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(Issued January 27, 2020 Subject to Renew February 1, 2021)
(or next code cycle change)

EVALUATION SUBJECT: REGENT SPLIT SYSTEMS

TER-19-8163.3

Florida Building Code Sixth Edition (2017)

REPORT HOLDER:

NORTEK GLOBAL HVAC
 8000 PHOENIX PARKWAY
 O'FALLON, MO 63368 USA
 (800) 422-4328 | NORTEK.COM



SCOPE OF EVALUATION (compliance with the following codes):

THIS IS A STRUCTURAL (WIND) PERFORMANCE EVALUATION ONLY. NO ELECTRICAL OR OTHER PERFORMANCE RATINGS OR CERTIFICATIONS ARE OFFERED OR IMPLIED HEREIN.

This Product Evaluation Report is being issued in accordance with the requirements of the **Florida Building Code Sixth Edition (2017)** per FBC Section 104.11.1, FMC 301.15, FBC Building Ch. 16, ASCE-7-10, FBC Existing Building sections 707.1, 707.2, FBC Building 1522.2, and FBC Residential M1202.1, M1301.1, FS 471.025, including Broward County Administrative Provisions 107.3.4. The product noted on this report has been tested and/or evaluated as summarized herein.

IN ACCORDANCE WITH THESE CODES EACH OF THESE REPORTS MUST BEAR THE ORIGINAL SIGNATURE & RAISED SEAL OF THE EVALUATING ENGINEER.

SUBSTANTIATING DATA:

Product Evaluation Documents

Substantiating documentation has been submitted to provide this TER and is summarized in the sections below.

Structural Engineering Calculations

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

- Maximum allowable unit panel wind pressure connection integrity
- Maximum allowable uplift, sliding, & overturning moment for ground and roof applications

Calculation summary is included in this TER and appears below.

NOTE: No 33% increase in allowable stress has been used in the design of this product.

INSTALLATION:

The product(s) listed above shall be installed in strict compliance with this TER & manufacturer-provided model specifications.

The product components shall be of the material specified in the manufacturer-provided product specifications. All screws must be installed in accordance with the applicable provisions & anchor manufacturer's published installation instructions.

LIMITATIONS & CONDITIONS OF USE:

Use of this product shall be in strict accordance with this TER as noted herein. See final page for complete limitations and conditions of use.

INSTALLATION:

The product(s) listed above shall be installed in strict compliance with this TER & manufacturer-provided model specifications.

The product components shall be of the material specified in the manufacturer-provided product specifications. All screws must be installed in accordance with the applicable provisions & anchor manufacturer's published installation instructions.

FINISH:

Baked enamel, casing color gray.

NOTE: THE GRAPHICAL DEPICTIONS IN THIS REPORT ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER IN APPEARANCE.

UNIT MATERIAL:

20 GA galvanized sheet steel equivalent to ASTM A653 EDDS cold rolled steel for removable top panel. 30% Talc reinforced polypropylene for base pan. Grating for side protection, secured with #12-14 C1016-C1024 at base pan and #10-16 C1016-C1024 sheet metal screws into top.

OPTIONS:

This evaluation is valid for all Regent models that appear in the table located on the final pages of this report.

STRUCTURAL PERFORMANCE:

Models referenced herein are subject to the following design limitations:

ASCE 7-10 Exposure Category C

Up to and including 175mph (Vult) for ground and roof (see Page 2).

MRH**. HVHZ***

Up to 200mph (Vult) for ground only, Exposure Category D Non-HVHZ***

Ground or Roof Application per installation instructions

Mean Roof Height *High Velocity Hurricane Zone

Maximum Rated Wind Pressure:

118psf Lateral 93psf Uplift (ASD)

Site specific wind analysis may produce alternate limitations provided maximum rated wind pressure is not exceeded.

VISIT ECALC.IO/198163

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ADDITIONAL PLANS, REPORTS & RESOURCES



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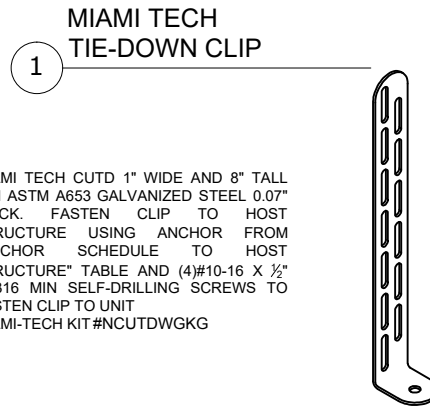
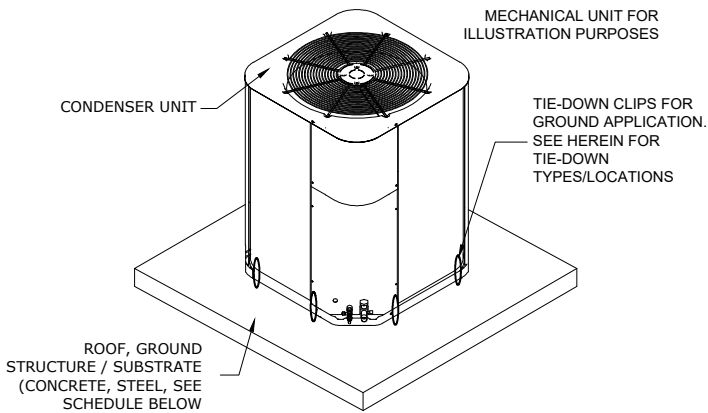
February 10, 2020

Frank Bennardo, P.E., SECB
 Engineering Express®
 FL PE #0046549 FLCA #9885

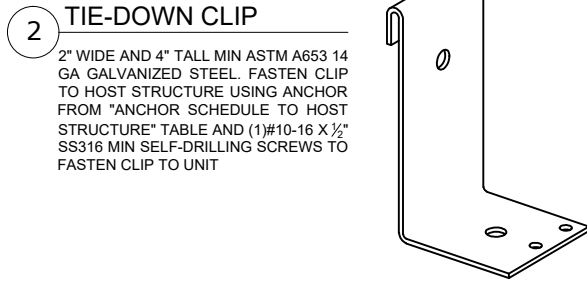
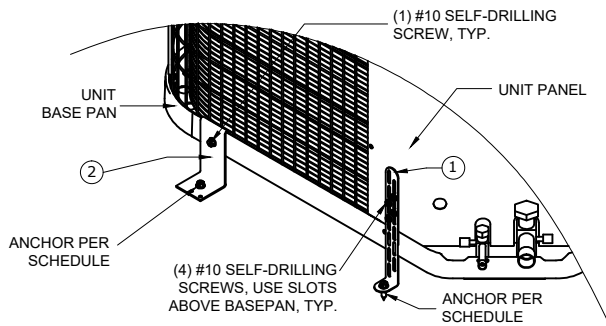
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SECTION 2 PRODUCT INSTALLATION

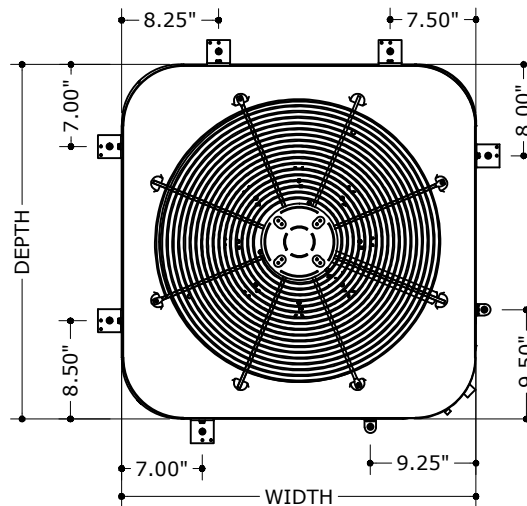


TIE-DOWN CLIPS AT GRADE, CABINETS A & B



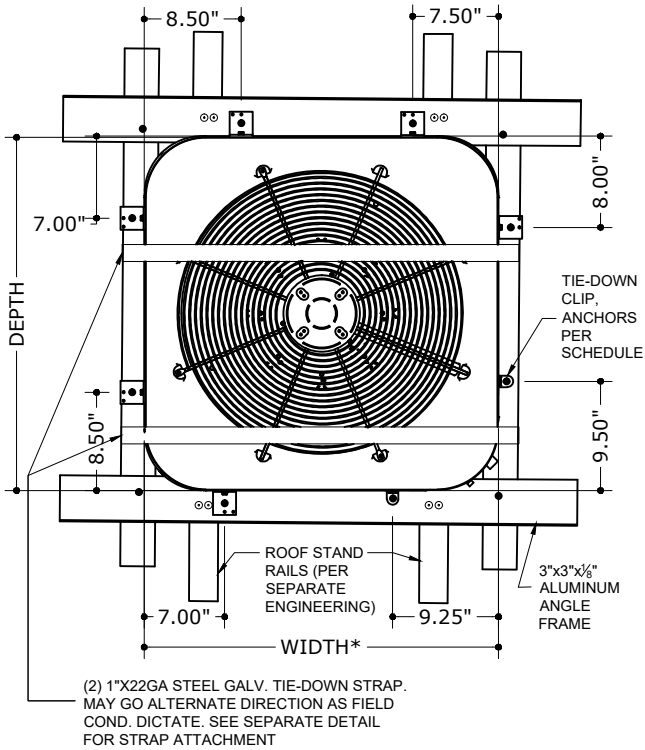
NOTE: ABOVE AND RIGHT DETAILS ARE VALID FOR BOTH CORNER POST / HAIL GUARD AND WIRE GUARD / HAIL GUARD CABINET SHELLS.

ANCHOR LAYOUT AT GRADE, CABINETS A & B



IN ALL CONDITIONS IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER TO ENSURE THE HOST STRUCTURE IS CAPABLE OF WITHSTANDING THE RATED GRAVITY, LATERAL, AND UPLIFT FORCES BY SITE-SPECIFIC DESIGN. NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS OFFERED BY ENGINEERING EXPRESS AS TO THE INTEGRITY OF THE HOST STRUCTURE TO CARRY DESIGN FORCE LOADS INCURRED BY THIS UNIT.

ANCHOR LAYOUT AT ROOF, CABINETS A & B

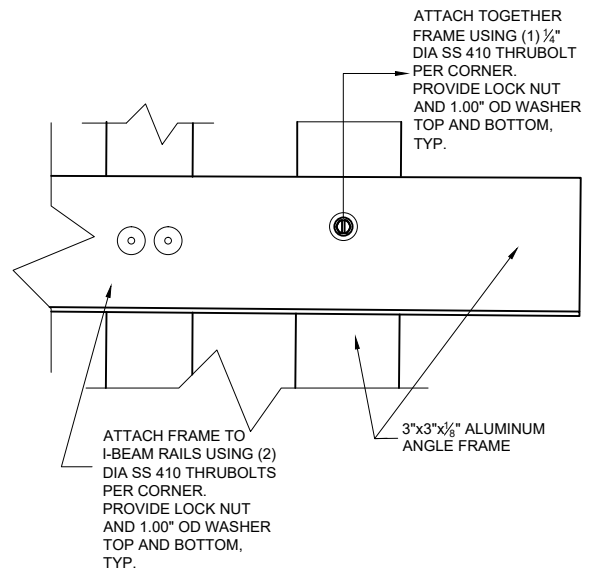


*NOTE: FOR CONDITIONS WITH STAND DEPTH GREATER THAN UNIT DEPTH, MIAMI-TECH SUPPORT ANGLES (PART #AS14CABBXX) PER NOA#17-1218.02 SHALL BE PROVIDED OR SITE-SPECIFIC ENGINEERING IS REQUIRED.

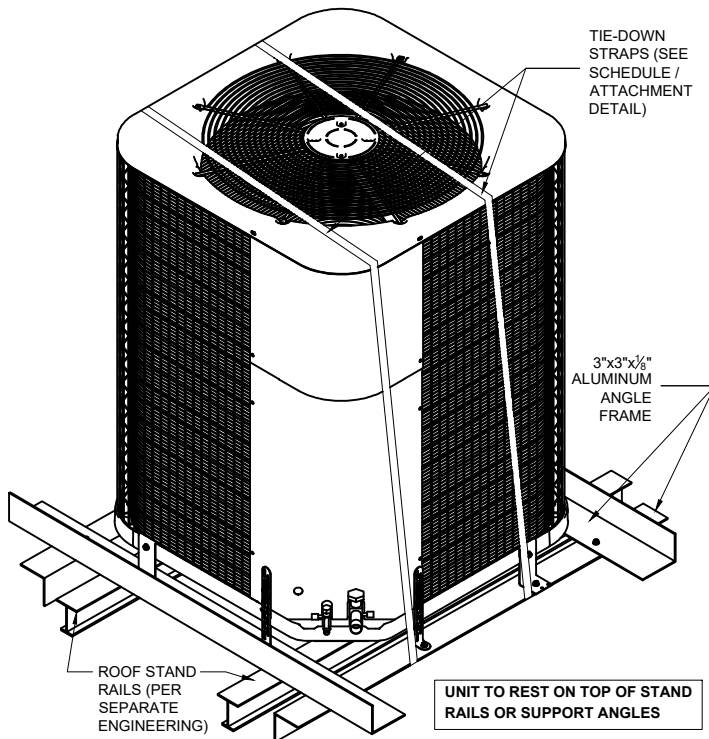
NOTE: FOR CABINET A, USE MIAMI-TECH KIT#NCUTDWG30KR
FOR CABINET B, USE MIAMI-TECH KIT#NCUTDWG38KR

NOTE: ALL DETAILS ON THIS PAGE ARE VALID FOR BOTH CORNER POST / HAIL GUARD AND WIRE GUARD / HAIL GUARD CABINET SHELLS.

FRAME TYPICAL CONNECTIONS



MECHANICAL UNIT ROOF MOUNTED



ANCHOR SCHEDULE TO HOST STRUCTURE, TIE-DOWN CLIP SCHEDULE

CABINET	SHELL	PRESSURE LATERAL / UPLIFT (PSF)		MEAN ROOF HEIGHT (FEET)	ANCHOR TYPE			TIE-DOWN CLIPS		# OF METAL STRAPS	Minimum WLL (LBS)
					CONCRETE 3,000 PSI	1/8" MIN A36 STEEL	1/8" MIN 6061-T6 ALUMINUM	① (# OF CLIPS)	② (# OF CLIPS)		
A	CORNER POST/ HAIL GUARD	GROUND			A	NA	NA	2	6	0	NA
		118	93	200	NA	B	B	2	6	2	600
	WIRE GUARD/ HAIL GUARD	GROUND			A	NA	NA	2	6	0	NA
		118	93	200	NA	B	B	2	6	2	600
B	CORNER POST/ HAIL GUARD	GROUND			A	NA	NA	2	6	0	NA
		118	93	200	NA	B	B	2	6	2	600
	WIRE GUARD/ HAIL GUARD	GROUND			A	NA	NA	2	6	0	NA
		118	93	200	NA	B	B	2	6	2	600

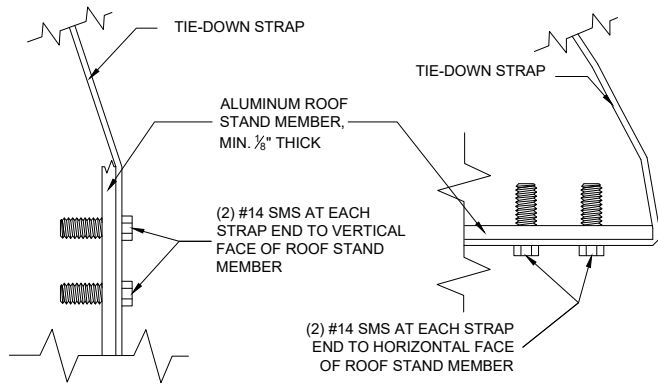
ANCHOR TYPES TO HOST STRUCTURE:

A. 1/4" HILTI KBV EXPANSION ANCHOR EMBEDDED 2" IN 4,000 PSI CONCRETE MINIMUM 4" FROM EDGE

B. 1/4" UNC SS 410 BOLT MINIMUM 1/2" FROM EDGES WITH NUT AND WASHER SPECIFIED FOR INSTALLATION AT ROOF LEVEL

NA. NOT APPLICABLE

TIE-DOWN STRAP ATTACHMENT (SEE TIE-DOWN SCHEDULE)



SECTION 3 SUPPORTING CALCULATIONS & SUMMARY

FORCES SUMMARY

CABINET TYPE	GROUND OR ROOF	MEAN ROOF HEIGHT (FEET)	LATERAL PRESSURE (PSF)	UPLIFT PRESSURE (PSF)	SIDE FORCE (LBS)	SIDE OVERTURN (LBS-IN)	ANCHOR SIDE TENSION (LBS)	UPLIFT FORCE (LBS)
A	GROUND		69.0	54.0	386.9	6868.3	384	193.4
	ROOF	200	118.0	93.0	662.7	11763.3	687	335.3
B	GROUND		69.0	54.0	640.9	13939.1	631	353.3
	ROOF	200	118.0	93.0	1097.6	23873.4	1130	612.6

PANEL INTEGRITY SUMMARY

NOTE: FOR FORCES SUMMARY AND PANEL INTEGRITY SUMMARY TABLES, EACH CABINET TYPE INCLUDES BOTH KINDS OF SHELLS (CORNER POST / HAIL GUARD AND WIRE GUARD / HAIL GUARD).

CABINET TYPE	WIND PRESSURE LATERAL (UPLIFT)	MEAN ROOF HEIGHT (FEET)	ADDITIONAL REINFORCEMENT BEYOND ORIGINAL MANUFACTURED CABINET	CABINET TYPE	WIND PRESSURE LATERAL (UPLIFT)	MEAN ROOF HEIGHT (FEET)	ADDITIONAL REINFORCEMENT BEYOND ORIGINAL MANUFACTURED CABINET
A	GROUND		TIE-DOWN CLIPS (SEE ABOVE)	B	GROUND		TIE-DOWN CLIPS (SEE ABOVE)
	118 (93)	200	TIE-DOWN CLIPS AND (2) TIE-DOWN STRAPS (SEE ABOVE)		118 (93)	200	TIE-DOWN CLIPS AND (2) TIE-DOWN STRAPS (SEE ABOVE)

ELEVATIONS & DIMENSIONS

Model Number	Weight (lbs)	Length (in)	Width (in)	Height (in)	Cabinet	Cabinet Shell
BSA2BD4M1RN18KA	104	22.75	22.75	27.5	A	Corner Post/Hail Guard
BSA2BD4M1RN24KA	121	22.75	22.75	27.5	A	Corner Post/Hail Guard
BSA2BD4M1RN30KA	123	22.75	22.75	27.5	A	Corner Post/Hail Guard
BSA2BD4M1RN36KA	135	22.75	22.75	35.5	A	Corner Post/Hail Guard
BSA2BD4M1SN42K	182	30.75	30.75	27.5	B	Corner Post/Hail Guard
BSA2BD4M1SN48K	169	30.75	30.75	27.5	B	Corner Post/Hail Guard
BSA2BD4M1SN60K	183	30.75	30.75	31.5	B	Corner Post/Hail Guard
BSA2BE4M1RN18K	111	22.75	22.75	31.5	A	Corner Post/Hail Guard
BSA2BE4M1RN24K	132	22.75	22.75	31.5	A	Corner Post/Hail Guard
BSA2BE4M1RN30K	149	30.75	30.75	27.5	B	Corner Post/Hail Guard
BSA2BE4M1RN36K	161	30.75	30.75	35.5	B	Corner Post/Hail Guard
BSA2BE4M1SN42K	185	30.75	30.75	39.5	B	Corner Post/Hail Guard
BSA2BE4M1SN48K	188	30.75	30.75	39.5	B	Corner Post/Hail Guard
BSA2BE4M1SN60K	202	30.75	30.75	43.5	B	Corner Post/Hail Guard
BSH2BE4M1SP18K	162	30.75	30.75	31.5	B	Corner Post/Hail Guard
BSH2BE4M1RP24K	164	30.75	30.75	31.5	B	Corner Post/Hail Guard
BSH2BE4M1RP30K	177	30.75	30.75	39.5	B	Corner Post/Hail Guard
BSH2BE4M1SP36K	180	30.75	30.75	43.5	B	Corner Post/Hail Guard
BSH2BE4M1SP42K	215	30.75	30.75	43.5	B	Corner Post/Hail Guard
BSH2BE4M1SP48K	215	30.75	30.75	43.5	B	Corner Post/Hail Guard
WSA2BD4M1SN18K	108	22.75	22.75	23.5	A	Wire Guard/Hail Guard
WSA2BD4M1SN24K	113	22.75	22.75	23.5	A	Wire Guard/Hail Guard
WSA2BD4M1SN30K	119	22.75	22.75	27.5	A	Wire Guard/Hail Guard
WSA2BD4M1SN36K	122	22.75	22.75	27.5	A	Wire Guard/Hail Guard
WSA2BD4M1SN42K	172	30.75	30.75	27.5	B	Wire Guard/Hail Guard
WSA2BD4M1SN48K	176	30.75	30.75	27.5	B	Wire Guard/Hail Guard
WSA2BD4M1SN60K	184	30.75	30.75	31.5	B	Wire Guard/Hail Guard
WSA2BE4M1SN18K	115	22.75	22.75	27.5	A	Wire Guard/Hail Guard
WSA2BE4M1SN24K	121	22.75	22.75	31.5	A	Wire Guard/Hail Guard
WSA2BE4M1SN30K	148	30.75	30.75	27.5	B	Wire Guard/Hail Guard
WSA2BE4M1SN36K	159	30.75	30.75	35.5	B	Wire Guard/Hail Guard
WSA2BE4M1SN42K	193	30.75	30.75	39.5	B	Wire Guard/Hail Guard
WSA2BE4M1SN48K	195	30.75	30.75	39.5	B	Wire Guard/Hail Guard
WSA2BE4M1SN60K	212	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSA2BF4M1SN24K	128	22.75	22.75	35.5	A	Wire Guard/Hail Guard
WSA2BF4M1SN30K	147	30.75	30.75	27.5	B	Wire Guard/Hail Guard
WSA2BF4M1SN36K	178	30.75	30.75	39.5	B	Wire Guard/Hail Guard
WSA2BF4M1SN42K	205	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSA2BF4M1SN48K	208	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSA2BF4M2SN60K	211	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP18K	168	30.75	30.75	31.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP24K	166	30.75	30.75	31.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP30K	180	30.75	30.75	39.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP36K	189	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP42K	229	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP48K	224	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BF4M1SP24K	172	30.75	30.75	35.5	B	Wire Guard/Hail Guard
WSH2BF4M1SP30K	173	30.75	30.75	35.5	B	Wire Guard/Hail Guard
WSH2BF4M1SP36K	185	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BF4M1SP42K	220	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BF4M1SP48K	220	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BF4M2SX60K	226	30.75	30.75	43.5	B	Wire Guard/Hail Guard
GSA2BD4M1RN24KA	112	22.75	22.75	27.5	A	Wire Guard/Hail Guard
GSA2BD4M1RN30KA	124	22.75	22.75	27.5	A	Wire Guard/Hail Guard

ELEVATIONS & DIMENSIONS, CONTINUED

Model Number	Weight (lbs)	Length (in)	Width (in)	Height (in)	Cabinet	Cabinet Shell
GSA2BD4M1RN36KA	140	22.75	22.75	35.5	A	Wire Guard/Hail Guard
GSA2BD4M1SN42K	174	30.75	30.75	27.5	B	Wire Guard/Hail Guard
GSA2BD4M1SN48K	175	30.75	30.75	27.5	B	Wire Guard/Hail Guard
GSA2BE4M1RN24K	127	22.75	22.75	31.5	A	Wire Guard/Hail Guard
GSA2BE4M1RN30K	155	30.75	30.75	27.5	B	Wire Guard/Hail Guard
GSA2BE4M1RN36K	170	30.75	30.75	35.5	B	Wire Guard/Hail Guard
GSA2BE4M1SN42K	194	30.75	30.75	39.5	B	Wire Guard/Hail Guard
GSA2BE4M1SN48K	193	30.75	30.75	39.5	B	Wire Guard/Hail Guard
GSH2BE4M1RP24K	171	30.75	30.75	31.5	B	Wire Guard/Hail Guard
GSH2BE4M1RP30K	185	30.75	30.75	39.5	B	Wire Guard/Hail Guard
GSH2BE4M1SP36K	182	30.75	30.75	43.5	B	Wire Guard/Hail Guard
GSH2BE4M1SP42K	222	30.75	30.75	43.5	B	Wire Guard/Hail Guard
GSH2BE4M1SP48K	223	30.75	30.75	43.5	B	Wire Guard/Hail Guard
GSA2QD4M1RN24KA	122	22.75	22.75	27.5	A	Wire Guard/Hail Guard
GSA2QD4M1RN30KA	124	22.75	22.75	27.5	A	Wire Guard/Hail Guard
GSA2QD4M1RN36KA	139	22.75	22.75	35.5	A	Wire Guard/Hail Guard
GSA2QD4M1SN42K	174	30.75	30.75	27.5	B	Wire Guard/Hail Guard
GSA2QD4M1SN48K	173	30.75	30.75	27.5	B	Wire Guard/Hail Guard
GSA2QE4M1RN24K	129	22.75	22.75	31.5	A	Wire Guard/Hail Guard
GSA2QE4M1RN30K	153	30.75	30.75	27.5	B	Wire Guard/Hail Guard
GSA2QE4M1RN36K	168	30.75	30.75	35.5	B	Wire Guard/Hail Guard
GSA2QE4M1SN42K	193	30.75	30.75	39.5	B	Wire Guard/Hail Guard
GSA2QE4M1SN48K	194	30.75	30.75	39.5	B	Wire Guard/Hail Guard
GSH2QE4M1RP24K	171	30.75	30.75	31.5	B	Wire Guard/Hail Guard
GSH2QE4M1RP30K	184	30.75	30.75	39.5	B	Wire Guard/Hail Guard
GSH2QE4M1SP36K	187	30.75	30.75	43.5	B	Wire Guard/Hail Guard
GSH2QE4M1SP42K	222	30.75	30.75	43.5	B	Wire Guard/Hail Guard
GSH2QE4M1SP48K	227	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSA2BD4M1SN36C	123	22.75	22.75	27.5	A	Wire Guard/Hail Guard
WSA2BD4M1SN48C	179	30.75	30.75	31.5	B	Wire Guard/Hail Guard
WSA2BD4M1SN60C	180	30.75	30.75	31.5	B	Wire Guard/Hail Guard
WSA2BD4M1SN36D	129	22.75	22.75	27.5	A	Wire Guard/Hail Guard
WSA2BD4M1SN48D	179	30.75	30.75	31.5	B	Wire Guard/Hail Guard
WSA2BD4M1SN60D	178	30.75	30.75	31.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP36C	188	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP48C	222	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP60C	223	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP36D	187	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP48D	211	30.75	30.75	43.5	B	Wire Guard/Hail Guard
WSH2BE4M1SP60D	222	30.75	30.75	43.5	B	Wire Guard/Hail Guard
BSH2BE4M1SP60KA	219	30.75	30.75	43.5	B	Corner Post/Hail Guard
WSH2BE4M1SP60KA	228	30.75	30.75	43.5	B	Wire Guard/Hail Guard

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	EPR	LAO	2/10/2020
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

LIMITATIONS & CONDITIONS OF USE

USE OF THIS PRODUCT SHALL BE IN STRICT ACCORDANCE WITH THIS TER AS NOTED HEREIN. THE SUPPORTING HOST STRUCTURE SHALL BE DESIGNED TO RESIST ALL SUPERIMPOSED LOADS AS DETERMINED BY OTHERS ON A SITE-SPECIFIC BASIS AS MAY BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. HOST STRUCTURE CONDITIONS WHICH ARE NOT ACCOUNTED FOR IN THIS PRODUCT'S RESPECTIVE ANCHOR SCHEDULE SHALL BE DESIGNED FOR ON A SITE-SPECIFIC BASIS BY A REGISTERED PROFESSIONAL ENGINEER. NO EVALUATION IS OFFERED FOR THE HOST SUPPORTING STRUCTURE BY USE OF THIS DOCUMENT; ADJUSTMENT FACTORS NOTED HEREIN AND THE APPLICABLE CODES MUST BE CONSIDERED, WHERE APPLICABLE. ALL SUPPORTING COMPONENTS WHICH ARE PERMANENTLY INSTALLED SHALL BE PROTECTED AGAINST CORROSION, CONTAMINATION, AND OTHER SUCH DAMAGE AT ALL TIMES. FASTENERS MUST PENETRATE THE SUPPORTING MEMBERS SUCH THAT THE FULL LENGTH OF THE THREADED PORTION IS EMBEDDED WITHIN THE MAIN MEMBER. THIS EVALUATION DOES NOT OFFER ANY EVALUATION TO MEET LARGE MISSILE IMPACT DEBRIS REQUIREMENTS WHICH TYPICALLY ARE NOT REQUIRED FOR THIS TYPE OF PRODUCT.

ALL OF THE WIND RESISTING EXTERIOR PANELS, INDIVIDUALLY MEET OR EXCEED THEIR CAPACITY TO RESIST THE DESIGN WIND LOADS AS STATED IN THE CALCULATIONS AS REQUIRED BY THE FBC. DUE TO THE INDETERMINATE NATURE OF THESE UNITS, DISTORTION AND DEFLECTION CANNOT BE ACCURATELY EVALUATED, BUT WITH DIAPHRAGM ACTION OF EXTERNAL COMPONENTS AND INTERNAL STIFFENERS, THE BASE UNIT HAS THE CAPACITY TO WITHSTAND THESE FORCES WITH INDIVIDUAL EXTERNAL PARTS BEING CONTAINED. YEARLY INSPECTIONS, DURING EQUIPMENT MAINTENANCE OR AFTER NAMED STORM. ALL SCREWS, CABINET COMPONENTS, CLIPS AND ANCHOR BOLTS ARE TO BE VERIFIED BY THE A/C CONTRACTOR. ALL DAMAGED CABINET COMPONENTS, LOOSE, CORRODED, BROKEN TECH SCREWS OR ANCHOR BOLTS SHALL BE REPLACED TO ENSURE STRUCTURAL INTEGRITY FOR HURRICANE WIND FORCES.