

CUSTOM SERIES

FIXED WOOD WINDOW

FLORIDA STATE APPROVAL

CODE VERSION: FLORIDA BUILDING CODE 2023 - 8th EDITION
APPROVED FOR USE INSIDE HVHZ AND OUTSIDE HVHZ
CATEGORY: WINDOWS -- SUBCATEGORY: FIXED
IMPACT RESISTANT: LARGE MISSILE

GENERAL NOTES:

- 1- CODE: THIS PRODUCT HAS BEEN TESTED UNDER PROTOCOLS TAS 201, 202 AND 203 AND DESIGNED IN ACCORDANCE WITH THE FBC 2023 - 8th EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS A FIXED WOOD TYPE WINDOW DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE & SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 3- POSTING: PRODUCT SHALL BE LABELED AS PER FBC SECTION 1703.5. THE PERMANENT LABEL, MARKING OR ETCHING SHALL PROVIDE TRACEABILITY TO THE MANUFACTURER AND PRODUCT.
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-22 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES HEREIN SPECIFIED. THE ULTIMATE DESIGN PRESSURES, AS DETERMINED FROM ASCE 7-22, ARE PERMITTED TO BE MULTIPLIED BY 0.6 AS PER THE FLORIDA BUILDING CODE.
- 5- MATERIAL:
 - 5.1- ALL WOOD TO BE WITH MINIMUM 0.55 SPECIFIC GRAVITY CORRECTED FOR 12% MOISTURE CONTENT PER NDS 0.58 RAW. DENSITY OF BUTCHER BLOCK CONSTRUCTION WITH VENEER 0.535 g/cm³.
 - 5.2- GLAZING: LAMINATED IMPACTED RATED AS SPECIFIED IN THIS APPROVAL
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

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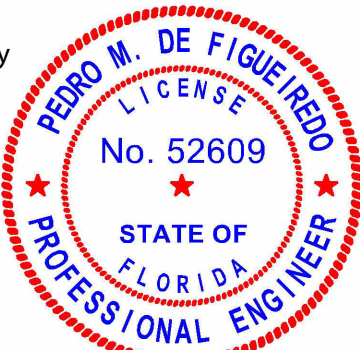
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Pedro
Figueiredo

Digitally signed by
Pedro Figueiredo
Date: 2023.10.21
09:51:55 -04'00'

DIGITALLY SIGNED FOR 6 PAGES

THIS ITEM HAS BEEN DIGITALLY SIGNED AND
SEALED BY PEDRO DE FIGUEIREDO, PE 52609 ON
THE DATE INDICATED HERE.



Pedro De Figueiredo
PE 52609
10/20/2023

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ENGINEER SEAL
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PRODUCT:
CUSTOM SERIES
FIXED WINDOW
LARGE & SMALL MISSILE
IMPACT RATED

MANUFACTURER:
CUSTOM DOORS
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368
FAX: (877) 839-2220

SCALE:
NA

DATE:
10/20/2023

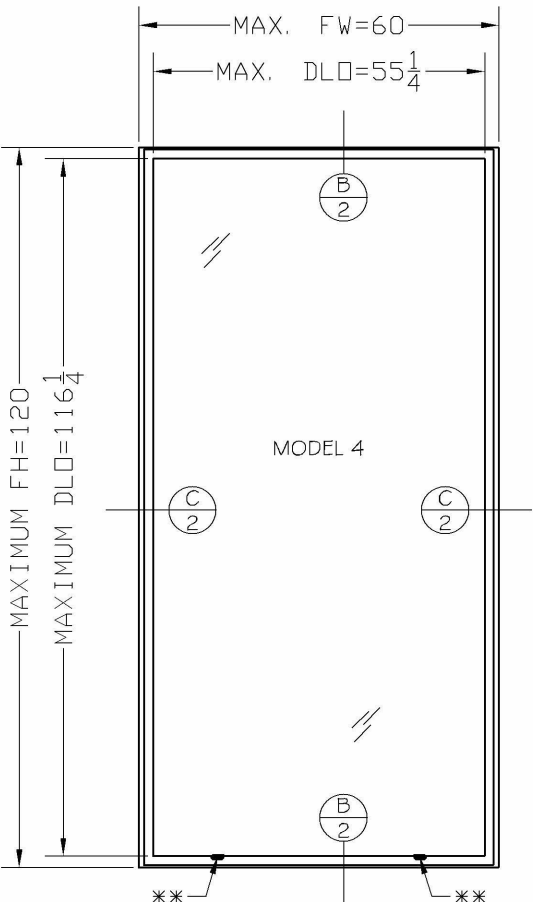
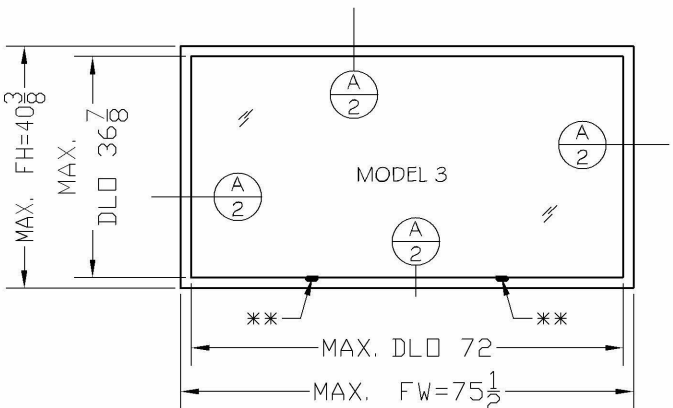
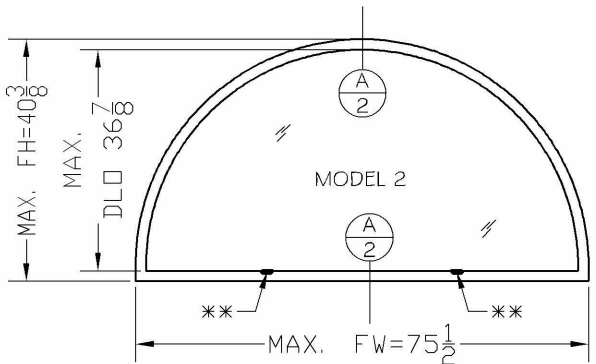
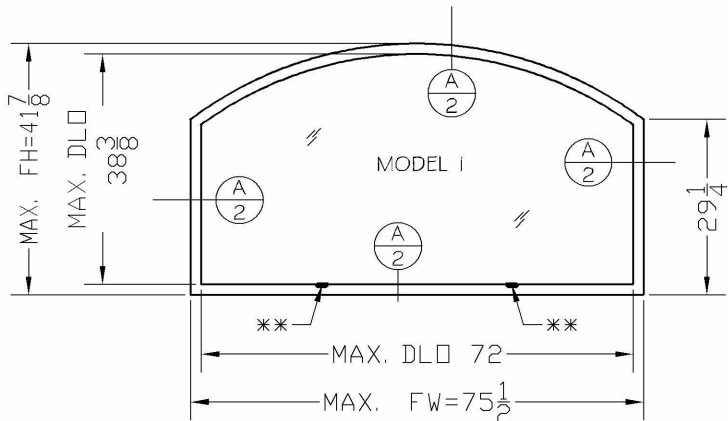
DRAWING #
23-203

SHEET
1 OF 6

APPROVED UNITS

** FBC SECTION 2411.3.3.1 FOR EACH FIXED GLASS SILL WITH WIDTH MORE THAN 3 FEET TO HAVE TWO APPROVED NEOPRENE SETTING BLOCKS 70-90 SHORE A DUROMETER HARDNESS

WINDOWS CAN
BE ROTATED



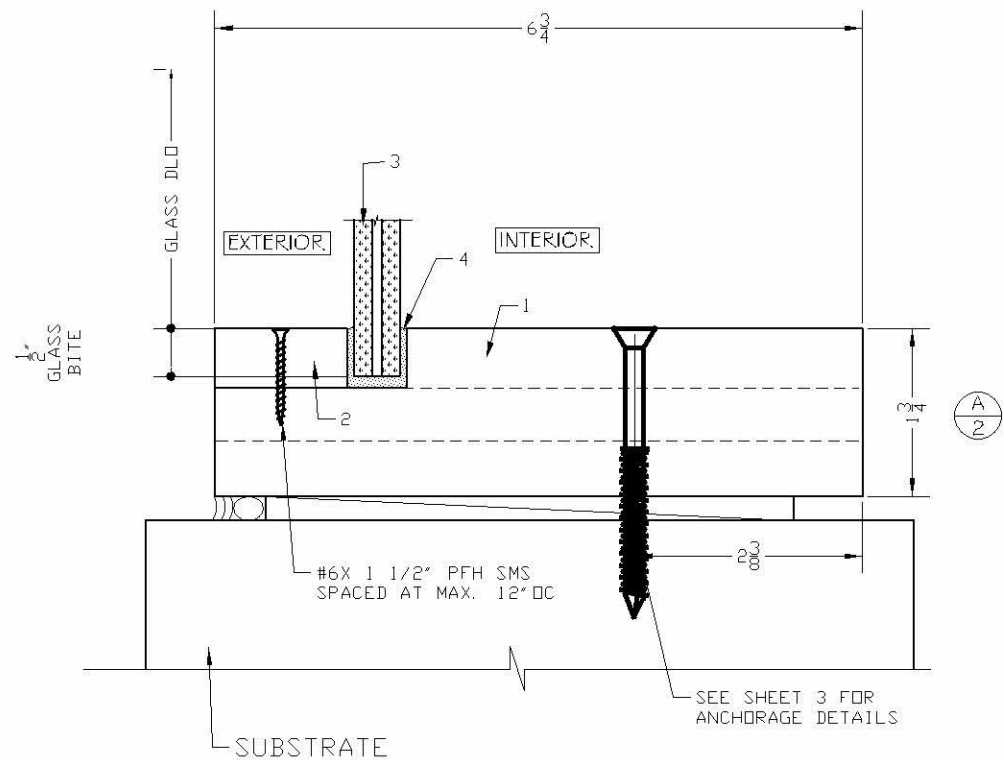
WIND STRUCTURAL: PD= +65 PSF, -65 PSF
WIND CYCLIC: PD= +65 PSF, -65 PSF
IMPACT RATING: LARGE & SMALL MISSILE

WATER RESISTANCE: ASTM E331, 11.25 PSF
(15% OF +75 PSF)
AIR INFILTRATION: ASTM E283
GLAZING: ASTM E1300

WIND STRUCTURAL: PD= +75 PSF, -75 PSF
WIND CYCLIC: PD= +75 PSF, -75 PSF
IMPACT RATING: LARGE & SMALL MISSILE

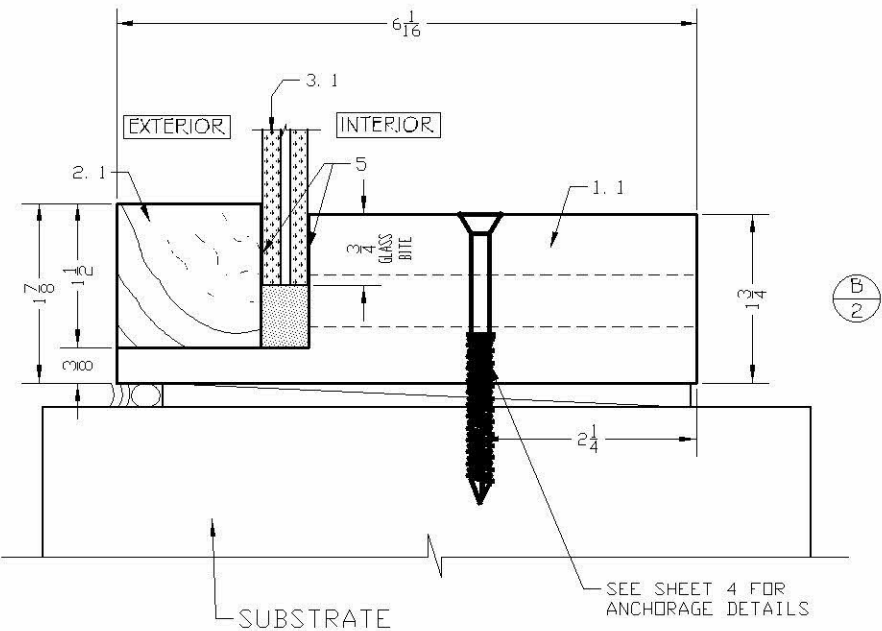
WATER RESISTANCE: ASTM E331, 11.3 PSF
(15% OF +75 PSF)
AIR INFILTRATION: ASTM E283
GLAZING: ASTM E1300

PRODUCT TYPICAL SECTION
HEADER / SILL / JAMBS
MODELS 1, 2 AND 3



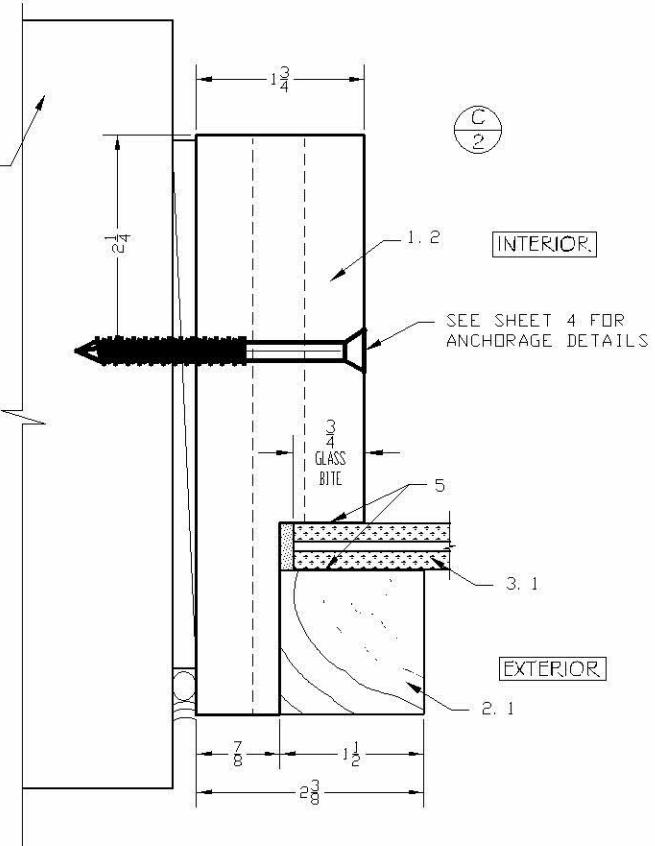
GLAZING BEAD SET IN BEAD SILICONE AND SECURED WITH:
#6 X 1 1/2"PFH SMS SPACED AT MAXIMUM 16" OC.

PRODUCT TYPICAL SECTION
HEADER / SILL - MODEL 4



PRODUCT TYPICAL SECTION
JAMBS - MODEL 4

GLAZING BEAD SET IN BEAD SILICONE AND SECURED WITH:
1" FINISHED NAILS FROM 6" FROM ENDS AND SPACED AT
MAXIMUM 6" OC PLUS
#10X2" WOOD SCREWS FROM 5" FROM ENDS AND SPACED
AT MAXIMUM 16" OC.



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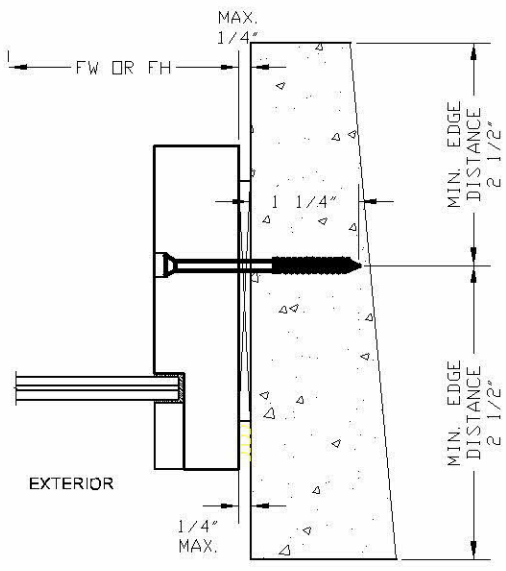
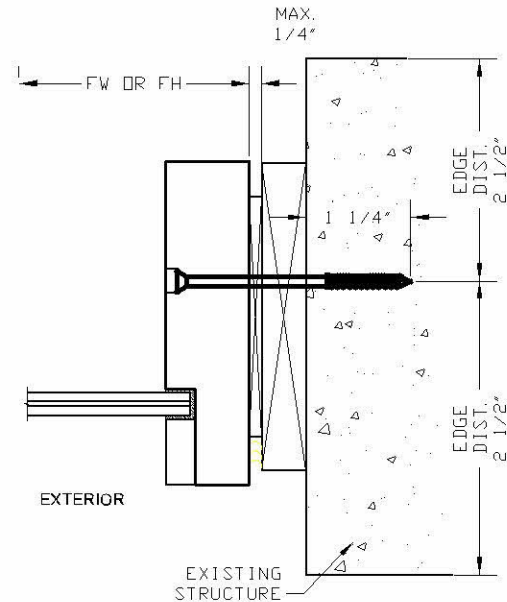
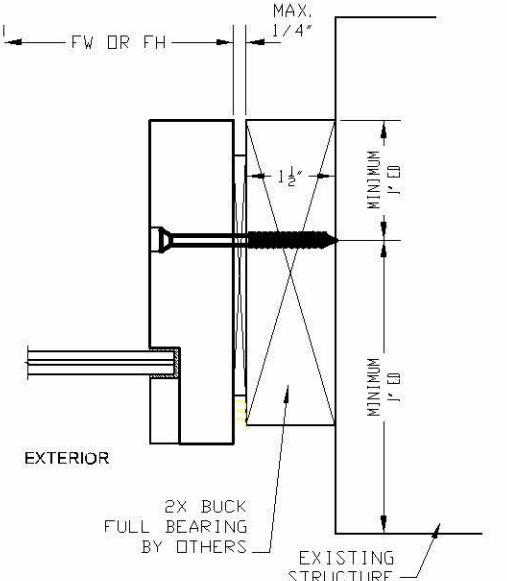
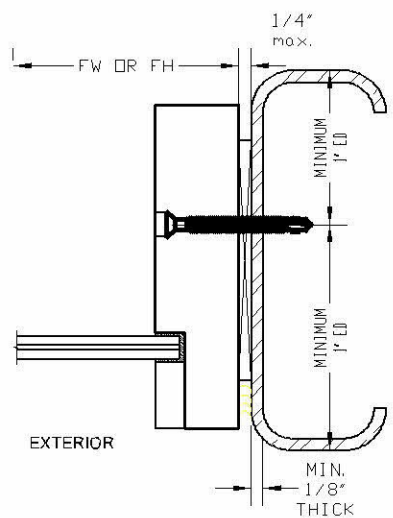
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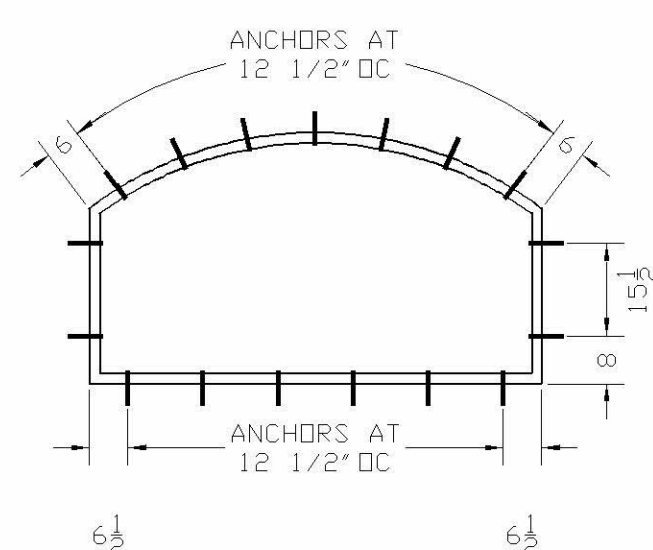
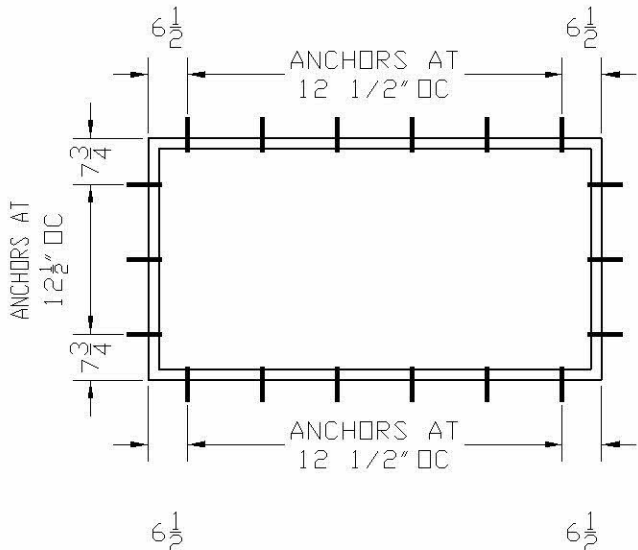
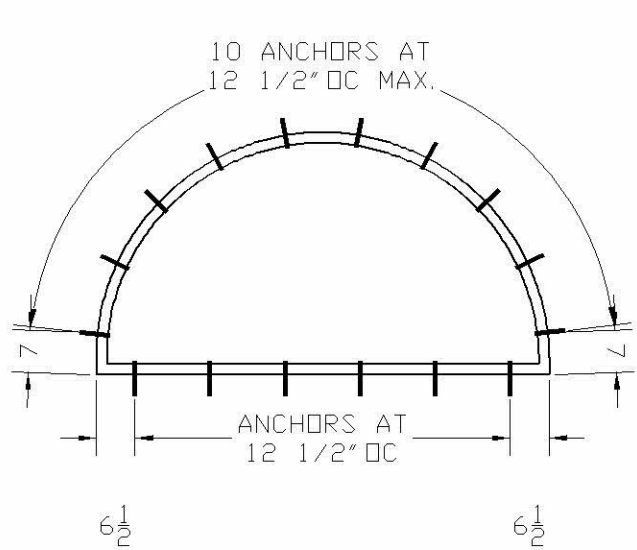
MANUFACTURER:
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222 NE 27TH STREET
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SHEET
2 OF 6

SETTING BLOCKS ARE REQUIRED FOR WINDOW SILL OVER 36" WIDE

FRAMING ANCHORAGE MODELS 1, 2 AND 3

FRAMING ANCHORAGE DETAILS			
			
OPTION 1 FRAME MOUNTED DIRECTLY INTO SUBSTRATE WITH MAXIMUM 1/4" SHIM AND 1/4" TAPCONS BY ITW BUILDDEX WITH 1 3/4" MIN. EMBEDMENT INTO GF MASONRY (JAMBS) OR INTO 3000 PSI CONCRETE. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT)	OPTION 2 FRAME MOUNTED WITH MAXIMUM 1/4" SHIM AND MAXIMUM 1X PT CONTINUOUS WOOD SPACER SECURED BY 1/4" TAPCONS BY ITW BUILDDEX WITH 1 3/4" MIN. EMBEDMENT INTO GF MASONRY (JAMBS) OR INTO 3000 PSI CONCRETE. FOR INSTALLATION INTO METAL STRUCTURES USE 1/4-20 HWH GRADE 5 SDS (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT) 1X BUCK TO BE PROPERLY DESIGNED BY OTHERS.	OPTION 3 FRAME MOUNTED DIRECTLY INTO 2X PT WOOD BUCK (SG >= 0.55) W/ MAX. 1/4" SHIM AND SECURED BY #14 SS WOOD SCREWS OR 1/4" TAPCONS W/ 1 3/8" MIN. EMBEDMENT. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT) 2X BUCK TO BE PROPERLY DESIGNED BY OTHERS.	OPTION 4 FRAME MOUNTED DIRECTLY INTO METAL STRUCTURES W/ MAX. 1/4" SHIM. 1/4"-20 PFH SDS GR 5 INTO MIN. 1/8" A36 STEEL OR 6063-T6 ALUMINUM. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT)



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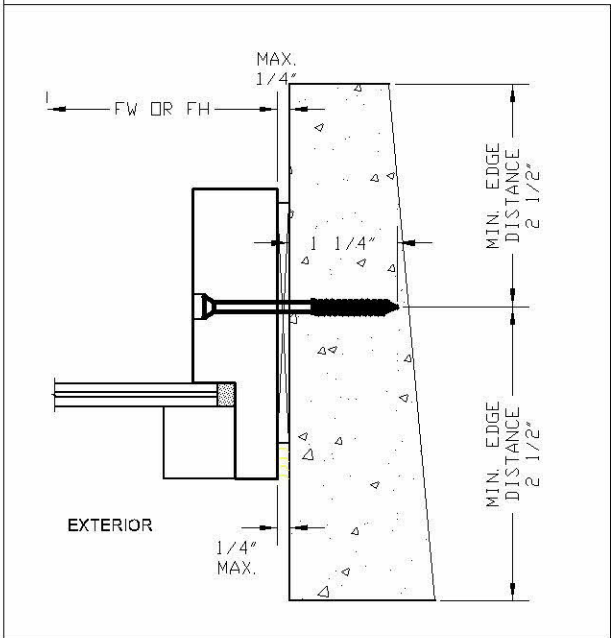
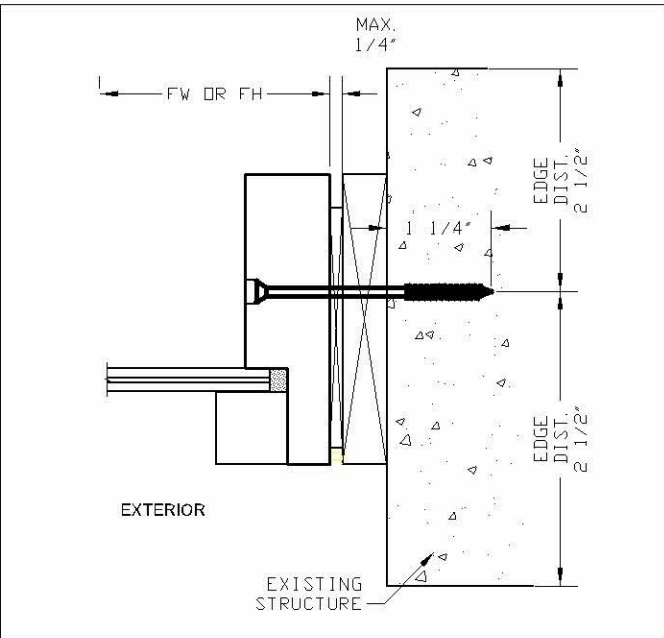
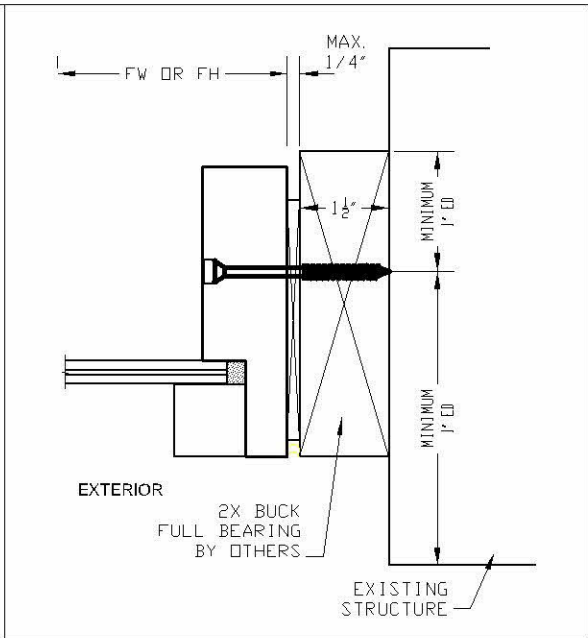
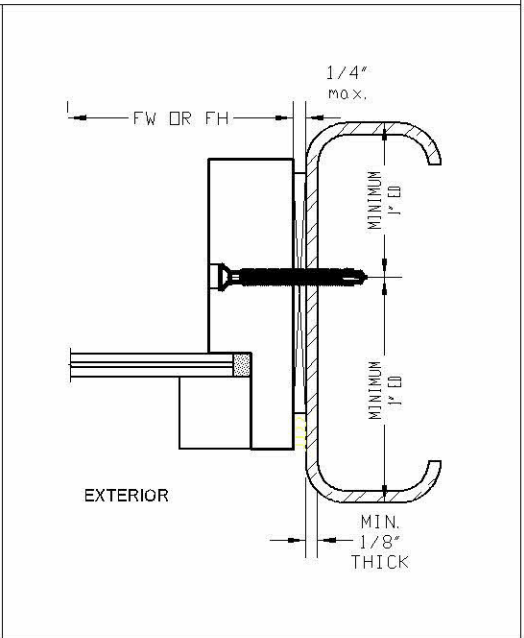
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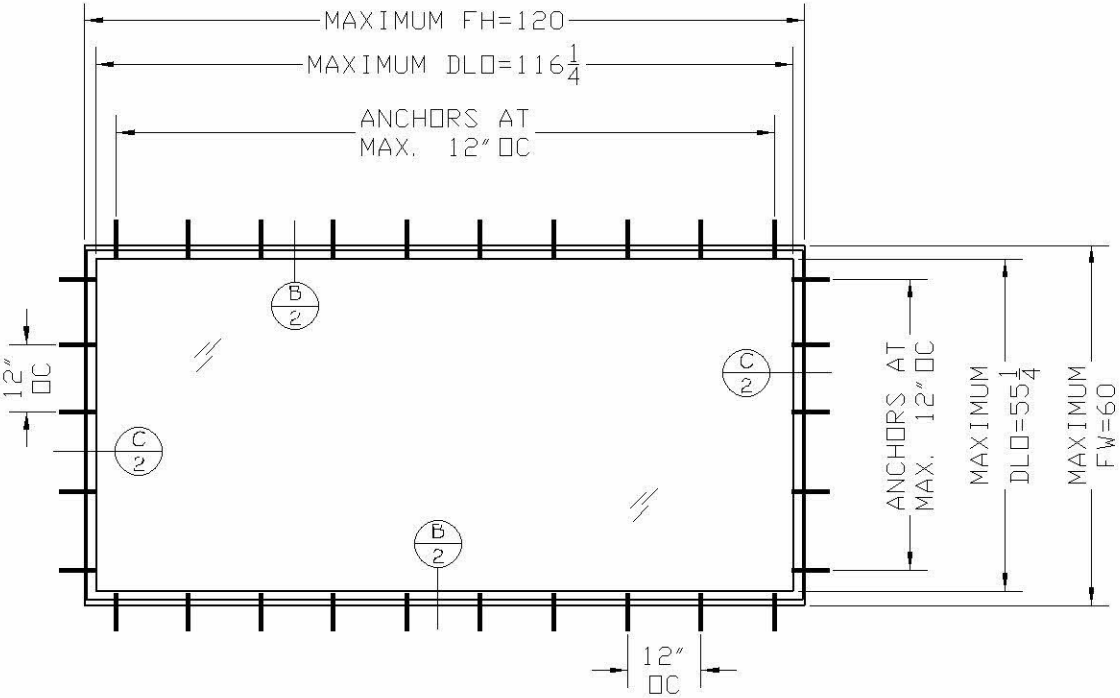
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FRAMING ANCHORAGE MODEL 4

FRAMING ANCHORAGE DETAILS

			
OPTION 1 FRAME MOUNTED DIRECTLY INTO SUBSTRATE WITH MAXIMUM 1/4" SHIM AND 1/4" TAPCONS BY ITW BUILDTEX WITH 1 3/4" MIN. EMBEDMENT INTO GF MASONRY (JAMBS) OR INTO 3000 PSI CONCRETE (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT)	OPTION 2 FRAME MOUNTED WITH MAXIMUM 1/4" SHIM AND MAXIMUM 1X PT CONTINUOUS WOOD SPACER SECURED BY 1/4" TAPCONS BY ITW BUILDTEX WITH 1 3/4" MIN. EMBEDMENT INTO GF MASONRY (JAMBS) OR INTO 3000 PSI CONCRETE. FOR INSTALLATION INTO METAL STRUCTURES USE 1/4-20 HWH GRADE 5 SDS. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT) 1X BUCK TO BE PROPERLY DESIGNED BY OTHERS.	OPTION 3 FRAME MOUNTED DIRECTLY INTO 2X PT WOOD BUCK (SG>=0.55) W/ MAX. 1/4" SHIM AND SECURED BY #14 SS WOOD SCREWS OR 1/4" TAPCONS W/ 1 3/8" MIN. EMBEDMENT. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT) 2X BUCK TO BE PROPERLY DESIGNED BY OTHERS.	OPTION 4 FRAME MOUNTED DIRECTLY INTO METAL STRUCTURES W/ MAX. 1/4" SHIM. 1/4"-20 PFH SDS GR. 5 INTO MIN. 1/8" A36 STEEL OR 6063-T6 ALUMINUM. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT)

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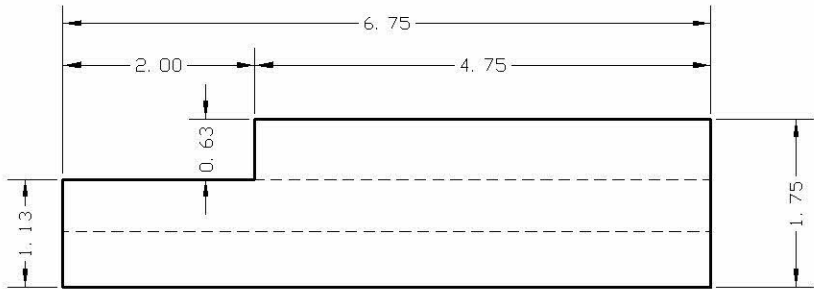
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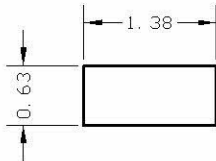


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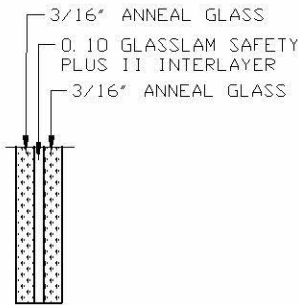
PRODUCT COMPONENTS
MODELS 1, 2 AND 3



1- HEADER / JAMB / SILL
LAMINATED MAHOGANY WOOD
OR SOLID MAHOGANY WOOD



2- GLAZING STOP
SOLID MAHOGANY WOOD



3- IMPACT GLASS
7/16" ANNEAL LAMINATED

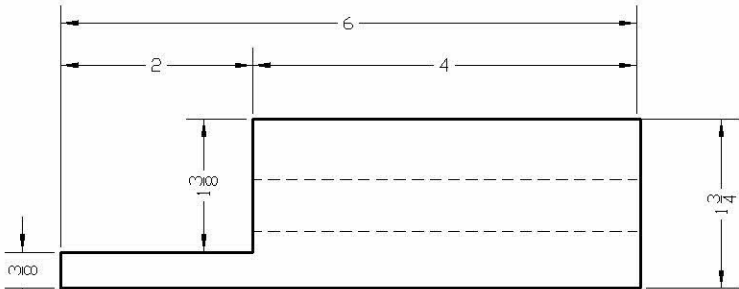
BILL OF MATERIALS:

PART#	DESCRIPTION	MATERIAL
1	6 5/8 X 1 3/4 FRAME	LAMINATED/ SOLID WOOD
2	1 3/8 X 5/8" GLASS STOP	SOLID WOOD
3	1/2" IMPACT GLASS	LAMINATED ANNEAL GLASS
4	DOW CORNING 995	STRUCTURAL SILICONE

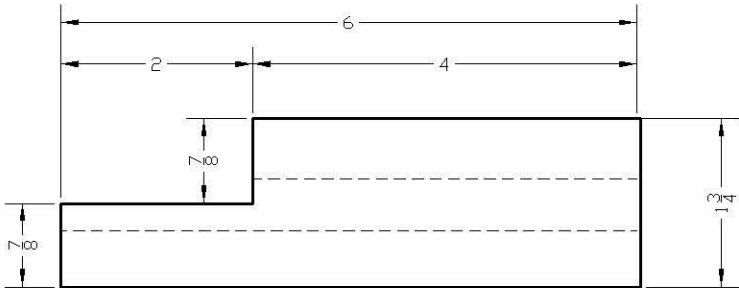
ASSEMBLY SCREWS:

PART#	DESCRIPTION	MATERIAL
S1	#10 X 3" PFH SM5	ZINC PLATED STEEL
S4	#6 X 1 1/2" PFH SM5	ZINC PLATED STEEL

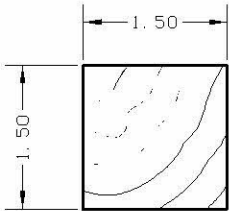
PRODUCT COMPONENTS
MODEL 4



1.1- HEADER AND SILL
LAMINATED MAHOGANY WOOD
OR SOLID MAHOGANY WOOD



1.2- JAMBS
LAMINATED MAHOGANY WOOD
OR SOLID MAHOGANY WOOD



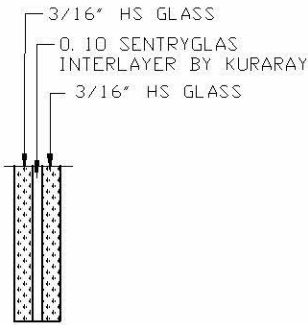
2.1- GLAZING STOP
SOLID MAHOGANY WOOD

BILL OF MATERIALS:

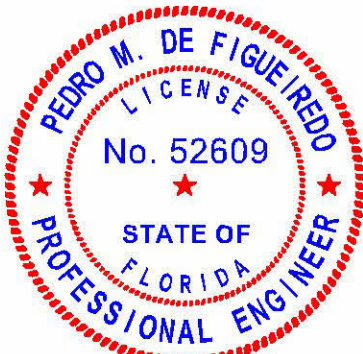
PART#	DESCRIPTION	MATERIAL
1.1	6 X 1 3/4 HEADER & SILL FRAME	LAMINATED/ SOLID WOOD
1.2	6 X 1 3/4 JAMB FRAME	LAMINATED/ SOLID WOOD
2.1	1 1/2 X 1 1/2" GLASS STOP	SOLID WOOD
3.1	1/2" IMPACT GLASS	LAMINATED HS GLASS
4	DOW CORNING 995	STRUCTURAL SILICONE

ASSEMBLY SCREWS / NAILS:

PART#	DESCRIPTION	MATERIAL
S1	#10 X 3" PFH SM5	ZINC PLATED STEEL
S2	#10 X 2" PFH SM5	ZINC PLATED STEEL
N1	1" FINISHED NAILS	GALVANIZED



3.1- IMPACT GLASS
7/16" HS LAMINATED



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WINDOW FRAME ASSEMBLY
MODEL 1, 2, 3 AND 4



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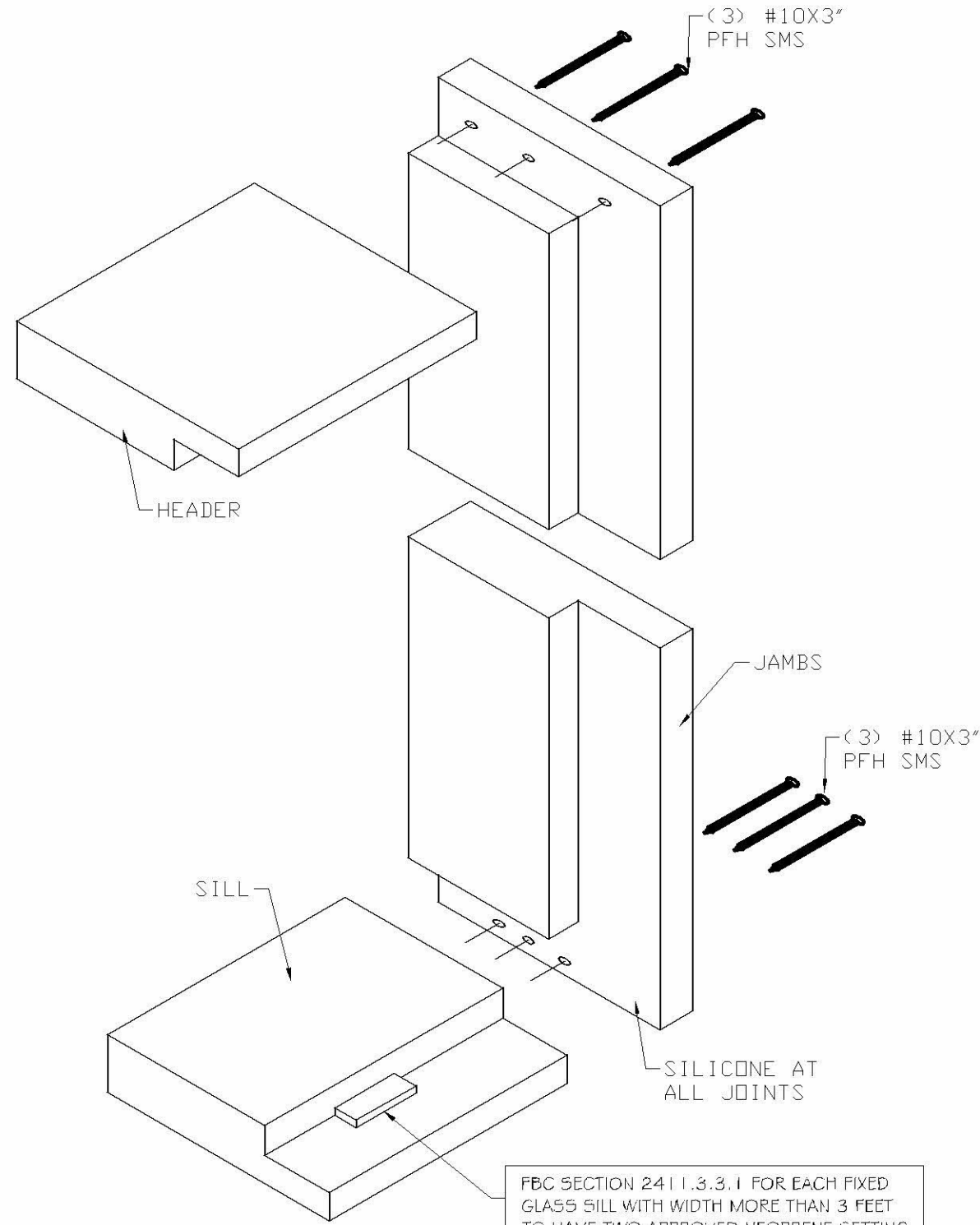
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FRAME CONSTRUCTION:

THE JAMBS WERE RABBIT AND BUTT JOINED WITH
SILL AND HEADER USING (3) #10X3" PFH SMS IN
EACH CORNER AND SEALED USING SILICONE

SEALANT:

EXTERIOR PERIMETER WAS CAULKED WITH SIKAFLEX-1A SILICONE
SEALANT. THE CUSTOM GLUE PART #M3 WAS USED TO GLUE THE
JOINTS AS WELL AS BUTCHER BLOCK CONSTRUCTION



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