

Declaration of Performance

No. DOP-02-CPE-03-C2014 / Page 1 of 3

VESF Chemical Resin

(Bonded Anchor) for use in concrete

1. Unique identification code of the product type:

VESF Chemical Resin - Vinylester Styrene Free

2. Generic type:

The Injection system Chemfix CH+ is a bonded anchor (injection type) consisting of a mortar cartridge with Chemfix injection mortar CH+ MAX

3. Intended use:

Construction product in accord to EAD 330499-01-0601, "Bonded fasteners for use in concrete"

For fixing and/or supporting to concrete, structural elements (which contributes to the stability of the works) or heavy units.

4. Trade name:

T. I. Midwood & co. Ltd.

Manufacturer and Address:

Green Lane, Wardle, Nantwich, Cheshire, CW5 6BJ

5. Authorised representative:

N/A

6. System/s of AVCP:

System 1

7. Product covered by harmonised standard:

No

8. Product is covered by a European Technical Assessment - Documents and bodies

ETA - 22/0328 issued by:	Technical Assessment Bod: ETA-Danmark A/S, Goteborg Plads 1, DK-21590, Nordhavn, Denmark
On the basis of:	EAD 330499-01-0601
1404-CPR-3533 issued by Notified Body:	ZAG Slovenia, identification number 1404
System AVCP:	System 1

9. Declaration of performances:

Essential characteristics	Performance	Harmonised technical specification
Characteristic values for steel tension and steel shear resistance of threaded rods	See annex C1 of the ETA-22/0328	N/A
Characteristic resistance under tension loads for threaded rods Acc. EN 1992-4	See annex C2 of the ETA-22/0328	N/A
Displacement for threaded rods	See annex C3 of the ETA-22/0328	N/A
Characteristic resistance under tension loads for rebars Acc. EN 1992-4	See annex C4 of the ETA-22/0328	N/A
Characteristic resistance under shear loads for rebars Acc. EN 1992-4	See annex C5 of the ETA-22/0328	N/A
Reaction to fire	Anchorage satisfy requirements for Class A1	N/A
Resistance to fire	No performance determined	N/A

10. The performance of the product identified in points 1 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

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(Bonded Anchor) for use in masonry

1. Unique identification code of the product type: **VESF Chemical Resin - Vinylester Styrene Free**
2. Generic type: **The Injection system Chemfix CH+ is a bonded anchor (injection type) consisting of a mortar cartridge with Chemfix injection mortar CH+ MAX**
3. Intended use: **Construction product in accord to EAD 330076-00-0604, Bonded anchor (injection type)**
For use in masonry.
4. Trade name: **T. I. Midwood & co. Ltd.**
Manufacturer and Address: **Green Lane, Wardle, Nantwich, Cheshire, CW5 6BJ**
5. Authorised representative: **N/A**
6. System/s of AVCP: **System 1**
7. Product covered by harmonised standard: **No**
8. Product is covered by a European Technical Assessment - Documents and bodies

ETA - 22/0328 issued by:	Technical Assessment Bod: ETA-Danmark A/S, Goteborg Plads 1, DK-21590, Nordhavn, Denmark
On the basis of:	EAD 330076-00-0604
1404-CPR-3533 issued by Notified Body:	ZAG Slovenia, identification number 1404
System AVCP:	System 1

9. Declaration of performances:

Essential characteristics	Performance	Harmonised technical specification
Characteristic tension and shear resistance of threaded rods M8 to M12	See annex C1 of the ETA-22/0381	N/A
Characteristic bending moment	See annex C1 of the ETA-22/0381	N/A
Characteristic for tension and shear loads	See annex C2 of the ETA-22/0381	N/A
Displacement under service load – tension load	See annex C2 of the ETA-22/0381	N/A
Displacement under service load – shear load	See annex C3 of the ETA-22/0381	N/A
Reaction to fire	Anchorage satisfy requirements for Class A1 (See annex C3 of the ETA-22/0381)	N/A
Resistance to fire	No performance determined	N/A

10. The performance of the product identified in points 1 is in conformity with the declared performance in point 9.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Declaration of Performance

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(Bonded Anchor) for post-installed rebar

1. Unique identification code of the product type: **VESF Chemical Resin - Vinylster Styrene Free**

2. Intended use or uses of the construction product according to EAD 330087-00-0601:

Generic type	Bonded anchor for post-installed rebar connections designed according EN 1992-1-1 (Eurocode 2).
Base material	<ul style="list-style-type: none">Reinforced or unreinforced normal weight concrete according to EN 206-1:2000.Strength classes C12/15 to C50/60 according to EN 206-1:2000.Maximum chloride concrete of 0,40% (CL 0.40) related to the cement content according to EN 206-1:2000.Non-carbonated concrete.
Material	According EN 1992-1-1 annex C, tables C, tables C.1 and C.2N, bars and de-coiled rods B and C
Durability	50 years
Anchorage subject to	Static or quasi-static. Fire exposure.
Service temperature change	-40°C to +40°C (max. short term temperature +23°C and max. long term temperature +50°C).
Use category	Dry and wet concrete.

3. Declared performances:

Design values of ultimate bond resistance	See annex C1
Design under fire exposure (Resistance to fire)	See annex C2
Fire Reaction	A1

4. System/s of AVCP: **System 1**


5. Documents and bodies:

ETA - 18/0102 issued by	ETA Denmark
On the basis of	EAD 330087-00-0601
1404-CPR-3134 issued by	ZAG Slovenia

6. The performance of the product identified in points 1 is in conformity with the declared performance in point 3. This declaration of performance is issued under the sole responsibility of the manufacturer (T. I. Midwood & co. Ltd. Green Lane, Wardle, Nantwich, Cheshire, CW5 6BJ).

Craig Varey

Managing Director

TIMCO House
2024

Name

Position

Signature

Location & Date