

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION NOTICE OF ACCEPTANCE (NOA)

Tecnicas Expansivas S.L. Segador 13 Logrono, 26005 Spain

#### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

#### **DESCRIPTION: Blu-Con Concrete Screw**

**APPROVAL DOCUMENT:** Drawing No. **MDBCH00000**, titled "Blue-Con Concrete Screw", sheets 1 through 4 of 4, prepared by Tecnicas Expansivas S.L., with revision 1 dated on 09/28/2023, signed and sealed by Jason R. Steen, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

#### **MISSILE IMPACT RATING: None**

**LABELING:** Each box shall bear a permanent label with the manufacturer's name or logo, Ningbo City, Zhejiang Province, China and following statement: "Miami-Dade County Product Control Approved" or "MDCPCA", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence page E-1, as well as the approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



02/13/24

NOA No: 23-0815.01 Expiration Date: February 22, 2029 Approval Date: February 22, 2024 Page 1

# **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

### A. DRAWINGS

1. Drawing No. **MDBCH00000**, titled "Blue-Con Concrete Screw", sheets 1 through 4 of 4, prepared by Tecnicas Expansivas S.L., with revision 1 dated on 09/28/2023, signed and sealed by Jason R. Steen, P.E.

# **B. TESTS**

- 1. Test report on Tension and Shear Strength Design Values of 3/16" and 1/4" diameters Blue-Con concrete screws per ACI 355.2/CC-ES AC193, and ASTM E 488, prepared by Element Materials Technology., Test Report No. **ESP036783P.1R1**, dated 05/05/2022, revised on 06/07/2022, signed and sealed by Jason R. Steen, P.E.
- Test report on Corrosion Resistance of 3/16" and 1/4" Blue-Con concrete screws per ASTM G 85, Annex 5 and TAS 114, Appendix E, prepared by Hurricane Engineering & Testing, Inc., Test Report No. HETI-22-S837, dated 08/22/2022, signed and sealed by Ram N. Tewari, P.E.

# C. CALCULATIONS

1. Assessment Report No. **ESP036783P.2R1**, issued by Element Materials Technology, dated 05/17/2022, revised on 05/26/2022, signed and sealed by Jason R. Steen, P.E.

# D. MATERIAL CERTIFICATIONS

1. None.

### E. QUALITY ASSURANCE

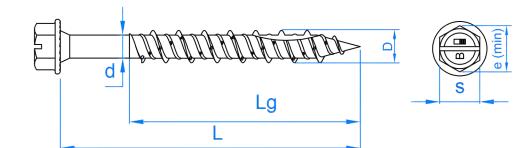
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

### F. STATEMENTS

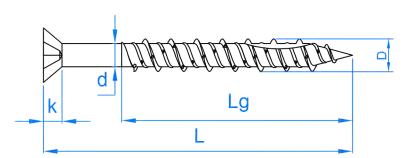
- 1. Statement letter of code conformance to the 8<sup>th</sup> edition (2023) of the FBC and of no financial interest, issued by Element Materials Technology, dated 12/14/2023, signed and sealed by Jason R. Steen, P.E.
- 2. Distribution agreement between Tecnicas Expansivas S.L. and Aerosmith Fastening Systems, dated 01/08/2024, signed by Valentin Gomez, General Manager of Tecnicas Expansivas S.L and Spencer Jessee, President of Aerosmith Fastening Systems.

Carlos M. Utrera, P.E. Product Control Examiner NOA No: 23-0815.01 Expiration Date: February 22, 2029 Approval Date: February 22, 2024

# BCH: HEX HEAD



# **BCA: COUNTERSUNK HEAD**



#### GENERAL NOTES

- 1. THIS PRODUCT HAS BEEN DESIGNED & TESTED ACCORDANCE WITH THE STRUCTURAL PROVISIONS OFIN THE FLORIDA BUILDING CODE EIGHT EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, AND THE FOLLOWING STANDARDS: ASTM E488, ASTM G85, AND TAS 144.
- 2. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THIS NOTICE OF ACCEPTANCE.
- 3. CONCRETE SHALL CONFORM TO ACI 301: NORMAL WEIGHT CONCRETE HAVING A SPECIFIED COMPRESSIVE STRENGTH OF 2500 psi TO 8500 psi.
- 4. ANCHORS REPRESENTED HEREIN SHALL HAVE AN ATLANTIC EPOXY CORROSION RESISTANT COATING IN COMPLIANCE WITH THE FLORIDA BUILDING CODE.
- 5. ANCHORS SHALL BE INSTALLED IN UNCRACKED CONCRETE SUBSTRATES, AS DEFINED IN ACI 355.2.
- ANCHOR SPACING AND EDGE DISTANCES BELOW THE MINIMUN ONES SHOWN IN INSTALLATION TABLES HEREIN ARE NOT ACCEPTABLE.
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- ALLOWABLE LOAD CAPACITIES TO SUBSTRATES THAT ARE NOT SHOWN IN THE DESING TABLES LISTE HEREIN ARE OUTSIDE THE SCOPE OF THIS CERTIFICATION AND SHALL BE DETERMINED BY A LICENSED PROFESIONAL ENGINEER.
- 8. ANCHOR VALUES LISTED HEREIN ARE DETERMINED THROUGH TESTING REPORT DATA AND CHECKED FOR CONSISTENCY WITH EACH TEST PERFORMED.
- 9. REFERENCE THE FOLLOWING TEST REPORTS:
- ELEMENT MATERIALS TECHNOLOGY: REPORT ESP036783P.1R1 HURRICANE ENGINEERING 8 TESTING INC:

REPORTS NO: HETI-22-S837 AND HETI-SS-S838



#### PRODUCT APPROVED as complying with the Florida Building Code NOA-No. 23-0815.01

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Miami-Dade Product Control

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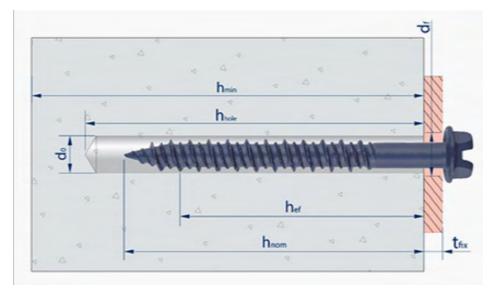
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0	2023.06.08	A. GRAU	S. REIG	INITIAL EDITION
Rev.	Date	Drawed	Approv.	Description

# **BLU-CON CONCRETE SCREW**

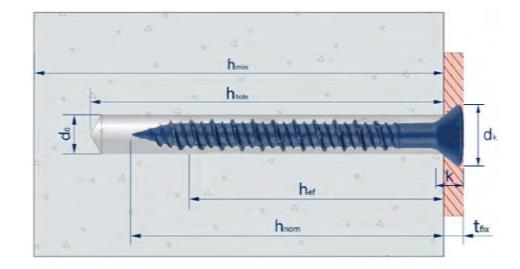
 Técnicas Expansivas S.L.	2023.09.28		
Segador 13	REVISION:		
Logroño (La Rioja) 26005 Spain	1		
DRAWING NO.	PAGE:		
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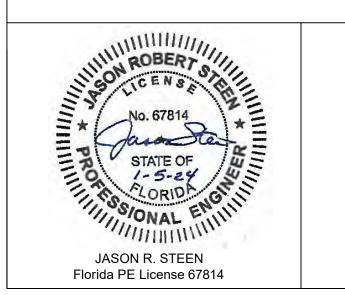
### INSTALLED CONDITION

# BCH: HEX HEAD



# **BCA: COUNTERSUNK HEAD**





PF	rod	UCT	APP	RO	VED
as	com	plying	with	the	Florid

Building Code NOA–No. 23-0815.01

Approval Date 02/22/2024

By Hiami-Dade Product Control

# ANCHOR INSTALLATION INFORMATION

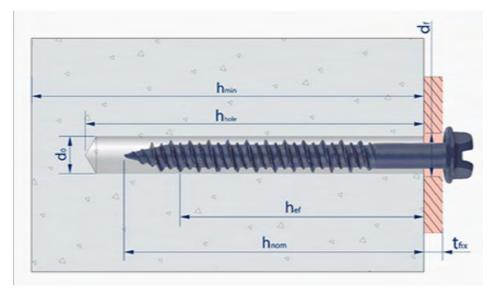
Anchor Property / Setting Information			1.1.1.5	Nominal Ar	nchor Size	
		Symbol	Units	3/16"	1/4"	
Nominal outside anchor diameter		d	in.	3/16	1/4	
Nominal	outside anchor diameter	d <sub>a</sub>	(mm)	(4.8)	(6.4)	
Nominal	drill bit diameter	d <sub>bit</sub>	in.	5/32	3/16	
Maminal	ambadmant danth	b	in.	2.00	2.10	
Nominal	embedment depth	h <sub>nom</sub>	(mm)	(51)	(51)	
Effective	embedment	h <sub>ef</sub>	in.	1.45	1.45	
Ellective	embedment	l'ef	(mm)	(37)	(37)	
Minimun	n member thickness	h <sub>min</sub>	in.	3 - 1/2	3 - 1/2	
Within the		i min	(mm)	(89)	(89)	
Minimun	n edge distance	C <sub>min</sub>	in.	2	2	
iviii iirriar		° min	(mm)	(51)	(51)	
Minimun	n spacing distance	s <sub>min</sub>	in.	2-1/2	2-1/2	
		~ min	(mm)	(64)	(64)	
Minimun	n hole depth	h <sub>o</sub>	in.	h <sub>nom</sub> + 1/4	h <sub>nom</sub> + 1/4	
			(mm)	(h <sub>nom</sub> + 6.4)	(h <sub>nom</sub> + 6.4)	
Minimun	n overall anchor length	lanch	in.	2 - 1/4	2 - 1/4	
WITHTIG		<sup>c</sup> anch	(mm)	(54)	(57)	
Maximu	m installation torque	T <sub>screw</sub> or T <sub>inst,max</sub>	ftIbf.	Not applicable <sup>1</sup>		
Heyhea	d wrench / socket size	d <sub>h</sub>	in.	1/4	5/16	
Hex field wiench? socket size		u h	(mm)	(6.4)	(7.9)	
Hex head hight		-	in.	0,14	0,18	
			(mm)	(3.6)	(4.6)	
Flat hea	d bit tip size	-	No.	PH2 / T25	PH3 / T30	
Effective	e tensile stress area	A se	in. <sup>2</sup>	0.0131	0.0233	
1.1.1.2.2.2.2	office of the second second		(mm <sup>2</sup> )	(8.5)	(15)	
Minimun	n specified ultimate strength	f <sub>uta</sub>	psi	125,000	125,000	
			(N/mm <sup>2</sup> )	(862)	(862)	
Minimun	n specified yield strength	f <sub>ya</sub>	psi 2	100,000	100,000	
			(N/mm <sup>2</sup> )	(689)	(689)	
Mean ax	ial stiffness, uncracked concrete	$\beta_{uncr}$	10 <sup>3</sup> lbf/in.	91,231	83,502	
<sup>1</sup> - Insta	Illation must be performed with E		(N/mm) setting tool.	(15,977)	(14,448)	
			Manufa	acturer:		DATE
S. REIG	COMPANY NAME MO	DIFIED	Técn	icas Expansiva	as S I	2023.09.28
S. REIG	INITIAL EDITION		Sega Logro	idor 13 pño (La Rioja)		REVISION:
Approv.	Description		Spair			
				/ING NO.		PAGE:
-CON	CONCRETE SCREW		M[	DBCH0	2 of 4	

1	2023.09.28	D.VARAS	S. REIG	COMPANY NAME MODIFIED
0	2023.06.08	A. GRAU	S. REIG	INITIAL EDITION
Rev.	Date	Drawed	Approv.	Description

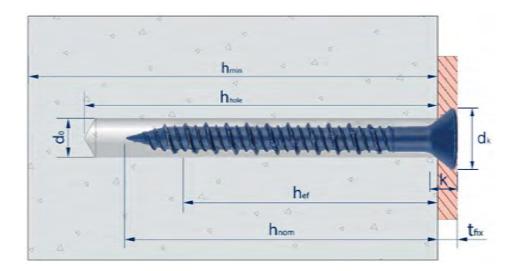
# **BLU-CON CONCRETE SCREW**

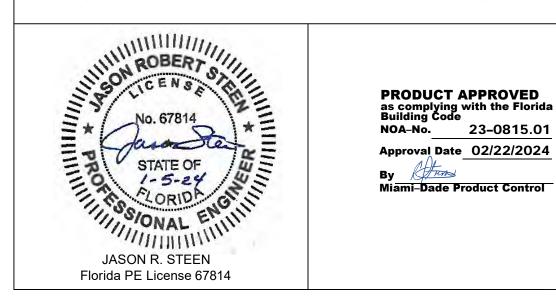
# INSTALLED CONDITION

# BCH: HEX HEAD



# **BCA: COUNTERSUNK HEAD**





Design Characteristic	Notation	Units	Nominal Anchor Size		
Design Characteristic	Notation	Units	3/16"	1/4"	
Anchor category	1, 2 or 3	· · · · · · · · ·	2	1	
Nominal ambadment depth	h	in.	2.00	2.10	
Nominal embedment depth	h <sub>nom</sub>	(mm)	(51)	(53)	
STEEL STRENGTH IN TENSIO	ON (ACI 318-19 17.6.	1, ACI 318-14 17	4.1 or ACI 318-11 D.5	5.1)	
Stool strength in tangion	N	lbf	1,638	2,913	
Steel strength in tension	N <sub>sa</sub> -	(kN)	(7.28)	(12.96)	
Reduction factor for steel strength	ø	-	0	65	
CONCRETE BREAKOUT IN TENS	SION (ACI 318-19 17	.6.2, ACI 318-14	17.4.2 or ACI 318-11	D.5.2)	
Effective embedment	h <sub>ef</sub>	in.	1.45	1.45	
		(mm)	(37)	(37)	
Effectiveness factor for uncracked concrete	k uncr		24	24	
Modification factor for concrete	Ψ <sub>c,N</sub>		1.0	1.0	
Critical adap distance		in.	3	3	
Critical edge distance	C <sub>ac</sub> -	(mm)	(76)	(76)	
Reduction factor for concrete breakout strength	φ	-	0.55	0.65	
PULLOUT STRENGTH IN TENS	ION (ACI 318-19 17.	6.3, ACI 318-14 1	7.4.3 or ACI 318-11 D	.5.3)	
Characteristic pullout strength,	N	lbf	1,695	2,153	
uncracked concrete (2,500 psi)	N <sub>p,uncr</sub>	(kN)	(7.54)	(9.58)	
Reduction factor for pullout strength	φ	-	0.55	0.65	
Normalization exponent	n		0.07	0.29	

1	2023.09.28	D.VARAS	S. REIG	COMPANY NAME MODIFIED
0	2023.06.08	A. GRAU	S. REIG	INITIAL EDITION
Rev.	Date	Drawed	Approv.	Description

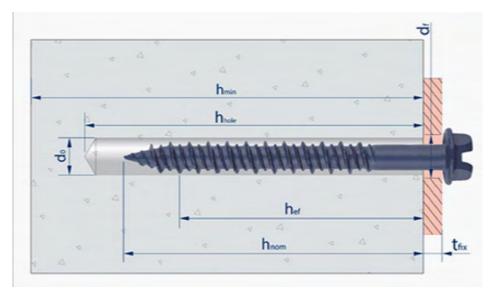
# **BLU-CON CONCRETE SCREW**

#### TENSION DESIGN INFORMATION

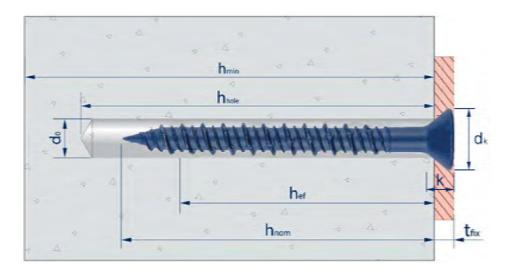
Manufacturer: Técnicas Expansivas S.L.	DATE 2023.09.28
 Segador 13 Logroño (La Rioja) 26005 Spain	REVISION: 1
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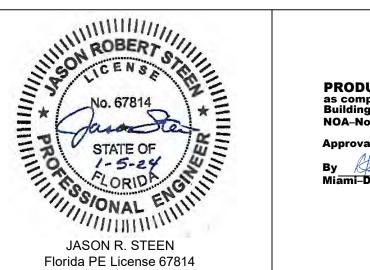
# INSTALLED CONDITION

# BCH: HEX HEAD



# **BCA: COUNTERSUNK HEAD**





Design Characteristic	Notation	Units	Nominal Anchor Size		
5		-	3/16"	1/4"	
Anchor category	1, 2 or 3	-	2	1	
Nominal omhadmant danth	h	in.	2.00	2.10	
Nominal embedment depth	h <sub>nom</sub>	(mm)	(51)	(53)	
STEEL STRENGTH IN SHEAR	ACI 318-19 17.7.1,	ACI 318-14 17.5.1	or ACI 318-11 D.6.1	)	
Stool strongth in shoor	V	lbf	844	1,653	
Steel strength in shear	V <sub>sa</sub>	(kN)	(3.8)	(7.4)	
Reduction factor for steel strength	φ	-	0.60		
CONCRETE BREAKOUT IN SHEA	R (ACI 318-19 17.7.	2, ACI 318-14 17.5	.2 or ACI 318-11 D.	6.2)	
Load bearing length of anchor	- l <sub>e</sub>	in.	1.45	1.45	
(h <sub>ef</sub> or 8d <sub>o</sub> , whichever is less)		(mm)	(37)	(37)	
Nominal outside anchor diameter	d	in.	3/16	1/4	
Nominal outside anchor diameter	d <sub>a</sub>	(mm)	(4.8)	(6.4)	
Reduction factor for concrete breakout strength	ø	-	0.70		
PRYOUT STRENGTH IN SHEAR	(ACI 318-19 17.7.3,	ACI 318-14 17.5.3	or ACI 318-11 D.6.	3)	
Coefficient for pryout strength	k <sub>cp</sub>	-	1.0	1.0	
Effective embedment	h	in.	1.45	1.45	
	h <sub>ef</sub>	(mm)	(37)	(37)	
Reduction factor for pryout strength	ø	-	0.7	0	

PRODUCT A as complying v Building Code	<b>PPROVED</b> with the Florida
NOA-No.	23-0815.01
Approval Date	02/22/2024
By Kirms Viami-Dade Pr	oduct Control

1	2023.09.28	D.VARAS	S. REIG	COMPANY NAME MODIFIED
0	2023.06.08	A. GRAU	S. REIG	INITIAL EDITION
Rev.	Date	Drawed	Approv.	Description

# **BLU-CON CONCRETE SCREW**

### SHEAR DESIGN INFORMATION

	Manufacturer: Técnicas Expansivas S.L. Segador 13 Logroño (La Rioja) 26005 Spain	DATE 2023.09.28
		REVISION: 1
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