### City of Miami Beach

Last Completed Item Reviews Across All Submittals

# IAMIBEACH Print Date BUILDINGODERARTMENT

Permit Type: Revision Work Class: General Application Date: 05/11/2022 Status: Applied Reviewed For Compliance Permit:RV2217886 RV2217886 Address: 5313 COLLINS AVE

Item Review Type	Status	Version	Completed Date Ossa Oned User 45 PM
Plumbing Review	Not Required	1	05/26/2022 Rogelio Lorenzo
Mechanical Review	Not Required	1	05/20/2022 Laura Ferrer
Electrical Review	Not Required	1	05/23/2022 Elier Marquez
Environmental Review	Not Required	1	05/20/2022 Jorge Nunez
Elevator Review	Not Required	1	05/23/2022 Joey Gan
Roofing Review	Not Required	1	05/24/2022 James Bartell
Building Review	Not Required	1	05/24/2022 Armando Lopez
Planning Review	Pass	2	07/01/2022 Irina Villegas
Structural Review	Pass	2	06/15/2022 Adalberto Viciedo
Fire Building Review	Pass	3	09/12/2022 Jorge Clavijo
Submittal Version Complete	Pass	4	10/03/2022 Nisca Cesar
Permit Intake Review	Pass	4	09/29/2022 Ashley Gonzalez

MIAMIBEACH

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BUILDING Corport PARTMENT Miani Beach, Florida 33139 Reviewed For Scompliance

	Applicant Inform	nation (Blue or Black Ink Only	/)	RV2217886			
Office Use Only Submittal Date://	Master Permit Numb BC2116519	per (If applicable):	Florida Statute 553.79 ()603 and a statute 553.7				
Permit #:		. US2021-03920	 ⊠ Opt IN □ Opt OUT				
Property Address:	Violation # (If applicable Unit #: Parce	el/Folio Number:	-				
5313 COLLINS AVENUE MIAMI BEACH, FL 33140		2140220001	For more informatio	n, see attached F.S.553.79(16)			
Permit Type (select one)	Permit Request (se	elect all that apply)	Property Info	ormation (select one)			
Building     Demo year-built     Electrical     Generator	New Permit	Permit Extension	X Commercial				
Mechanical     Generator     Temp Structure	Change of Contractor Change of Arch/Engr	Permit Renewal Permit Revision	Multi-Family Resi	dential e-Family Residence/Duplex			
Plumbing Fire		Private Provider					
Roofing     Shop Drawings     Phased Permit	Affordable Housing	City Project	Occupancy Classific	ation:			
		Carlo - 9 Wrote - Oppositional Instance in Constantiation	Attach a copy of the const	ruction cost affidavit to this form			
Type of Work		e of Work be changed once submitted)	Sc	uare Footage			
New Construction/Additions:	\$ N/A	be changed once submitted)		N/A			
Alterations/Reconfig of space:	\$ 44,475.20			40			
Description of Work: SHORING	G PLAN FOR CO	OLUMNS REPAIRS					
Drawards Ourse							
Property Owner ame: THE AMETHYST CONDO ASSO		Name: JUAN CLAVI	Contractor				
Address: 5313 COLLINS AVENUE	Suite:			Suite: 3			
		12205 SW 1		5			
<sup>ity:</sup> MIAMI BEACH <sup>State:</sup> FL	<b>Zip Code:</b> 33140	City: MIAMI	State: FLORIDA	A <b>Zip Code:</b> 33186			
river's License/ State Identification Number:		State Identification Number/License	CGC1513648				
-Mail Address (REQUIRED): JAGARCIA@MIAMIMANAGEMENT . (	Daytime phone: COM 305-265-717	7 E-Mail Address 1 LGONZALEZ@ICONGROU		Daytime phone: 305-501-4817			
Architect	000 200 111	/ LCONTRELECTION CITCO	Structural Engin	and the second			
			ou dottar a Light				
	License Number:	Name: RAFAEL OREA		License Number:			
<sup>ame:</sup> LUIS NAYA Mail Address:	Davtime phone:	RAFAEL OREA	MUNO	License Number: Daytime phone:			
<sup>lame:</sup> LUIS NAYA -Mail Address: NAYA@NAYAARCHITECTS.COM his application is hereby made to obtain a permit to do th	Daytime phone: 305-265-717 Notice e work and installations as indice	RAFAEL OREA E-Mail Address 77 ROREAMUNO@RCGRO & & Certification ated, certify that all work will be perfo	MUNO	License Number: Daytime phone: 305–905–7101			
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Name: LUIS NAYA  Mame: LUIS NAYA  Main Address: NAYA@NAYAARCHITECTS.COM  This application is hereby made to obtain a permit to do th egulations in this jurisdiction. I understand that a separate Conditioners, etc.  Dwner's Affidavit: I certify that all the forgoing information essee's Affidavit: Lessee certifies that he has full conse n addition to the requirements of this permit, there may be permits required from other governmental entities such as Department of Environmental Protection, South Florida Wa penalties of perjury, I declare that I have read the foreg ienial of the permit and/or Certificate of Occupancy. A hird degree, punishable as provided in s. 775.082, s. 7  Owner/Lessee for new permits (Documentation establ Master Permit Contractor of Record (For sub-permit / VARNING TO OWNER: YOUR FAILURE TO RECORD A PF COMMENCEMENT IS REQUIRED FOR ANY WORK To ignature of Owner/Agent or GC (for Sub-permits): PRINT NAME: TATE OF COUNTY OF the foregoing instrument was acknowledged before me, b I physical presence or □ online notarization, nis day of, 20 y GRANT NAME: SEAL)	Daytime phone: 305-265-717 Notice work and installations as indice a permit must be secured for Elec in is correct. Owner Certifies that and authorization from owner a additional restrictions applicable the Environmental Division of M ater Management District, Miami- going application and that the for A person who knowingly makes (75.083, or s. 775.084. ishing ownership may be request change of contractor). A NOTICE OF COMMENCEMEN WITH COST EXCEEDING \$2,50  y means of	RAFAEL OREA RAFAEL OREA ROREAMUNO@RCGRO CROREAMUNO@RCGRO CROREAMUNO CROREAMUNO@RCGRO CROREAMUNO CR	MUNO UP-LLC.COM ormed to meet the standard mbing, Signs, Wells, Pools are authorization to perform by e-mentioned work and to the public records of this noment and Regulatory Aff agement districts, state ag mation found to be false crime of perjury by false ust complete Owner Builded TWICE FORT MPROVEMENT DE34E75551 DCARLOS CLA DCALOS CLA DA COUNTY OF I was acknowledged before D online notazization, of CARLOS CLA DA COUNTY OF I Was acknowledged before D online notazization, of CARLOS CLA	License Number: 305-905-7101 Is of all laws and construction , Furnaces, Boilers, Heaters, Tanks, Air the work as specified above. hire above captioned contractor. sounty, and there may be additional airs, Water & Sewer Department, encies, and/or federal agencies. Under may cause the revocation and/or written declaration, a felony of the r Affidavit) NYS TO YOUR PROPERTY. A NOTICE AMIO 41AMI – DADE me, by means of , 20_22 044.1 41.24.216 1.2			
Image:       LUIS NAYA         -Mail Address:       NAYA@NAYAARCHITECTS.COM         Ihis application is hereby made to obtain a permit to do the egulations in this jurisdiction. I understand that a separate conditioners, etc.         Dwner's Affidavit: I certify that all the forgoing information essee's Affidavit: Lessee certifies that he has full consent addition to the requirements of this permit, there may be ermits required from other governmental entities such as bepartment of Environmental Protection, South Florida W.         enalties of perjury, I declare that I have read the foregential of the permit and/or Certificate of Occupancy. A hird degree, punishable as provided in s. 775.082, s. 7         Owner/Lessee for new permits (Documentation estable)         Master Permit Contractor of Record (For sub-permit / reading of the permit Contractor of Record (For Sub-permits):         Ignature of Owner/Agent or GC (for Sub-permits):         TATE OF       COUNTY OF         TATE OF       COUNTY OF         the foregoing instrument was acknowledged before me, b       physical presence or □ online notarization, is         mis	Daytime phone: 305-265-717 Notice work and installations as indice a permit must be secured for Elec in is correct. Owner Certifies that and authorization from owner a additional restrictions applicable the Environmental Division of M ater Management District, Miami- going application and that the for A person who knowingly makes (75.083, or s. 775.084. ishing ownership may be request change of contractor). A NOTICE OF COMMENCEMEN WITH COST EXCEEDING \$2,50  y means of	RAFAEL OREA RAFAEL OREA ROREAMUNO@RCGRO CONTROL ROREAMUNO CONTROL ROREAM	MUNO UP-LLC.COM primed to meet the standard mbing, Signs, Wells, Pools the authorization to perform provementioned work and to the public records of this the public records of this mation found to be false crime of perjury by false ust complete Owner Builded TWICE FOR IMPROVEMENT JUAN (U DC34E75551 N CARLOS CLA DA COUNTY OF I was acknowledged before D online notarization, of CARLOS	License Number: 305-905-7101 Is of all laws and construction , Furnaces, Boilers, Heaters, Tanks, Air the work as specified above. hire above captioned contractor. sounty, and there may be additional airs, Water & Sewer Department, encies, and/or federal agencies. Under may cause the revocation and/or written declaration, a felony of the r Affidavit) NYS TO YOUR PROPERTY. A NOTICE AMIO 41AMI – DADE me, by means of , 20_22 bracked to friorice H 21420 1 21420			

**Permit Application** 

DocuSign Envelope ID: 2BD533DD-CD52-4DD6-A8EA-3EF912E7A350



<sup>17</sup>BUILDE Cepartment <sup>17</sup>BUILDE Centre Prive R<sup>ad</sup> AGE NT Miami Beach, Florida 33139 Reviewech Fore: Sconcypliance

**CONSTRUCTION COST AFFIDAVIT** 

RV2217886

10/03/2022 1:30:45 PM

THE AMETHYST CONDOMINIUM ASSOCIATION	
I, acting as age and I (general contractor/ sub-contractor), ICON GROUP EN	NGINEERS LLC do hereby attest that the
construction costs indicated herein for Permit Number BC211	6519 at property address
5313 COLLINS AVENUE , MIAMI BEACH, FLORIDA	are accurate for this construction project.
Note: This affidavit is only required for job values are \$5,000 or g	
Master Permits:	
Building cost (excludes roofing, windows, doors, railings, other,	and MEP)\$: 44,475.20
Stand alone and sub-permits	
Roofing \$: N/A Windows/Doors \$: N/A	A Railings \$: N/A
Electrical \$: N/A Mechanical \$: N/A	
Other \$: N/A Description: N/A	
Under penalties of perjury, I declare that I have read the foregol Registered Owner/Agent or GC: JUAN C. CLAVIJO Signature of Owner/Agent or GC (for Sub-permits) The foregoing instrument was acknowledged before me, by means of <b>physical presence or online notarization</b> , thisday of,20 by, who is personally known to me or who has produced as identification	Registered Contractor:       JDANPE: Sleved hyD
Notary Public, State of	Notary Public, State of Flonda
County of	County of Miani-Dade
Commission Number: Notary Put	Lowner 6 ometh Printed Name and Signature PAOLA GONZALEZ blic - State of Fiorica sion graphisasign Number: HH 214201 Expires Jan 6, 2026 Nationa; Notary Assr. Generission Expires: Jan 6, 2026

Revised September 17, 2021

DocuSign Envelope ID: 2BD533DD-CD52-4DD6-A8EA-3EF912E7A350



<sup>17</sup>BUILONGENDEPXERTATION Miami Beach, Florida 33139 Reviewach Flore: Sographiance

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# **CONSTRUCTION COST AFFIDAVIT**

I, acting as age	ent (owner, registered agent, or legal representative)
and   (general contractor/ sub-contractor), ICON GROUP EI	NGINEERS LLC do hereby attest that the
construction costs indicated herein for <b>Permit Number</b> BC211	at property address
5313 COLLINS AVENUE , MIAMI BEACH, FLORIDA	are accurate for this construction project.
<u>Note:</u> This affidavit is only required for job values are \$5,000 or g	greater.
Moster Dermiter	
<u>Master Permits:</u>	44 475 20
Building cost (excludes roofing, windows, doors, railings, other,	, and MEP)\$: _44,475.20
Stand alone and sub-permits	
Roofing \$: N/A Windows/Doors \$: N/A	A Railings \$: N/A
Electrical \$: N/A Mechanical \$: N/A	
Other \$: N/A Description: N/A	
Under penalties of perjury, I declare that I have read the forego Registered Owner/Agent or GC: JUAN C. CLAVIJO Signature of Owner/Agent or GC (for Sub-permits) The foregoing instrument was acknowledged before me, by means of physical presence or □ online notarization, this, day of,20 by, who is personally known to me or	Registered Contractor: JUANPC:它图代的O
who has produced	who has produced
as identification	as identification.
Notary Public, State of	Notary Public, State of <u>flonida</u>
County of	County of Miani-Dafe A
	Lorner 6 omeiler July.
Printed Name and Signature	Printed Name and Signature
Commission Number:	blic-State of Fionda science ministry Number: HH [44401
Deeded through	Expires Jan 6, 2026 Nationa: Notary Assr. Commission Expires:

Revised September 17, 2021

# **NOTICE OF COMMENCEMENT** A RECORDED COPY MUST BE POSTED ON THE JOB SITE AT TIME OF FIRST INSPECTION

منهو المسترين

PERMIT NO.BC2116519 TAX FOLIO NO.0232140220001

ART FNT CFN 2021E0576790 OR Bk 328eviewed5For Compliance RECORDED 08/06/2021 09:45:20 HARVEY RUVIN, RUV2217886 MIAMI-DADE COUNTY, FLORIDA 10/03/2022 1:30:46 PM

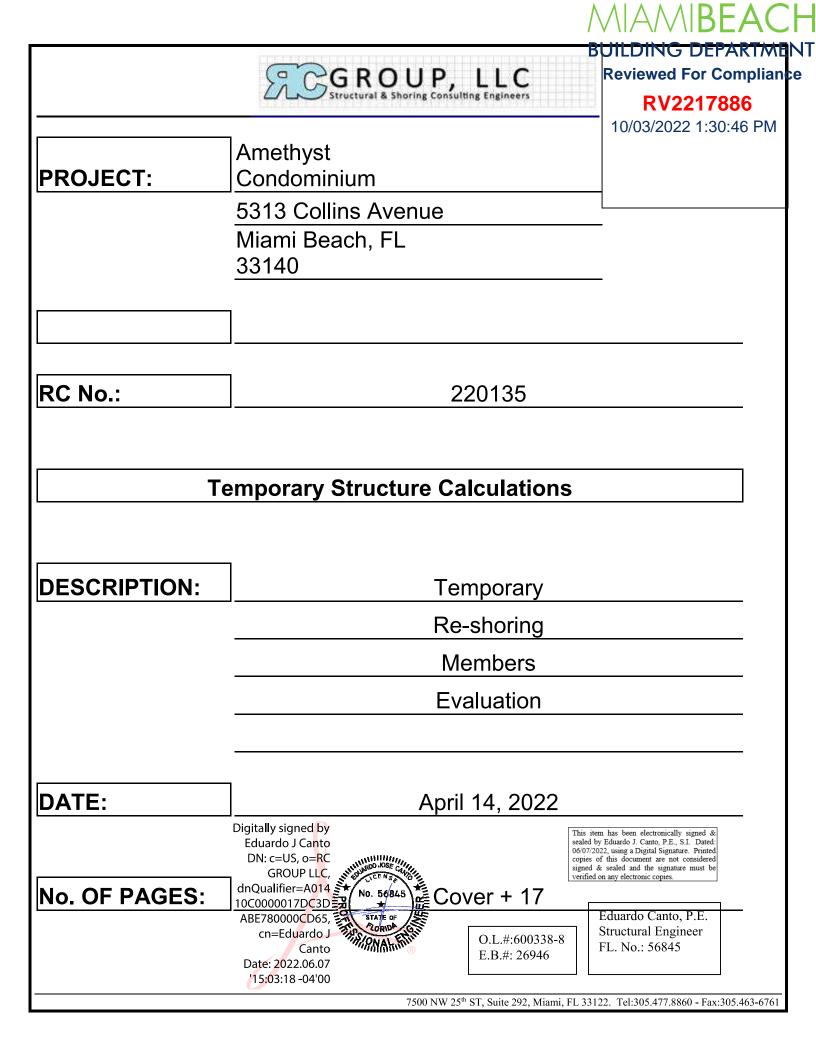
STATE OF FLORIDA:
COUNTY OF MIAMI-DADE:

COUNTY OF MIAMI-DADE:	STATE OF FLORIDA, COUNTY OF MIAMI-DADE
	that this is a true conv of the
THE UNDERSIGNED hereby gives notice that improvements will be n property, and in accordance with Chapter 713, Florida Statutes, the fo	day of /S/
is provided in this Notice of Commencement.	WITNESS my hand and Official Seal
	HARVEY RUVIN, clarker circuttane County Courts
	By D.C.
	D.C. COUNT BILLY
	Space above reserved for use of recording office
THE AMETH	YST CONDOMINIUM ASSOCIATION.
1. Legal description of property and street/address.	IS AVENUE MIAMI BEACH, FLORIDA 33140
2. Description of Improvement: CONCRETE REPAIRS	
3. Owner(s) name and address: IHE AME I HYSI CONDOMINIU	M ASSOCIATION. 5313 COLLINS AVE MIAMI BEACH FL 33140
Interest in property:	
4. Contractor's name, address and phone number: ICON GROUP	ENGINEERS LLC. 12205 SW 129TH CT # 3. MIAMI FL
33186. PHONE	E NUMBER: 305-501-4817
5. Surety: (Payment bond required by owner from contractor, if any)	
Name, address and phone number:	
Amount of bond \$	, . · · · · · · · · · · · · · · · · · ·
<ol> <li>Lender's name and address:</li> <li>Persons within the State of Florida designated by Owner upon within the state of Florida designated by Owner upon withe state of Florida d</li></ol>	nom potices or other documents may be served as provided by
Section 713.13(1)(a)7., Florida Statutes,	
Name, address and phone number:	1
D. In addition to himself. Oursey, designates the following payant(s)	to reaching a convert the Linner's Nation on provided in Section
8. In addition to himself, Owners designates the following person(s) 713.13(1)(b), Florida Statutes.	to receive a copy of the Lienor's Notice as provided in Section
Name, address and phone number:	
9. Expiration date of this Notice of Commencement:	n date is 1 year from the date of recording unless a different date is specified)
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER TH	
IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13.	FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR
IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT V	MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE
OR RECORDING YOUR NOTICE OF OPMINENCEMENT.	WITH YOUR LENDER OR AN ALTORNET BEFORE COMMERCING WORK
Signature(s) of Owner(e) Authorized Officer/Director/Pa	rtner/Manager
Properted By	pared By
	nt Name
	e/Office
STATE OF FLORIDA COUNTY OF MIAMI-DADE	
The foregoing instrument was acknowledged before me this <u>26</u>	_ day of 2021
By Robert Pelier	
Individually, or as <u>Board President</u> for for	Amethyst Condo Assoc
Personally known, or produced the following type of identification of National Publics	ation: Machan Sharp
Signature of Notary Public: Print Name:	Michelle Suarez
(SEAL)	Michelle Suarez
VERIFICATION PURSUANT TO SECTION 92.525, FLORIDA STAT	
Under penalties of perjury, I declare that I have read the foregoing a	nd Fxpires: May 9, 2023
that the facts stated in it are true, to the best of my knowledge and	belief. Bonded Thru Aaron Notary
Signature(s) of Owner(s) or Owner(s) of Ow	artner/Manager who signed above:
Ву Ву	
123.01-52 PAGES-ON ROBORT & PELLER	
and with we will be	
123_01-52 PAGES-OT Robert No. Palles	

#### $\wedge$ IBFA Ľ **BUILDING DEPARTMENT Reviewed For Compliance**

# RV2217886

REC BY: Miriam P Please verify transaction aving.	TOTAL DUE PAID TOTAL PAID CHECK Check #1464811781:	ITEM - 02 SERVICE RECORDING MISC REVENUE Subtotal 0.60	ITEM - 01 NCO RECD: 8/6/2021 9:45:20 AM FILE: 20210576790 BK/PG 0 3 Recording Fees COPIES CERTIFICATION Subtotal 13.00	ICON GROUP ACCOUNT #: 0	03 0/03 0/TIME:8/6/2021 1/HECEIPT: 8092298	304 3MIAMI-DADE COUNTY CLERK OF 1COUNTY RECORDER 222 N.W. 1ST STREET 222 N.W. 1ST STREET 20MIAMI, FL 33128 20REF: 305-501-4817	6 PN	<b>1</b> .
& amount before 1	\$13.60 \$13.60 \$13.60 13.60	0.60	32666/1495 10.00 1.00 2.00			COURTS	(	



#### $\wedge$

BUILDING DEPARTMENT

GROUR Pviewed For Compliance Structural & Shoring Consulting Society 17886

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Codes:	Materials:						
<ol> <li>(1) FBC 2020, 7<sup>th</sup> Edition</li> <li>(2) ACI 318-14</li> <li>(3) ACI 530-13</li> <li>(4) ASCE 7-16</li> <li>(5) AISC (ASD 14th Ed.)</li> <li>(6) NDS 2018</li> <li>(7) ACI 347.2R-05. Guide for Shoring/Re-shoring of Concrete Multistory Buildings</li> <li>(8) ADM 1-2015</li> </ol>							

# Table of Content:

Page	Description
1	Re-shoring members check for existing damaged column.
16	Re-shoring capacity tables.

**RC GROUP, LLC** Structural & Shoring Consulting Engineers

220135- Colonal Colona

Reviewed For Compliance

### 12217886

INVERTING FOR EXISTING CONCRETE COLUMN

 INVERTING FOR EXISTING CONCRETE COLUMN

 The purpose of this re-shoring is to support existing load on column located on ground level . Contractor shall verify in field all dimensions, and notify us any deviation.

 Number of floors (slabs)  
Above column level to be repaired
 
$$n_{floors} := 11$$
 Including main roof level

 Tributary area  
TA<sub>T</sub>yptioor :=  $\left(\frac{16.5 ft}{2} + \frac{16.5 ft}{2}\right) \left(\frac{15.75 ft}{2} + \frac{21.58 ft}{2}\right) = 307.97 ft^2$ 
 $TA_{Roof} := TA_{Typfloor} = 307.97 ft^2$ 

 Slab LL
 LL slab := 40psf
 Residential live load.
 LL sloof := 30psf

 PLLslab := LL\_slab := 40psf
 Residential live load.
 LL sloof := 30psf

 PCISE(NVt := 12m 20in 150pcf · 10h (nfloors - 1) = 25 k
 Slab DL
 DL slab (nfloors - 1) TA<sub>Typfloor</sub> + DL slab TA<sub>Roof</sub> = 338.77 k

 Interior partitions and finishes
 PSDL := (17psf + 13psf) [[nfloors - 1] TA<sub>Typfloor</sub>] = 92.39 k
 Ptotal := PLLslab + PColSe(Nt + PDLslab + PSDL = 588.59 k

 PRSH := P\_total  $\frac{50}{100}$  = 294.29 k
 Contractor shall not repair more than 50% of damaged column.

 Check channels:
 Use C15x50 channel
 See ENERCALC Printout.

**RC GROUP, LLC** Structural & Shoring Consulting Engineers

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Check thru bolts: V <sub>boltAllow</sub> := 67.6k
Bolts 1 1/8" dia. group ASTM A325, X, double shear
$n_{bolts} := 6$ minimum quantity of bolts to be used per connection. $V_{boltsTotalAllow} := V_{boltAllow} \cdot n_{bolts} = 405.6 \cdot k$
$\frac{\text{Check}(\text{V}_{\text{boltsTotalAllow}}, \text{P}_{\text{RSH}}) = "\text{OK}"}{}$
Alternate check thru bolts: $V_{boltAllowN} := 53.7k$
All threaded rods 1 1/8" dia. group ASTM A325T, N, double shear
$\underset{to be used per connection.}{\text{minimum quantity of bolts } V_{boltsTotalAllowN} := V_{boltAllowN} \cdot n_{bolts} = 322.2 \cdot k$
$\frac{\text{Check}(\text{V}_{\text{boltsTotalAllowN}}, \text{P}_{\text{RSH}}) = "\text{OK"}}{}$
Comment of the second s
CHECK THRU BOLTS CONCRETE BEARING
Data: f. = 5000psi (V.I.F.)
$\frac{R_{\text{RSH}}}{n_{\text{bolts}}} = 49.05 \cdot k \qquad \text{See previous calculations.}$
HY 200 Epoxy thickness $\underline{\text{Epoxy}}_{\mathbf{k}} := \frac{1}{16}$ in minimum $\underline{\text{Bolt}}_{\text{Disk}} := 1$ in $+\frac{1}{8}$ in
Loaded surface dimensions: $B_{\text{const}} = (Bolt_{Dia} + Epoxy_t)$
N.:= 12in Column width (V.I.F.)
Check Bearing:
Allowable Concrete Bearing on Exg. Column $F_{cont} = 0.70 \cdot f_c$ $F_c = 3500 \cdot psi$
Actual Concrete Bearing on Exg. Column $f_{AQA} := \frac{R_{Column}}{B \cdot N}$ $f_c = 3442.04 \cdot psi$
$Check(F_c, f_c) = "OK"$
Lummun

# MIAMIBEACH BUILDING DEPARTMENT

**Reviewed For Compliance** 7500 NW 25th Street, Suite 292 Miami, FL 33122 RV22472886 File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel Steel Beam 61471P ENERCALC, INC. 19832086262 Lic. # : KW-06011462 Licensee : RC GROUP, LLC Description : 220135- Channel Check - 2 channels one on each side-50% repair **CODE REFERENCES** Calculations per AISC 360-10, IBC 2012, ASCE 7-10 Load Combination Set : IBC 2015 **Material Properties** Analysis Method : Allowable Strength Design Fy : Steel Yield : 50.0 ksi Completely Unbraced E: Modulus : 29,000.0 ksi Beam Bracing : Major Axis Bending Bending Axis : D(147.15) Span = 4.420 ft C15x50 Service loads entered. Load Factors will be applied for calculations. **Applied Loads** Beam self weight calculated and added to loading Load(s) for Span Number 1 Point Load : D = 147 150 k @ 2.210 ft **DESIGN SUMMARY Design OK** Maximum Bending Stress Ratio = 0.952:1 Maximum Shear Stress Ratio = 0.382:1 Section used for this span Section used for this span C15x50 C15x50 Ma : Applied Va : Applied 73.686 k 162.723 k-ft Mn / Omega : Allowable Vn/Omega : Allowable 170.908 k-ft 192.934 k Load Combination +D+H Load Combination +D+H 0.000 ft 2.210ft Location of maximum on span Location of maximum on span Span #1 Span # where maximum occurs Span #1 Span # where maximum occurs Maximum Deflection Max Downward Transient Deflection 0.000 in Ratio = 0<360 0.000 in Ratio = Max Upward Transient Deflection 0 <360 0.039 in Ratio = Max Downward Total Deflection 1351 >=180 Max Upward Total Deflection 0.000 in Ratio = 0 <180 **Maximum Forces & Stresses for Load Combinations** Max Stress Ratios Summary of Moment Values Summary of Shear Values Load Combination Vnx Vnx/Omega Seament Lenath Span # Μ V Mmax + Mmax -Ma Max Mnx Mnx/Omega Cb Rm Va Max

Segment Length	Span #	IVI	v	WITIAX T	Williax -	IVIA IVIAX	IVITA	wink/Onlega	CD	NIII	va Max	VIIX	viix/Omeya
+D+H													
Dsgn. L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+D+L+H													
Dsgn. L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+D+Lr+H													
Dsgn. L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+D+S+H		0.050	0.000	400 70		400 70	005 10	170.01	4 00	4.00	70.00		100.00
Dsgn.L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+D+0.750Lr+0.750L+H	1	0.952	0.382	162.72		160 70	285.42	170.91	1 22	1.00	73.69	322.20	192.93
Dsgn. L = 4.42 ft +D+0.750L+0.750S+H	I	0.952	0.302	102.72		162.72	200.42	170.91	1.32	1.00	73.09	322.20	192.95
Dsgn L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1 32	1.00	73.69	322.20	192.93
+D+0.60W+H	1	0.352	0.002	102.72		102.72	200.42	170.51	1.02	1.00	75.05	522.20	192.95
Dsgn. L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+D+0.70E+H	•	01002	0.002										
Dsgn. L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+D+0.750Lr+0.750L+0.450W+H	1												
Dsgn. L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+D+0.750L+0.750S+0.450W+H													
Dsgn. L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+D+0.750L+0.750S+0.5250E+H	1												
Dsgn. L = 4.42 ft	1	0.952	0.382	162.72		162.72	285.42	170.91	1.32	1.00	73.69	322.20	192.93
+0.60D+0.60W+0.60H Dsgn. L = 4.42 ft Condo	minium	- Temporary	Re-shoring	07.00		07.00	005 10	170.01	4 00	4 00	44.21	3.of.1	6 400.00
Dsgn L = 4.42 ft	1	0.5/1	0.229	97.63		97.63	285.42	170.91	1.32	1.00	44.21	322.20	192.93

## MIAMIBEACH BUILDING DEPARTMENT Reviewed For Compliance

RV2247886

Steel Beam	_			_				ENERC	ALC, I				0014371 P	
Lic. # : KW-06011462 Description : 220135-	Channel (	Check - 2 cha	nnels one on ea	ach side-50 <sup>9</sup>	% renair					L	.icensee :	RC GR	OUP, LLC	
	onannere				// repair									
oad Combination		Max Stre	ss Ratios		Su	ummary of M	oment Value				Summ	ary of Sh	ear Values	
Segment Length	Span #	М	V	Mmax +	Mmax -	Ma Max	Mnx	Mnx/Omega	Cb	Rm	Va Max	Vnx Vnx/Omeg		
0.60D+0.70E+0.60H														
Dsgn. L = 4.42 ft	1	0.571	0.229	97.63		97.63	285.42	170.91	1.32	1.00	44.21	322.20	192.93	
<b>Overall Maximum</b>	Deflec													
Load Combination		Span	Max. "-" Defl	Locatio	n in Span	Load Com	Dination			Max	:. "+" Defl	Location	n in Span	
D Only Maximum Daflacti		1 Mulaad (	0.0392	lana	2.223						0.0000		0.000	
Maximum Deflecti	ons to	or Load (			Downword D	af Looo	ion in Coon	Cnor		May I	Inward Doff		tion in Coon	
Load Combination			Span	IVIAX	. Downward De		tion in Span	Spar	1		Jpward Defl	LOCa	ation in Span	
+D+H			1		0.0392		2.223				0.0000		0.000	
+D+L+H			1		0.0392		2.223				0000		0.000	
+D+Lr+H			1		0.0392		2.223				0000		0.000	
+D+S+H			1		0.0392		2.223				0000		0.000	
+D+0.750Lr+0.750L+H +D+0.750L+0.750S+H			1		0.0392 0.0392		2.223 2.223				).0000 ).0000		0.000 0.000	
			1		0.0392		2.223				).0000		0.000	
+D+0.60W+H			1		0.0392		2.223				).0000		0.000	
+D+0.70E+H +D+0.750Lr+0.750L+0.450\	N/+LI		1		0.0392						).0000		0.000	
			1		0.0392	2.223 2.223					).0000			
+D+0.750L+0.750S+0.450W+H			1		0.0392	2.223					).0000	0.000		
+D+0.750L+0.750S+0.5250	ETU		1		0.0392		2.223				).0000		0.000 0.000	
+0.60D+0.60W+0.60H +0.60D+0.70E+0.60H			1		0.0235		2.223				).0000		0.000	
			1		0.0235						).0000		0.000	
D Only			I					Values in KIPS			0.000			
Vertical Reactions	5				Support n	otation : Far	eft is #1			values ir	I KIPS			
Load Combination		Support 1	Support 2											
Overall MAXimum		73.686	73.686											
Overall MINimum		44.211	44.211											
+D+H		73.686	73.686											
+D+L+H		73.686	73.686											
+D+Lr+H		73.686	73.686											
+D+S+H		73.686	73.686											
+D+0.750Lr+0.750L+H		73.686	73.686											
+D+0.750L+0.750S+H		73.686	73.686											
+D+0.60W+H		73.686	73,686											
+D+0.70E+H		73,686	73,686											
+D+0.750Lr+0.750L+0.450\	//+H	73,686	73,686											
+D+0.750L+0.750S+0.450V		73.686	73.686											
+D+0.750L+0.750S+0.5250	C+U	73.686	73.686											
+0.60D+0.60W+0.60H		44.211	44.211											
+0.60D+0.70E+0.60H		44.211	44.211											
D Only		73.686	73.686											
Lr Only														
L Only														
S Only														
W Only														
E Only														

## MAMBEACH BUILDING®DEPARTMENT Reviewed For Compliance

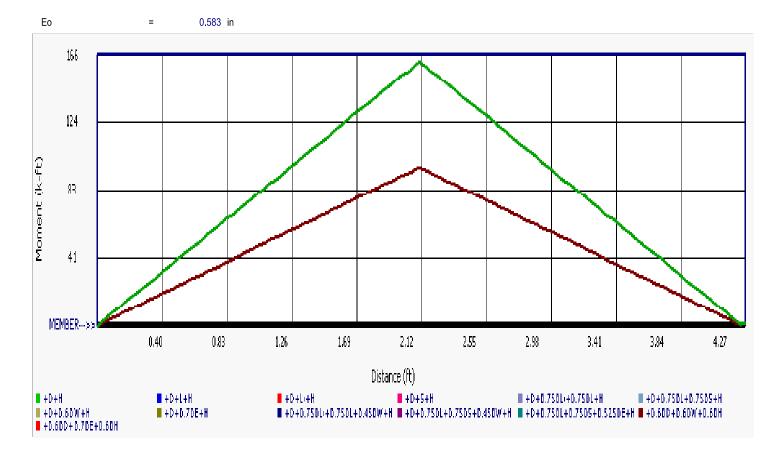
RV22478886

#### **Steel Beam**

File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6
File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6 ENERCALC, INC. 1983/038/2022.21, V& 6174371 PM
Licensee : RC GROUP, LLC

Lic. # : KW-06011462 Description : 220135- Channel Check - 2 channels one on each side-50% repair

Depth	=	15.000 in	xx	≣	404.00 in^4	J	=	2.650 in^4
Veb Thick	=	0.716 in	S xx		53.80 in^3	Cw	=	492.00 in^6
lange Width	=	3.720 in	R xx	=	5.240 in	Ro	=	5.490 in
lange Thick	=	0.650 in	Zx	=	68.500 in^3	Н	=	0.937 in
rea	=	14.700 in^2	Гуу	=	11.000 in^4			
Veight	=	50.000 plf	S yy	=	3.770 in^3	Wno	=	17.400 in^2
design	=	1.440 in	R yy	=	0.865 in	Sw	=	13.700 in^4
			Zy	=	8.140 in^3	Qf	=	14.000 in^3
s	=	1.170 in				Qw	=	34.100 in^3
cg	=	7.500 in				Wn2	=	6.750
cg	=	0.799 in				Sw2	=	11.600
p	=	0.490 in				Sw3	=	5,860



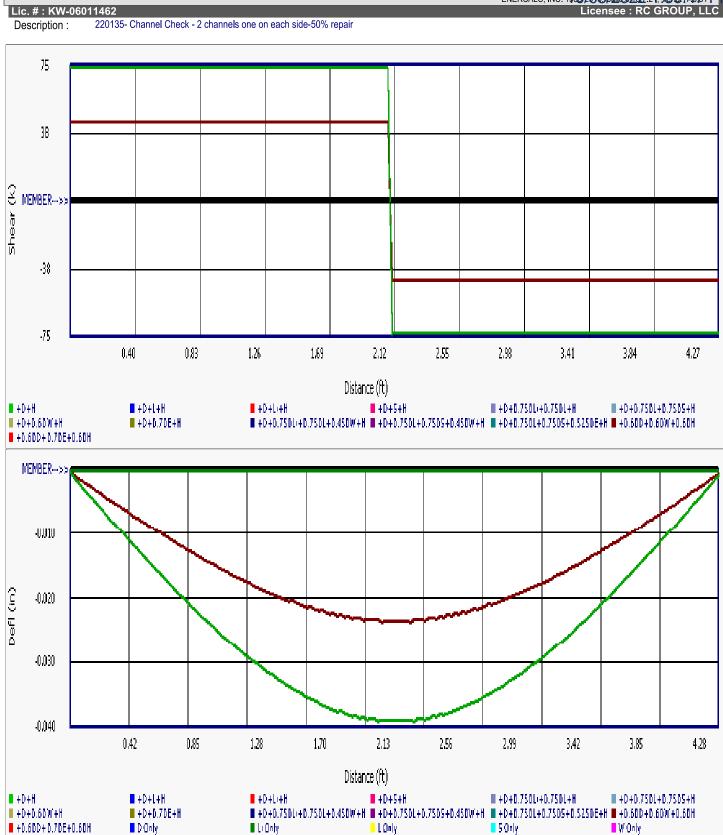
RC GROUP, LLC Structural & Shoring Consulting Engineers 7500 NW 25th Street, Suite 292 Miami, FL 33122

# BUILDING DEPARTMENT

**Reviewed For Compliance** 

RV22472886 File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6 ENERCALC, INC. 193203822.21, Value 1431 PM

**Steel Beam** 



HQ II Y

E Doly

#### **Steel Column**

Lic. # : KW-06011462 220135- HSS 4.5x4.5x5.16 Description :

#### **Code References**

Calculations per AISC 360-10, IBC 2012, CBC 2013, ASCE 7-10 Load Combinations Used : IBC 2015

#### **General Information**

Steel Section Name : Analysis Method : Steel Stress Grade Fy : Steel Yield E : Elastic Bending Modulus	HSS4-1/2x4-1/2x5/16 Allowable Strength 46.0 ksi 29,000.0 ksi	Overall Column Height 8.0 ft Top & Bottom Fixity Top & Bottom Pinned Brace condition for deflection (buckling) along columns : X-X (width) axis : Unbraced Length for X-X Axis buckling = 8 ft, K = 1.0 Y-Y (depth) axis : Unbraced Length for Y-Y Axis buckling = 10 ft, K = 1.0							
Applied Loads			;	Service loads entered. Loa	d Facto	ors will be	applied for	calculations.	
Column self weight incluc AXIAL LOADS Axial Load at 8.0 ft, D DESIGN SUMMARY	ed : 135.680 lbs * Dead Load Factor = 73.686 k								
Bending & Shear Che	ck Results								
PASS Max. Axial+Bendir		0.8007	: 1	Maximum SERVICE Load	Reactio	ns			
Load Combination		+D+H		Top along X-X			0.0 k		
Location of max above base		0.0	ft	Bottom along X-X			0.0 k		
At maximum location values are			Top along Y-Y				0.0 k		
Pa : Axial		73.822		Bottom along Y-Y			0.0 k		
	ga : Allowable	92.198		Maximum SERVICE Load	Doflocti	one			
Ma-x : Ap	plied	0.0	k-ft				0.00		
Mn-x / On	nega : Allowable	16.688	k-ft	Along Y-Y 0.0 in at		at	0.0#	above base	
Ma-y : Applied		0.0	k-ft	for load combination	:				
	nega : Allowable	16.688		Along X-X	0.0 in	at	0.0ft	above base	
	0			for load combination	:				
PASS Maximum Shea Load Combinatio		0.0	:1						
Location of max.		0.0	ft						
Va : App		0.0 0.0							
	•								

#### Load Combination Results

	Maximum Axial	Bending S	tress Ratios		Maxin	num Shear R	atios
Load Combination	Stress Ratio	Status	Location		Stress Ratio	Status	Location
+D+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+L+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+Lr+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+S+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+0.750Lr+0.750L+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+0.750L+0.750S+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+0.60W+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+0.70E+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+0.750Lr+0.750L+0.450W+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+0.750L+0.750S+0.450W+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+D+0.750L+0.750S+0.5250E+H	0.801	PASS	0.00 ft		0.000	PASS	0.00 ft
+0.60D+0.60W+0.60H	0.480	PASS	0.00 ft		0.000	PASS	0.00 ft
+0.60D+0.70E+0.60H	0.480	PASS	0.00 ft		0.000	PASS	0.00 ft
Maximum Reactions						Note: Only	non-zero reactions are listed
	X-X Axis Re	action		Y-Y Axi	s Reaction		Axial Reaction
Load Combination	@ Base	@ Тор		@ Base	@ Top		@ Base
+D+H		k			k		73.822 k



File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6 ENERCALC, INC. 193203822.21, Vero14281 PM

Project Title:

BUILDING DEPARTMENT **Reviewed For Compliance** 

RV22472886

Licensee : RC GROUP, LLC

IKE

#### **Steel Column**

#### Lic. # : KW-06011462

Description : 220135- HSS 4.5x4.5x5.16

# Project Title: Engineer: Project Descr:

### К BUILDING DEPARTMENT **Reviewed For Compliance**

RV22472886 File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6 ENERCALC, INC. 193203622.21, V2614331 P M Licensee : RC GROUP, LLC

	X-X Axis	Reaction	Y-Y Axis	Reaction	Axial Reaction
Load Combination	@ Base	@ Top	@ Base	@ Top	@ Base
+D+L+H		k		k	73.822 k
+D+Lr+H		k		k	73.822 k
+D+S+H		k		k	73.822 k
+D+0.750Lr+0.750L+H		k		k	73.822 k
+D+0.750L+0.750S+H		k		k	73.822 k
+D+0.60W+H		k		k	73.822 k
+D+0.70E+H		k		k	73.822 k
+D+0.750Lr+0.750L+0.450W+H		k		k	73.822 k
+D+0.750L+0.750S+0.450W+H		k		k	73.822 k
+D+0.750L+0.750S+0.5250E+H		k		k	73.822 k
+0.60D+0.60W+0.60H		k		k	44.293 k
+0.60D+0.70E+0.60H		k		k	44.293 k
D Only		k		k	73.822 k
Lr Only		k		k	k
L Only		k		k	k
S Only		k		k	k
W Only		k		k	k
E Only		k		k	k
H Only		k		k	k

#### **Maximum Deflections for Load Combinations**

Load Combination	Max. X-X Defle	ection	Distance		Max. Y-Y Deflection	Distanc	ce
+D+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+L+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+Lr+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+S+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+0.750Lr+0.750L+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+0.750L+0.750S+H	0.0000	in	0.000	ft	0 <u>.</u> 000 in	0.000	ft
+D+0.60W+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+0.70E+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+0.750Lr+0.750L+0.450W+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+0.750L+0.750S+0.450W+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+D+0.750L+0.750S+0.5250E+H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+0.60D+0.60W+0.60H	0.0000	in	0.000	ft	0.000 in	0.000	ft
+0.60D+0.70E+0.60H	0.0000	in	0.000	ft	0.000 in	0.000	ft
D Only	0.0000	in	0.000	ft	0.000 in	0.000	ft
Lr Only	0.0000	in	0.000	ft	0.000 in	0.000	ft
L Only	0.0000	in	0.000	ft	0.000 in	0.000	ft
S Only	0.0000	in	0.000	ft	0.000 in	0.000	ft
W Only	0.0000	in	0.000	ft	0.000 in	0.000	ft
E Only	0.0000	in	0.000	ft	0.000 in	0.000	ft
H Only	0.0000	in	0.000	ft	0.000 in	0.000	ft

RC GROUP, LLC Structural & Shoring Consulting Engineers 7500 NW 25th Street, Suite 292 Miami, FL 33122

# MIAMIBEACH BUILDING DEPARTMENT

**Reviewed For Compliance** 

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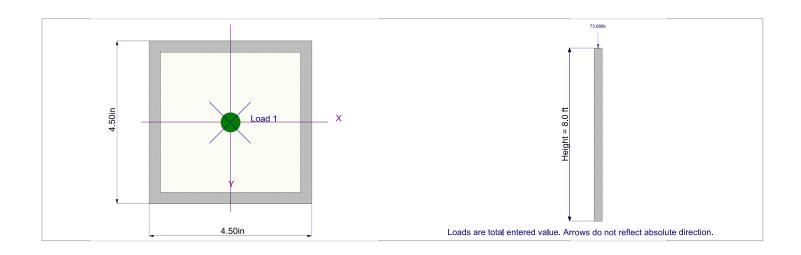
#### **Steel Column**

Lic. # : KW-06011462 Description : 220135- HSS 4.5x4.5x5.16

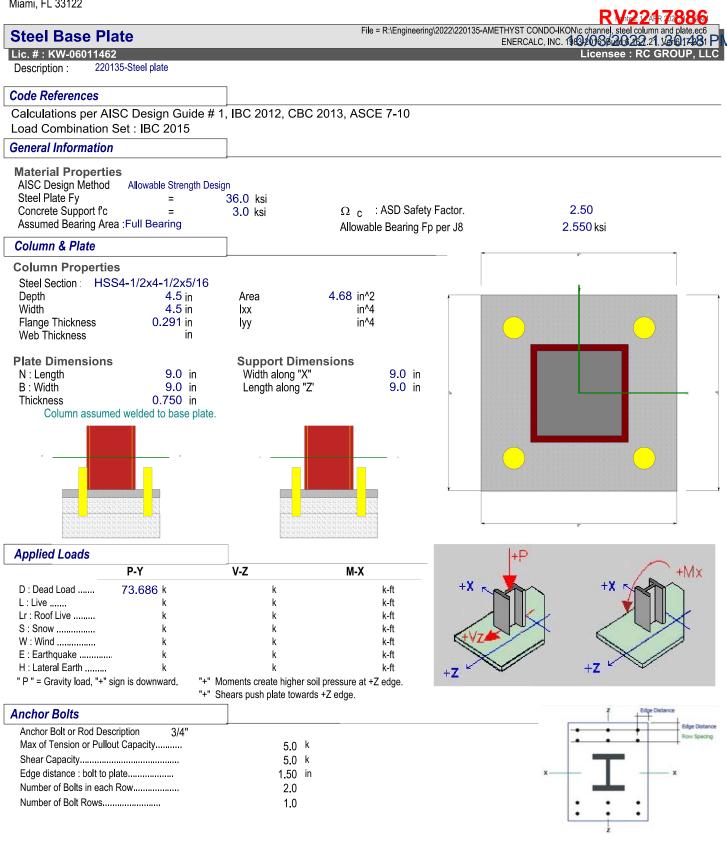
RV2247886
File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6
ENERCALC, INC. 1983/066/262.21, V& 61/2831 P
Licensee : RC GROUP, LLC

<b>Steel Section</b>	Properties :	HSS4-1/	2x4-1/2x5/16	6				
Depth	=	4.500 in	xx	=	13.50 in^4	J	=	22.300 in^4
			S xx	=	6.00 in^3			
Width	=	4.500 in	R xx	=	1.700 in			
Wall Thick	=	0.313 in	Zx	=	7.270 in^3			
Area	=	4.680 in^2	Гуу	=	13.500 in^4	С	=	10.200 in^3
Weight	=	16.960 plf	S уу	=	6.000 in^3			
			R yy	=	1.700 in			

Ycg = 0.000 in



### MIAMIBEACH BUILDING DEPARTMENT Reviewed For Compliance



Χ..... Lambda .....

n' ..... n' \* Lambda .....

L = max(m, n, n") .....

Lic. # : KW-06011462 220135-Steel plate Description :

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# BUILDING DEPARTMENT **Reviewed For Compliance**

RV2247886
2022/220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6 ENERCALC, INC. 1943/20686/2022.21, Var614/281 PM
Licensee : RC GROUP, LLC

#### **GOVERNING DESIGN LOAD CASE SUMMARY** Mu : Max. Moment ..... 2.539 k-in 18.053 ksi fb : Max. Bending Stress ..... Plate Design Summary Fb : Allowable : 21,557 ksi Design Method Allowable Strength Design Fy / Omega Governing Load Combination +D+H Bending Stress Ratio 0.837 Governing Load Case Type Axial Load Only **Bending Stress OK** Design Plate Size 9" x 9" x 0 -3/4" Pa : Axial Load .... 73.686 k fu : Max. Plate Bearing Stress .... 0,910 ksi Ma : Moment ...... 0.000 k-ft Fp : Allowable : 1.020 ksi min( 0.85\*f'c\*sqrt(A2/A1), 1.7\* f'c)\*Omega Bearing Stress Ratio 0,892 **Bearing Stress OK** Load Comb. : +D+H Axial Load Only, No Moment Loading Bearing Stresses 73.686 k Fp : Allowable 1.020 ksi Pa : Axial Load .... 9.000 in Design Plate Height ...... fa : Max. Bearing Pressure 0.910 ksi Design Plate Width ..... 9.000 in Stress Ratio ..... 0.892 Will be different from entry if partial bearing used. Plate Bending Stresses A1 : Plate Area ..... 81.000 in^2 Mmax = Fu \* L^2 / 2 ..... 2.539 k-in fb : Actual ..... A2: Support Area ..... 81.000 in^2 18.053 ksi Fb : Allowable ..... 21,557 ksi sqrt( A2/A1 ) 1.000 Stress Ratio ..... 0.837 **Distance for Moment Calculation** 2.363 in " m " ..... "n"..... 2.363 in 0.000 in^2 Χ..... 0.000 Lambda ..... 0.000 in n' ..... n' \* Lambda ..... 0.000 in L = max(m, n, n") ..... 2.363 in Load Comb. : +D+L+H Axial Load Only, No Moment **Bearing Stresses** Loading 73.686 k Fp : Allowable 1.020 ksi Pa : Axial Load .... 9.000 in Design Plate Height ..... fa : Max. Bearing Pressure 0.910 ksi Design Plate Width ..... 9.000 in Stress Ratio ..... 0.892 Will be different from entry if partial bearing used. Plate Bending Stresses A1 : Plate Area ..... 81.000 in^2 2.539 k-in Mmax = Fu \* L^2 / 2 ..... fb : Actual ..... A2: Support Area ..... 81.000 in^2 18.053 ksi 21,557 ksi Fb : Allowable ..... sqrt( A2/A1 ) 1,000 Stress Ratio ..... 0.837 **Distance for Moment Calculation** "m"..... "n"..... 2.363 in

2.363 in 0.000 in^2

0.000 in

2.363 in

0.000 0.000 in

Lic. # : KW-06011462 220135-Steel plate Description :

#### Load Comb. : +D+Lr+H

Load Comb. : +D+S+H

Design Plate Height .....

Design Plate Width .....

A2: Support Area .....

**Distance for Moment Calculation** 

A1 : Plate Area .....

sqrt( A2/A1 )

"m"..... "n".....

Χ.....

Lambda .....

n' ..... n' \* Lambda .....

L = max(m, n, n") .....

Load Comb. : +D+0.750Lr+0.750L+H

Will be different from entry if partial bearing used.

Pa : Axial Load ....

Loading

Loading Pa : Axial Load Design Plate Height Design Plate Width Will be different from entry if partial bearing used.	73.686 k 9.000 in 9.000 in
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 in^2
sqrt( A2/A1 )	1.000
Distance for Moment Calculation	
" m "	2.363 in
" n "	2.363 in
Х	0.000 in^2
Lambda	0.000
n'	0.000 in
n' * Lambda	0.000 in
L = max(m, n, n")	2.363 in

73.686 k

9.000 in

9.000 in

81.000 in^2

81.000 in^2

2.363 in 2.363 in

0.000 in^2

0.000 0.000 in

0.000 in 2.363 in

1.000

#### Project Title: Engineer: Project Descr:

# BUILDING DEPARTMENT **Reviewed For Compliance**

### RV22478886 File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6 ENERCALC, INC. 193203622.21, Vero1431PM

#### Licensee : RC GROUP, LLC Axial Load Only, No Moment **Bearing Stresses** Fp : Allowable ..... 1.020 ksi fa : Max. Bearing Pressure 0.910 ksi

Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

#### Axial Load Only, No Moment

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.910 ksi
Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

#### Axial Load Only, No Moment

Loading Pa : Axial Load Design Plate Height Design Plate Width Will be different from entry if partial bearing used.	73.686 k 9.000 in 9.000 in
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 in^2
sqrt( A2/A1 )	1.000
Distance for Moment Calculation	
" m "	2.363 in
" n "	2.363 in
Χ	0.000 in^2
Lambda	0.000
n'	0.000 in
n' * Lambda	0.000 in
L = max(m, n, n")	2.363 in

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.910 ksi
Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

Lic. # : KW-06011462 Description : 220135-Steel plate

Load Comb. : +D+0.60W+H

Will be different from entry if partial bearing used.

Loading

Pa : Axial Load ....

Design Plate Height .....

Design Plate Width .....

A2: Support Area .....

**Distance for Moment Calculation** 

A1 : Plate Area .....

sqrt( A2/A1 )

"m"..... "n".....

Χ.....

Lambda .....

n' .....n' \* Lambda .....

L = max(m, n, n") ..... Load Comb. : +D+0.70E+H

#### Load Comb. : +D+0.750L+0.750S+H

Loading Pa : Axial Load Design Plate Height Design Plate Width Will be different from entry if partial bearing used.	73.686 k 9.000 in 9.000 in
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 in^2
sqrt( A2/A1 )	1.000
Distance for Moment Calculation           " m "           " n "	2.363 in 2.363 in 0.000 in^2 0.000 0.000 in 0.000 in 2.363 in

73.686 k

9.000 in

9.000 in

81.000 in^2

81.000 in^2

2.363 in 2.363 in

0.000 in^2

0.000 0.000 in

0.000 in 2.363 in

1.000

#### Project Title: Engineer: Project Descr:

### MIAMIBEACH BUILDING DEPARTMENT Reviewed For Compliance

#### R Vi2 24 78886 File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6 ENERCALC, INC. 19320672022.21, Ve01491 PM

# Licensee : RC GROUP, LLC Axial Load Only, No Moment Bearing Stresses

Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.910 ksi
Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

#### Axial Load Only, No Moment

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.910 ksi
Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

#### Axial Load Only, No Moment

Loading Pa : Axial Load Design Plate Height Design Plate Width Will be different from entry if partial bearing used.	73.686 k 9.000 in 9.000 in
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 in^2
sqrt( A2/A1 )	1.000
Distance for Moment Calculation	
" m "	2.363 in
" n "	2.363 in
Χ	0.000 in^2
Lambda	0.000
n'	0.000 in
n' * Lambda	0.000 in
L = max(m, n, n")	2.363 in

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.910 ksi
Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

Lic. # : KW-06011462 Description : 220135-Steel plate

#### Load Comb. : +D+0.750Lr+0.750L+0.450W+H

Loading	
Pa : Axial Load	73.686 k
Design Plate Height	9.000 in
Design Plate Width	9.000 in
Will be different from entry if partial bearing used.	
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 in^2
sqrt( A2/A1 )	1.000
Distance for Moment Calculation	
" m "	2.363 in
" n "	2,363 in
Х	0.000 in^2
Lambda	0.000
n'	0.000 in
n' * Lambda	0.000 in
L = max(m, n, n")	2.363 in

#### Load Comb. : +D+0.750L+0.750S+0.450W+H

Loading	
Pa : Axial Load	73.686 k
Design Plate Height	9.000 <sub>in</sub>
Design Plate Width	9.000 in
Will be different from entry if partial bearing used.	
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 <sub>in^2</sub>
sqrt( A2/A1 )	1.000
Distance for Moment Calculation	
" m "	2.363 in
" n "	2.363 in
Х	0.000 in^2
Lambda	0.000
n'	0.000 in
n' * Lambda	0.000 in
L = max(m, n, n")	2.363 in

#### Engineer: Project Descr:

Project Title:

### MIAMIBEACH BUILDING DEPARTMENT Reviewed For Compliance

RV2247886
File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6
ENERCALC, INC. 1983/086/2022.21, V& 617491 PV
Licensee : RC GROUP, LLC

#### Axial Load Only, No Moment

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.910 ksi
Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

#### Axial Load Only, No Moment

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.910 ksi
Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

#### Axial Load Only, No Moment

Loading Pa : Axial Load Design Plate Height Design Plate Width Will be different from entry if partial bearing used.	73.686 k 9.000 in 9.000 in
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 in^2
sqrt( A2/A1 )	1.000
Distance for Moment Calculation	
" m "	2.363 in
" n "	2.363 in
Χ	0.000 in^2
Lambda	0.000
n'	0.000 in
n' * Lambda	0.000 in
L = max(m, n, n")	2.363 in

Load Comb. : +D+0.750L+0.750S+0.5250E+H

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.910 ksi
Stress Ratio	0.892
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	2.539 k-in
fb : Actual	18.053 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.837

#### Lic. # : KW-06011462

Description : 220135-Steel plate

#### Load Comb. : +0.60D+0.60W+0.60H

Loading Pa : Axial Load Design Plate Height Design Plate Width Will be different from entry if partial bearing used.	44.212 k 9.000 in 9.000 in
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 in^2
sqrt( A2/A1 )	1.000
Distance for Moment Calculation	
" m "	2.363 in
" n "	2.363 in
Χ	0.000 in^2
Lambda	0.000
n'	1.450 in
n' * Lambda	0.000 in
L = max(m, n, n")	2.363 in

#### Project Title: Engineer: Project Descr:

#### MAMBEACH BUILDING BUI

#### R V:224:77886 File = R:\Engineering\2022\220135-AMETHYST CONDO-IKON\c channel, steel column and plate.ec6 ENERCALC, INC. 14020662022.21, VG01491 PM

Licensee : RC GROUP, LLC

#### Axial Load Only, No Moment

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.546 ksi
Stress Ratio	0.535
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	1.523 k-in
fb : Actual	10.832 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.502

#### L = max(m, n, n") ..... Load Comb. : +0.60D+0.70E+0.60H

Loading Pa : Axial Load Design Plate Height Design Plate Width Will be different from entry if partial bearing used.	44.212 k 9.000 in 9.000 in
A1 : Plate Area	81.000 in^2
A2: Support Area	81.000 in^2
sqrt( A2/A1 )	1.000
Distance for Moment Calculation	
" m "	2.363 in
" n "	2.363 in
Х	0.000 in^2
Lambda	0.000
n'	1.450 in
n' * Lambda	0.000 in
L = max(m, n, n")	2.363 in

#### Axial Load Only, No Moment

Bearing Stresses	
Fp : Allowable	1.020 ksi
fa : Max. Bearing Pressure	0.546 ksi
Stress Ratio	0.535
Plate Bending Stresses	
Mmax = Fu * L^2 / 2	1.523 k-in
fb : Actual	10.832 ksi
Fb : Allowable	21.557 ksi
Stress Ratio	0.502

DESIGN CONSIDERATIONS FOR DEPARTMENT

**Reviewed For Compliance** 

and the				igu	101	DU	lts,	NIP	5		2	later.
	minal Bolt	Niamete	r d in	() = 4 () = 4	5/	8	3	4	7	8		la i
	Nominal B			1.1	0.307		0.442		0.601	0.785		
ASTM	Thread	$F_{nv}/\Omega$ (ksi)	¢ <i>F<sub>nv</sub></i> (ksi)	Load-	r <sub>n</sub> /Ω	φ <b>r</b> n	r <sub>n</sub> /Ω	φ <i>Γ</i> η	.r <sub>n</sub> /Ω	φ <b>r</b> <sub>n</sub>	τη/Ω	¢r <sub>n</sub>
Desig.	Cond.	ASD	LRFD	ing	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD
Group	N	27.0	40.5	S D	8.29 16.6	12.4 .24.9	11.9 23.9	17.9	16.2 32.5	24.3 48.7	21.2	31.8 63.6
A	X	34.0	51.0	S D	10.4 20.9	15.7 31.3	15.0 30.1	22.5 45.1	20.4	30.7 61.3	26.7 53.4	40.0 80.1
Group	N	34.0	51.0	S D	10.4 20.9	15.7 31.3	15.0 30.1	22.5 45.1	20.4 40.9	30.7 61.3	26.7 53.4	40.0 80.1
B	x	42.0	63.0	S D	12.9 25.8	19.3 38.7	18.6 37.1	27.8	25.2	37.9 75.7	33.0	49.5 98.9
A307	. <u>. 94</u> 1.	13.5	20.3	S D	4:14 a .8.29		11.9	8.97 17.9	8.11	12.2	10.6	15.9 31.9
No	minal Bolt	Diamete	er, d, in.	0) (H.		1/8		147000		18 1	6.1	1/2
Nominal Bolt Area, in. <sup>2</sup>			0.994 1.23		1.48		1.77					
ASTM	Thread	F <sub>nv</sub> /Ω (ksi)	¢F <sub>nv</sub> (ksi)	Load-	r <sub>n</sub> /Ω	φ <b>r</b> n	r <sub>n</sub> /Ω	φ <b>r</b> n	r <sub>n</sub> /Ω	¢r <sub>n</sub>	r <sub>n</sub> /Ω	φ <i>ĩ</i> n
Desig. Cond.	Cond.	ASD	LRED	ing	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD
Group	N	27.0	40.5	S D	26.8 53.7	40.3 80.5	33.2 66.4	49.8 99.6	40.0 79.9	59.9 120	47.8 95.6	71.7 143
A	X	34.0	51.0	S D	33.8 67.6	50.7 101	41.8 83.6	62.7 125	50.3 101	75.5 151	60.2 120	90.3 181
Group	N	34.0	51.0	S D	33.8 67.6	50.7 101	41.8 83.6	62.7 125	50.3 101	75.5 151	60.2 120	90.3 181
B	х	42.0	63.0	S D	41.7 83.5	62.6 125	51.7 103	77.5	62.2 124	93.2 186	74.3 149	112 223 35.9
A307.	-	13.5	20.3	S D	13.4	20.2	16.6	25.0	20.0	30.0 60.1	23.9 47.8	30.9
ASD	LRFD	For end	loaded co	onnections	26.8 greater t	40.4 han 38 in	33.2 , see AIS	49.9 C Specific	40.0	e J3.2 foc		
												1 1

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

Scanned by CamScanner

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IAMIBEAG 

**RC GROUP, LLC** 7500 NW 25<sup>th</sup> ST, Suite 292, MIAMI, FLORIDA 33122 PHONE: 305.477.8860 FAX: 305.463.6761

BUILDING DEPARTMENT **Reviewed For Compliance** 

RV2217886

10/03/2022 1:30:49 PM

	CITY COMMENTS	RESPONSE
	Amethyst Condominium 5310 Collins Ave.	
PROJECT:	Miami, Florida 33140	Date: 06-07-2022
RC Job No. :	220135	Pages: Cover +1
PROCESS No.: <u>NOTE:</u> The fol	attached comments by	
ITEM	RESPONSE to C Comments 06-07	ity Structural Reviewer
1 thru 4	Acknowledged.	-2022
5	Please see revised SH-1 not	te.
6	Please see revised calculation	ons page 2.
	DN: c=US, o=RC GROUP	
	OCD65, cn=Eduardo J	STATE OF ALLE
	'15:03:41 -04'00	
Note:	Please call us at 305	-477-8860 if you have any question.
		This item has been electronically signed & sealed by Eduardo J. Canto, P.E., S.I. Dated: 06/07/2022, using a Digital Signature. Printed copies of this document are not considered signed & sealed and the signature must be verified on any electronic copies.
		O.L#: 600338-8 Eduard



E.B.#: 26946

RC GROUP, LLC	Reviewed For Complia
7500 NW 25 <sup>th</sup> ST, Suite 292, MIAMI, FLORIDA 33122 PHONE: 305.477.8860 FAX: 305.463.6761	RV2217886 10/03/2022 1:30:49 PN
CITY STRUCTURAL REVIEWER COMME	NTS:
the documents. Alternatively, provide independent signed and sealed letter from E.O.I 5. Replace W by C on steel note #1. See screenshot below,	R. with list of reviewed documents.
1. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. W SHAPES HEAVER THAN 20 PLF SHALL BE ASTM A992, SUBMIT SHOP DRAWINGS SIGNED & SEALED BY A FLORIDA REGISTERED ENGINEER FOR APPROVAL ALL CONNECTIONS DETAILS TO BE SHOWN ON SHOP DRAWINGS	
<ol> <li>Replace <u>shearwall</u> by <u>column</u> on calculations. See screenshot below,</li> </ol>	
CHECK THRU BOLTS CONCRETE BEARING	
Data $f_c \simeq 5000 psi$ (V.LF.)	
$R_{Column} \simeq \frac{294.29k}{6} = 49.048 k$ See previous calculations.	
HY 200 Epoxy thickness $\text{Epoxy}_{f} \approx \frac{1}{16} \text{ minimum}$ $\text{Bolt}_{Dia} \approx 1\text{m} + \frac{1}{3}\text{m}$	
Loaded surface dimensions: $B = (Bolt_{Dis} + Eposy_t)$ +	
N <sub>in</sub> = 12in Column width (V.I.F.)	
Check Bearing:	
Allowable Concrete Bearing on Shearwall Fe = 0.70 fe Fe = 3500 psi	
Actual Concrete Bearing on Shearwall: $f_c = \frac{R_{Column}}{B \cdot N}$ $f_c = 3441.983 \text{ psi}$	
files (Items 1 thru 4) containing valid digital signatures shall be uploaded on the CSS system	n.
pectfully,	

Chief Structural Engineer BUILDING DEPARTMENT 1700 Convention Center Drive, Miami Beach, FL 33139 Tel: 305-673-7610 Ext. 26735 / Fax: 786-394-5497 / www.miamibeachfl.gov

We are committed to providing excellent public service and safety to all who live, work and play in our vibrant, tropical, historic community.

O.L#: 600338-8 E.B.#: 26946

# MIAMIBEACH

BUILDING BEPARTMEN
1700 Convention Center Drive, 2nd FL Reviewed For Compliance Miami Beach, Florida 33139
Telephone, 305-673-7610

http://www.miamibeachh.dovferk-Hall/QRAR/ 10/03/2022 1:30:50 PM

# NOTICE TO THE CITY OF MIAMI BEACH BUILDING DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR UNDER THE FLORIDA BUILDING CODE (6<sup>th</sup> Edition, 2017)

I have been retained by: ICON ENGINEERS to perform special inspector services

at the <u>Amethyst Condominium,5313 Collins Av, Miami Beach, FL</u> project on the below listed structures as of <u>06/08/2022</u> (date). I am a registered architect or a professional engineer licensed in the State of Florida.

Process Number: _	Master Permit (IF APPLICABLE):

0	Special Inspector for Pilings, <u>CMDC Sect. 8-22</u>
0	Special Inspector for Lightweight Insulating Concrete, CMDC Sect. 8-22
0	Special Inspector for Soil Compaction, CMDC Sect. 8-22
0	Special Inspector for Precast Units and Attachments, CMDC Sect. 8-22
0	Special Inspector for Reinforced Masonry, FBC 2122.2.4 & CMDC Sect. 8-22
0	Special inspector for Steel Bolted & Welded Connections, CMDC Sect. 8-22
0	Special Inspector for Trusses over 35 feet long or 6 feet high, CMDC Sect. 8-22
0	Special Inspector for Curtain Wall, CMDC Sect. 8-22
0	Special Inspector for Structural Glazing, CMDC Sect. 8-22
0	Special Inspector for Composite Floor System, CMDCC Sect. 8-22
Ø	Special Inspector for :SHORING AND RE-SHORING

The following individuals employed by this firm or me are authorized representatives to perform inspections

1.	Eduardo J. Canto, P.E.	2.	Rafael A. Oreamuno
3.	Jacqueline Padron	4.	

\* Special inspectors utilizing authorized representatives shall insure the authorized representative is qualified by education or licensure to perform the duties assigned by the Special Inspector. The qualifications shall include: licensure as a professional engineer or architect; graduation from an engineering education program in civil or structural engineering; graduation from an architectural education program; successful completion of the NCEES Fundamentals Examination; or registration as a building inspector or general contractor.

I will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I understand that all mandatory inspections, as required by the Florida Building Code, shall be requested by the permit holder and approved by the Building Department Inspectors. Inspections performed by the Special inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. A Special Inspection Log for each building must be displayed in a convenient location on the site for inspection by the Building Department Inspectors. Further, upon completion of the work under each building permit, I will submit to the Building Department at the time of final inspection the completed Inspection Log form and sealed statement that, to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans.

Architect/Engineer's Printed Name and Signature:	Eduardo J. Canto	P.E.	. RC GROUP	. LLC

#### Address, Telephone, and E-mail: 7500 NW 25 ST, Suite 292, Miami, FL 33122

License Number: 56845		This item has been electronically signed & sealed by Eduardo J. Canto, P.E., S.I. Dated:
Digitally signed by Eduardo J Canto DDK C=U5, 0=KC GK00/LLC dnQualifier=A01410C000017DC3DA8F5000CCD56, DEGuardo J Canto Date: 2022.06.08 1404:00 0400	06/08/2022	06/08/2022, using a Digital Signature. Printed copies of this document are not considered signed & sealed and the signature must be verified on any electronic copies.
Signed and Sealed:	Date:	

Accepted at the	Building	Department	by:

Date:



**RV2217886** 10/03/2022 1:30:50 PM



May 27, 2022

**City of Miami Beach Building Department** 1700 Convention Center Dr. Miami Beach, FL 33139

Ref: Garage Columns Shoring Shopdrawing Review Amethyst Condominium 5313 Collins Ave Miami Beach, FL 33140

### **STATEMENT LETTER**

Building Department Official:

This letter is to confirmed that I, Fernando Azcue, P.E, the Engineer of Record of the above mentioned project, have reviewed and approved the Garage Columns Shoring Shopdrawing. The shopdrawing was signed and sealed by Eduardo Jose Canto, P.E. Lic. No: 56845 on April 5<sup>th</sup>, 2022. The following are the names of the shopdrawing sheets:

- S-0 General Notes
- SH-1 Floor plan notes and details
- SH-2 Floor plan notes and details

As mentioned on the shoring calculations, the repair of the column must be repaired in phases affecting no more than 50% of the column. However, I instructed the GC that the column must be repaired one corner at a time as mentioned on the approved drawings (typical column repairs), no more than 25% of the column section. I will be at the side during loose concrete removal to ensure that we do not exceed the 25%.

Should you have any questions or need any additional information, please do not hesitate to contact me.

Sincerely,

Digitally signed by Fernand Fernando Azcue Ener DN: c=US, o=ASD 65521 No Consulting Engineers INC O Azcue 00=A01410C00000175530 cn=Fernando Azcue Eneriz Eneriz Date: 2022.05.31 10:13:40 SIONAL 1111111 -04'00

Fernando Azcue, P.E. Lic. No. 65521 Special Inspector No: 7023770