

RATED FOR IMPACT RESISTANCE

VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

THIS IS A NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

GENERAL NOTES:

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE NINTH EDITION (2026), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
2. THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT RESISTANCE (LEVEL D) SHUTTER PRODUCT FOR PROTECTION FROM WIND-BORNE DEBRIS.
3. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
4. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE-SPECIFIC WIND LOAD REQUIREMENTS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7 AND THE GOVERNING BUILDING CODE BY SEPARATE ENGINEERING CERTIFICATION AND SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITYB VALUE LISTED HEREIN FOR ANY ASSEMBLY WITHIN THE LIMITATIONS STATED HEREIN.
5. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
6. SYSTEMS SHALL BE AS NOTED HEREIN. ALL REFERENCES TO EXTRUSIONS & INSTALLATIONS SHALL CONFORM TO THAT OF MANUFACTURER'S SPECIFICATIONS AS SUMMARIZED HEREIN.
7. 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.
8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
9. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION IN.C, AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES.
10. FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.
11. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS

FOR FASTENER INSTALLATION INSTRUCTIONS.

12. THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED TO THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER
13. FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
14. ENGINEER SEAL AFFIXED HERETO VALIDATE 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.
15. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
16. 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. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO EXISTING STRUCTURE.
17. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY & TEMPER, UNLESS NOTED OTHERWISE.
18. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
19. UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION:

IMPACT TECHNOLOGY PRODUCTS, INC
PORT ST LUCIE, FL
TAS 201, 202, 203 & MISSILE LEVEL D
FLORIDA PRODUCT APPROVAL NUMBER

20. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI ALL 3/16"Ø OR 1/4"Ø POP RIVETS SHALL BE 5056-H32 ALUMINUM ALLOY OR STRONGER.
21. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.
22. ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
23. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

DESIGN PRESSURE NOTE:

DESIGN PRESSURE CAPACITY: POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE ASCE 7 AND GOVERNING CODE. SITE SPECIFIC PRESSURES SHALL BE LESS THAN OR EQUAL TO THE LISTED POSITIVE OR NEGATIVE DESIGN PRESSURE VALUES.

TERMINOLOGY:

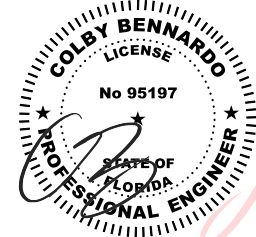
THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

"ADDTL." FOR "ADDITIONAL", "AHJ" FOR "AUTHORITY HAVING JURISDICTION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "BO" FOR "BUILD-OUT", "CS" FOR "CARBON STEEL", "EA." FOR "EACH", "E.D."/"EDGE"/"EDGE DIST." FOR "EDGE DISTANCE", "ELEV" FOR "ELEVATION", "EMBED" FOR "EMBEDMENT", "EQ"/"EQUIV." FOR "EQUIVALENT", "EXT" FOR "EXTERIOR", "FBC" FOR "FLORIDA BUILDING CODE", "ft" OR " ' " FOR "FEET", "G" FOR "SPECIFIC GRAVITY", "GA" FOR "GAUGE", "GALV" FOR "GALVANIZED", "GFB" FOR "GROUT-FILLED BLOCK", "GR" FOR "GRADE", "HOLLOW" FOR "HOLLOW BLOCK", "HORIZ" FOR "HORIZONTAL", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "in" OR " ' " FOR "INCHES", "INT" FOR "INTERIOR", "KSI" FOR "1,000 lb/in²", "L" FOR "LENGTH", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "MIN" FOR "MINIMUM", "N.T.S." FOR "NOT TO SCALE", "O.C." FOR "ON-CENTER", "P.E." FOR "PROFESSIONAL ENGINEER", "PERP" FOR "PERPENDICULAR", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "PSI" FOR "POUNDS PER SQUARE INCH (lb/in²)", "QTY" FOR "QUANTITY", "REF." FOR "REFERENCE", "SCHED." FOR "SCHEDULE", "SDS" FOR "SELF-DRILLING SCREWS", "SMS" FOR "SHEET METAL SCREWS", "SPECS" FOR "SPECIFICATIONS", "SS" FOR "STAINLESS STEEL", "SUB" FOR "SUBMITTAL", "TAS" FOR "TESTING APPLICATION STANDARD", "TYP." FOR "TYPICAL", "ULT" FOR "ULTIMATE LOADS", "U.N.O." FOR "UNLESS NOTED OTHERWISE", "UTS" OR "Fu" FOR "ULTIMATE TENSILE STRENGTH/STRESS", "VERT" FOR "VERTICAL", "WLL" FOR "WORKING LOAD LIMIT", "W/" FOR "WITH", "W/O" FOR "WITHOUT", "YS" FOR "YIELD STRENGTH", "#" FOR "NUMBER", "&" FOR "AND", AND "Ø" FOR "DIAMETER".

"ADDTL."

VISIT **ECALC.IO/GLOSSARY** OR CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

COLBY BENNARDO
PE# 95197 CA# 9885



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FOR SITE-SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
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PAGE INDEX:

DESCRIPTION	PAGE #
COVER SHEET	1
INSTALLATION DETAILS	2
INSTALLATION DETAILS	3
ANCHOR SCHEDULE	4

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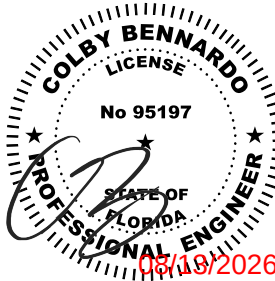
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BAHAMA SHUTTER
FLORIDA BUILDING CODE NINTH EDITION (2026)
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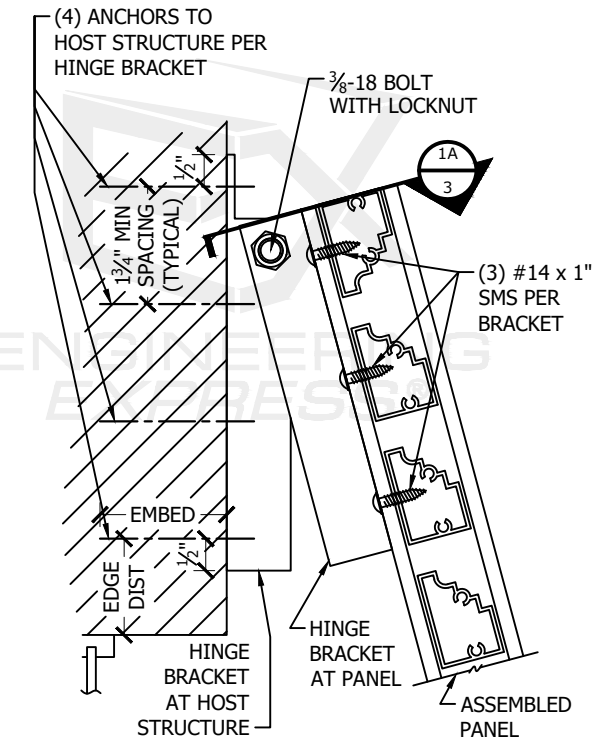
REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-27560)	CCB	RWN	07/06/20
UPDATE TO 2023 FBC	MRT	ER/RN	08/14/23
2026 FBC UPDATE	CCB	CCB	06/29/26

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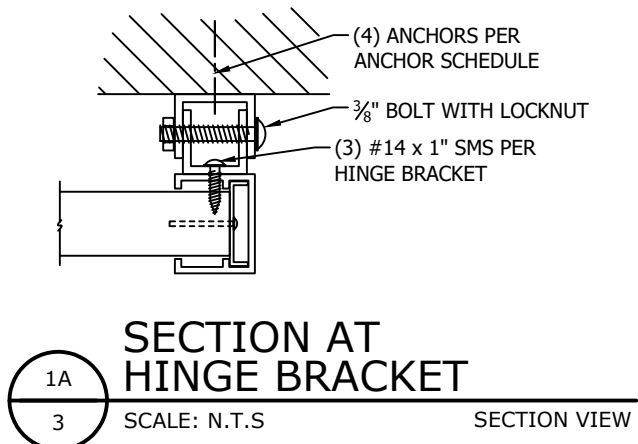
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3 OF 4



1 HINGE BRACKET
3 SCALE: N.T.S. SECTION VIEW

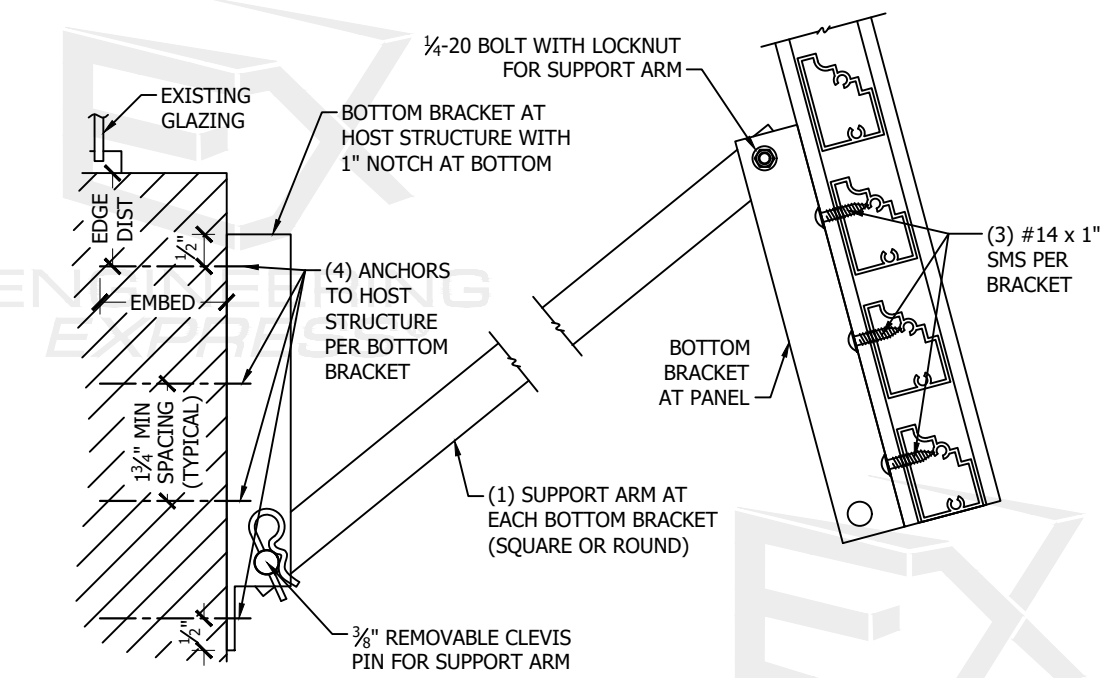


GLASS SEPARATION SCHEDULE

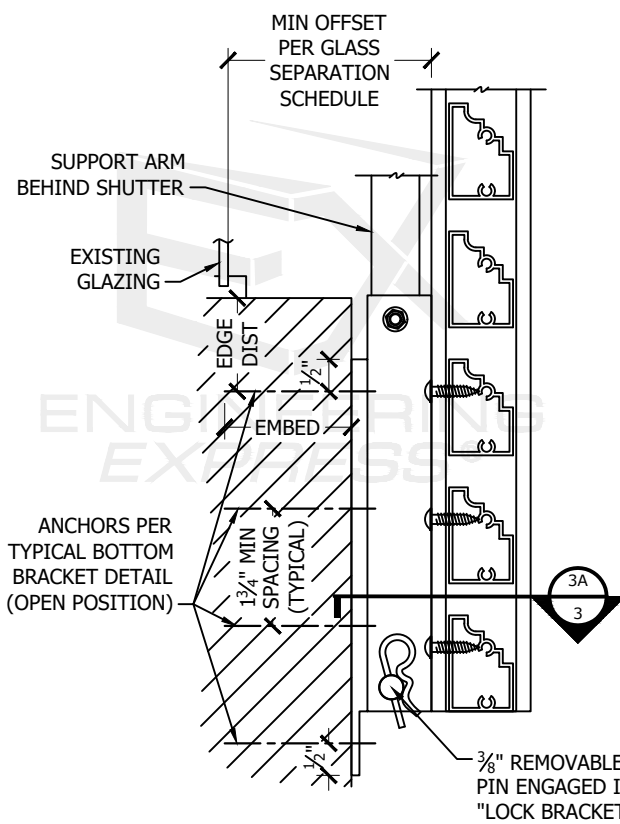
	POSITIVE PRESSURE	AT OR BELOW 30 FT ABOVE GRADE	MORE THAN 30 FT ABOVE GRADE
6' x 6' SHUTTER	41.6 psf	2.75"	2.25"
	80.0 psf	2.88"	2.88"
10' x 8' SHUTTER	49.4 psf	4.00"	4.00"
	65.0 psf	4.63"	4.63"

GLASS SEPARATION NOTES:

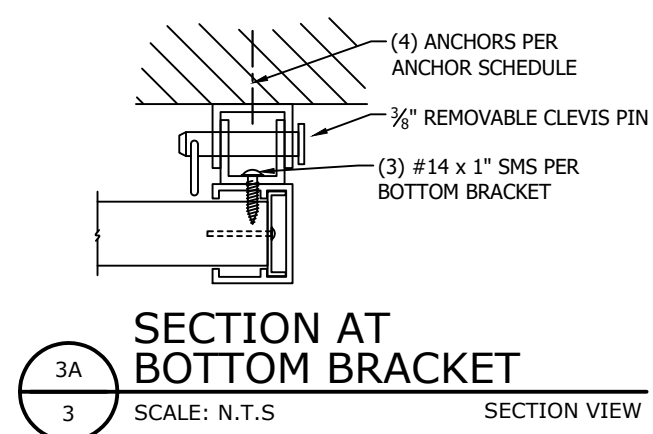
- SCHEDULE GIVES MINIMUM REQUIRED SEPARATION BETWEEN SHUTTER (CLOSED POSITION) AND GLAZING.
- WHERE SHUTTER SIZE EXCEEDS 6' x 6', USE SEPARATION SHOWN FOR 10' x 8' SHUTTER.
- NEGATIVE WIND PRESSURES ARE NOT CONSIDERED IN DETERMINING MIN REQUIRED GLASS SEPARATION.



2 BOTTOM BRACKET OPEN POSITION
3 SCALE: N.T.S. SECTION VIEW



3 BOTTOM BRACKET CLOSED POSITION
3 SCALE: N.T.S. SECTION VIEW



ANCHOR SCHEDULE

ANCHOR SCHEDULE GIVES REQUIRED NUMBER OF BRACKETS (TYP TOP & BOTTOM - NOT COMBINED)

HOST STRUCTURE:		CONCRETE										MASONRY										WOOD					ALUMINUM					STEEL				
		ANCHOR:					1/4" DEWALT ULTRAICON					1/4" ITW TAPCON					1/4" DEWALT ULTRAICON					#14 WOOD SCREW					#14 METAL SCREW					#14 METAL SCREW				
		1.75" MIN EMBED 1" MIN EDGE DIST					1.75" MIN EMBED 1" MIN EDGE DIST					1.25" MIN EMBED 2.5" MIN EDGE DIST					1.25" MIN EMBED 1" MIN EDGE DIST					1.5" MIN EMBED 0.75" MIN EDGE DIST					MIN 0.125" THICK HOST STRUCTURE					MIN 18ga STEEL STUDS (0.048")				
SHUTTER WIDTH	SHUTTER HEIGHT	PRESSURE (PSF):					PRESSURE (PSF):					PRESSURE (PSF):					PRESSURE (PSF):					PRESSURE (PSF):					PRESSURE (PSF):					PRESSURE (PSF):				
		45	55	65	75	80	45	55	65	75	80	45	55	65	75	80	45	55	65	75	80	45	55	65	75	80	45	55	65	75	80					
3 FT	4 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	5 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	6 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	7 FT	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--					
	8 FT	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--					
4 FT	4 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	5 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	6 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2					
	7 FT	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--	2	2	3	--	--	2	2	2	--	--	2	2	2	--	--					
	8 FT	2	2	2	--	--	2	2	2	--	--	2	2	3	--	--	2	3	3	--	--	2	2	2	--	--	2	2	2	--	--					
5 FT	4 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	5 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2					
	6 FT	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2					
	7 FT	2	2	2	--	--	2	2	2	--	--	2	3	3	--	--	2	3	3	--	--	2	2	2	--	--	2	2	2	--	--					
	8 FT	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	3	3	--	--	3	3	3	--	--					
6 FT	4 FT	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2					
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	8 FT	3	3	3	--	--	3	3	3	--	--	3	4	4	--	--	4	4	5	--	--	3	3	3	--	--	3	3	3	--	--					
8 FT	4 FT	2	2	2	--	--	2	2	2	--	--	2	2	3	--	--	2	3	3	--	--	2	2	2	--	--	2	2	2	--	--					
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ANCHOR NOTES:

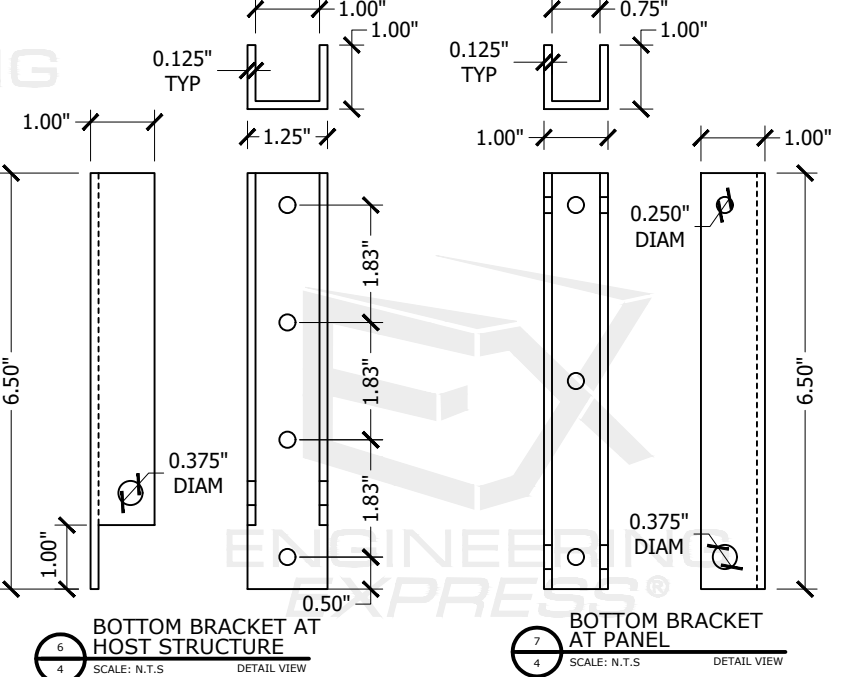
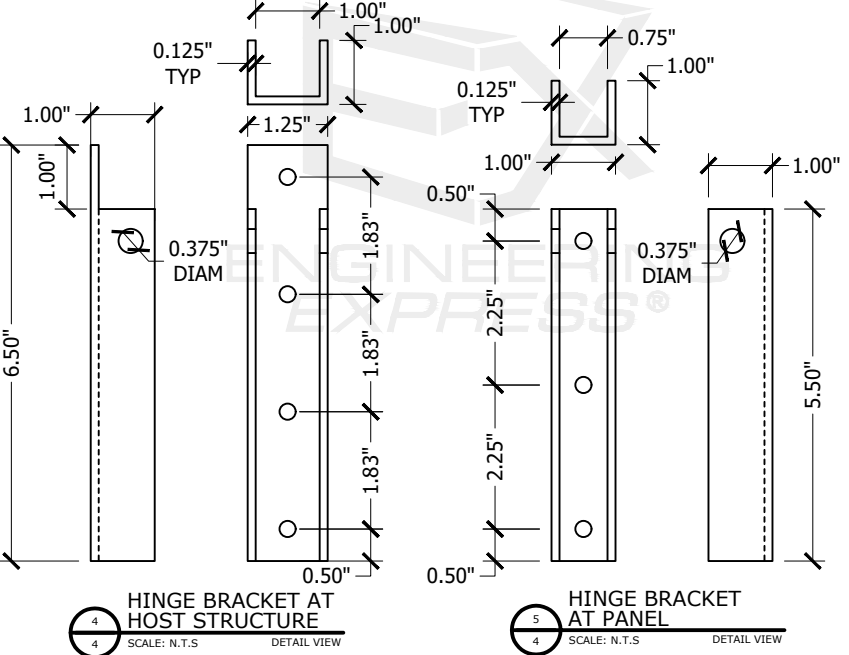
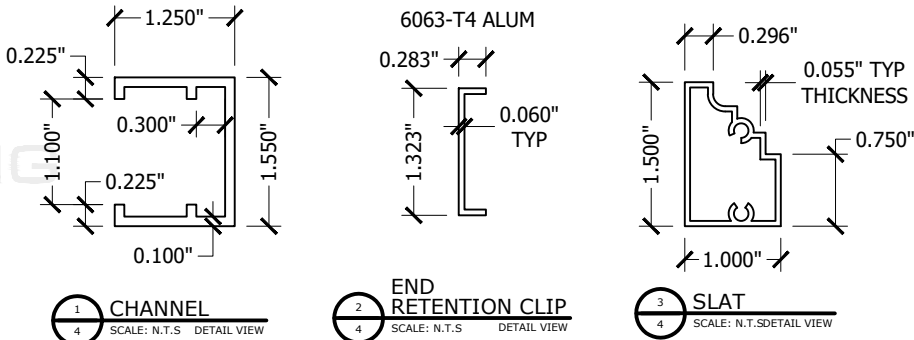
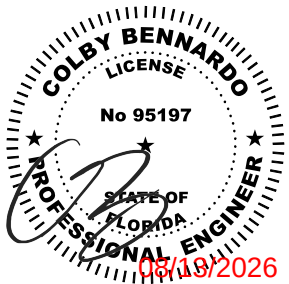
1. ANCHOR SCHEDULE GIVES MINIMUM NUMBER OF BRACKETS REQUIRED, TYPICAL TOP & BOTTOM. TOTAL NUMBER OF BRACKETS FOR A GIVEN SHUTTER SIZE IS TWO TIMES THE NUMBER SHOWN.
2. SEE SECTION DETAILS FOR ANCHOR LOCATIONS.
3. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED ELSEWHERE IN THIS PRODUCT EVALUATION DOCUMENT SHALL APPLY.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. MINIMUM EMBEDMENT & EDGE DISTANCE SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT

- AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
6. FOR ANCHORS INSTALLED TO WOOD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF STUD WHERE FASTENED TO NARROW FACE OF NOMINAL 2x FRAMING.
7. HOST STRUCTURE MATERIALS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
 - CONCRETE: MINIMUM 3192 PSI
 - MASONRY: ASTM C-90 (HOLLOW OR GROUT-FILLED)
 - WOOD: "SOUTHERN PINE", DENSITY G=0.55 MIN
 - ALUMINUM: 6063-T6 OR BETTER
 - STEEL: MIN 18ga (0.048") STEEL STUDS, A653 GR. 33

8. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD (U.N.O.).
9. METAL SCREWS SHALL BE INSTALLED WITH FULL THREAD ENGAGEMENT INTO METAL HOST STRUCTURE. (5) PITCHES PASSED THE PLANE THREAD MIN.
10. ANCHOR HEAD STYLES MAY VARY (FLAT HEAD, PAN HEAD, TRUSS HEAD, ETC.).
11. " - - - " DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.

COLBY BENNARDO
PE# 95197 CA# 9885

FL



FL 43953.1

IMPACT TECHNOLOGY PRODUCTS, INC.
584 SW CRAWFISH DR.
PORT SAINT LUCIE, FL 34953
352 978 8922
BAHAMA SHUTTER
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#43953.1)

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-27660)	CCB	RWN	07/06/20
UPDATE TO 2023 FBC	MRT	ERJRN	08/14/23
2026 FBC UPDATE	CCB	CCB	06/29/26

26-101997

SCALE: NTS UNLESS NOTED