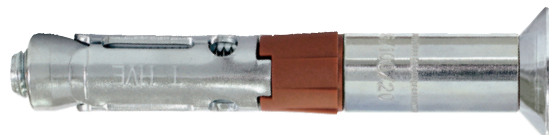


CHEVILLE DE SÉCURITÉ HAUTE PERFORMANCE

VERSION TÊTE FRAISÉE

HVE03



CARACTÉRISTIQUES

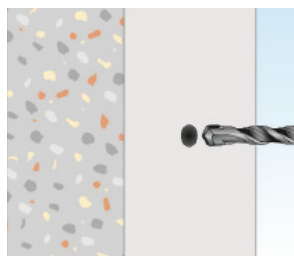
Matière :
Acier électrozingué

- 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)

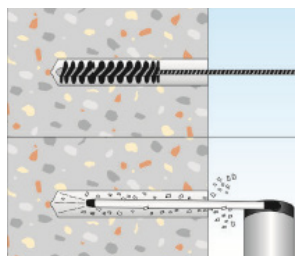
EXEMPLES D'APPLICATIONS

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

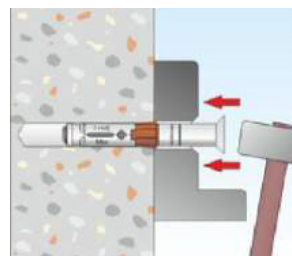
MISE EN ŒUVRE



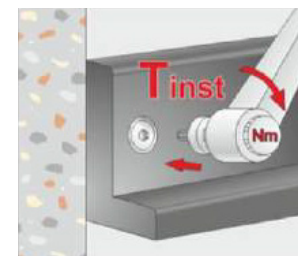
Percer le trou



Dépoussiérer le trou



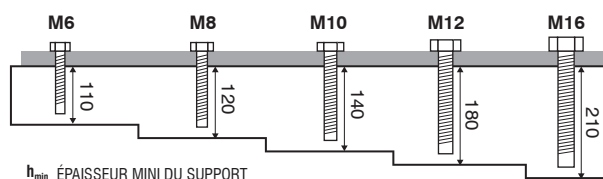
Monter la cheville au travers de la pièce à fixer



Serrer au couple indiqué dans les données de montage

DONNÉES DE MISE EN ŒUVRE

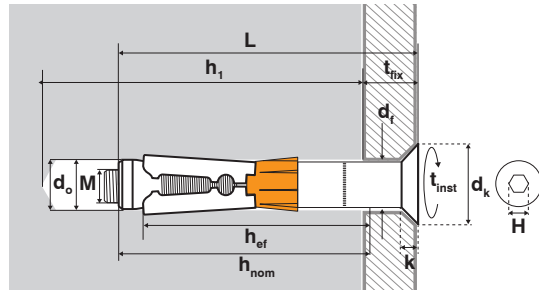
	M6	M8	M10	M12	M16	
S_{min}	55	110	80	135	130	ENTRAXE MINIMUM
C_{min}	70	100	90	175	180	DISTANCE AU BORDS MINI



DIMENSIONS & DONNÉES DE MONTAGE

Type	M	L	t _{fix}	Référence
		mm	mm	
HVE M6	M6	85	20	HVE03-10/20
		100	35	HVE03-10/40
		125	60	HVE03-10/60
HVE M8	M8	82	15	HVE03-12/15
		105	35	HVE03-12/35
		125	55	HVE03-12/55
HVE M10	M10	110	30	HVE03-16/30
		130	50	HVE03-16/50
HVE M12	M12	120	20	HVE03-18/20
		140	40	HVE03-18/40

		M6	M8	M10	M12
Profondeur d'ancrage effective (mm)	h_{ef}	55	60	70	90
Ø perçage (mm)	d_o	10	12	16	18
Profondeur mini de perçage (mm)	h_1	80	90	100	120
Profondeur d'ancrage hors-tout (mm)	h_{nom}	65	70	80	100
Ø maxi de perçage dans pièce à fixer (mm)	d_f	12	14	18	20
Diamètre tête fraisée	d_k	16	20	26	30
Épaisseur tête fraisée	K	3.4	4.5	5.6	6.6
Couple de serrage (N.m)	T_{inst}	15	30	50	100
Embout hexagonal	H	4	5	6	8



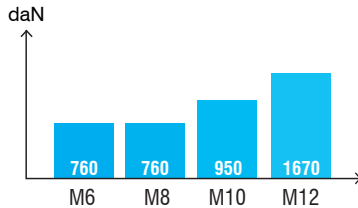
CHARGES DE SERVICE

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.

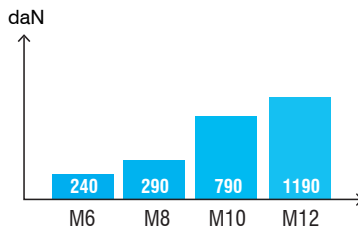
TRACTION



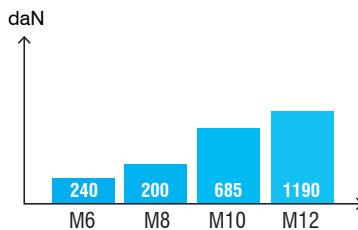
Béton non fissuré



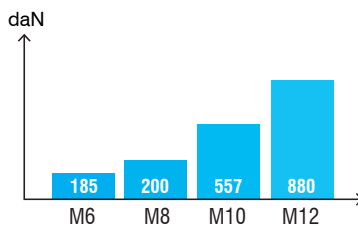
Béton fissuré



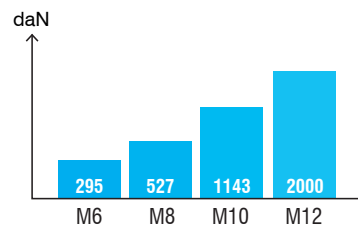
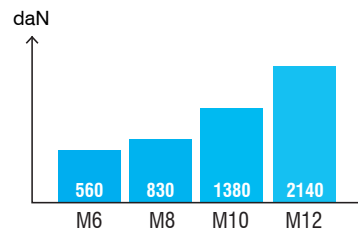
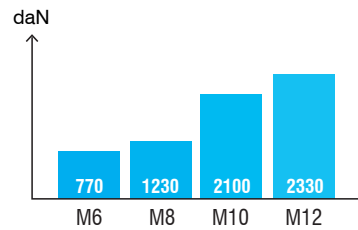
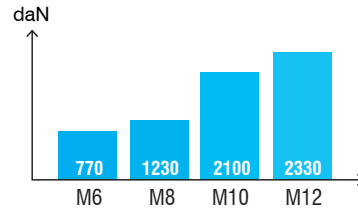
Sous contrainte sismique catégorie C1



Sous contrainte sismique catégorie C2



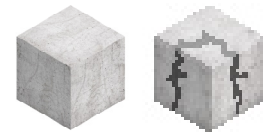
CISAILLEMENT



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.

HIGH LOAD SAFETY BOLT COUNTERSUNK HEAD VERSION

HVE03



FEATURES

Material :
Steel

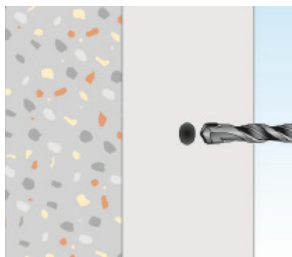
Advantages :

- Easy and fast installation through the fixture

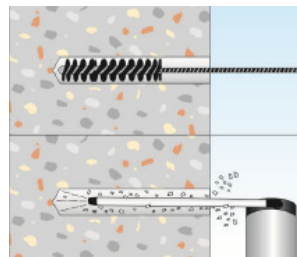
APPLICATION EXAMPLES

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

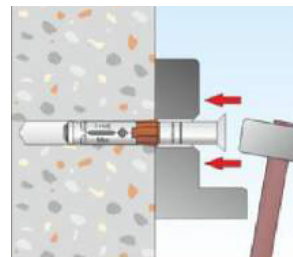
INSTALLATION



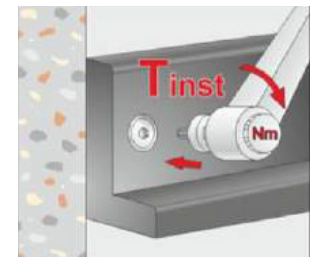
Drill the hole



Remove the dust from the hole with an air pump



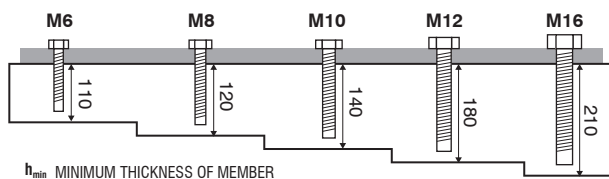
Put the Anchor into the hole through the fixture



Apply required torque

INSTALLATION DATAS

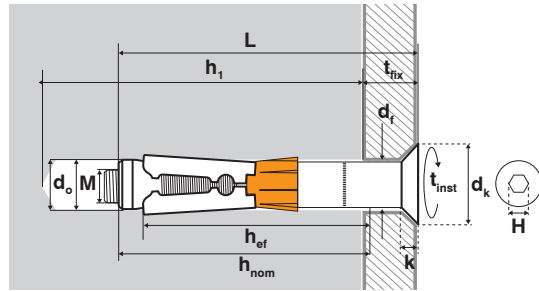
	M6	M8	M10	M12	M16	
S_{min}	55	110	80	135	130	MINIMUM SPACING
C_{min}	70	100	90	175	180	MINIMUM EDGE DISTANCE



DIMENSIONS & APPLICATION DATAS

Type	M	L	t _{fix}	Reference
		mm	mm	
HVE M6	M6	85	20	HVE03-10/20
		100	35	HVE03-10/40
		125	60	HVE03-10/60
HVE M8	M8	82	15	HVE03-12/15
		105	35	HVE03-12/35
		125	55	HVE03-12/55
HVE M10	M10	110	30	HVE03-16/30
		130	50	HVE03-16/50
HVE M12	M12	120	20	HVE03-18/20
		140	40	HVE03-18/40

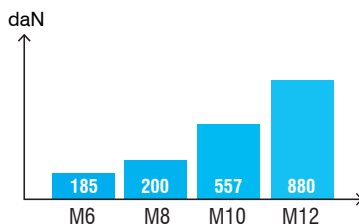
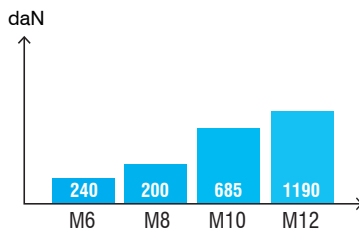
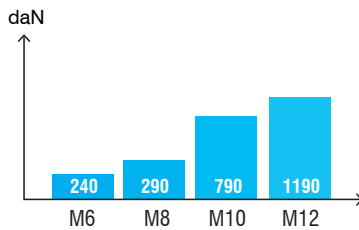
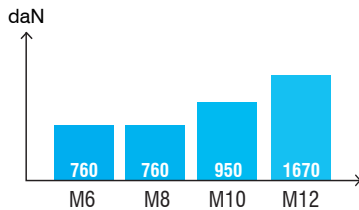
		M6	M8	M10	M12
Anchor length	h _{ef}	55	60	70	90
Ø drill hole	d _o	10	12	16	18
Min. drilling depth	h ₁	80	90	100	120
Overall anchor embedment depth	h _{nom}	65	70	80	100
Ø clearance hole in the fixture	d _f	12	14	18	20
Countersunk head diameter	d _k	16	20	26	30
Countersunk head thickness	K	3.4	4.5	5.6	6.6
Required torque moment (N.m)	T _{inst}	15	30	50	100
Hex drive	H	4	5	6	8



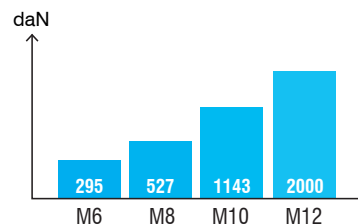
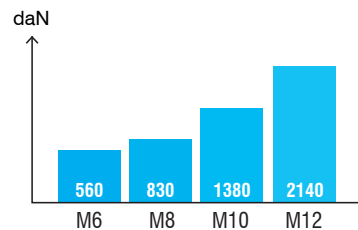
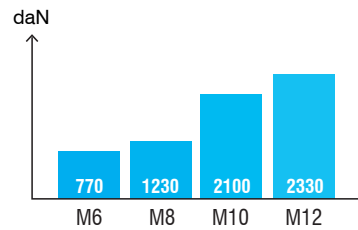
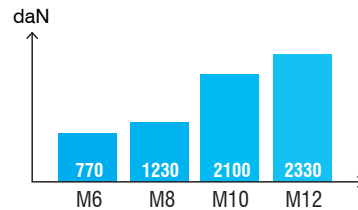
RECOMMENDED LOADS

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



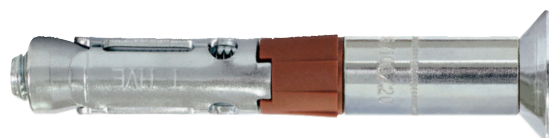
SHEAR



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

KOTWA DO DUŻYCH OBCIĄŻEŃ WERSJA Z ŁBEM STOŻKOWYM

HVE03



BETON
BETON SPEKANY



CECHY

Materiał :
Stal ocynkowana

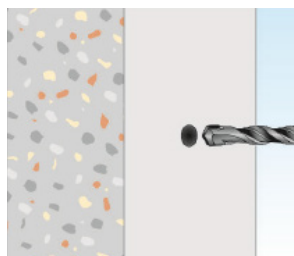
Zalety :

- 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 (wydajność kategorii C1)

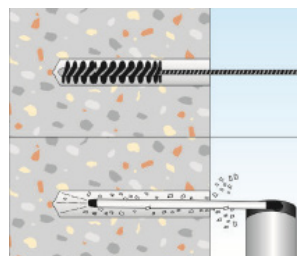
PRZYKŁADY UŻYCIA

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

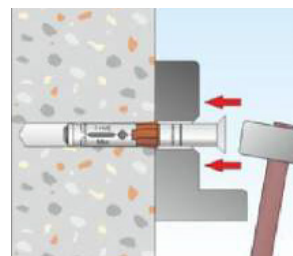
MONTAŻ



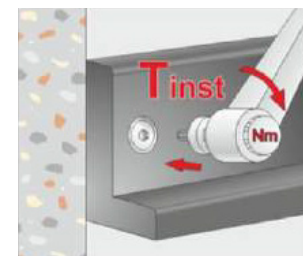
Wywiercić otwór



Usunąć pył z otworu



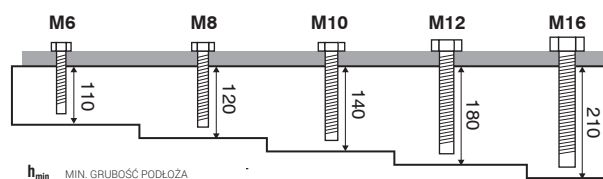
Przełożyć kotwę przez mocowany przedmiot



Dokręcić, przykładając moment wskazany w danych montażowych

DANE MONTAŻOWE

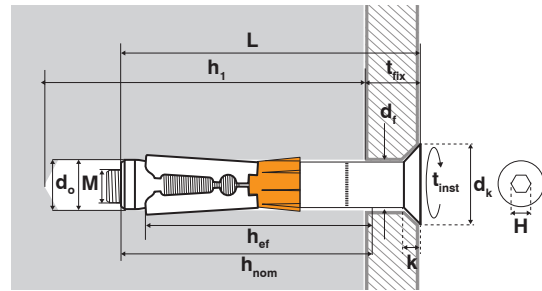
	M6	M8	M10	M12	M16	
S_{min}	55	110	80	135	130	MINIMALNY ROZSTAW
C_{min}	70	100	90	175	180	MIN. ODLEGŁOŚĆ OD KRAWĘDZI



WYMIARY I DANE MONTAŻOWE

Typ	M	L	t _{fix}	Symbol
		mm	mm	
HVE M6	M6	85	20	HVE03-10/20
		100	35	HVE03-10/40
		125	60	HVE03-10/60
HVE M8	M8	82	15	HVE03-12/15
		105	35	HVE03-12/35
		125	55	HVE03-12/55
HVE M10	M10	110	30	HVE03-16/30
		130	50	HVE03-16/50
HVE M12	M12	120	20	HVE03-18/20
		140	40	HVE03-18/40

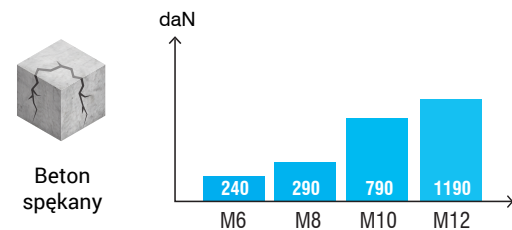
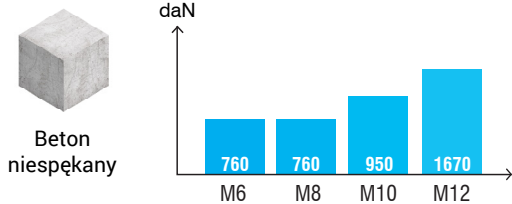
		M6	M8	M10	M12
Efektywna głębokość zakotwienia (mm)	h _{ef}	55	60	70	90
Ø wiertła (mm)	d _o	10	12	16	18
Min. głębokość otworu (mm)	h ₁	80	90	100	120
Całkowita głębokość kotwienia (mm)	h _{nom}	65	70	80	100
Ø maks. otworu w mocowanym przedmiocie (mm)	d _f	12	14	18	20
Średnica łba stożkowego	d _k	16	20	26	30
Grubość łba stożkowego	K	3.4	4.5	5.6	6.6
Moment dokręcenia (N.m)	T _{inst}	15	30	50	100
Gniazdo sześciokątne	H	4	5	6	8



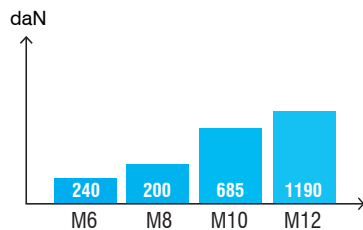
ZAKRES OBCIĄŻEŃ

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.

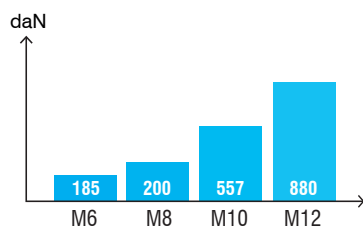
ROZCIĄGANIE



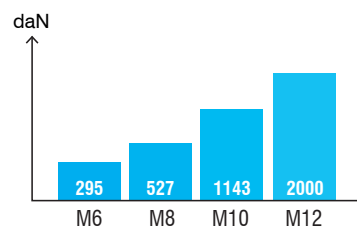
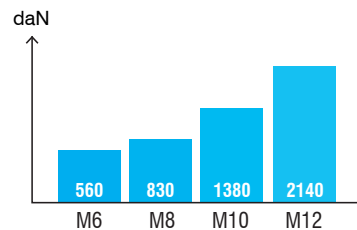
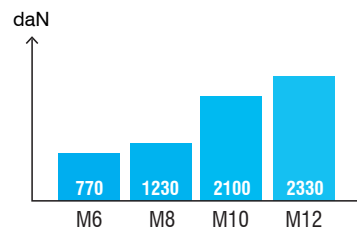
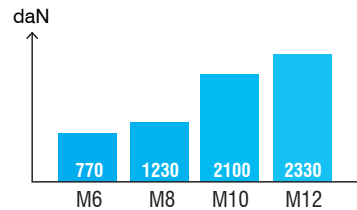
Pod wpływem sejsmicznym kategoria C1



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.