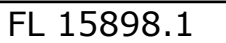
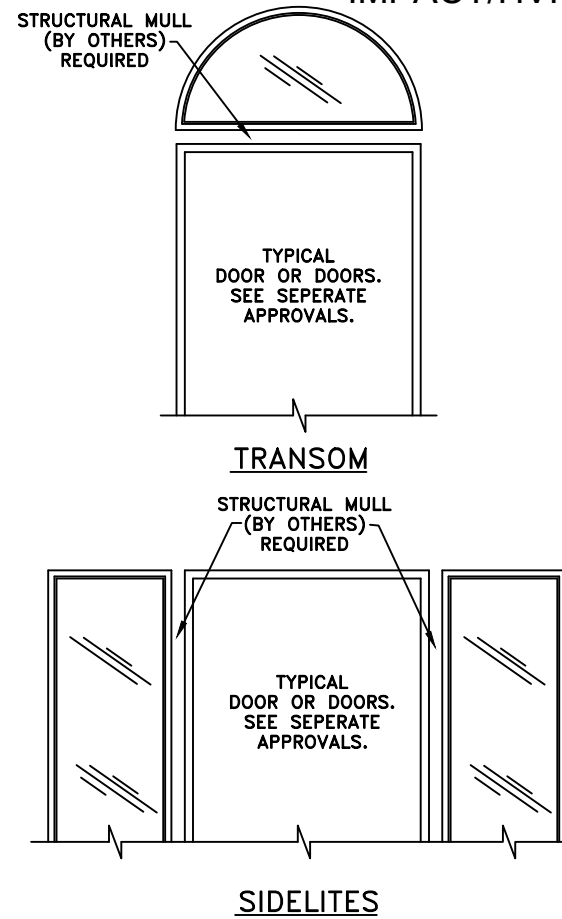


A circular professional engineer seal for Frank L. Bennardo. The outer ring contains the text "FRANK L. BENNARDO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom, also separated by two stars. The center of the seal displays the license number "No 0046549". A purple ink scribble is present over the bottom portion of the seal, partially obscuring the "STATE OF FLORIDA" text.

FRANK BENNARDO, P.E.
PE# 0046549 CA# 0885

DIRECT SET FIXED WOOD WINDOW
LARGE MISSILE IMPACT RESISTANT - MISSILE LEVEL "D"
IMPACT/HVHZ



LAG DESIGN OF FLORIDA
3850 BYRON DR. 1 & 2
RIVIERA BEACH, FL 33404
COMPANY LINE 4

STORMLINE WOOD ENTRY DOORS
FLORIDA APPROVAL FL# 15919.1
FLORIDA BUILDING CODE EIGHTH EDITION (2020)

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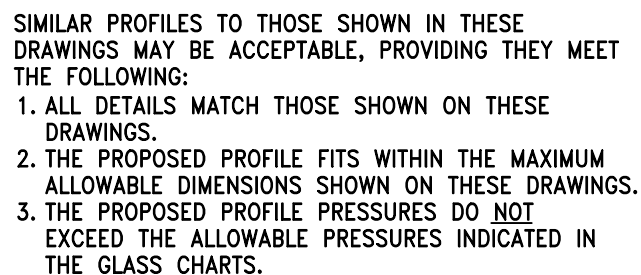
23-63370

SCALE: NTS UNLESS NOTED

01 03

1. THIS SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2020) PER
 - a. TAS 201 / 202 / 203FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ). AS QUALIFIED IN TEST REPORT #0210-0509-03 BY HURRICANE TEST LABORATORY, INC.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
4. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE ALL WOOD SUBSTRATES TO BE NO. 2 MAHOGONY IN DRY CONDITIONS OR BETTER.
5. GLAZING ILLUSTRATED HEREIN UTILIZES GLASSLAM SAFETY-PLUS II GLASS INTERLAYER BY POLYMER EXTRUSION TECHNOLOGY, INC. (NOA #16-0208.12).
6. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
7. THE CONTRACTOR IS RESPONSIBLE TO ISOLATE MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
8. ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
9. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
10. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
11. UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.

GLAZING SCHEDULE (LARGE MISSILE IMPACT)			
TYPE A	7/16" LAMINATED "SAFETY-PLUS II" 3/16" ANNEALED WITH 0.1" RESIN W/PET FILM BY GLASS LAM-NGI INC. 3/16" ANNEALED		
TYPE B	7/16" LAMINATED "SAFETY-PLUS II" 3/16" TEMPERED WITH 0.1" RESIN W/PET FILM BY GLASS LAM-NGI INC. 3/16" TEMPERED		
TYPE C	7/16" LAMINATED 3/16" / 3/16" ANNEALED WITH .090 SOLUTIA SAFLEX / KEEP SAFE GLAZED WITH 1/8"x 5/8" BEAD OF DOWSIL 995 EACH SIDE.		
TYPE D	7/16" LAMINATED "SAF-GLASS" 3/16" / 3/16" ANNEALED WITH 0.070" POLYCARB BY SECURITY IMP'T. GLASS GLAZED WITH 1/8" x 5/8" BEAD OF GE 2801 EACH SIDE		
TYPE E	7/16" LAMINATED 3/16" / 3/16" ANNEALED WITH .0100" UVEKOL INTERLAYER BY SMITH MOUNTAIN GLAZED WITH 1/8" x 5/8" BEAD OF DOWSIL 995 EACH SIDE		
SEE LOAD TABLES FOR ALLOWABLE WIND PRESSURES BASED ON WINDOW SIZE			
TYPE A	WATER TEST 8.25 psi	TYPE B	WATER TEST 10.5 psi



SCAN HERE:

FOR HELPFUL RESOURCES, SITE
SPECIFIC JOB ORDERING & MORE
INFORMATION ABOUT THIS PRODUCT &
RELATED SERVICES

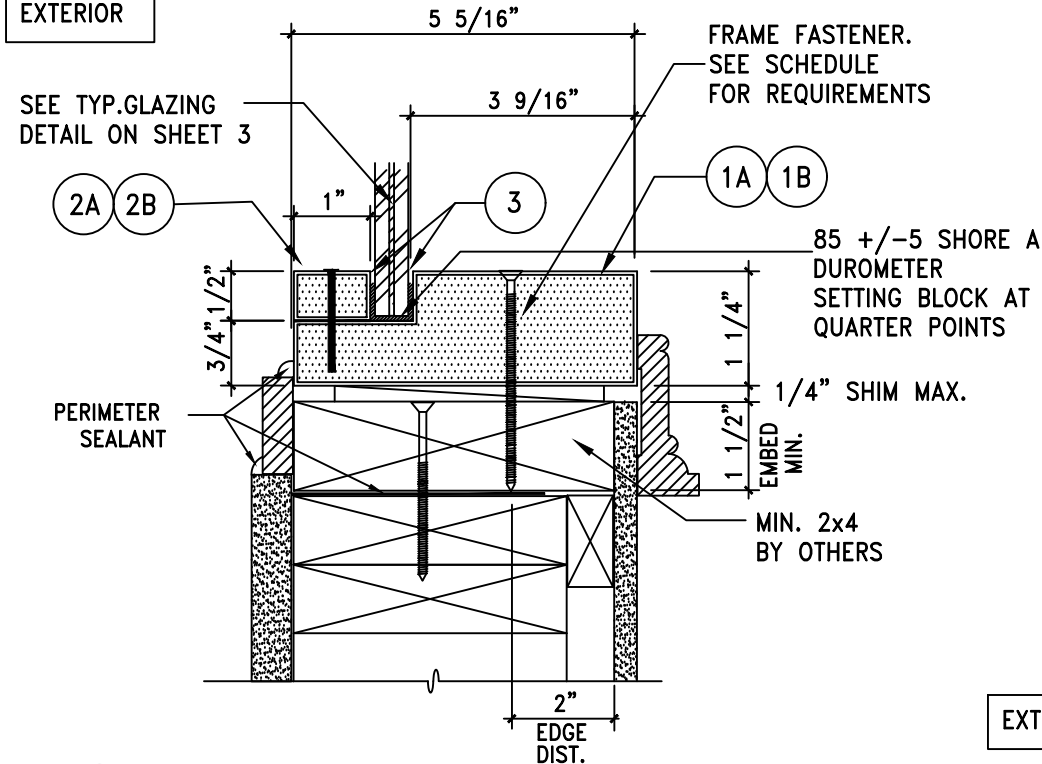


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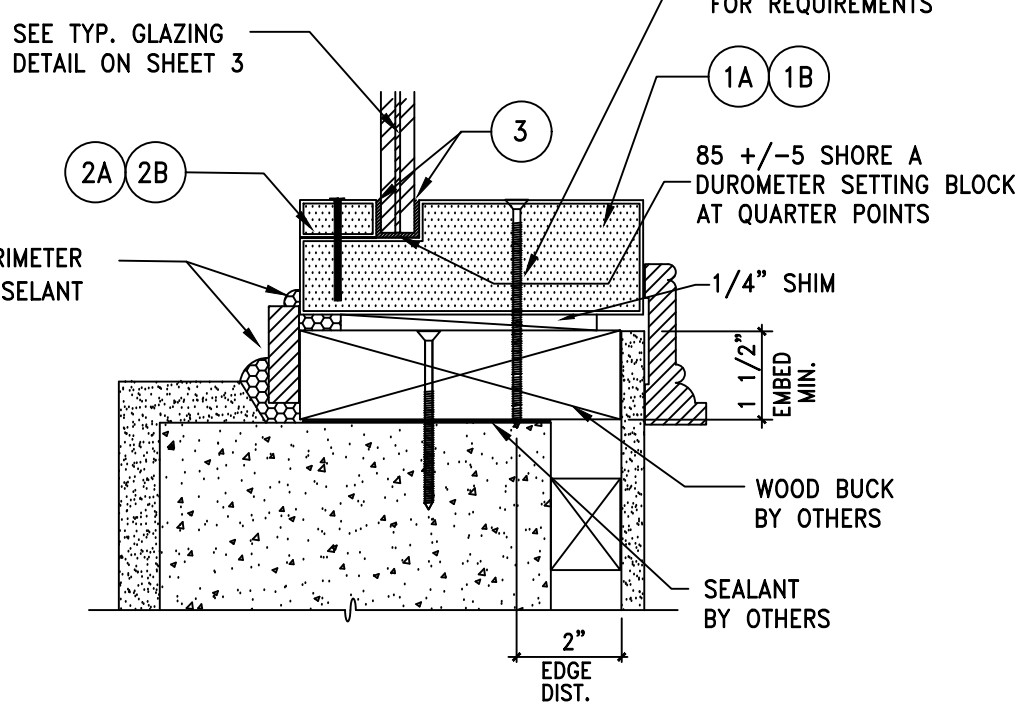
ARIEL

EXTERIOR



1 TYP. JAMB HEAD AND SILL SECTION
2 AT WOOD FRAME

EXTERIOR



1 TYP. JAMB HEAD AND SILL SECTION
2 AT WOOD BUCK

SEE TYP. GLAZING
DETAIL ON SHEET 3

EXTERIOR

PERIMETER
SELANT

EXTERIOR

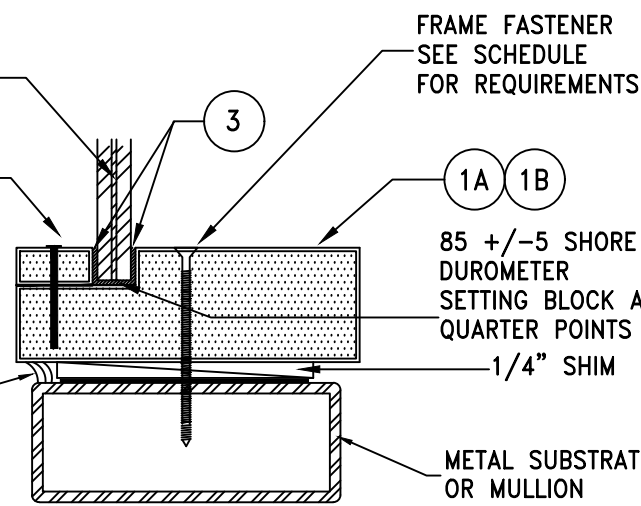
SEE TYP. GLAZING
DETAIL ON SHEET 3

PERIMETER
SELANT

1 TYP. JAMB HEAD AND SILL SECTION
2 AT CONCRETE DIRECT MOUNT

ANCHOR SCHEDULE			
OPENING TYPE (SUBSTRATE)	FRAME ANCHOR REQUIREMENT TABLE		
	JAMB TO OPNG. FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
2x WOOD BUCK	#12 WOOD SCREWS	1 1/2"	2"
CMU/CONCRETE	1/4"Ø HILTI KWIK CON II +	1 3/4"	1 1/2"
STEEL/ALUMINUM 1/8" THK.	#12 S.M.S.	-	-

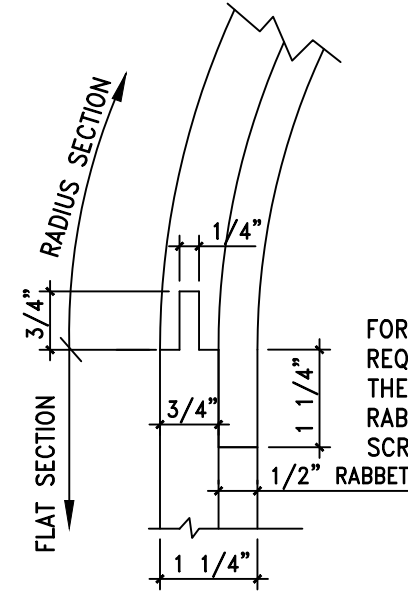
NOTE: SPECIFIED ANCHOR EMBEDMENT SHALL BE INTO BASE MATERIAL BEYOND WALL
FINISH OR STUCCO.



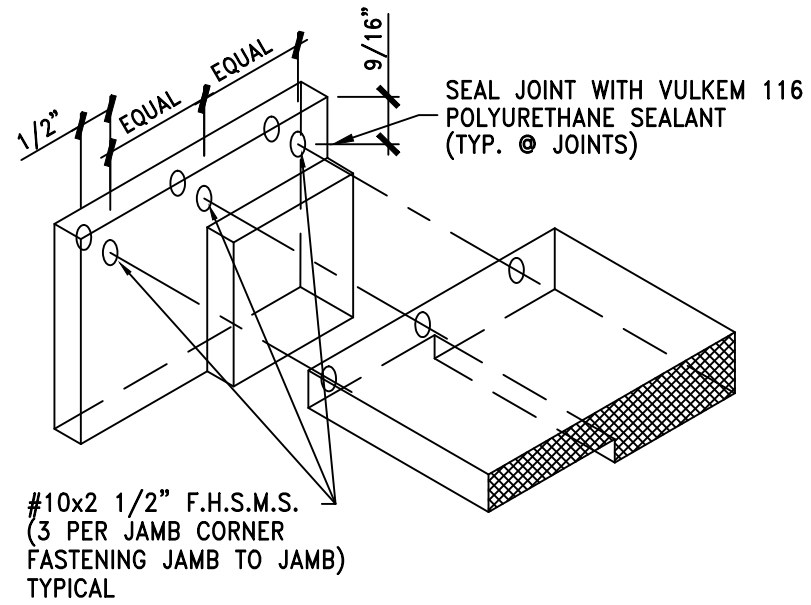
1 TYP. JAMB HEAD AND SILL SECTION
2 AT STRUCTURAL MULLION

FRAME FASTENER
SEE SCHEDULE
FOR REQUIREMENTS

85 +/-5 SHORE A
DUROMETER
SETTING BLOCK AT
QUARTER POINTS
1/4" SHIM
METAL SUBSTRATE
OR MULLION



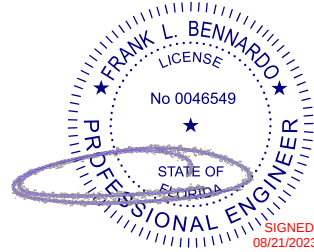
ALTERNATE JOINT CONSTRUCTION DETAIL
SINGLE RABBETED JAMB INTERSECTION AT SIDE
JAMB w/FULL RADIUS HEAD JAMB (N.T.S.)



TYP. FRAME CORNER DETAIL
(ALL MEETING JAMB MEMBERS TO BE
SCREWED AT ALL CORNERS) (N.T.S.)

NOTE: SUBSTRATES MUST BE
WATERPROOFED OR FLASHED
BY CONTRACTOR

FRANK BENNARDO, P.E.
PE# 0046549 CA# 0885



FL

FL 15898.1

**ENGINEERING
EXPRESS**
POSTAL ADDRESS:
401 W. ATLANTIC AVE R10 BOX 219
DELRAY BEACH, FL 33444
ENGINEERINGEXPRESS.COM

LAG DESIGN OF FLORIDA

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STORMLINE WOOD ENTRY DOORS
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DRWN	CHKD	DATE
JEM	AJP	10/14/20
AMZ	SQ	08/21/23
INIT	ISSUE	
FBC	2023 UPDATE	

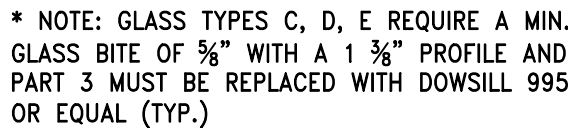
23-63370

SCALE: NTS UNLESS NOTED

02 OF 03

PERED)
NEALED)

* WOOD USED WITH TEST WAS GRADE 2 MAHOGONY. WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, OR ANY WOOD STRONGER.



* WOOD USED WITH TEST WAS GRADE 2 MAHOGONY. WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, OR ANY WOOD STRONGER.

FL

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