

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
<u>143 Series Single Hung & FWI 1000 Series</u> Single Hung 2020 FBC Approved	14604.1	Series 1431 Non-Impact Vinyl Single Hung FIN	NI010607	+/-50	48"
	14604.2	Series 1441 Non-Impact Vinyl Single Hung FLANGE	NI010813	+/-50	54" x 72"
	14604.3	Series 2451 Impact Vinyl Single Hung FIN	NI013364.02	+/-50	48" x 72"
	14604.4	Series 2461 Impact Vinyl Single Hung FLANGE	NI013364.03	+/-50	53 1/8" x 72"
	14604.5	FWI1000 Aluminum Impact Single Hung	NI009020.01 NI009020.02 NI009020.03 NI010670.01 NI010670	+120/-150 +60/-60 +75/-75 +80/-100 100	+80/- +80/-
<u>"Bertha" 176</u> Single Hung Non-Impact 2020 FBC Approved	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</u> HUNG 2020 FBC Approved	16412.1	176 HVHZ Impact Vinyl Single Hung	NI012195	+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
	16412.5	HD 2451/2561 Series Impact Vinyl Single Hung (Flange & Fin)	NI011536	+65.0/-65.0	44" x 84" Box Frame

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
DOUBLE HUNG <u>2020 FBC Approved</u>	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
DOUBLE HUNG <u>2020 FBC Approved</u>	37968.1	SERIES 2561 DH (Vinyl IMP-FLANGE)		See Approval Drawing	24 ft ²
	37968.2	SERIES 1531 DH (Vinyl NI-FIN)		See Approval Drawing	24 ft ²
	37968.3	SERIES 1541 DH (Vinyl NI-FLANGE)		See Approval Drawing	24 ft ²
	37968.4	SERIES 2551 DH (Vinyl IMP-FIN)		See Approval Drawing	24 ft ²
Horizontal Sliding Windows <u>2020 FBC Approved</u>	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
Horizontal Sliding Windows <u>2020 FBC Approved</u>	15970.1	Series HR 1000S LMI Aluminum OX, XO HVHZ (Glass: 5/16" Lami & 5/8" IGU Lami w/ Annealed Glass)	NI011287	+/-60	74" x 76"
	15970.2	Series HRP 1000F LMI Aluminum XOX HVHZ Equal & Unequal Lites (Glass: 5/16" Lami & 5/8" IGU Lami w/ Annealed Glass)	NI011286 NI011286.01-R1	+/-60	111" x 76"

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
"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"
143 Vinyl HR Non-Impact Fin, 143 Vinyl HR Flange and 176 Bertha HR & HRP 2020 FBC Approved	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 HR w/PVB interlayer	NI015126.02	+/-60	73" x 62"
	16804.4	"Bertha" 176 HRP 1/3-1/3-1/3 XOX w/PVB	NI015126	+/-60	110" x 62"
	16804.5	"Bertha" 176 HRP 1/4-1/2-1/4 XOX w/PVB	NI015126.01	+/-60	110" 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"

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
FIXED WINDOWS <u>2020 FBC Approved</u>	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 PW (Vinyl IMP-FIN)	NI010610 NI010656	+-50	64" X 84"
	14608.8	SERIES 2466 PW (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 5Panels	NI009021.01	+90	236" x 120"
	14605.7	FD8100 LMI Bypass 135deg corners w/wout pockets Impact Only up to 8Panels	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 8Panels	NI010632.01 NI010632.02 NI010632	See Drawing for Design Pressure	384" x 120"
	14605.9	FD8100 LMI Bypass 90deg corners w/wout pockets Impact Only glass up to 8Panels	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 5Panels	NI009021.02 NI009021.03	+70	236" x 120"
	14605.12	FD8100 LMI Bypass, 135deg corner w/wout pockets, Impact Only glass up to 8Panels	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"
5000 Series Mullled Door 2020 FBC Approved	33391.1	5000 Series Aluminum French Doors Impact Mullled		See Approval Drawing	See Approval Drawing
623 Vinyl SGD, HVHZ Sliding Glass Door w/Impact Brackets 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"

TYPE	FL #	NAME	CERTIFICATE	DESIGN PRESSURE	MAX SIZE
<u>"Bertha" 176 Non-HVHZ Aluminum Tube Mullion</u> <u>2020 FBC Approved</u>	17288.1	176 T Mullion Impact	622-108 CAR	See Approval Drawing	See Approval Drawing
	17288.2	176 Vertical Cross Mullion Impact	622-109 CAR	See Approval Drawing	See Approval Drawing
	17288.3	176 Vertical Mullion Impact	622-107 CAR	See Approval Drawing	See Approval Drawing
<u>HVHZ ALUMINUM MULLIONS ALL WINDOWS (VERTICAL, HORIZONTAL, (BAY/BOW))</u> <u>2020 FBC Approved</u>	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
<u>"Bertha" 176 HVHZ Aluminum Tube Mullion</u> <u>2020 FBC Approved</u>	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
<u>142s VINYL PICTURE WINDOW</u> <u>2020 FBC Approved</u>	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

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164 Series Vinyl Picture Window 2020 FBC Approved	38677.1	164 Series Impact Vinyl Fixed Window	NI015207.02	+/-55	52" x 75"
	38677.2	164 Series Impact Vinyl Fixed Window	NI015207.03	+/-55	64" X 84"
	38677.3	164 Series Non-Impact Vinyl Fixed Window	NI015207	+/-80	52" x 75"
	38677.4	164 Series Non-Impact Vinyl Fixed Window	NI015207.01	+/-80	64" x 84"
164 Series Vinyl Single Hung Window 2020 FBC Approved	38678.1	164 Series Impact Vinyl Single Hung Window	NI015208.02 NI015208.03	+/-50	52" x 75"
	38678.2	164 Series Impact Vinyl Single Hung Window ORIEL	NI015208.01	+50/-65	52" x 75"
	38678.3	164 Series Non-Impact Vinyl Single Hung Window	NI015208	+/-50	52" x 75"
	38678.4	164 Series Impact Vinyl TWIN Single Hung Window	NI015208.05	+/-50	72" x 75"
	38678.5	164 Series Non-Impact Vinyl TWIN Single Hung Window	NI015208.04	+/-50	72" x 75"
164 Series Vinyl Horizontal Sliding Window 2020 FBC Approved	38679.1	164 Series Impact Vinyl Horizontal Sliding Window 3-3-3	NI015209.05	+/-50	111" x 54"
	38679.2	164 Series Impact Vinyl Horizontal Sliding Window 4-2-4	NI015209.08	+/-50	111" x 63"
	38679.3	164 Series Non-Impact Vinyl Horizontal Sliding Window	NI015209.01	+/-50	74" x 63"
	38679.4	164 Series Non-Impact Vinyl Horizontal Sliding Window 3-3 and 4-2-4	NI015209.02 NI015209.04	3-3-3 = +/-65 4-2-4 = +/-55	111" x 54"
	38679.5	164 Series Non-Impact Vinyl Horizontal Sliding Window 3-3 and 4-2-4	NI015209.06 NI015209.07	+/-40	111" x 63"
	38679.6	164 Series Non-Impact Vinyl Horizontal Sliding Window	NI015209	+/-50	74" x 63"
4500 Series Impact Vinyl Outswing French Door 2020 FBC Approved	38696.1	4500 Series Impact Vinyl Outswing French Door	NI015148	+/-65	Double = 74" x 98" Single = 40 1/8" x 98"