CHEVILLE DE SÉCURITÉ HAUTE PERFORMANCE
VERSION TÊTE HEXAGONALE

HVE

CARACTÉRISTIQUES

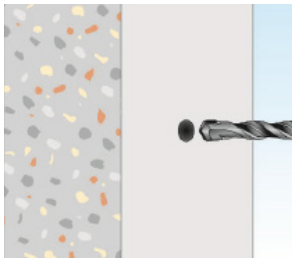
Matière :
Acier électrozingué

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)

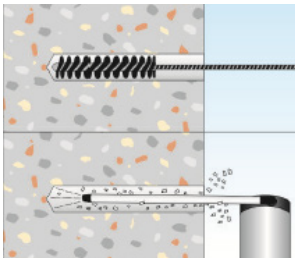
EXEMPLES D'APPLICATIONS

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

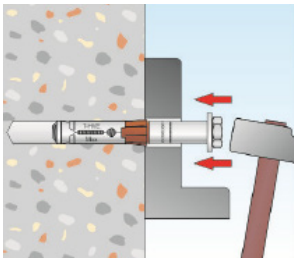
MISE EN ŒUVRE



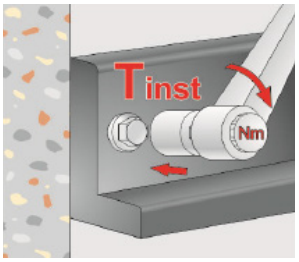
Percer le trou



Dépoussiérer le trou

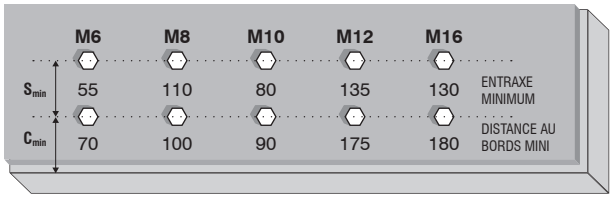


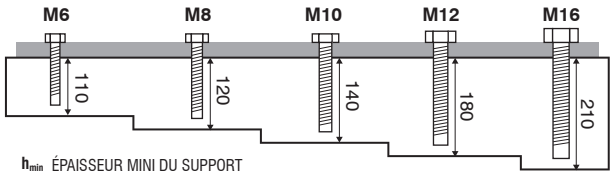
Monter la cheville au travers de la pièce à fixer



Serrer au couple indiqué dans les données de montage

DONNÉES DE MISE EN ŒUVRE

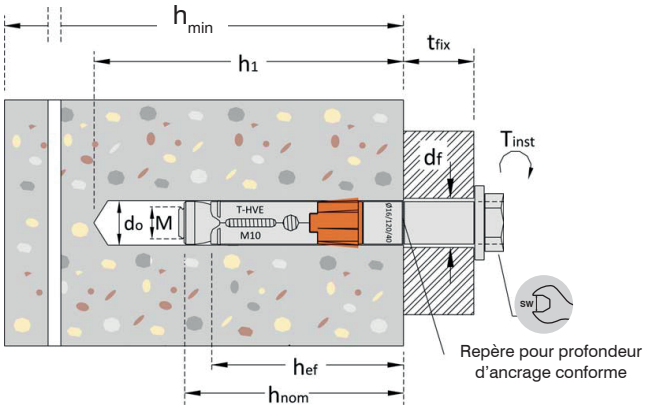




DIMENSIONS & DONNÉES DE MONTAGE

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	h_{ef}	55	60	70	90	105
Ø perçage	d_o	10	12	16	18	24
Profondeur mini de perçage	h_1	80	90	100	120	140
Profondeur d'ancrage hors-tout	h_{nom}	65	70	80	100	120
Ø maxi de perçage dans pièce à fixer	d_f	12	14	18	20	26
Ouverture de clef	Sw	10	13	17	19	24
Couple de serrage	T_{inst}	15	30	50	100	160

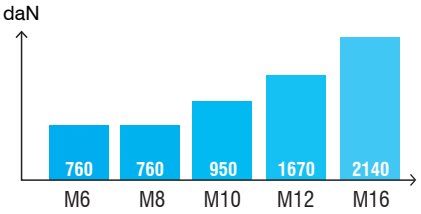


CHARGES DE SERVICE

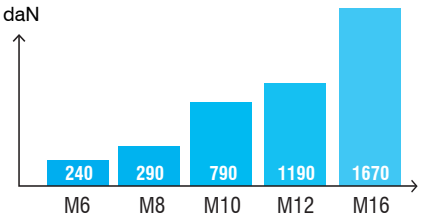
Les charges publiées sont calculées à partir des valeurs caractéristiques données dans les ETA sur lesquels des coefficients partiels de sécurité issus de l'ETAG001 ainsi qu'un coefficient partiel d'action ϒf = 1,4 sont appliqués. Les valeurs sont données pour des profondeurs d'ancrage standard dans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

TRACTION

Béton non fissuré

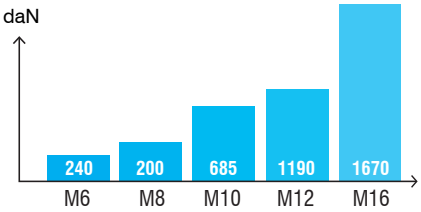


Béton fissuré



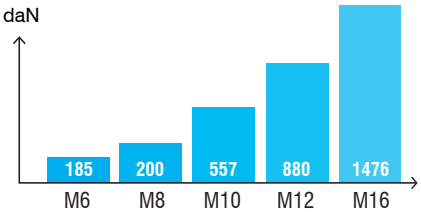
ZONE SISMIQUE C1

Sous contrainte sismique catégorie C1

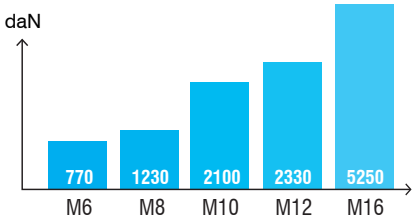


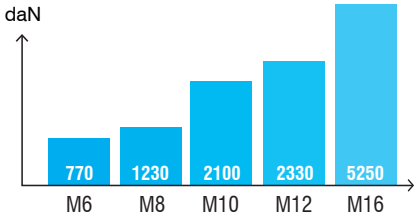
ZONE SISMIQUE C2

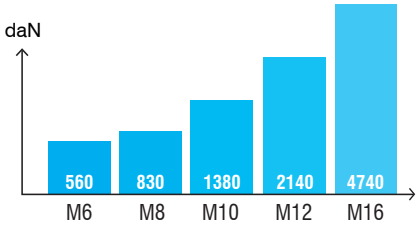
Sous contrainte sismique catégorie C2

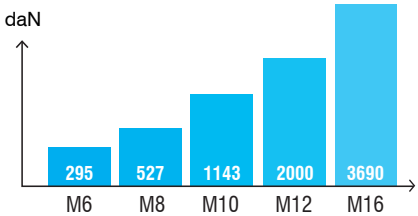


CISAILLEMENT









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.

Scell-it®
SERVICE TECHNIQUE
28 rue Paul Dubrule - 59810 LESQUIN - Tél. : 03 20 32 98 18 - technique@scellit.com - www.scellit.com

HIGH LOAD SAFETY BOLT
HEXAGONAL HEAD VERSION

HVE

FEATURES

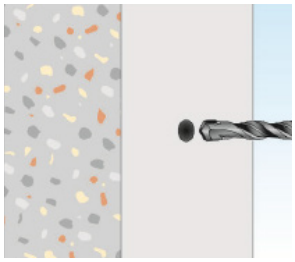
Material :
Steel

Advantages :
- Easy and fast installation through the fixture

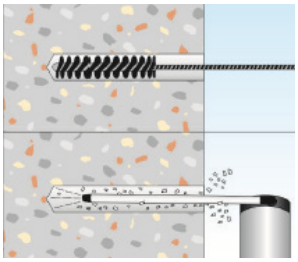
APPLICATION EXAMPLES

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

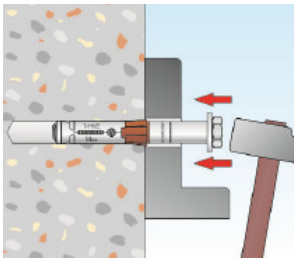
INSTALLATION



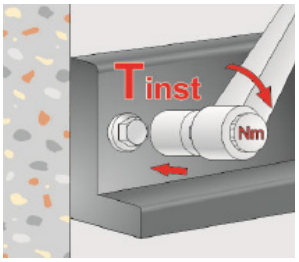
Drill the hole



Remove the dust from the hole with an air pump

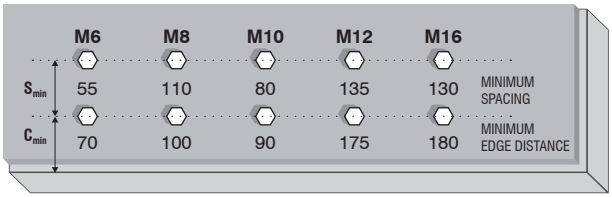


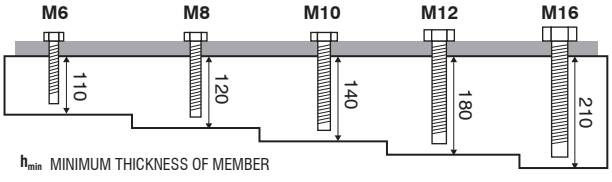
Put the Anchor into the hole through the fixture



Apply required torque

INSTALLATION DATAS

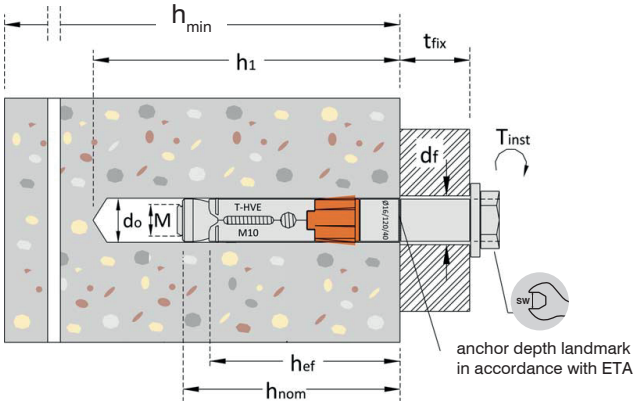




DIMENSIONS & APPLICATION DATAS

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

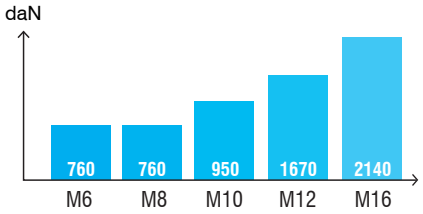


RECOMMENDED LOADS

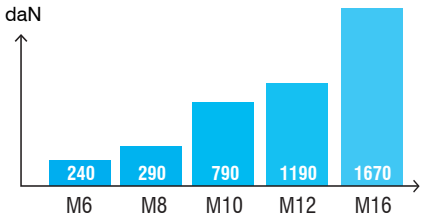
Loads are calculated from published characteristic values in the ETA on which partial safety factors from the ETAG001 and a partial coefficient action df= 1.4 are applied. Values are given for standard embedment depth for non-cracked concrete C20 / 25.

TENSILE

Non cracked concrete

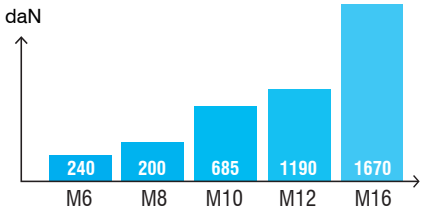


Cracked concrete



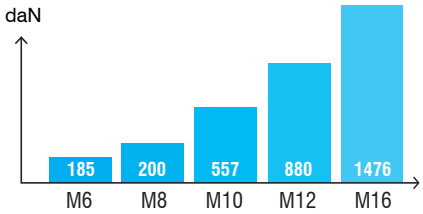
SEISMIC C1

under seismic constraint C1

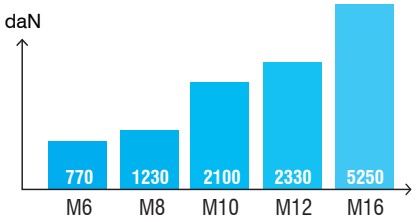


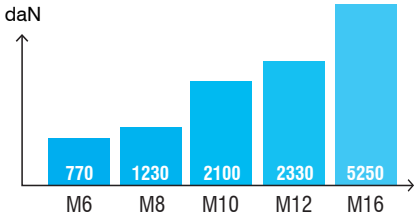
SEISMIC C2

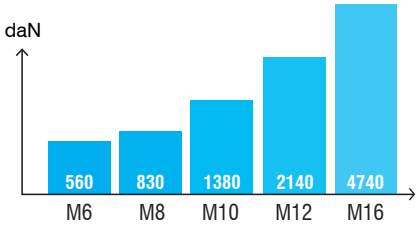
under seismic constraint C2

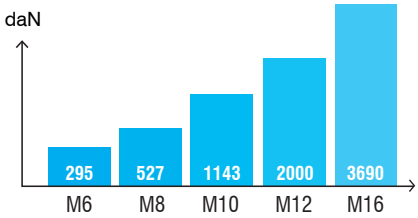


SHEAR









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

Scell-it®
SERVICE TECHNIQUE
Beacon way, Stafford, ST18 4DG - Tel. : 01785 246539 - technique@scellit.com - www.scellit.com

KOTWA DO DUŻYCH OBCIĄŻEŃ
WERSJA Z ŁBEM SZEŚCIOKĄTNYM

HVE

CECHY

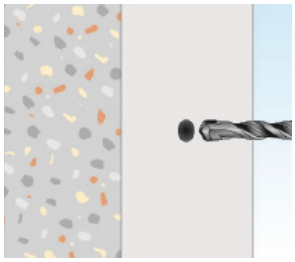
Materiał :
Stal ocynkowana

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)

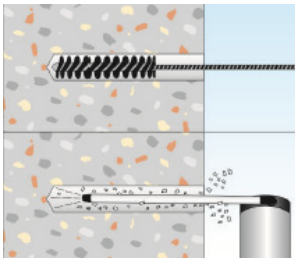
PRZYKŁADY UŻYCIA

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

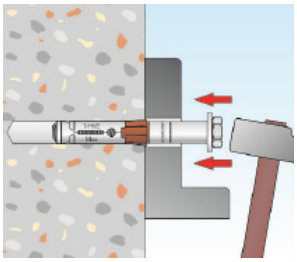
MONTAŻ



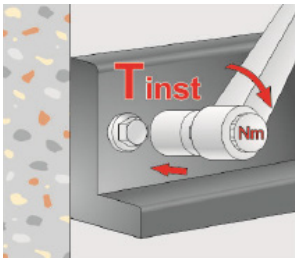
Wywiercić otwór



Usunąć pył z otworu

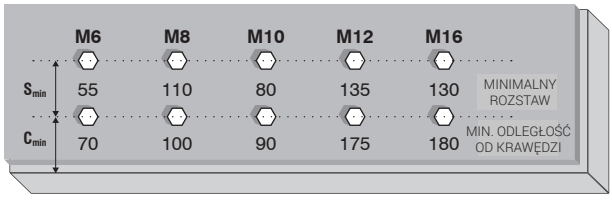


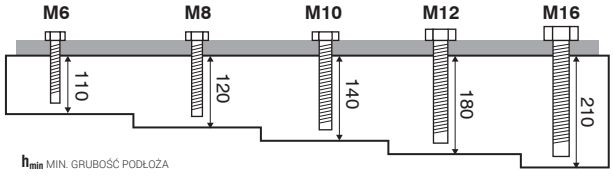
Przełożyć kotwę przez mocowany przedmiot



Moment obrotowy wskazany w danych montażowych

DANE MONTAŻOWE

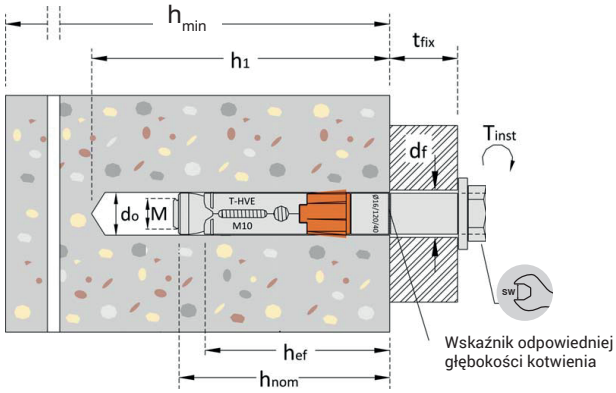




WYMIARY I DANE MONTAŻOWE

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	h_{ef}	55	60	70	90	105
Ø wiertła	d_0	10	12	16	18	24
Min. głębokość otworu	h_1	80	90	100	120	140
Całkowita głębokość kotwienia	h_{nom}	65	70	80	100	120
Ø maks. otworu w mocowanym przedmiocie	d_f	12	14	18	20	26
Rozmiar klucza	Sw	10	13	17	19	24
Moment dokręcenia	T_{inst}	15	30	50	100	160

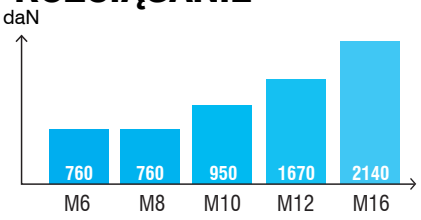


ZAKRES OBCIĄŻEŃ

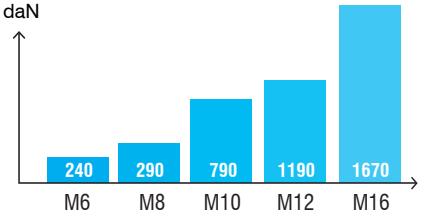
Przedstawiony zakres został wyliczony na podstawie charakterystycznych wartości podanych w ETA, do których zostały przystawione częściowe współczynniki bezpieczeństwa pochodzące z ETAG001 oraz częściowy współczynnik działania ϒf = 1,4. Podane wartości dotyczą standardowych głębokości kotwienia dla betonu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

ROZCIĄGANIE

Beton niespękany

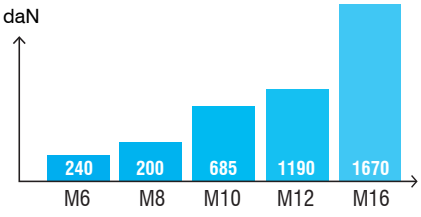


Beton spękany



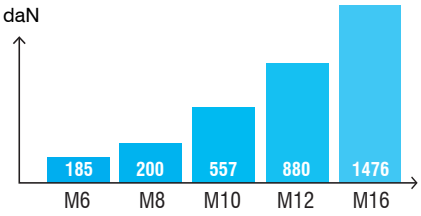
STREFA SEJSMICZNA C1

Pod wpływem sejsmicznym kategoria C1

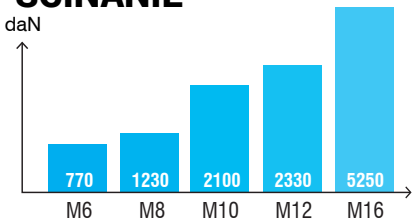


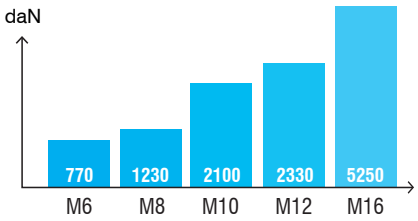
STREFA SEJSMICZNA C2

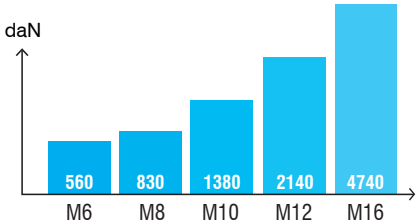
Pod wpływem sejsmicznym kategoria C2

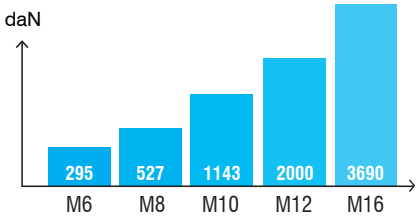


ŚCINANIE









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

Scell-it®
SERVICE TECHNIQUE
Ul. Płk. Dąbka 17 30-732 Kraków - Tel. : +48 12 357 15 22 - biuro@scellitpolska.pl - www.scellit.com