

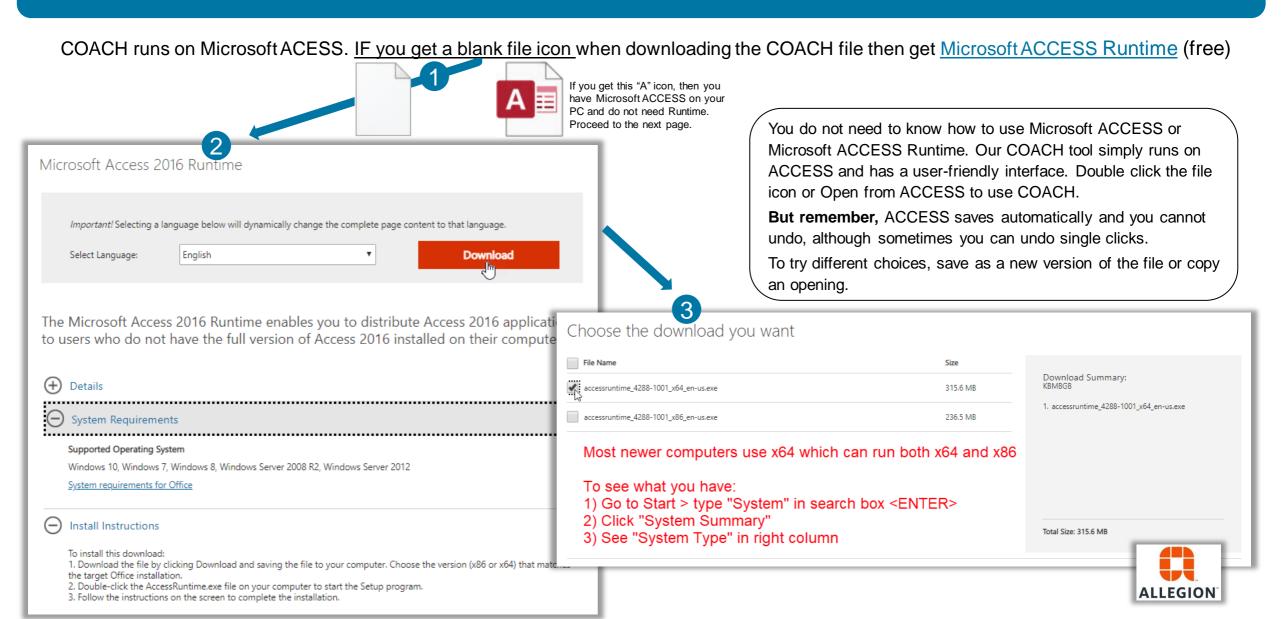
# Republic Hurricane COACH and APPROVAL LOOKUP

- Selection and Ordering Tools USER GUIDE

April 2020 v3/31/2022

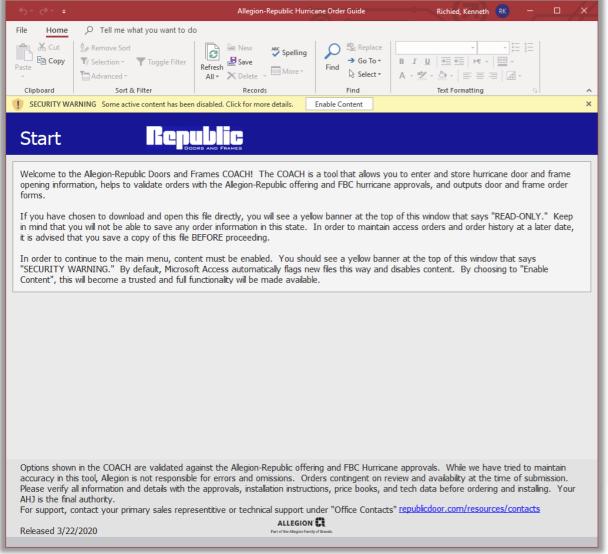
- FBC COACH
- FBC Approval LOOKUP
- About Hurricane & HVHZ

COACH TOOL VALIDATES CHOICES TO TAKE THE COMPLEXITY OUT OF FINDING AND ORDERING FBC LISTED REPUBLIC PRODUCTS WITH ALLEGION HARDWARE



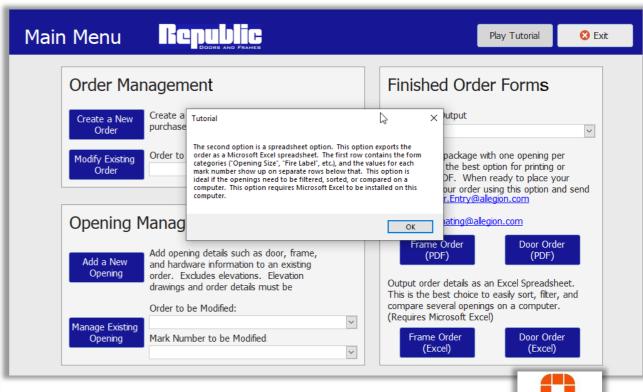
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After downloading and saving to your PC, double-click or open from ACCESS, "Enable Content" and go through the Tutorial



"Start" Introduces the tool and makes sure you are ready to go

Optional Tutorial steps you through how to use the tool

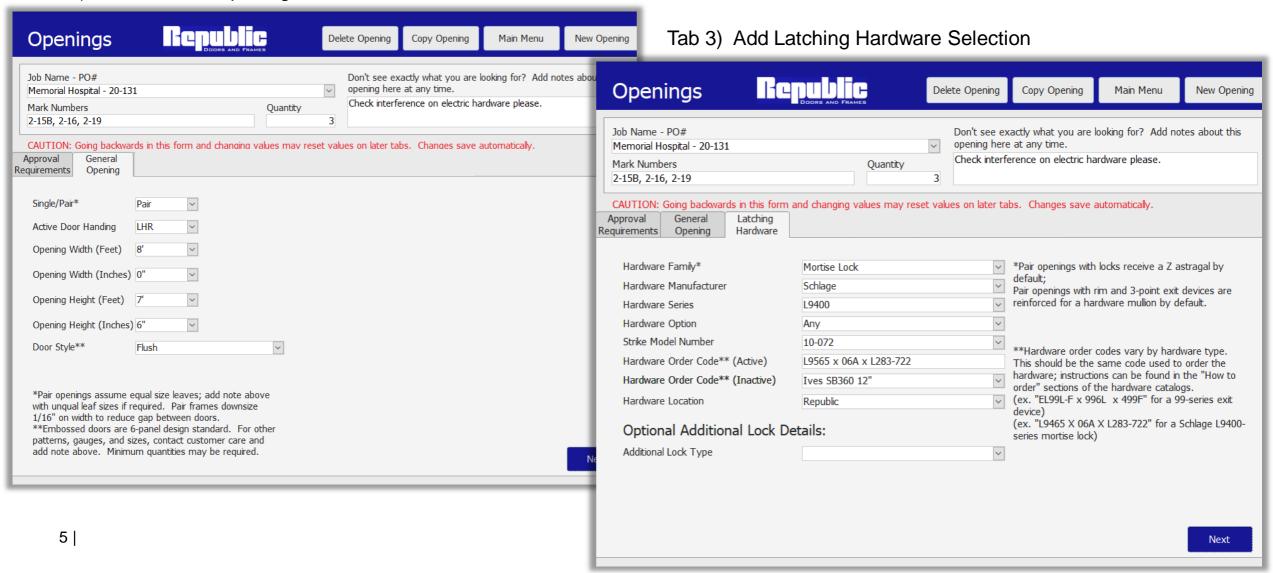


### Get Started – Enter Order Information

Orders GODDE AND FRAMES	Tab 1) Enter Opening In	nformation – Start with Pressure & Impact
Customer Number PO Number 1234 20-131  Shipping Address** 7800 Sheridan St. Pembroke Pines, FL 33024  Contact Name*  Contact Name*  Shipping Address**  Contact Name* 7800 Sheridan St. Pembroke Pines, FL 33024  Contact Name*  John Smith  Contact Phone Number*:  (954) 555-1212  Save and Create Another Order	Job Name - PO# Memorial Hospital - 20-131 Mark Numbers 2-15B, 2-16, 2-19  CAUTION: Going backwards in this form and changing values managements	3
information on record if left blank.	Options will be shown which are rated for:  Positive (Inward) Pressure 70 psf and  Negative (Outward) Pressure 70 psf and high  Water Infiltration  HVHZ   Impact Rating Level D: 9 b 2x4 at 50 ft/s	The COACH uses continuous validation. As data is entered, future options are dynamically restricted.  Only product combinations which AT LEAST meet the criteria entered on this tab will be shown. (ex. selecting impact level "A" will NOT exclude any impact approvals, and selecting impact level "D" WILL exclude impact level A, B, and C approvals, but will NOT exlude impact level E approvals.)  If any criteria on this tab are unknown, select the below values to display the full range of products:  - Positive/Negative Pressure = 0
Options shown in the COACH are validated against the Allegion-Republic offering and FBC Hurricane approvals. While we have tried accuracy in this tool, Allegion is not responsible for errors and omissions. Orders contingent on review and availability at the time of Please verify all information and details with the approvals, installation instructions, price books, and tech data before ordering and AHJ is the final authority.  For support, contact your primary sales representitive or technical support under "Office Contacts"  **Released 3/22/2020**  **Released 3/22/2020**  **Put of the Allegion Family of Brands.**  **Put of the Allegion Family of Brands.**  **ALLEGION**  **ALLEGION**  **Put of the Allegion Family of Brands.**  **ALLEGION**  **ALLEGION**  **ALLEGION**  **ALLEGION**  **ALLEGION**  **Put of the Allegion Family of Brands.**  **ALLEGION**  **ALLEGION*  **ALLEG	submit Fire Label* None  *This tool does NOT validate fire label	- Water Infiltration/HVHZ = No (unchecked) - Impact Rating = Show All - Fire Label = None  At the end of this form, a list of matching approvals will be displayed. Keep in mind that those approvals will have restrictions relating to pressure, water infiltration, etc., and may not be applicable to the true opening. Applying known restrictions on this tab reduces this risk.

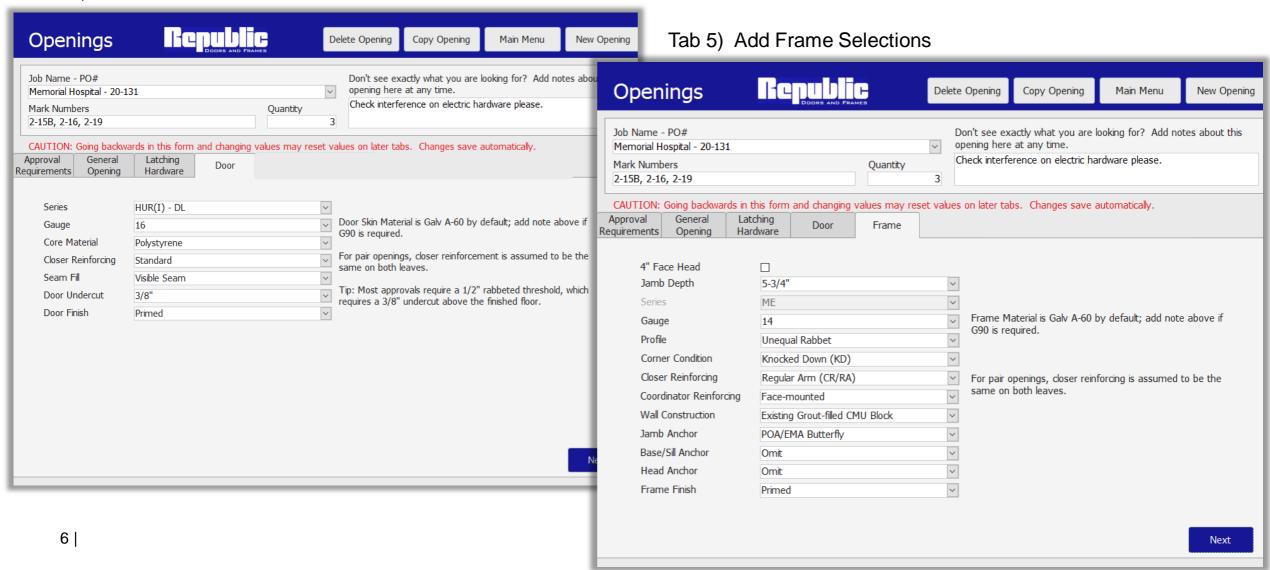
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### Tab 2) Add General Opening Selection



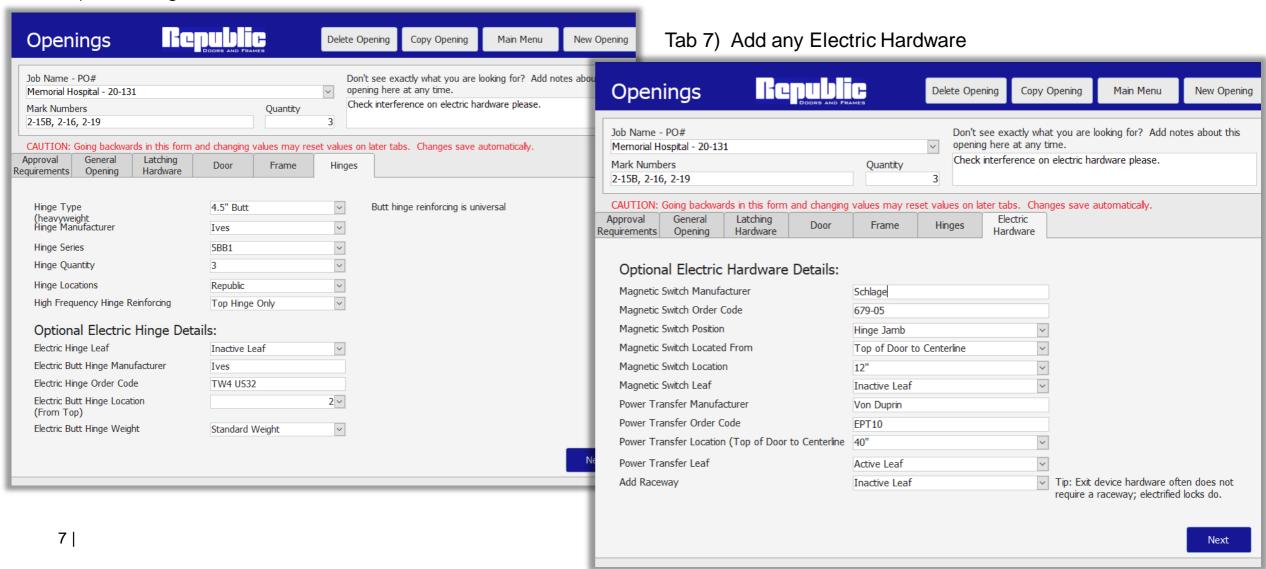
COACH TOOL VALIDATES CHOICES TO TAKE THE COMPLEXITY OUT OF FINDING AND ORDERING FBC LISTED REPUBLIC PRODUCTS WITH ALLEGION HARDWARE

### Tab 4) Add Door Selections



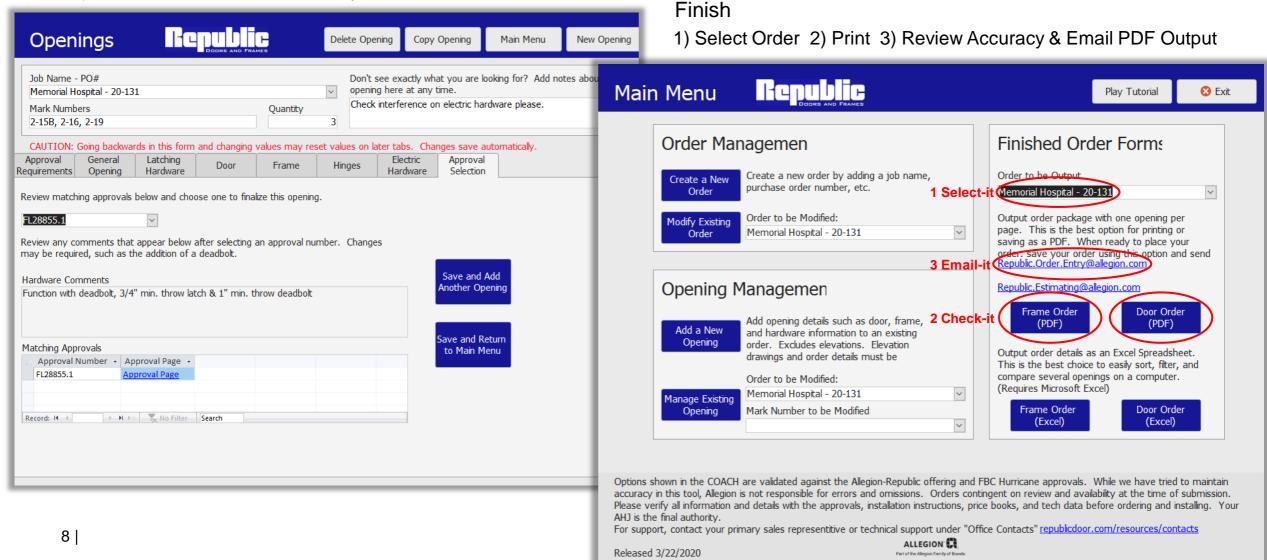
COACH TOOL VALIDATES CHOICES TO TAKE THE COMPLEXITY OUT OF FINDING AND ORDERING FBC LISTED REPUBLIC PRODUCTS WITH ALLEGION HARDWARE

### Tab 6) Add Hinges



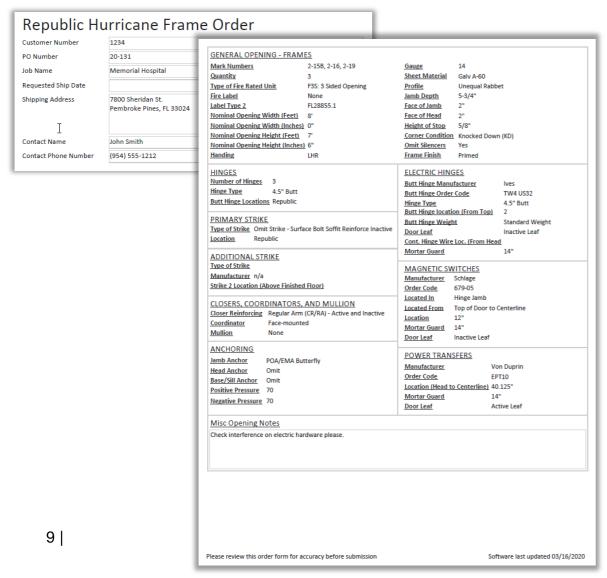
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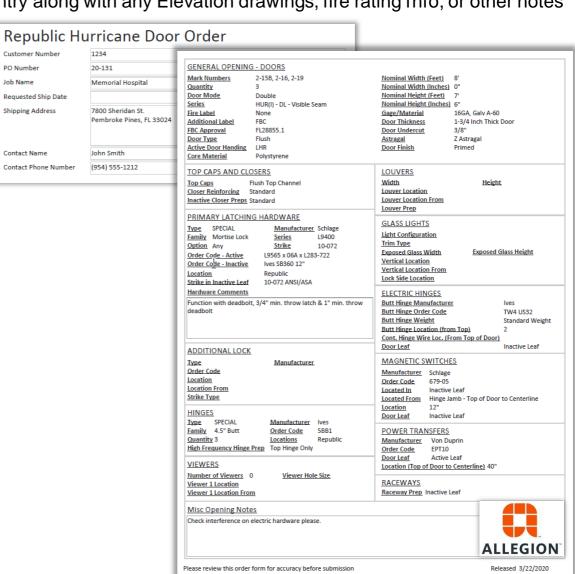
Tab 8) Choose FL # validated from your selections



COACH TOOL VALIDATES CHOICES TO TAKE THE COMPLEXITY OUT OF FINDING AND ORDERING FBC LISTED REPUBLIC PRODUCTS WITH ALLEGION HARDWARE

Print and Review your PDF Output for Accuracy before Emailing to Order Entry along with any Elevation drawings, fire rating info, or other notes





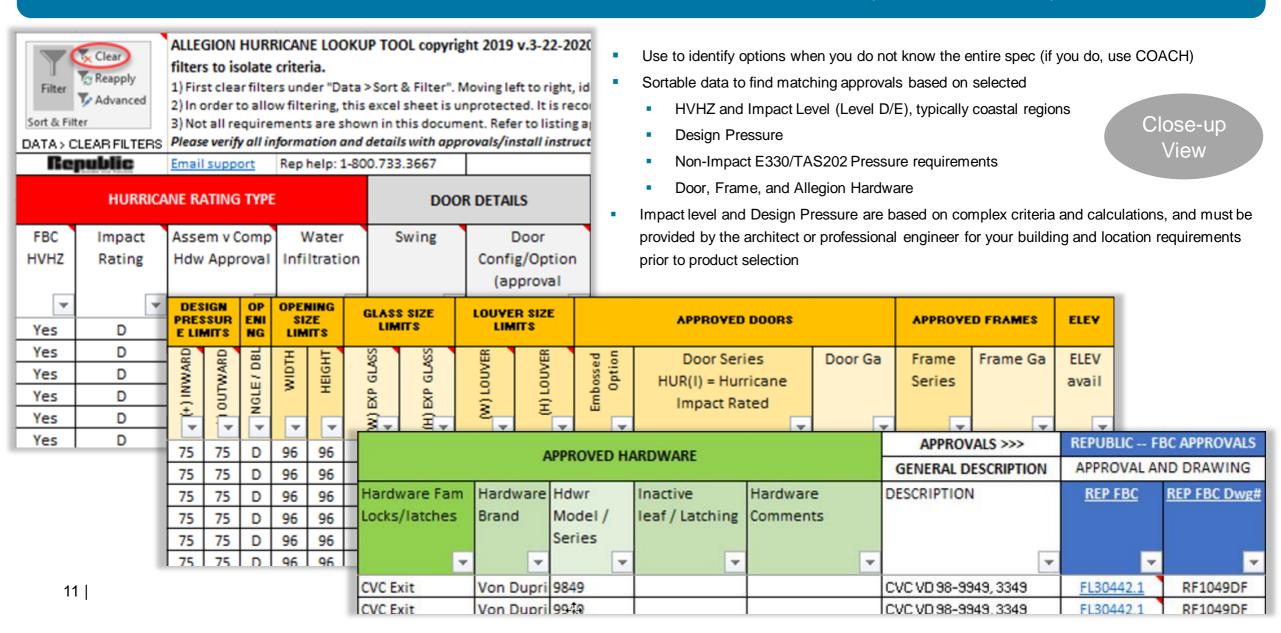
# The FBC Approval LOOKUP tool provides you with a guide to Products in Listings SEE ARCHITECT OR PROFESSIONAL ENGINEER LICENSED IN YOUR AREA TO IDENTIFY REQUIREMENTS FOR HVHZ, IMPACT LEVEL OR E330, AND DESIGN PRESSURE

### Link to latest version of Filterable Excel LOOKUP tool at <a href="https://www.republicdoor.com">www.republicdoor.com</a>, hurricane section

Filter ,	Clear Reapply Advanced	1) First clear filte 2) In order to allo 3) Refer to listing Please verify all in	rs under "Data > w filtering, this e approvals, COA( oformation and d	Sort & Filter". Nexcel sheet is un CH™, and price letails with app	Moving left to right, nprotected. It is re book offerings for a	29-2020 , identify ye ecommend all requirer ructions bef	INSTRUC our known ed that yo ments and fore orderi	criterial to u not resav available p ng and inst	nis tool m filter your: e this file a products. alling. Your	ay be sa specific o	ordering ng or filt	or install ering the	ation deta data, or sa	ails, then o	R ntended to guide you to the onsult the appropriate approva a with Descriptive name so tha to maintain accuracy, Allegion is	l from your ti t any edits y	ne certificati ou save do n	ion agency you ot produce inc	are using correct co	= LINKS SHO	WN UNDER AF	PROVALS CO		AA P: Looking for	AB a specific approval? Select	AC t any single cell and Hi	AD it ctrl-F
Rej	public	Contact support	Phone support	1-800.733.366	57																					Republic FBC Link >	
	HURRICA	NE RATING TYPI		DOOF	R DETAILS	PRESSUI		SIZE	GLASS SIZ		LOUVER				APPROVED DOORS		APPROVE	D FRAMES	ELEV		APPR	OVED HARD	OWARE		APPROVALS >>>		BC APPROVALS
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No No	Non-Impact	Assembly Assembly	No No	Outswing	GS11 GS11	50 40 40 50				4.50	0	0	Yes Yes	Yes Yes	DL/DE/DP DL/DE/DP	18/16/14 18/16/14	ME/SE ME/SE	16/14/12 16/14/12	No No	Exit Alarm Exit Alarm	<del></del>	2670 GUAF 2670 GUAF			E330 - Single Glazed E330 - Single Glazed	FL30299.4 FL30299.4	GSDA330R GSDA330R
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Yes	D	Assembly	Yes	N/A	Borrowed Light		N/A	-		6.75	0	0	N/A	N/A	N/A	N/A	ME/SE	16/14	Yes	N/A	1.47.1	N/A			Storefront - TAS202, HVHZ		RF1107W
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Yes	D	Assembly	Yes	Outswing	1	75 75	5 D 9	96 96	0	0	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	No	Mortise	Schlage	LV9400	Ives SB36	Function w	Double Flush 50-90PSF	FL28855.1-R2	RFFD07
Yes	D	Assembly	Yes	Outswing	1	75 79	5 D 9	96 96	0	0	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	No	Mortise	Schlage	AD-MD	Ives SB36	Function w	Double Flush 50-90PSF	FL28855.1-R2	RFFD07
Yes	D	Assembly	Yes	Outswing	1	75 75	5 D 9	96 96	0	0	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	No	Mortise	Schlage	CO-MD	Ives SB36	Function w	Double Flush 50-90PSF	FL28855.1-R2	RFFD07
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Yes	D	Assembly	No	Inswing	Single	170 17		86 84	_	0	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	No	Mortise	Schlage	LEB-MD			Inswing 170PSF - SS StrikeF		RF776W-3
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Yes	D	Assembly	No	Outswing	Single	170 17		86 84		-	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	No	Mortise		LE-MD			Outswing 170PSF - SS Strik	FL28853.1-R2	RF776W-2
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Yes	E	Assembly	No No	Outswing	Single	150 15		18 96	-	-	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE ME/SE		No	SVR Exit	Von Dupri Von Dupri				WS Panic Level E 150 WS Panic Level E 150	FL28856-R2 FL28856-R2	RF3580-1 RF3580-1
Yes	F	Assembly Assembly	No	Outswing	Single Single	150 15		18 96 18 96		0	0	0	Yes Yes	Yes Yes	HUR(I) - DL / HUR(I) - DE HUR(I) - DL / HUR(I) - DE	16/14 16/14	ME/SE	16/14/12 16/14/12	No No	SVR Exit		WS9927 WS9827-F			WS Panic Level E 150	FL28856-R2 FL28856-R2	RF3580-1
Yes	F	Assembly	No	Outswing	Single	150 15		18 96	_	0	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	No	SVR Exit		WS9927-F			WS Panic Level E 150	FL28856-R2	RF3580-1
Yes	F	Assembly	No	Outswing	Double	150 15		6 96		0	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	No	SVR Exit	Von Dupri				WS Panic Level E 150	FL28856-R2	RF3580-1
Yes	E	Assembly	No	Outswing	Double	150 15		96 96		0	0	0	Yes	Yes	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	No	SVR Exit	Von Dupri				WS Panic Level E 150	FL28856-R2	RF3580-1
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Yes	D	Assembly	No	Outswing	Single Elev	60 60	) S 3	86 84	24.00 64	4.00	0	0	Yes	No	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	Yes	SVR Exit	Von Dupri	9927			Transom sidelight	FL28852.1-F	
Yes	D	Assembly	No	Outswing	Single Elev			86 84		4.00	0	0	Yes	No	HUR(I) - DL / HUR(I) - DE	16/14	ME/SE	16/14/12	Yes	SVR Exit	Von Dupri				Transom sidelight	FL28852.1-F	.LEGIO
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# The FBC Approval LOOKUP tool provides you with a guide to Products in Listings

SEE ARCHITECT OR PROFESSIONAL ENGINEER LICENSED IN YOUR AREA TO IDENTIFY REQUIREMENTS FOR HVHZ. IMPACT LEVEL OR E330, AND DESIGN PRESSURE



### Republic FBC LOOKUP tool – Hurricane Impact and Non-Impact Requirements

SEE ARCHITECT OR PROFESSIONAL ENGINEER LICENSED IN YOUR AREA TO IDENTIFY REQUIREMENTS FOR HVHZ. IMPACT LEVEL OR E330. AND DESIGN PRESSURE

### LOOKUP includes "About Hurricane and HVHZ" tab with Information on Hurricane, HVHZ, Impact, Pressure and E330

This LOOKUP tool and ultimately Listing Approvals will guide you to the appropriate hollow metal and hardware approved for ALL Allegion certified Hurricane products have been tested to a minimum Impact Level D at various pressures, or to E330/TAS202 non-impact.

- See your architect or professional engineer licensed in your area to identify the following in order to identify approved hurricane products for your building:
- o HVHZ / non-HVHZ (High Velocity Hurricane Zone)
- o Impact -- Level D (for A-D), Level E, or Non-impact (E330/TAS202)
- o Design Pressure required in order to identify approved products
- o Wall Condition and Anchoring method

<u>Impact doors</u> are required for Wind-Borne Debris Regions within 1 mile of the coastal high water line where FBC wind speed maps designate 130mph or greater; also any areas designated > 140mph (HVHZ & E1996).

All products approved for Impact Levels D (Risk Categories I, II, III) or E (Risk Categories IV, III health care).

Non-Impact E330 required for all exterior openings not already labeled for impact & higher pressures, typ Inland <130mph wind zones where impact and higher pressures are not required (FBC 1710.5.2 and IBC 2015 1709.5.2)

#### About Hurricane and HVHZ (High Velocity Hurricane Zones)

- All Miami-Dade approvals are HVHZ.
- FBC approvals that state HVHZ are approved for these same areas.
- o Most typical HVHZ areas are in Florida -- Miami/Dade, and Broward or Coastal Palm Beach counties (see FBC definitions below)
- o Outside of Miami, Dade, and Broward, impact and pressure requirements are dependent on wind speed and risk category. Reference ASTM E1996. See architect or professional engineer for your building and location requirements.

#### CODES and TEST PROTOCOLS

IBC - International Building Code

Florida Building Code (FBC), Miami-Dade, and Texas Department of Insurance (TDI) Impact and/or Non-Impact/Pressure approvals tested to specific protocols

- ASCE 7-10 Chapters 26-30 for determination of wind loads per FBC 1609
- ASTM E283 for air leakage
- ASTM E330 for non-impact / static load testing
- ASTM E331 for water penetration by uniform static air pressure
- TAS201 for Impact in Wind-borne debris regions
  - o ASTM E1996 outside Florida HVHZ or other states per IBC
- TAS202 for non-impact / static load testing
- o ASTM E330 outside Florida HVHZ or other states per IBC
- TAS203 for cyclic testing
- o ASTM E1886 outside Florida HVHZ or other states per IBC

#### BUILDING RISK CATEGORIES and MISSLE IMPACT LEVEL REFERENCE

- FBC 1626 High-Velocity Hurricane Zones Impact Tests for Wind-borne Debris
- FBC > ASTM E1996-17 Provides impact specifications -- ALL ALLEGION IMPACT-RATED PRODUCTS ARE TESTED TO MIN LEVEL D
- o Missile Level A: 2g (31 grains) +/- 5% steel ball. Impact speed 39.62 m/s (130 f/s).
- o Missile Level B: 910 g ± 100 g (2.0 lb ± 0.25 lb) 2 × 4 in.; 52.5 cm ± 100 mm (1 ft 9 in. ± 4 in.) lumber. Impact speed
- o **Missile Level C:**  $2050 \text{ g} \pm 100 \text{ g}$  (4.5 lb  $\pm 0.25 \text{ lb}$ )  $2 \times 4 \text{ in.}$ ; 1.2 m  $\pm 100 \text{ mm}$  (4 ft  $\pm 4 \text{ in.}$ ) lumber. Impact speed 15.25 m/s
- o **Missile Level D:** 910 g ± 100 g (2.0 lb ± 0.25 lb) 2 × 4 in.; 52.5 cm ± 100 mm (1 ft 9 in. ± 4 in.) lumber. Impact speed All Allegion product tested to minimum Level D Impact
- o Missile Level E:  $4100 \text{ g} \pm 100 \text{ g}$  (9.0 lb  $\pm$  0.25 lb)  $2 \times 4$  in.;  $2.4 \text{ m} \pm 100 \text{ mm}$  (8 ft  $\pm$  4 in.) lumber. Impact speed 24.38 m/s
  - Level E supports Risk Category IV for Essential facility buildings or structures
- FBC 1620 High-Velocity Hurricane Zones Wind Loads

#### FBC Definitions, Chapter 2

#### HVHZ (high velocity hurricane zones):

- 1. The U. S. Atlantic Ocean and Gulf of Mexico coasts where the ultimate design wind speed, Vult, for Risk Category II buildings is greater than 115 mph (51.4 m/s);
  - FBC Specifies Broward and Dade Counties
- 2. Hawaii, Puerto Rico, Guam, Virgin Islands and American Samoa.

#### WIND-BORNE DEBRIS REGION. Areas within hurricane-prone regions located:

- 1. Within 1 mile (1.61 km) of the coastal mean high water line where the ultimate design wind speed, Vult, is 130 mph (58 m/s) or greater; or...
- 2. In areas where the ultimate design wind speed is 140 mph (63.6 m/s) or greater.

#### RISK CATEGORIES

- For Risk Category II buildings and structures and Risk Category III buildings and structures, except health care facilities, the wind-borne debris region shall be based on Figure 1609.3.(1).
- For Risk Category IV buildings and structures and Risk Category III health care facilities, the windborne debris region shall be based on Figure 1609.3(2).

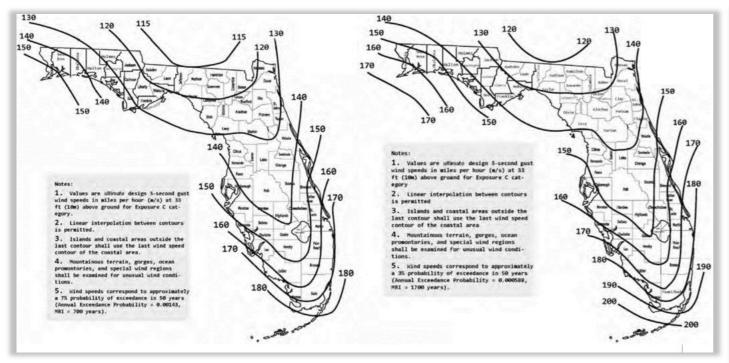
FBC Figure 1609.3(1) -- Risk Cat. II Ultimate Design Wind Speeds -- FBC Figure 1609.(2) -- Risk Cat. III; IV Ultimate Design Wind Speeds

**ALLEGION** 

### Republic FBC LOOKUP tool – Hurricane Impact and Non-Impact Requirements

SEE ARCHITECT OR PROFESSIONAL ENGINEER LICENSED IN YOUR AREA TO IDENTIFY REQUIREMENTS FOR HVHZ. IMPACT LEVEL OR E330, AND DESIGN PRESSURE

### LOOKUP includes "About Hurricane and HVHZ" tab with Information on Hurricane, HVHZ, Impact, Pressure and E330



IBC 2015, p.357, TAI	BLE 1604.5, RISK CAT	EGORY OF BUILDINGS A	ND OTHER STRUCTURES
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RISK CATEGORY	NATURE OF OCCUPANCY								
I	Buildings and other structures that represent a low hazard to human life in the event of failure, including but not limited to:  • Agricultural facilities.  • Certain temporary facilities.  • Minor storage facilities.								
П	Buildings and other structures except those listed in Risk Categories I, III and IV.								
ш	Buildings and other structures that represent a substantial hazard to human life in the event of failure, including but not limited to:  • Buildings and other structures whose primary occupancy is public assembly with an occupant load greater than 300.  • Buildings and other structures containing Group E occupancies with an occupant load greater than 250.  • Buildings and other structures containing educational occupancies for students above the 12th grade with an occupant load greater than 500.  • Group I-2 occupancies with an occupant load of 50 or more resident care recipients but not having surgery or emergency treatment facilities.  • Group I-3 occupancies.  • Any other occupancy with an occupant load greater than 5,000. <sup>a</sup> • Power-generating stations, water treatment facilities for potable water, wastewater treatment facilities and other public utility facilities not included in Risk Category IV.  • Buildings and other structures not included in Risk Category IV containing quantities of toxic or explosive materials that:  Exceed maximum allowable quantities per control area as given in Table 307.1(1) or 307.1(2) or per outdoor control area in accordance with the International Fire Code; and  Are sufficient to pose a threat to the public if released. <sup>b</sup>								
IV	Buildings and other structures designated as essential facilities, including but not limited to:  Group I-2 occupancies having surgery or emergency treatment facilities. Fire, rescue, ambulance and police stations and emergency vehicle garages. Designated earthquake, hurricane or other emergency shelters. Designated emergency preparedness, communications and operations centers and other facilities required for emergency response. Power-generating stations and other public utility facilities required as emergency backup facilities for Risk Category IV structures. Buildings and other structures containing quantities of highly toxic materials that: Exceed maximum allowable quantities per control area as given in Table 307.1(2) or per outdoor control area in accordance with the International Fire Code; and Are sufficient to pose a threat to the public if released. Aviation control towers, air traffic control centers and emergency aircraft hangars. Buildings and other structures having critical national defense functions. Water storage facilities and pump structures required to maintain water pressure for fire suppression.								

a. For purposes of occupant load calculation, occupancies required by Table 1004.1.2 to use gross floor area calculations shall be permitted to use net floor areas to determine the total occupant load.

b. Where approved by the building official, the classification of buildings and other structures as Risk Category III or IV based on their quantities of toxic, highly toxic or explosive materials is permitted to be reduced to Risk Category II, provided it can be demonstrated by a hazard assessment in accordance with Section 1.5.3 of ASCE 7 that a release of the toxic, highly toxic or explosive materials is not sufficient to pose a threat to the public.