

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
<u>143 Series Single Hung & FWI 1000 Series Single Hung</u> <u>2020 FBC Approved</u>	14604.1	Series 1431 Non-Impact Vinyl Single Hung	NI010607	+50	48"
	14604.2	Series 1441 Non-Impact Vinyl Single Hng	NI010813	+50	54" x 72"
	14604.4	Series 2451 Impact Vinyl Single Hung	NI013364.02	+50	48" x 72"
	14604.5	Series 2461 Impact Vinyl Single Hung	NI013364.03	+50	53 1/8" x 72"
	14604.7	FWI1000 Impact Singe Hung (Use for all Alum impact SH)	NI009020.01 NI009020.02 NI009020.03 NI010670.01 NI010670	See Approval Drawing	53 1/8" x 96"
<u>"Bertha" 176 Single Hung Non-Impact</u> <u>2020 FBC Approved</u>	22203.1	Series 176 Vinyl Single Hung Window, Non - Impact	NI013483	+70/-85	54" x 77"
<u>176 Single Hung & HD 2451/2461 VINYL SINGLE HUNG</u> <u>2020 FBC Approved</u>	16412.1	176 HVHZ Impact Vinyl Single Hung	NI012195	Fin or Flange: +70/-85	Box: 54" x 77"
	16412.2	176 HVHZ Impact Vinyl Single Hung ORIEL w/PVB	NI015128	+/-60	53" x 75"
	16412.3	176 HVHZ Impact Vinyl Single Hung w/PVB	NI015128.01	+/-60	53" x 75"
	16412.4	HD 2451/2561 Series Impact Vinyl Single Hung (Flange & Fin) Non-Impact	NI011536.01	+65/-65	44" x 84" Box Frame
	16412.2	HD 2451/2561 Series Impact Vinyl Single Hung (Flange & Fin)	NI011536	+65.0/-65.0	44" x 84" Box Frame

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DOUBLE HUNG 2020 FBC Approved	14593.1	SERIES 1531 DH (Vinyl NI-FIN)	NI010606	+50	48 x 72 Box Frame
	14593.2	SERIES 1541 DH (Vinyl NI-FLANGE)	NI010606.01	+50	48 x 72 Box Frame
	14593.3	SERIES 2551 DH (Vinyl IMP-FIN)	NI010606 NI010628-R2	+50	48 x 72 Box Frame
	14593.4	SERIES 2561 DH (Vinyl IMP-FLANGE)	NI010606.01 NI010629-R1	+50	48 x 72 Box Frame
Horizontal Sliding Windows 2020 FBC Approved	14610.1	FWI 1000 HR (7/16" GLASS)	NI006149.01	+80	72 x 60
	14610.2	FWI 1000HR (1/2" GLASS)	NI010658.01	+100/-120	74 1/8" x 63
	14610.3	FWI 1000HRP (1/2" GLASS)	NI010658	+100/-120	120" x 60"
	14610.4	SERIES 3241 (Vinyl NI-FLANGE)	NI010634.01	+50	72 1/2 x 60 1/2
	14610.5	SERIES 4241 (Vinyl IMP-FLANGE)	NI010634 NI010634.02-R4	+50	72 1/2 x 60 1/2
"Bertha" 176 Horizontal Rollers Non- Impact 2020 FBC Approved	22201.1	Series 176 HR Vinyl Horizontal Slider Window - Non Impact	NI013482.04	+70/-70	74" x 63"
	22201.2	Series 176 HRP 3-3-3 Vinyl Horizontal Slider Window Non - Impact	NI013482.01 NI013482	+70/-80	111" x 63"
	22201.3	Series 176 HRP 4-2-4 Vinyl Horizontal Slider Window Non - Impact	NI013482.02 NI013482.03	+55/-60	111" x 63"

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<u>143 Vinyl HR Non-Impact Fin, 143 Vinyl HR Flange and 176 Bertha HR & HRP</u> <u>2020 FBC Approved</u>	16804.1	143 HR Non-Impact Fin	NI011728	+50.0/-50.0	72" x 60" Box Frame
	16804.2	143 Non-Impact Vinyl HR OX or XO	NI012135	Flange: +35/-40	Box: 74" x 72"
	16804.3	"Bertha" 176 HRP 1/3-1/3-1/3 XOX w/PVB	NI015126	+/-60	110" x 62"
	16804.4	"Bertha" 176 HRP 1/4-1/2-1/4 XOX w/PVB	NI015126.01	+/-60	110" x 62"
	16804.5	"Bertha" 176 HR w/PVB interlayer	NI015126.02	+/-60	73" x 62"
	16804.6	176 HR OX or XO	NI012196.04	Fin or Flange: +70/-85	Box size: 74: x 63"
	16804.7	176 HRP 1/3 - 1/3 - 1/3 XOX	NI012196.01 NI012196	Flange: +65/-85 Fin: +60/-70	Box: 111" x 63"
	16804.8	176 HRP 1/4 - 1/4 - 1/4 XOX	NI012196.03 NI012196.02	Flange: +50/-65 Fin: +55/-60	Box: 111" x 63"

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FIXED WINDOWS 2020 FBC Approved	14608.1	SERIES 2000 FW (Impact)	NI009023.01	+-90	144" X 48"
	14608.2	SERIES 1436 FW (Vinyl NI-FIN)	NI010609	+-80	72" x 72"
	14608.3	SERIES 1446 FW (Vinyl NI-FLANGE)	NI010609.01	+-80	75" x 72"
	14608.4	"Bertha" 176 w/PVB interlayer	NI015127	+/-60	72" x 64"
	14608.5	"Bertha" 176 72" x 63" Impact Fin & Flange	NI011878 NI011878.01 NI011879 NI011879.01	+80.0/-80.0	72" x 63" Fin & Flange Frame
	14608.6	"Bertha" 176 72" x 84" Impact Fin & Flange	NI011880 NI011880.01 NI011881 NI011881.01	+80.0/-80.0	72" x 84" Fin & Flange Frame
	14608.7	SERIES 2456 FW (Vinyl IMP-FIN)	NI010610 NI010656	+-50	64" X 84"
	14608.8	SERIES 2466 FW (Vinyl IMP-FLANGE)	NI010610.01 NI010656.01	+-60	64" x 84"

TYPE		FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
CASEMENT WINDOWS 2020 FBC APPROVED		14609.1	Series 143 Vinyl Casement (HVHZ Approved) Fin & Flange Frames	NI011284	+/-70.0	37" x 76" Box Frame
		14609.2	SERIES 1631 CW (Vinyl NI-FIN)	NI010618	+/-50	37 X 75
		14609.3	SERIES 1641 CW (Vinyl NI-FLANGE)	NI010618.01	+/-50	37 X 75
		14609.4	SERIES 2651 CW (Vinyl IMP-FIN)	NI010618 NI010631	+/-50	37 X 75
		14609.5	SERIES 2661 CW (Vinyl IMP-FLANGE)	NI010618.01 NI010676	+/-50	37 X 75
AWNING WINDOW 2020 FBC APPROVED		15968.1	Series 143 Vinyl Awning (HVHZ Approved) Fin & Flange Frames	NI011283	+65.0/-70.0	53 1/8" x 39" Box Frame
Series 3000 Impact HVHZ Fixed Window 2020 FBC Approved		17162.1	120" x 48" & 48" x 54" Impact Flange HVHZ Approved with PVB Interlayer, Insul Impact & Impact only	NI012095 NI012096	120" x 48" @ +70.0/-70.0 48" x 54" @ +85.0/-90.0	120" x 48 & 48" x 54"
		17162.2	120" x 48" Impact Flange HVHZ Approved with SentryGlas Interlayer, Insul Impact & Impact only	NI012094.01 NI012094	Insul Impact +95.0/-100.0 Impact @ +100.0/-100.0	120" x 48"
"Bertha" 176 Picture Window Non-Impact 2020 FBC Approved		22204.1	Series 176 Vinyl Fixed Window Non - Impact (Tempered Glass)	NI013481.01	+90/-90	72" x 84"
		22204.2	Series 176 Vinyl Fixed Window Non - Impact	NI013481	+90/-90	60" x 60"

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
SLIDING GLASS DOORS 2020 FBC Approved	14605.1	Series 623 Vinyl Fin Frame Impact Sliding Glass Door, O,X,OX,XO,OXO	NI011134	+50.0/-50.0 Non-HVHZ Missile Level D Wind Zone 4	144" x 96"
	14605.2	Series 623 Vinyl Fin Frame or Equal Leg Impact Sliding Glass Door, O,X,OX,XO,OXO,OXO	NI011134.01	+50.0/-50.0 Non-HVHZ Missile Level D Wind Zone 4	192" x 96"
	14605.3	Series 623 Vinyl Fin Frame Non-Impact Sliding Glass Door, O,X,OX,XO,OXO	NI011134.02	+50.0/-50.0 Non-HVHZ	144" x 96"
	14605.4	Series 623 Vinyl Fin Frame or Equal Leg Non-Impact Sliding Glass Door, OX,XO,OXO,OXO	NI011134.03	+50.0/-50.0 Non-HVHZ	192" x 96"
	14605.5	FD8100 SGD (IMP - 4FT PANEL) FD8100 SGD (IMP - 4FT PANEL) FD8100 SGD (IMP - 4FT PANEL)	NI009416.02 NI009416.03	+40/-110 - +70/-90 +100/-110 +110/-110	192 x 108 192 X 96
	14605.6	FD8100 SGD (IMP - 4FT PANEL) Up to 5 Panels	NI009021.01	+90	236" x 120"
	14605.7	FD8100 LMI Bypass 135deg corners w/wout pockets Impact Only up to 8 Panels	NI010632	+50	384" x 120"
	14605.8	FD8100 LMI Bypass, 135deg corner, 90deg corner w/wout pockets, Impact Only and Insulated Impact glass up to 8 Panels	NI010632.01 NI010632.02 NI010632 NI009044.03	See Drawing for Design Pressure	384" x 120"
	14605.9	FD8100 LMI Bypass 90deg corners w/wout pockets Impact Only glass up to 8 Panels	NI009044.01	+60	384" x 120"
	14605.10	FD8100 SGD (IMP - 5FT PANEL - .100) FD8100 SGD (IMP/IG - 5FT PANEL) FD8100 SGD (IMP - 5FT PANEL - .075)	NI009416.04 NI009416.05 NI009416.06	+50 +60 +60	240 X 110
	14605.11	FD8100 NI Bypass, Non-Impact Only glass up to 5 Panels	NI009021.02 NI009021.03	+70	236" x 120"
	14605.12	FD8100 LMI Bypass, 135deg corner w/wout pockets, Impact Only glass up to 8 Panels	NI010633- NI010633.01	+50	384" x 120"
	14605.13	6000 SGD (LMI)	NI006179.01	+80	198 x 96
	14605.14	6000 SGD (LMI +/-45 PSF)	NI009448.02	+45	144" x 96"

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
5000 Series HVHZ Aluminum Outswing Impact French Door 2020 FBC Approved	17379.1	5000 Series Aluminum Impact Double Door	NI012134.02 NI012134.03	+75/-75	75" X 97 1/16"
	17379.2	5000 Series Aluminum Impact Single Door w/ Sidelight and Transom	NI012643	+80/-80	111" X 121"
	17379.3	5000 Series Aluminum Impact Single Door	NI012134 NI012134.01	+100/-100	39" X 97 1/16"
623 Vinyl SGD, HVHZ 2020 FBC Approved	17759.1	Series 623 Vinyl Fin Frame or Equal Leg Impact Sliding Glass Door, OXXO	NI012526	+65.0/-65.0PSF HVHZ Missile Level D	192" x 96"
	17759.2	Series 623 Vinyl Fin Frame or Equal Leg Impact Sliding Glass Door, OXO	NI011134	+50/-50	144" x 96"
623 HVHZ Vinyl Sliding Glass Door w/Impact Brackets 2020 FBC Approved	22034.1	623 HVHZ Vinyl Sliding Glass Door w/ Impact Brackets & Equal Leg Frame, XO	NI011134.04	+65/-65	96" x 96"
ALUMINUM MULLIONS (VINYL WINDOWS) 2020 FBC Approved	14632.1	X-MULLION (REINF.)	N/A	NON-HVHZ	SEE DRAWING
	14632.2	X-MULLION (NON-REINF.)	N/A	NON-HVHZ	SEE DRAWING
	14632.3	T MULLION (REINF.)	N/A	NON-HVHZ	SEE DRAWING
	14632.4	HORIZONTAL MULLION (NON-REINF.)	N/A	NON-HVHZ	SEE DRAWING
	14632.5	VERTICAL MULLION (REINF.)	N/A	NON-HVHZ	SEE DRAWING
	14632.6	VERTICAL MULLION (NON-REINF.)	N/A	NON-HVHZ	SEE DRAWING

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
"Bertha" 176 Non-HVHZ Aluminum Tube Mullion 2020 FBC Approved	17288.1	176 T Mullion Impact		See Approval Drawing	See Approval Drawing
	17288.2	176 Vertical Cross Mullion Impact		See Approval Drawing	See Approval Drawing
	17288.3	176 Vertical Mullion Impact		See Approval Drawing	See Approval Drawing
HVHZ ALUMINUM MULLIONS ALL WINDOWS (VERTICAL, HORIZONTAL, (BAY/BOW)) 2020 FBC Approved	17472.1	Clipped Vertical Bay/Bow Mullions	622-104 CAR	HVHZ	SEE DRAWING
	17472.2	Clipped Vertical and Horizontal Tube Mullions	622-101 CAR 622-102 CAR 622-103 CAR 622-105 CAR 622-106 CAR	HVHZ	SEE DRAWING
"Bertha" 176 HVHZ Aluminum Tube Mullion 2020 FBC Approved	21648.1	176 X-Mullion	622-109 CAR	See Approval Drawing	See Approval Drawing
	21648.2	176 T-Mullion	622-108 CAR	See Approval Drawing	See Approval Drawing
	21648.3	176 Vertical/Horizontal Mullion	622-107 CAR	See Approval Drawing	See Approval Drawing
142s VINYL PICTURE WINDOW 2020 FBC Approved	27088.1	142 Series Impact Picture Window	NI011183	+55/-55	50" x 63" Box Frame
	27088.2	142 Series Impact Picture Window	NI011183.01	+50/-50	64" x 84" Box Frame

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
650 Vinyl Sliding Glass Door & 7000 Series Sliding Glass Door 2020 FBC Approved	27113.1	650 Vinyl Sliding Glass Door Non-Impact	NI013954 NI013954.01 NI013954.02 NI013954.03 NI013954.04 NI013954.08	+80/-80 +75/-75 +80/-80 +70/-80 +70/-75 +80/-80	See Product Approval Engineering
	27113.2	650 Vinyl Sliding Glass Door Impact	NI013954.05 NI013954.06 NI013954.07 NI013954.09	+70/-70	See Product Approval Engineering
	27113.3	650 Vinyl Sliding Glass Door Impact HVHZ	NI013954.10 NI013954.11 NI013954.12	+70/-70	See Product Approval Engineering
	27113.4	650 Vinyl Sliding Glass Door Impact	NI013954.21 NI013954.22 NI013954.25	+45/-45	See Product Approval Engineering
	27113.5	650 Vinyl Sliding Glass Door Non-Impact	NI013954.18 NI013954.19 NI013954.20	+45/-45	See Product Approval Engineering
	27113.6	650 Vinyl Sliding Glass Door Impact	NI013954.15 NI013954.23	+50/-50	See Product Approval Engineering
	27113.7	650 Vinyl Sliding Glass Door Non-Impact	NI013954.17 NI013954.24	+55/-55	See Product Approval Engineering
	27113.8	650 Vinyl Sliding Glass Door Non-Impact	NI013954.03 NI013954..14	+70/-70	See Product Approval Engineering
	27113.9	650 Vinyl Sliding Glass Door Non-Impact	NI013954.01	+75/-75	See Product Approval Engineering
	27113.10	650 Vinyl Sliding Glass Door Non-Impact	NI013954 NI013954.13	+80/-80	See Product Approval Engineering
	27113.11	650 Vinyl Sliding Glass Door Non-Impact	NI013954.16	+55/-55	See Product Approval Engineering
	27113.12	7000 Series Sliding Glass Door	NI014145.01 NI014145	+60/-60	See Product Approval Engineering