania poprawnych cech wytrzymałości i montażu, należy przestrzegać wszystkich wymagań zawartych w europejskiej aprobacie technicznej ETA 10/0060, a także w instrukcji montażu.

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