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MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

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

NOTICE OF ACCEPTANCE (NOA)

U.S. Nitto Corp. dba Intercorp 641 N. Poplar Street Orange, CA 92868

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: Strong-con Concrete and Masonry Screw Anchors

APPROVAL DOCUMENT: Drawing No. **CSHWH320BC**, titled "Strong-point Strong-con Concrete and Masonry Screws", sheet 1 of 1, dated 04/27/2016, with last revision dated 06/30/2017, prepared by U.S. Nitto Corp. dba Intercorp, signed and sealed by Ronal I. Ogawa, P.E. on 08/31/2017, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance (NOA) number and approval 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, city, state 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 pages E-1, as well as approval document mentioned above.

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



Store 12/11/2017

NOA No: 15-0930.14 Expiration Date: December 21, 2022 Approval Date: December 21, 2017

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **CSHWH320BC**, titled "Strong-point Strong-con Concrete and Masonry Screws", sheet 1 of 1, dated 04/27/2016, with last revision dated 06/30/2017, prepared by U.S. Nitto Corp. dba Intercorp, signed and sealed by Ronal I. Ogawa, P.E. on 08/31/2017.

B. TESTS

- 1. Test report on static tension and shear capacity of Strong-Con 3/16" and ¼" diameter concrete and masonry screw anchors per ASTM E 488, prepared by Specialized Testing, Test Report No. **STQA50533**, dated 04/08/2015, signed and sealed by Ronald I. Ogawa, P.E.
- 2. Test report on corrosion resistance (salt spray/fog) of Strong-Con 3/16" and ¼" diameter concrete and masonry screw anchors per TAS 114, Appendix E, ASTM G 85, Annex 5 (140 cycles), prepared by Element Materials Technology, Test Report No. **ESP017947P**, dated 11/11/2014, signed and sealed by Jason R. Steen, P.E.

C. CALCULATIONS

1. None.

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 5th Edition (2014) and 6th Edition (2017) FBC issued by RI Ogawa & Associates, Inc., dated 08/31/2017, signed and sealed by Ronald I. Ogawa, P.E.
- 2. Statement letter of no financial interest issued by Specialized Testing, dated 09/22/2015, signed and sealed by Ronald I. Ogawa, P.E.

3. Distributor agreement dated 09/08/2015.

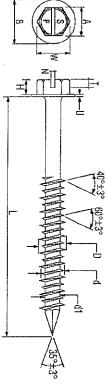
Carlos M. Utrera, P.E. Product Control Examiner

NOA No 15-0930.14

Expiration Date: December 21, 2022 Approval Date: December 21, 2017

SLOTTED INDENTED HEX WASHER HEAD

PHILLIPS FLAT OR TRIM HEAD



350±30

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	MIn	Max	Min	Max	Min	Min	Max	Min	Max	Min	Max
	.199	.210	.†29	.143	191.	.118	. 155	.374	.393	.031	943
	.244	.256	.171	.†81	.201	.118	. 155	.398	.433	.031	043

Size

3/16 1/4

Size

Across F Width

Space	s (ksi)	Structural Properties (ksl)	Structur		-	_		
		14	.067	.056	.102	.077	0.339	315
		16	.053	.044	.074	.051	0.272	250
			Max	Min	Max	Min	Min	iex
		TPI Threads Per Inch	N Width	N Slot Width	r Depth	T Stot Depth	Width Across Corners	ar ar
			_	_		_		

3/16

.244 ≦

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306

Part Number

	1/4	3/16			Size		1/4	3/16	
	,131	.101	Min	ᇢᇸ	,		.244	.199	<u>Ş</u>
	.156	,124	Max	Hecess Depth	Ω		.256	.210	Max
	.276	.216	Min	- X	,		.171	.129	Min
	283	3 224	Max	Width	ĸ		.181	.143	Max
	3 14	4 16	^	Per Inch	-TPI		.201	.161	Min
ا	0 6 6		اسسا			l	.187	.149	Min
	* =	<u>v</u>	/	7	_		.217	.169	Max
•••		1	Č				,472	.354	Min
SPI	*	1.7. C	2		OGAI	(18888)	.512	.393	Max

Size	
Major	
Minor	
b Dw:Thead	
реэН Н	F
Width A	

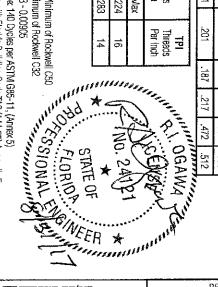
Diameter

Diameter

Height

Across Flat





2,300 PSI	407 556	422 245	Tension Shear	2,900 PSI	s (lbs.)		4"
For use in un-cracked concrete, hollow bloc	Installation Instructions:	10. Substrates shall conform to ACI 318, AS	9. Anchors shall not be installed in cracker	8. Test substrates prepared in accordance to	6. Tested in accordance with Florida Buildi	5. Corrosion Resistence: 140 Cycles per A	 Case Depth: 0.00393 - 0.00905

Notes:

Material: C1022

Space

ā

- Surface Hardness: Minimum of Rockwell C50
- Core Hardness: Wilnimum of Rockwell C32 Case Depth: 0.00393 0.00905

CH336, CF336

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Min

Max

3/16

70

3/16 Size

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2,310

74

70

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1/4

Length

Size

급

2H344, CF344

2-3/4 2-1/4

2,810

3-1/4

3.310

)H364, CF364)H360, CF360)H352, CF352

3-3/4

3,691 3.191 2,691 2.191

3,810

394

- sted in accordance with Florida Building Code TAS (144-95) Appendix E rrosion Resistence: 140 Cycles per ASTM G85-11, (Annex 5)
- chors shall not be installed in cracked concrete as defined in ACI 355.2, bstrates shall conform to ACI 318, ASTM C90. t substrates prepared in accordance with ASTM C1019.

ation Instructions:

Drill the hole with a hammer drill (in rotation and hammer mode) using a standard carbide drill bit with the proper diameter (3/16" anchor = 5/32" bit 1/4" anchor = 3/16" bit) e in un-cracked concrete, hollow block CMU, and grouted hollow block CMU

- 2a. Concrete and Grouted CMU drill the hole 1/4" deeper than a recommended embedment of, Min 1" \sim Vax 1-3/4". (1-3/4" + 1/4" = 2" for concrete and grouted masonry).
- 2b. Hollow CMU drill the hole through the tull thickness of the face shell
- Clean the hole with compressed air or hard pump

All measurements are in inches except where noted

CH496, CF496 CH480, CF480

5,941

6,061

3/16

14

1-3/4 1-3/4"

3-1/2" 3-1/2"

260 373

390 220 4.941

5,061

Substrate: Grout Filted Masonry Block

)H464, CF464

CH452, CF452, CT452 CH444, CF444, CT444 DH436, CF436, CT436

3-1/4

<u>3</u> 2.691

3.310 2.810

Substrate: Hollow Masonry Block

2-3/4

2-1/4

2.191

2.310 4.061

3/16

1-3/4

3-1/2

1/4

1-3/4"

3-1/2"

Size

Min. Embed

Min. Edge Dist

Substrate: Concrete

Allowable Load Capacities

H460, CF460, CT460

3-3/4

3.691

3.810

3/16

1-3/4

3.941

4.061

1/4

1-3/4"

3 12 3-1/2"

8 25

335 335 먌

4,900 PSI

Install anchor with a hammer drill with rotary only (hammer mode off), or a standard rotary drill, using a standard hex driver or Phillips bit. Drive until fully seated, Do

2. T.	7	ER	*
TRON	PON	T	rae

		REVISIONS	
	DATE	DESCRIPTION	BY
	4/27/16	INITIAL SUBMITTAL	DH
ı	3/01/17	CONVERTED MM TO INCHES	DH
	6/30/17	UPDATED MIN AND MAX INFO	DН

641 North Poplar Street Orange, California 92868 (714) 744-2622 • (714) 744-4672 fax

CONCRETE AND MASONRY SCREWS

REVISIONS	
DESCRIPTION	BY
INITIAL SUBMITTAL	DH
CONVERTED MM TO INCHES	DH
UPDATED MIN AND MAX INFO	DH
	DESCRIPTION INITIAL SUBMITTAL CONVERTED MM TO INCHES

/36°±3°

Miami-Dage Product Control

Approval Date

as complying of Building Code

NOA-No.

15-0930.14 12/21/2017

PRODUCT APPROVED as complying with the Florida

PREPARED BY

DRAWING NUMBER: CSHWH320BC