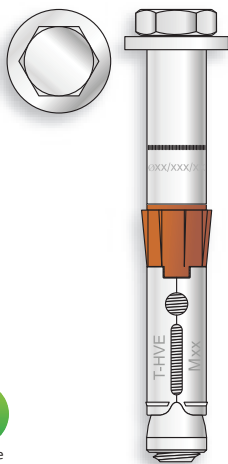


# HVE 01



**High performance steel anchor with 8.8 grade Hex Head screw and special hardness washer with PATENTED design, zinc plated, Certified ETA-CE Option 1 and Performance Category C2-C1 Under Seismic Action**

- Cheville haute performances en acier zingué avec vis tête hexagonale classe 8.8 et rondelle spéciale, avec certification ETE-CE Option 1 et catégorie de performance C2-C1 en zone sismique**
- Verzinkter Hochleistungs - Schwerlastanker mit Sechskantschraube Klasse 8.8 und spezieller Scheibe, mit ETB-CE Zulassung Option 1 und seismische Leistungskategorie C2-C1**
- Anclaje de acero cincado para Altas Prestaciones, montado con tornillo cabeza hexagonal clase 8.8 y arandela de dureza especial, con geometrías PATENTADAS, Homologada ETA-CE Opción 1 y Categoría de prestación C2-C1 para fijaciones en zonas sísmicas**
- Высокоэффективный стальной оцинкованный анкер с болтом с шестигранной головкой класса 8.8 и шайбой особой прочности, Сертифицирован ETA-CE Опция 1 и Категория C2-C1 для сейсмических воздействий**



European Technical Assessment  
EAD 330232-00-0601 e EOTA TR049  
OPTION 1: for cracked and non-cracked concrete  
Seismic assessment: performance category C2 - C1  
DoP available on [www.tecfi.it/DoP](http://www.tecfi.it/DoP)

Application submitted for an ICC-ES evaluation report covering seismic action in accordance with ACI 355.2.

Item code	Anchor size $\varnothing \times L_a / t_{fix}$ (mm)	Screw size M	Pcs. per box	Pcs. per carton
<b>Ø 10 - M6 - AF 10</b>				
HVE 01 10 070	10 x 70 / 5	M6	50	500
HVE 01 10 080	10 x 80 / 15	M6	50	500
HVE 01 10 100	10 x 100 / 35	M6	50	500
HVE 01 10 120	10 x 120 / 55	M6	25	250
<b>Ø 12 - M8 - AF 13</b>				
HVE 01 12 080	12 x 80 / 10	M8	50	250
HVE 01 12 100	12 x 100 / 30	M8	25	250
HVE 01 12 120	12 x 120 / 50	M8	25	250
HVE 01 12 140	12 x 140 / 70	M8	25	250
<b>Ø 16 - M10 - AF 17</b>				
HVE 01 16 100	16 x 100 / 20	M10	20	100
HVE 01 16 120	16 x 120 / 40	M10	20	100
HVE 01 16 140	16 x 140 / 60	M10	20	100
HVE 01 16 160	16 x 160 / 80	M10	20	100
<b>Ø 18 - M12 - AF 19</b>				
HVE 01 18 120	18 x 120 / 20	M12	10	100
HVE 01 18 150	18 x 150 / 50	M12	10	50
HVE 01 18 170	18 x 170 / 70	M12	10	50
HVE 01 18 200	18 x 200 / 100	M12	10	50
<b>Ø 24 - M16 - AF 24</b>				
HVE 01 24 140	24 x 140 / 20	M16	5	25
HVE 01 24 170	24 x 170 / 50	M16	5	25
HVE 01 24 200	24 x 200 / 80	M16	5	25
HVE 01 24 220	24 x 220 / 100	M16	5	25

- ETA-CE Option 1 Certified item / Agrément technique européen ETE-CE / ETA-CE Zulassung / Homologación ETA-CE / Сертификация ETA-CE
- EOTA TR049 - Item assessed Under Seismic Action / Article évalué en zone sismique / Artikel mit Bewertung von seismischer Leistungskategorie / Evaluación para fijaciones en zonas sísmicas / Одобрен для сейсмических воздействий
- R120 Fire Resistance Certified item / Résistance au feu / Feuerwiderstand / Homologación de resistencia al fuego / Сертификат пожаробезопасности

Usage / Utilisation / Benutzung / Uso / Применение



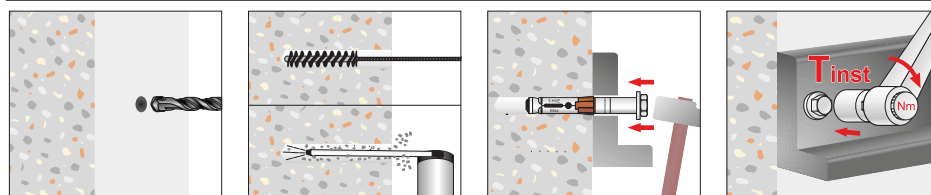
For through (in-place) heavy duty fixings in cracked and non-cracked concrete, performance Category C2 and C1 for use under seismic action, according to EOTA TR049.  
Item included in TADS - Tecfi Anchor Design Software for computer aided design of Anchorage.

DoP

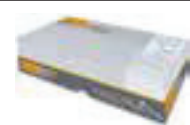


Declaration of Performance

Installation sequence / Instructions de mise en oeuvre / Setzanweisung / Secuencia de instalación / Порядок монтажа

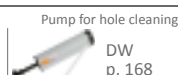


Box / Boîte / Verpackung / Caja / Упаковка



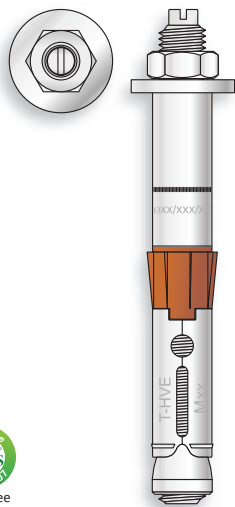
Related products

112



**High performance steel anchor with 8.8 grade Stud, Hex nut and special washer with PATENTED design, zinc plated, Certified ETA-CE Option 1 and Performance Category C2-C1 Under Seismic Action**

- ☛ Cheville haute performances en acier zingué avec tige classe 8.8, écrou et rondelle spéciale, géométries brevetées, avec certification ETE-CE Option 1 et catégorie de performance C2-C1 en zone sismique
- ☛ Verzinkter Hochleistungs - Schwerlastanker mit Stange Klasse 8.8, Sechskantmutter und spezieller Scheibe, mit ETB-CE Zulassung Option 1 und seismische Leistungskategorie C2-C1
- ☛ Anclaje de acero cincado para Altas Prestaciones, montado con espárrago clase 8.8, tuerca hexagonal y arandela de dureza especial, con geometrías PATENTADAS, Homologada ETA-CE Opción 1 y Categoría de prestación C2-C1 para fijaciones en zonas sísmicas
- ☛ Высокоэффективный стальной оцинкованный анкер с резьбовым стержнем класса 8.8 и специальной шайбой, с ЗАПАТЕНТОВАННОЙ геометрией, Сертифицирован ETA-CE Опция 1 и Категория C2-C1 для сейсмических воздействий



European Technical Assessment  
EAD 330232-00-0601 e EOTA TR049  
OPTION 1: for cracked and non-cracked concrete  
Seismic assessment: performance category C2 - C1  
DoP available on [www.tecfi.it/DoP](http://www.tecfi.it/DoP)

Application submitted for an ICC-ES evaluation report covering seismic action in accordance with ACI 355.2.

Item code	Anchor size $\varnothing \times L_a / t_{fix}$ (mm)	Stud size M	Pcs. per box	Pcs. per carton
<b>Ø 10 - M6 - AF 10</b>				
☛☛☛ HVE 02 10 070	10 x 70 / 5	M6	50	500
☛☛☛ HVE 02 10 080	10 x 80 / 15	M6	50	500
☛☛☛ HVE 02 10 100	10 x 100 / 35	M6	50	500
☛☛☛ HVE 02 10 120	10 x 120 / 55	M6	25	250
<b>Ø 12 - M8 - AF 13</b>				
☛☛☛ HVE 02 12 080	12 x 80 / 10	M8	50	250
☛☛☛ HVE 02 12 100	12 x 100 / 30	M8	25	250
☛☛☛ HVE 02 12 120	12 x 120 / 50	M8	25	250
☛☛☛ HVE 02 12 140	12 x 140 / 70	M8	25	250
<b>Ø 16 - M10 - AF 17</b>				
☛☛☛ HVE 02 16 100	16 x 100 / 20	M10	20	100
☛☛☛ HVE 02 16 120	16 x 120 / 40	M10	20	100
☛☛☛ HVE 02 16 140	16 x 140 / 60	M10	20	100
☛☛☛ HVE 02 16 160	16 x 160 / 80	M10	20	100
<b>Ø 18 - M12 - AF 19</b>				
☛☛☛ HVE 02 18 120	18 x 120 / 20	M12	10	100
☛☛☛ HVE 02 18 150	18 x 150 / 50	M12	10	50
☛☛☛ HVE 02 18 170	18 x 170 / 70	M12	10	50
☛☛☛ HVE 02 18 200	18 x 200 / 100	M12	10	50
<b>Ø 24 - M16 - AF 24</b>				
☛☛☛ HVE 02 24 140	24 x 140 / 20	M16	5	25
☛☛☛ HVE 02 24 170	24 x 170 / 50	M16	5	25
☛☛☛ HVE 02 24 200	24 x 200 / 80	M16	5	25
☛☛☛ HVE 02 24 220	24 x 220 / 100	M16	5	25
☛☛☛ HVE 01 24 220	24 x 220 / 100	M16	5	25

- ☛ ETA-CE Option 1 Certified item / Agrément technique européen ETE-CE / ETA-CE Zulassung / Homologación ETA-CE / Сертификация ETA-CE
- ☛ EOTA TR049 - Item assessed Under Seismic Action / Article évalué en zone sismique / Artikel mit Bewertung von seismischer Leistungskategorie / Evaluación para fijaciones en zonas sísmicas / Одобрен для сейсмических воздействий
- ☛ R120 Fire Resistance Certified item / Résistance au feu / Feuerwiderstand / Homologación de resistencia al fuego / Сертификат пожарной безопасности

Usage / Utilisation / Benutzung / Uso / Применение



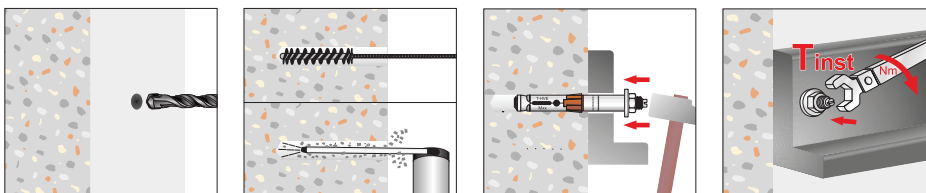
For through (in-place) heavy duty fixings in cracked and non-cracked concrete, performance Category C2 and C1 for use under seismic action, according to EOTA TR049.  
Item included in TADS - Tecfi Anchor Design Software for computer aided design of Anchorage.

DoP



Declaration of Performance

Installation sequence / Instructions de mise en oeuvre / Setzanweisung / Secuencia de instalación / Порядок монтажа



Box / Boîte / Verpackung / Caja / Упаковка



Related products

- HXE-CONCRETO® dual thread screw | HXE02 - HXE12 p. 106
- Wedge anchors | AJE - ZJE p. 134
- SDS-PLUS masonry drill | EO p. 427
- Pump for hole cleaning | DW p. 168

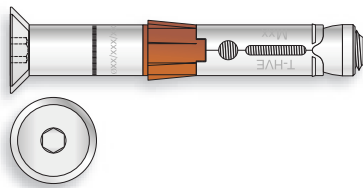
# HVE 03 - HVE 04



## High performance steel anchor with PATENTED design, zinc plated, Certified ETA-CE Option 1 and Performance Category C2-C1 Under Seismic Action

- Cheville haute performances en acier zingué, avec géométries brevetées, avec certification ETE-CE Option 1 et catégorie de performance C2-C1 en zone sismique
- Verzinkter Hochleistungs Edelmetall - Schwerlastanker, mit ETB-CE Zulassung Option 1 und seismische Leistungskategorie C2-C1
- Anclaje de acero cincado para Altas Prestaciones, con geometrías PATENTADAS, Homologada ETA-CE Opción 1 y Categoría de prestación C2-C1 para fijaciones en zonas sísmicas
- Высокоэффективный стальной оцинкованный анкер с внутренним шестигранником, Сертифицирован ETA-CE Опция 1 и Категория C2-C1 для сейсмических воздействий

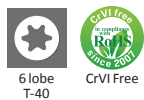
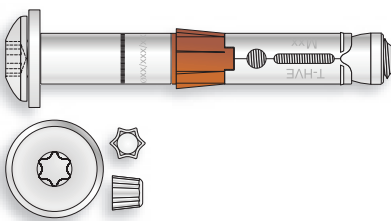
**HVE 03** with 8.8 grade Flat CSK head Hex recess screw  
avec vis tête fraisée plate classe 8.8 / mit Senkkopfschraube Klasse 8.8 / montado con tornillo cabeza avellanada con hueco hexagonal clase 8.8 / с винтом с потайной головкой класса прочности 8.8



Item code	Anchor size $\varnothing \times L_a / t_{fix}$ (mm)	Screw size M	Pcs. per box	Pcs. per carton
<b>Ø 10 - M6 - In-Hex 4</b>				
HVE 03 10 085	10 x 85 / 20	M6	50	500
HVE 03 10 105	10 x 105 / 40	M6	50	500
HVE 03 10 125	10 x 125 / 60	M6	50	250
<b>Ø 12 - M8 - In-Hex 5</b>				
HVE 03 12 085	12 x 85 / 15	M8	50	250
HVE 03 12 105	12 x 105 / 35	M8	25	250
HVE 03 12 125	12 x 125 / 55	M8	25	250
<b>Ø 16 - M10 - In-Hex 6</b>				
HVE 03 16 110	16 x 110 / 30	M10	20	100
HVE 03 16 130	16 x 130 / 50	M10	20	100
<b>Ø 18 - M12 - In-Hex 8</b>				
HVE 03 18 120	18 x 120 / 20	M12	10	100
HVE 03 18 140	18 x 140 / 40	M12	10	100

- ETA-CE Option 1 Certified item / Agrément technique européen ETE-CE / ETA-CE Zulassung / Homologación ETA-CE / Сертификация ETA-CE
- ETAG 001 - ANNEX E (C2 - C1) - Item assessed Under Seismic Action / Article évalué en zone sismique / Artikel mit Bewertung von seismischer Leistungskategorie / Evaluación para fijaciones en zonas sísmicas / Одобрен для сейсмических воздействий
- 120 Fire Resistance Certified item / Résistance au feu / Feuerwiderstand / Homologación de resistencia al fuego / Сертификат пожаробезопасности

**HVE 04** with Mushroom Head 6 lobe recess screw 8.8 grade  
avec vis tête ronde et rondelle spéciale / mit spezieller Rundkopfschraube und spezieller Scheibe / montado con tornillo cabeza abombada 6 lóbulos internos clase 8.8 / с низкой полукруглой головкой с шестигранным шлицем класса 8.8



Item code	Anchor size $\varnothing \times L_a / t_{fix}$ (mm)	Screw size M	Pcs. per box	Pcs. per carton
<b>Ø 12 - M8 - T-40</b>				
HVE 04 12 080	12 x 80 / 10	M8	50	250
HVE 04 12 100	12 x 100 / 30	M8	25	250
HVE 04 12 120	12 x 120 / 50	M8	25	250
<b>Ø 16 - M10 - T-40</b>				
HVE 04 16 100	16 x 100 / 20	M10	25	125
HVE 04 16 120	16 x 120 / 40	M10	25	125

- ETA-CE Option 1 Certified item / Agrément technique européen ETE-CE / ETA-CE Zulassung / Homologación ETA-CE / Сертификация ETA-CE
- EOTA TR049 - Item assessed Under Seismic Action / Article évalué en zone sismique / Artikel mit Bewertung von seismischer Leistungskategorie / Evaluación para fijaciones en zonas sísmicas / Одобрен для сейсмических воздействий
- R120 Fire Resistance Certified item / Résistance au feu / Feuerwiderstand / Homologación de resistencia al fuego / Сертификат пожаробезопасности

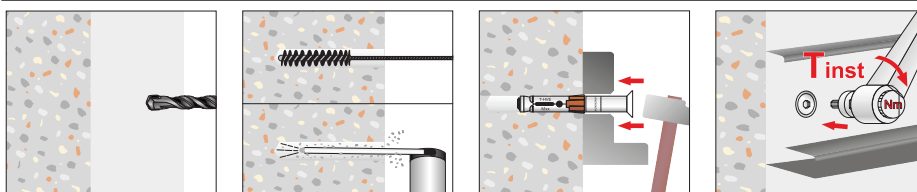


Application submitted for an ICC-ES evaluation report covering seismic action in accordance with ACI 355.2.

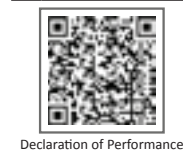
Usage / Utilisation / Benutzung / Uso / Применение

For through (in-place) heavy duty fixings in cracked and non-cracked concrete, performance Category C2 and C1 for use under seismic action, according to EOTA TR049. Item included in TADS - Tecfi Anchor Design Software for computer aided design of Anchorage

Installation sequence / Instructions de mise en oeuvre / Setzanweisung / Secuencia de instalación / Порядок монтажа



DoP Box / Boîte / Verpackung Caja / Упаковка



Related products

- 114 HXE-CONCRETO® flat CSK head screw HXE03 p. 108
- Sleeve anchor DSE07 p. 118
- SDS-PLUS masonry drill EO p. 427
- In-hex power bit FN p. 430
- Pump for hole cleaning DW p. 168



## HIGH PERFORMANCE ANCHORS - ETA-CE CERTIFIED



- ▶ European Technical Assessment – Option 1 for cracked and non-cracked concrete
- ▶ Performance Category C2 – C1 for use under Seismic Action
- ▶ Fire resistance R120
- ▶ Antirotation nylon cylinder
- ▶ Patented designs

**option 1**  
**SEISMIC FIXING**



**European Technical Assessment**  
Option 1 – For cracked and non-cracked concrete  
Seismic assessment - performance category C2-C1  
EAD 330232-00-0001 and EOTA TR046



TADS - Tech Factor  
Design Software  
for computer aided  
design of fasteners



**CIVIL** line  
in compliance with European Directive  
EN 12518:2011 EN 12518

Heavy duty **ETA-CE Certified anchors Option 1**, for cracked and non-cracked concrete, and **C1-C2 Performance Category** for fixing in low to high **SEISMIC RISK** areas

**Made in Italy**



Special washers

Patented design

Expansion sleeve/conical nut

best raw materials and appropriate geometries in expansion sleeve /conical nut guarantee high tension load values both in cracked and non-cracked concrete



**HVE 01**  
Ø10 (M6) ÷ Ø24 (M16)



**HVE 02**  
Ø10 (M6) ÷ Ø24 (M16)



**HVE 03**  
Ø10 (M6) ÷ Ø18 (M12)



**HVE 04**  
Ø12 (M8) ÷ Ø16 (M10)

