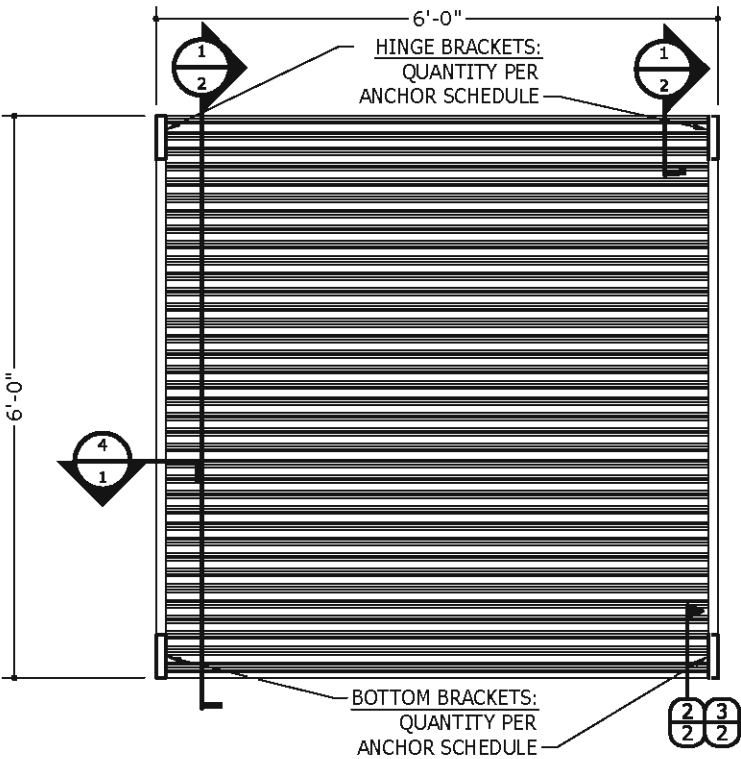


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BAHAMA SHUTTER

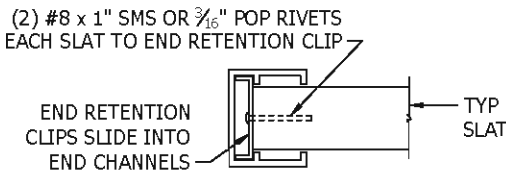
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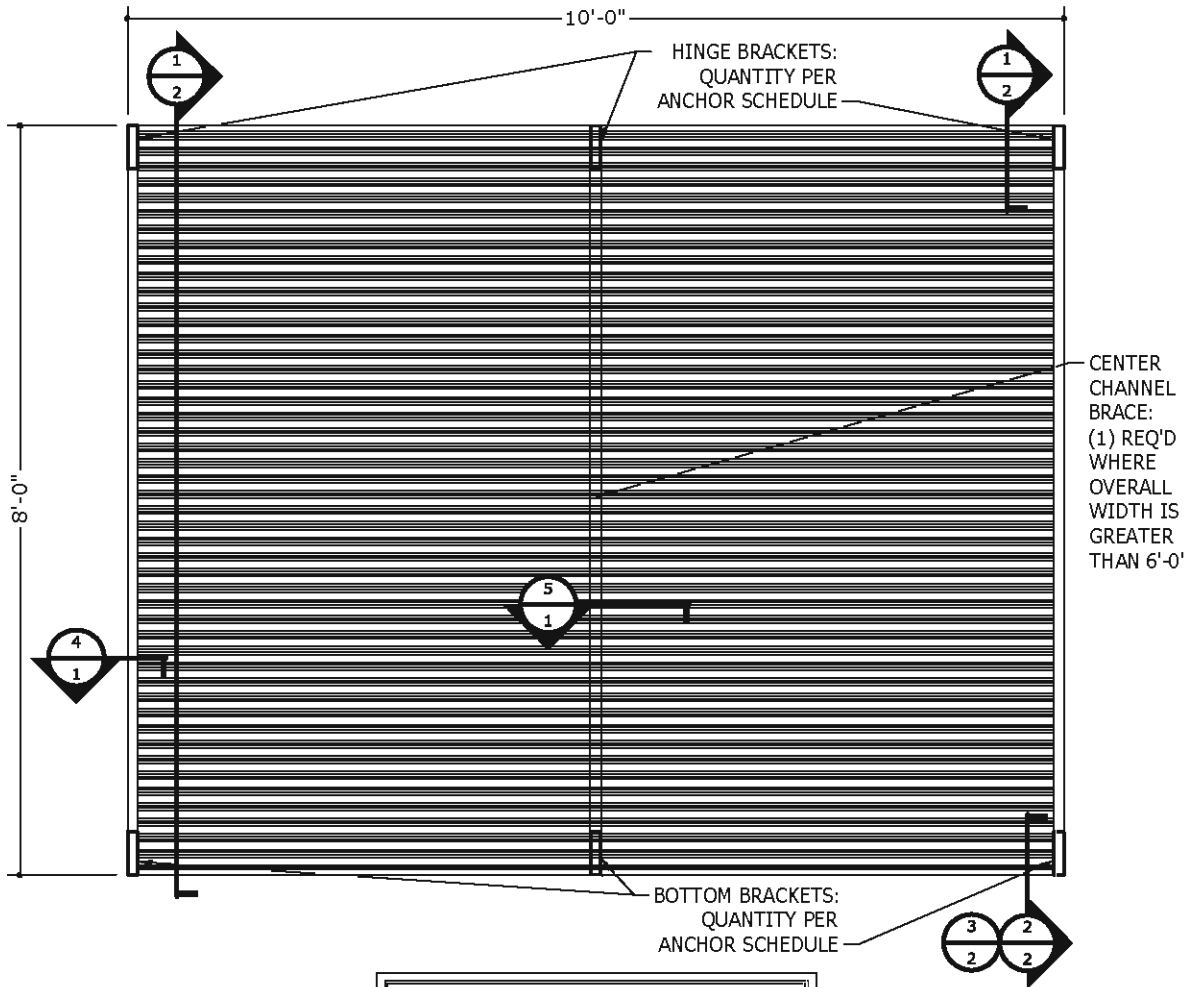


ALLOWABLE DESIGN PRESSURES
+/- 80 PSF

1 PANELS UP TO 6'-0" WIDE
1 SCALE: N.T.S. ELEVATION VIEW

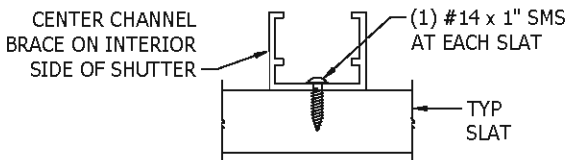


4 SLAT AT END CHANNEL
1 SCALE: N.T.S. SECTION VIEW

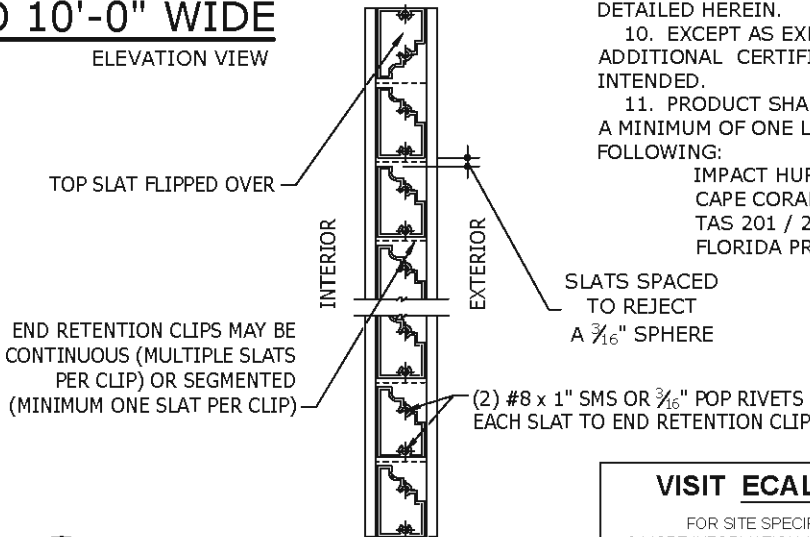


ALLOWABLE DESIGN PRESSURES
+/- 65 PSF

2 PANELS UP TO 10'-0" WIDE
1 SCALE: N.T.S. ELEVATION VIEW



5 CENTER CHANNEL BRACE
1 SCALE: N.T.S. SECTION VIEW



3 SLAT ASSEMBLY
1 SCALE: N.T.S. SECTION VIEW

DESIGN NOTES

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

GENERAL NOTES

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) AND CAN BE USED WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS AS STATED IN TEST REPORT AC-11-001 BY BLACKWATER TESTING, INC.
2. THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT RESISTANT (LEVEL D) SHUTTER PRODUCT FOR PROTECTION FROM WIND-BORNE DEBRIS.
3. THE EXISTING HOST STRUCTURE SHALL BE VERIFIED TO SUPPORT THE DESIGN SPECIFIED HEREIN BY A DESIGN PROFESSIONAL UNDER SEPARATE CERTIFICATION.
4. SYSTEMS SHALL BE AS NOTED HEREIN. ALL REFERENCES TO EXTRUSIONS & INSTALLATION SHALL CONFORM TO THAT OF MANUFACTURER'S SPECIFICATIONS AS SUMMARIZED HEREIN.
5. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY & TEMPER, UNLESS NOTED OTHERWISE.
6. 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" OR 1/4" POP RIVETS SHALL BE 5056-H32 ALUMINUM ALLOY OR STRONGER.
7. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
8. THIS PRODUCT EVALUATION DOCUMENT IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS APPROVAL.
9. THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY 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 FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
10. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
11. PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:

IMPACT HURRICANE SYSTEMS, INC.
CAPE CORAL, FLORIDA
TAS 201 / 202 / 203 & MISSILE LEVEL D
FLORIDA PRODUCT APPROVAL NUMBER

SLATS SPACED
TO REJECT
A 3/16" SPHERE

VISIT [ECALC.IO/27560](https://ecalcalc.io/27560)

FOR SITE SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
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IMPACT HURRICANE SYSTEMS, INC.

1114 SE 12 COURT
CAPE CORAL, FL
(305) 558-7739

BAHAMA SHUTTER

FLORIDA BUILDING CODE SEVENTH EDITION (2020)
FL24137.1

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	LAO	FLB	10/18/17
2020 FBC	CCB	RWN	7/06/20

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ANCHOR SCHEDULE

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

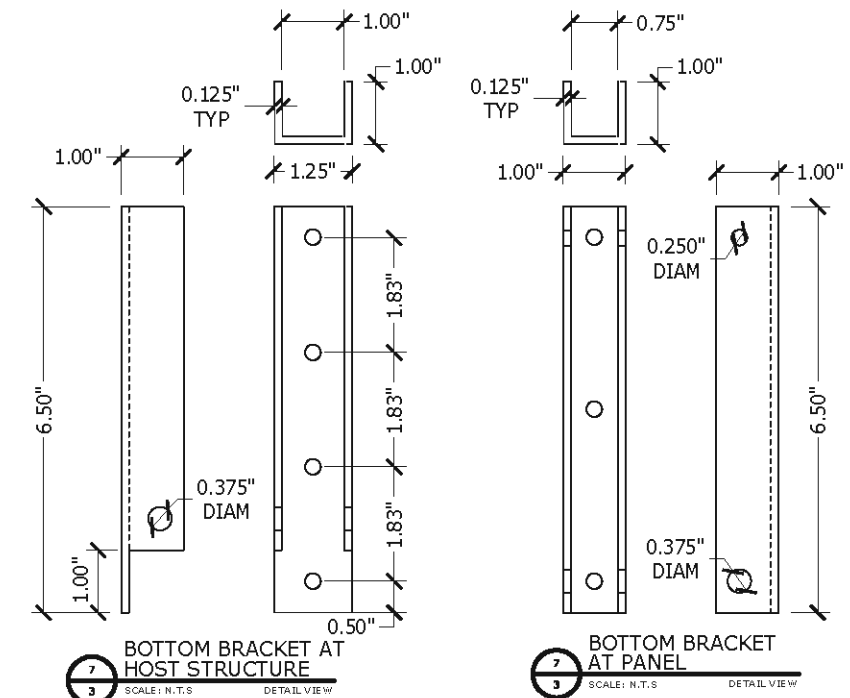
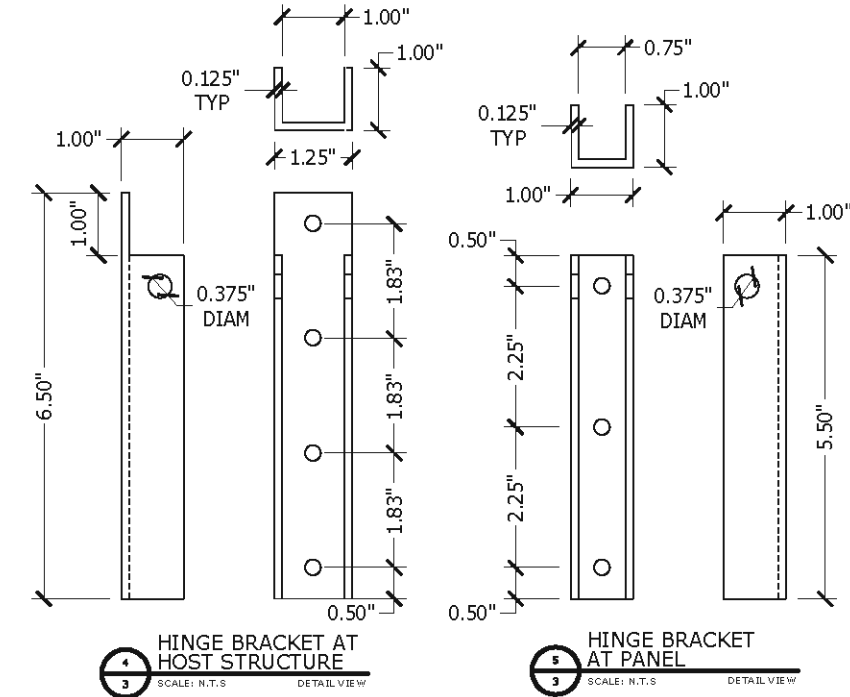
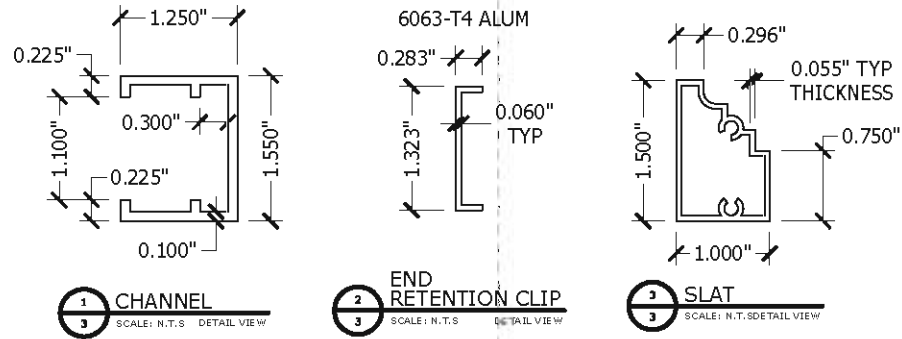
HOST STRUCTURE:		CONCRETE										MASONRY										WOOD						ALUMINUM						STEEL					
ANCHOR:		1/4" ITW TAPCON					1/4" DEWALT ULTRAICON					1/4" ITW TAPCON					1/4" DEWALT ULTRAICON					#14 WOOD SCREW						#14 METAL SCREW						#14 METAL SCREW					
INSTALL NOTES:		1.75" MIN EMBED 1" MIN EDGE DIST					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	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	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	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	2	2	2	2				
	7 FT	2	2	2	--	--	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	--	--	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	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	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	2	2	2	2				
	7 FT	2	2	2	--	--	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	3	--	--	2	3	3	--	--	2	2	2	--	--	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	2	2	2	2				
	5 FT	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	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	2	2	2	2				
	7 FT	2	2	2	--	--	2	2	2	--	--	2	3	3	--	--	2	3	3	--	--	2	2	2	--	--	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	--	--	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	2	2	2	2				
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	7 FT	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
	8 FT	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	4	4	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
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	5 FT	2	2	2	--	--	2	2	2	--	--	2	3	3	--	--	2	3	3	--	--	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--			
	6 FT	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
	7 FT	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	4	4	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
	8 FT	3	3	3	--	--	3	3	3	--	--	3	4	4	--	--	4	4	5	--	--	3	3	3	--	--	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	--	--	2	2	2	--	--			
	5 FT	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
	6 FT	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	4	4	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
	7 FT	3	3	3	--	--	3	3	3	--	--	3	4	4	--	--	4	4	5	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
	8 FT	3	3	3	--	--	3	3	3	--	--	4	4	5	--	--	4	5	6	--	--	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--			
9 FT	4 FT	2	2	2	--	--	2	2	2	--	--	2	3	3	--	--	2	3	3	--	--	2	2	2	--	--	2	2	2	--	--	2	2	2	--	--			
	5 FT	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	4	4	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
	6 FT	3	3	3	--	--	3	3	3	--	--	3	4	4	--	--	3	4	5	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
	7 FT	3	3	3	--	--	3	3	3	--	--	4	4	5	--	--	4	5	6	--	--	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--			
	8 FT	3	3	3	--	--	3	3	3	--	--	4	5	6	--	--	4	5	6	--	--	3	3	3	--	--	3	3	3	--	--	3	4	4	--	--			
10 FT	4 FT	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--	3	3	4	--	--	3	3	3	--	--	3	3	3	--	--	3	3	3	--	--			
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	8 FT	3	3	3	--	--	3	3	3	--	--	4	5	6	--	--	5	6	7	--	--	3	3	3	--	--	3	3	3	--	--	3	4	5	--	--			

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.



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PE# 0046549 CA# 9885



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BAHAMA SHUTTER

FLORIDA BUILDING CODE SEVENTH EDITION (2020)
FL24137.1

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	LAO	FLB	10/18/17
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