

2" CLEAR BERTHA STORM PANEL

EASTERN METAL SUPPLY

LARGE MISSILE IMPACT RESISTANT (MISSILE LEVEL D)

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

- THIS SPECIFICATION HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE NINTH EDITION (2026) FOR USE INSIDE AND OUTSIDE OF THE HVHZ, PER TAS 201, 202 & 203 AND ASTM E330, E1886 & E1996 TEST PROTOCOLS. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
- WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH CURRENT EDITION OF ASCE 7 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE ASD DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
- TOP AND BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
- SEPARATE 'SITE-SPECIFIC' SIGNED AND SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE, INTERPOLATE, AND EXTRAPOLATE FROM LOADS, DEFLECTIONS, OR SPANS CONTAINED HEREIN. CONTACT THIS ENGINEER AND VISIT THE ACCOMPANYING DIGITAL INFORMATION REFERENCED HEREIN FOR ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- ALL STORM PANELS SHALL BE CLEAR POLYCARBONATE, t=0.100" AND CONFORM TO THE SPECIFICATIONS LISTED HEREIN.
- THE STRUCTURAL ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS BY THIS SYSTEM SHALL BE VERIFIED BY OTHERS. 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 BUNKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
- ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE. ALL TOLERANCES SHALL BE IN ACCORDANCE WITH ADM 2020.
- CONCRETE ANCHORS NOTED HEREIN SHALL BE EMBEDDED TO NON-CRACKED CONCRETE ONLY. INSTALL ALL CONCRETE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.

- PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF (1) LABEL PER PANEL, CONTAINING THE FOLLOWING INFORMATION:

EASTERN METAL SUPPLY, INC.
WEST PALM BEACH, FL
TAS 201, TAS 202 & TAS 203
ASTM E330, ASTM E1886 & ASTM E1996
FLORIDA PRODUCT APPROVAL NUMBER

- CONTRACTOR IS RESPONSIBLE TO INSULATE OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.

- ALL FASTENERS TO BE ¼"Ø OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. 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, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES

- 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.

- REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.

- 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.

- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.

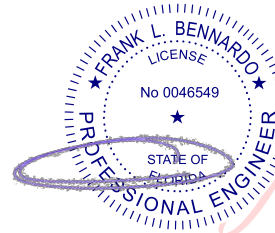
- ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

SYSTEM PERFORMANCE DERIVATIONS

SYSTEM PERFORMANCE DERIVED FROM CERTIFIED TEST REPORT(S) #BT-EMS-18-001 & #BT-EMS-18-004 BY BLACKWATER TESTING, INC. AND TEST REPORT(S) #ATLSF 0615.01-11 BY AMERICAN TEST LAB OF SOUTH FLORIDA, PER TAS 201, 202 & 203 TEST STANDARD(S).

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885



Digitally signed by
Frank Bennardo
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PAGE INDEX:

SHEET INDEX	
# SHEET	DESCRIPTION
1	COVER SHEET
2	TYP. VERTICAL MOUNT ELEVATION
3	PARTS & ALLOWABLE SPANS
4	CONNECTION DETAILS
5-6	ANCHOR SCHEDULE

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL: "INC." FOR "INCORPORATION", "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CS" FOR "CARBON STEEL", "CONN" FOR "CONNECTION", "EMBED" FOR "EMBEDMENT", "DIST." FOR "DISTANCE", "GA" FOR "GAUGE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "N.T.S." FOR "NOT TO SCALE", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST" FOR "EXISTING", "STRUCT" FOR "STRUCTURE", "CONC." FOR "CONCRETE". CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

VISIT ECALC.IO/EASTERNMETALS

FOR SITE-SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
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2" CLEAR BERTHA STORM PANEL

FLORIDA BUILDING CODE NINTH EDITION (2026)

FLORIDA STATEWIDE APPROVAL (FSA FL#28390.1)

REMARKS	DATE	DRWN	CHKD	DATE
2020 FBC (20-28341)	10/26/20	CCB	FLB	10/26/20
2023 FBC (23-65158)	10/04/23	MRT	RWN	10/04/23
2026 FBC UPDATE	07/10/26	MEF	CCB	07/10/26

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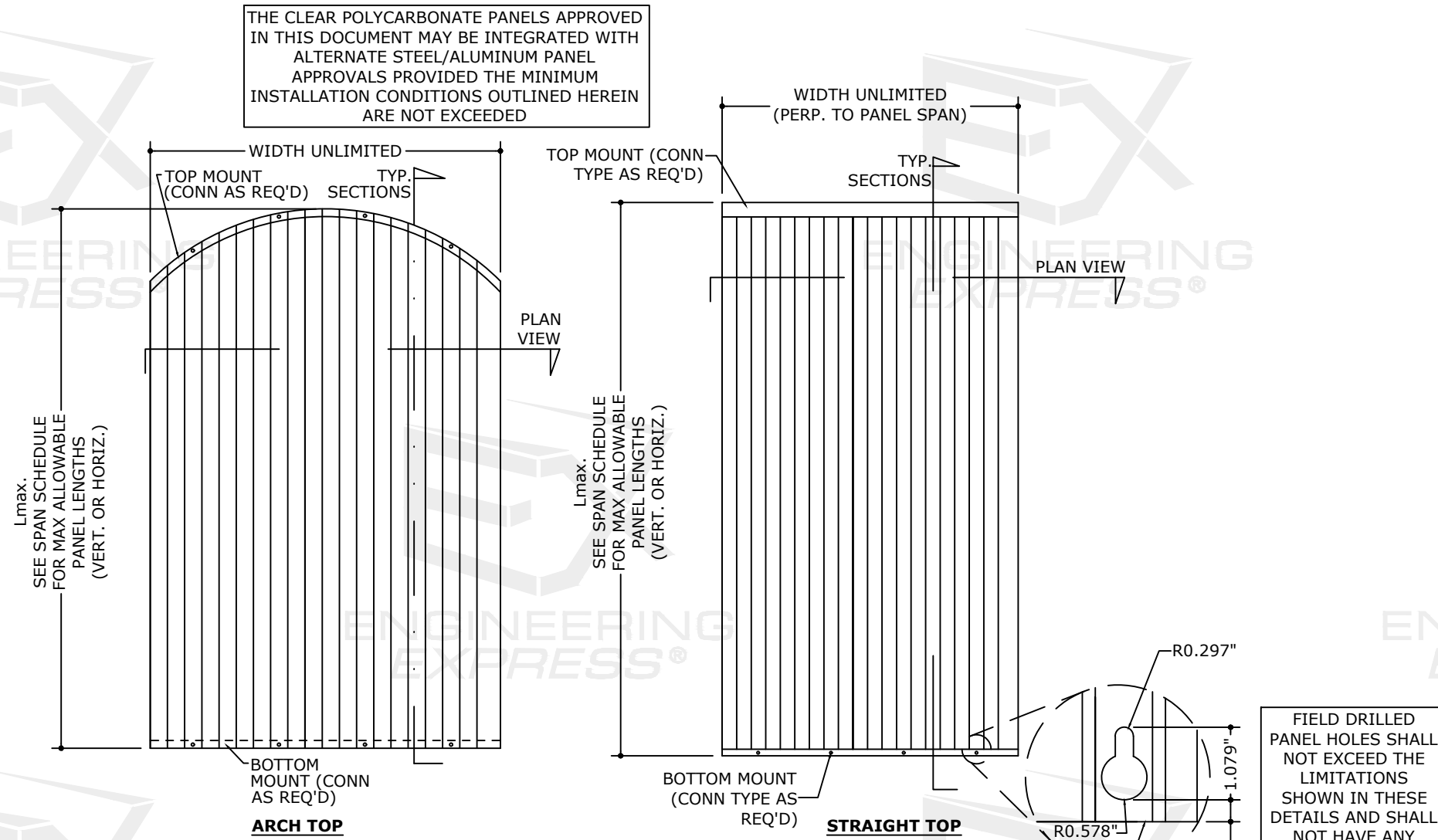
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FRANK L. BENNARDO
LICENSE
No 0046549
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SIGNED:
08/17/2026



1 TYPICAL VERTICAL MOUNT ELEVATION
2 N.T.S. ELEVATION

MINIMUM POLYCARBONATE PANEL PROPERTIES FOR USE WITH THIS APPROVAL:		
SPECIFIC GRAVITY	1.20 G/CC	ASTM D792
TENSILE YIELD STRENGTH	8700 PSI	ASTM D638
FLEXURAL STRENGTH AT YIELD	12500 PSI	ASTM D790
FLEXURAL MODULUS	340000 PSI	ASTM D790
NOTCHED IZOD	18 FT-LB/IN	ASTM D256
SMOKE DENSITY	75 MAX	ASTM D2843
RATE OF BURNING	C-1 CLASS MAX	ASTM D635
SELF IGNITION	650 DEG. F	ASTM D1929

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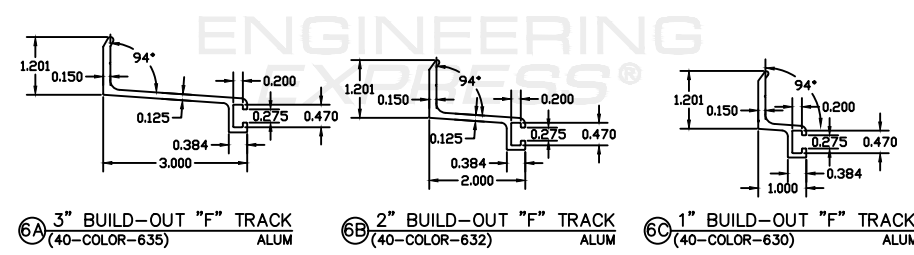
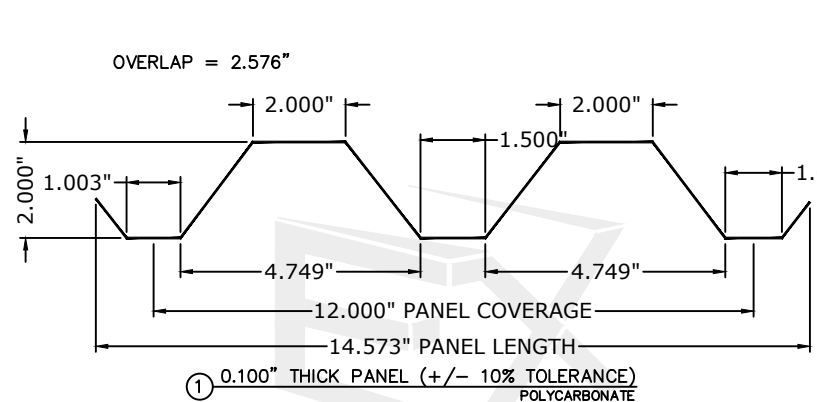
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SCHEDULE 1: ALLOWABLE PANEL SPANS (HVHZ & NON-HVHZ)

2" CLEAR PANELS

MINIMUM STORM PANEL SEPARATION FROM GLASS (HVHZ, WIND ZONE 4 & ESSENTIAL FACILITIES)			
MAXIMUM DESIGN PRESSURE (PSF)	ALLOWABLE SPAN (Lmax)	INSTALLATIONS LESS THAN 30' ABOVE GRADE	INSTALLATIONS GREATER THAN 30' ABOVE GRADE
+/-21	132.0 in	10.50 in	9.75 in
+/-26	120.0 in	10.00 in	9.25 in
+/-31	108.5 in	9.50 in	8.50 in
+/-36	96.5 in	9.00 in	8.00 in
+/-41	84.5 in	8.50 in	7.25 in
+/-46	73.0 in	8.00 in	6.75 in
+/-51	61.0 in	7.50 in	6.00 in
+/-56	49.5 in	7.00 in	5.25 in
+/-60	40.0 in	6.50 in	4.75 in

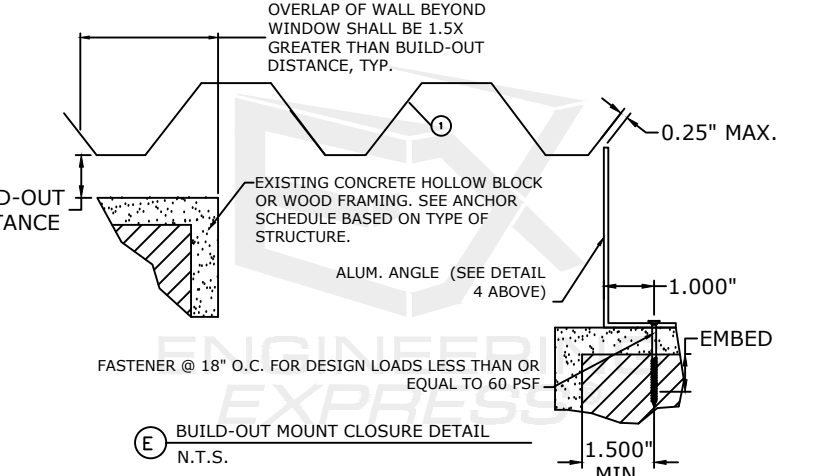
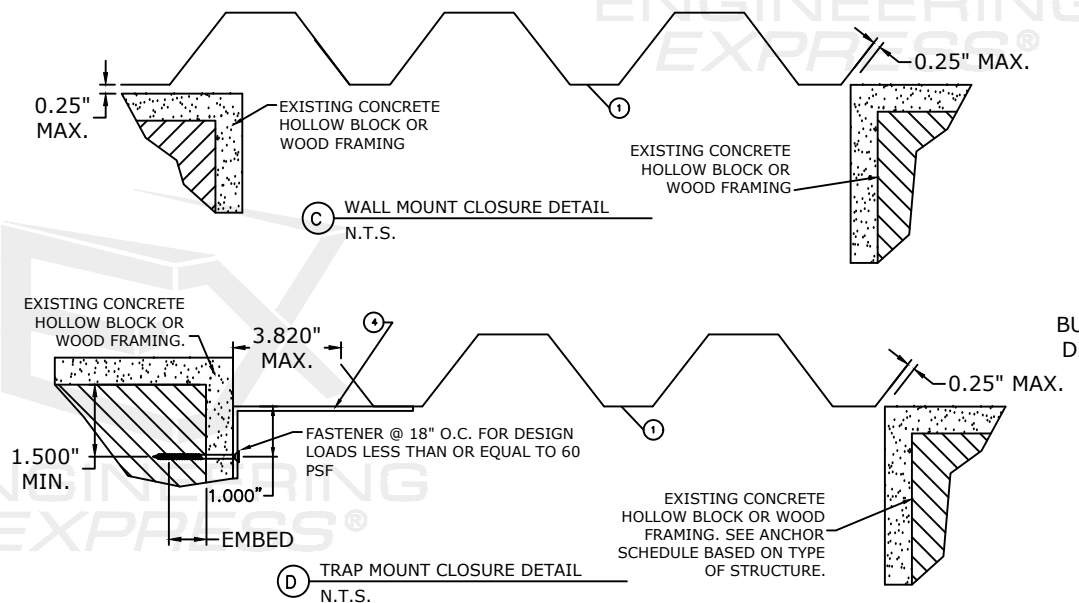
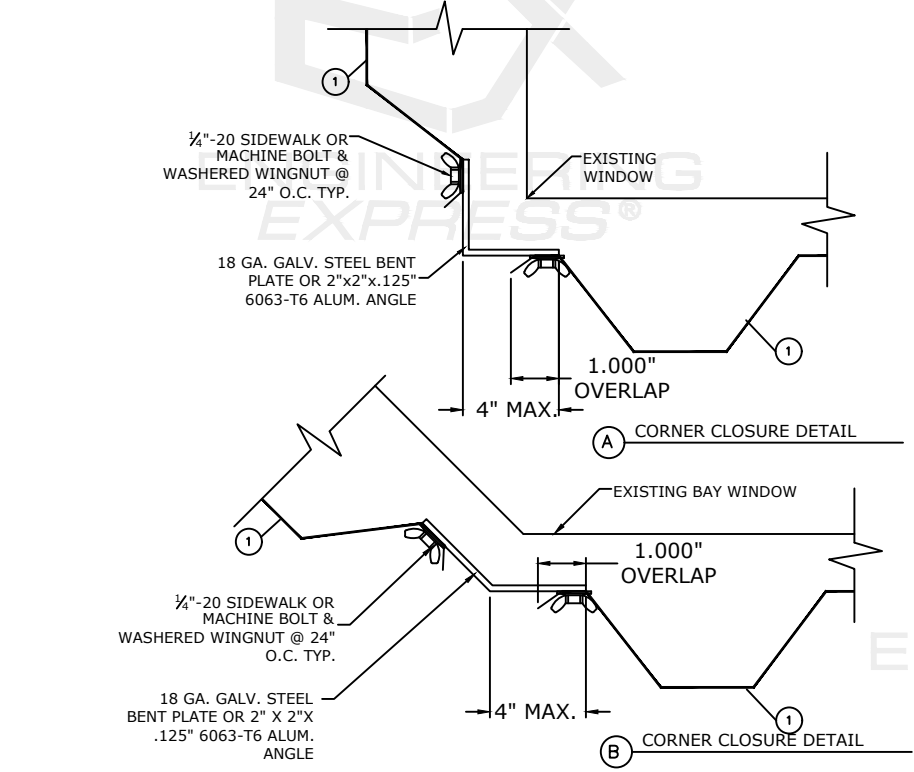
- SEE SHEET 5 FOR ANCHORAGE OPTIONS

SCHEDULE 2: ALLOWABLE PANEL SPANS (NON-HVHZ ONLY)

2" CLEAR PANELS

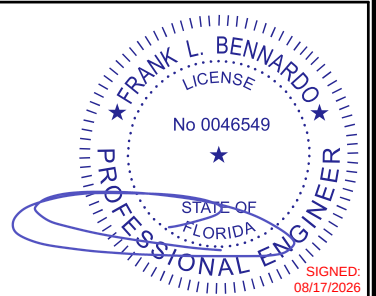
MINIMUM STORM PANEL SEPARATION FROM GLASS (WIND ZONE 4 & ESSENTIAL FACILITIES)			
MAXIMUM DESIGN PRESSURE (PSF)	ALLOWABLE SPAN (Lmax)	INSTALLATIONS LESS THAN 30' ABOVE GRADE	INSTALLATIONS GREATER THAN 30' ABOVE GRADE
+/-35	144.0 in	10.25 in	7.00 in
+/-40	133.0 in	9.75 in	6.25 in
+/-45	122.0 in	9.50 in	5.50 in
+/-50	111.0 in	9.00 in	4.75 in
+/-55	100.0 in	8.50 in	4.00 in
+/-60	89.0 in	8.00 in	3.00 in

- SEE SHEET 6 FOR ANCHORAGE OPTIONS
- SPANS AND SEP. FROM GLASS LISTED IN THIS TABLE ARE ONLY APPLICABLE FOR CONNECTION TYPES C1 AND C2 ONLY.
- "H" HEADER, "U" HEADER AND "C3" CONNECTION OPTIONS SHALL NOT BE USED WITH THIS TABLE
- MINIMUM PANEL SPAN IS 36.0". UTILIZE GLASS SEPARATION FOR 89" SPAN TIER FOR SPANS LESS THAN SHOWN IN TABLE



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SPAN SCHEDULE NOTES:

1. ENTER SPAN SCHEDULES WITH NEGATIVE DESIGN LOAD & PANEL FASTENER SPACING TO DETERMINE MAXIMUM ALLOWABLE STORM PANEL SPAN. SCHEDULE IS ACCEPTABLE FOR USE WITH POSITIVE LOADS LESS THAN OR EQUAL TO NEGATIVE DESIGN LOADS.
2. LINEAR INTERPOLATION BETWEEN LOADS IS ACCEPTABLE, OTHERWISE USE NEXT HIGHER LOAD.

GLASS SEPARATION NOTES:

1. ENTER SPAN SCHEDULE WITH POSITIVE DESIGN LOAD TO DETERMINE MINIMUM ALLOWABLE SEPARATION FROM THE OPENING TO BE PROTECTED.
2. SCHEDULE IS REQUIRED FOR USE WITH POSITIVE LOADS ONLY. INTERPOLATION BETWEEN LOADS IS ACCEPTABLE, OTHERWISE USE NEXT HIGHER LOAD.
3. FOR INSTALLATIONS OUTSIDE OF THE HVHZ AND OUTSIDE OF ESSENTIAL FACILITIES IN ASTM WIND ZONES 1 THROUGH 3, THE GLASS SEPARATION SCHEDULE IS NOT REQUIRED AND NO MINIMUM SEPARATION FROM THE PROTECTED OPENING IS REQUIRED.

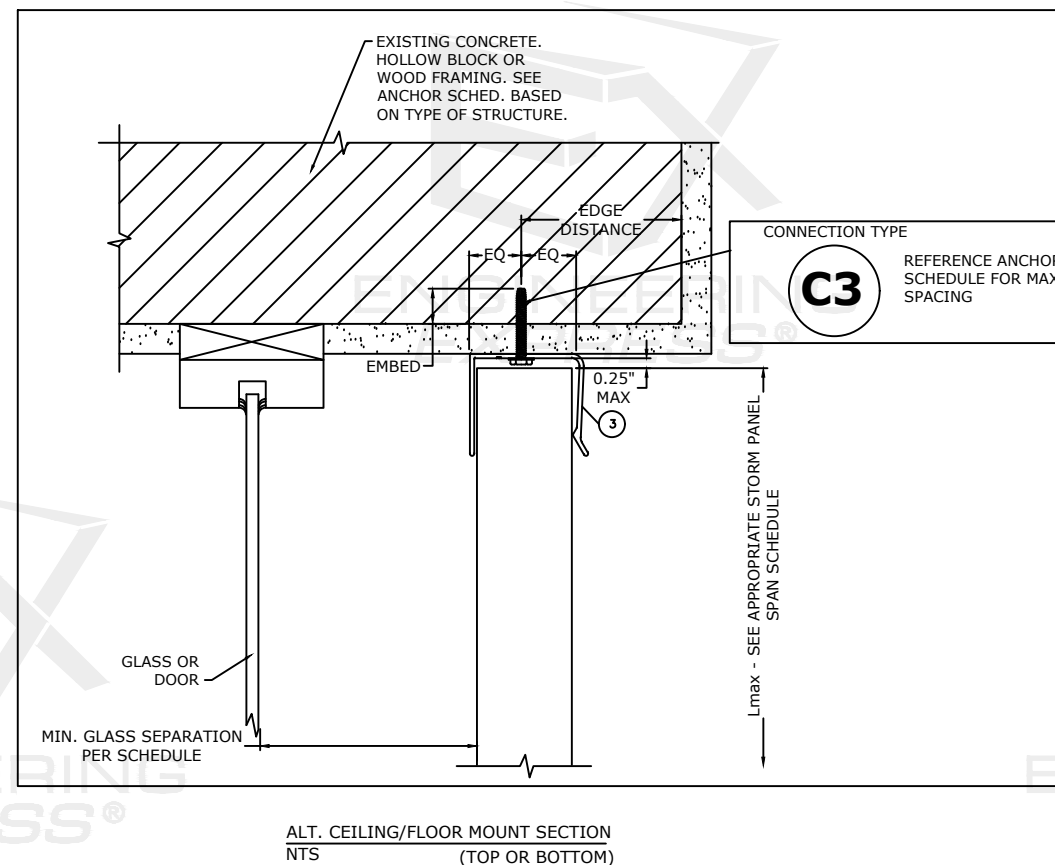
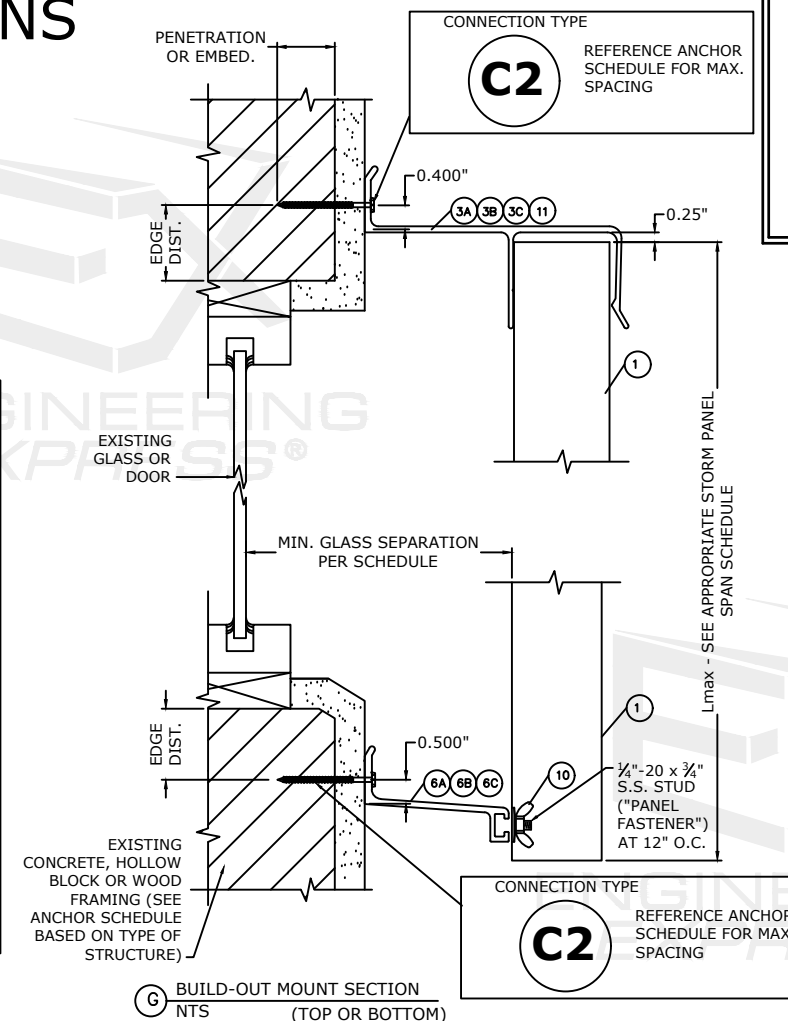
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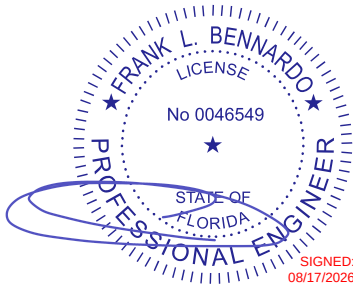
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ANCHOR SPACING (FOR SCHEDULE 1 - HVHZ & NON-HVHZ):

2" CLEAR PANELS

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HOST STRUCT.	ANCHOR	LOAD (psf)	EDGE DISTANCES AS NOTED								
			Spans Up To 3'-4" (40")			Spans Up To 7'-0" (84")			Spans Up To 11'-0" (132")		
			CONNECTION TYPE			CONNECTION TYPE			CONNECTION TYPE		
CONCRETE	1/4" ITW TAPCON WITH 1-3/4" EMBED AND 1-1/2" MIN. EDGE DISTANCE (3192 psi MIN CONCRETE)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4" DEWALT ULTRAACON WITH 1-3/4" EMBED AND 1" MIN. EDGE DISTANCE (2846 psi MIN CONCRETE)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4" DEWALT PANELMATE (FEMALE, MALE, or PLUS) W/ 2" EMBED AND 2-1/2" MIN. EDGE DISTANCE (3350 psi MIN CONC)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4" ITW TAPCON STORM GAURD W/ 1-3/4" EMBED AND 1-1/4" MIN. EDGE DISTANCE (3295 psi MIN CONCRETE)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED AND 1-1/4" MIN. EDGE DISTANCE (3000 psi MIN CONCRETE)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						

HOST STRUCT.	ANCHOR	LOAD (psf)	EDGE DISTANCES AS NOTED								
			Spans Up To 3'-4" (40")			Spans Up To 7'-0" (84")			Spans Up To 11'-0" (132")		
			CONNECTION TYPE			CONNECTION TYPE			CONNECTION TYPE		
HOLLOW (OR GROUT-FILLED) BLOCK	1/4" ITW TAPCON WITH 1" EMBED AND 2" MIN. EDGE DISTANCE (1900 psi MIN CMU)	21	12.0"	12.0"	12.0"	12.0"	12.0"	11.0"	12.0"	12.0"	7.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	7.5"			
		41	12.0"	12.0"	12.0"	6.0"	9.5"	5.5"			
		51	12.0"	12.0"	9.5"						
		60	12.0"	12.0"	8.0"						
	1/4" DEWALT ULTRAACON WITH 1-1/4" EMBED AND 1" MIN. EDGE DISTANCE (1900 psi MIN CMU)	21	12.0"	12.0"	12.0"	12.0"	12.0"	11.0"	12.0"	12.0"	7.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	7.5"			
		41	12.0"	12.0"	12.0"	6.0"	11.5"	5.5"			
		51	12.0"	12.0"	9.5"						
		60	12.0"	12.0"	8.0"						
	1/4" DEWALT PANELMATE (FEMALE, MALE, or PLUS) W/ 1-1/4" EMBED AND 2" MIN. EDGE DISTANCE (2000 psi MIN CMU)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	9.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED AND 1-1/4" MIN. EDGE DISTANCE (1800 psi MIN CMU)	21	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"	12.0"	12.0"	7.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	7.5"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	5.5"			
		51	12.0"	12.0"	9.5"						
		60	12.0"	12.0"	8.0"						

ALTERNATE ANCHOR NOTE:

FOR ALL 1/4" AND 5/16" DIAMETER ANCHOR OPTIONS LISTED IN THE ANCHOR SCHEDULES, AN EQUIVALENT DIAMETER HILLMAN/ALL-POINTS SOLID-SET ANCHOR (CARBON OR STAINLESS STEEL) MAY BE USED IN LIEU OF THE OPTION(S) LISTED SO LONG AS THE LISTED MINIMUM EMBEDMENT, EDGE DISTANCE AND SPACING ARE ACHIEVED.

HOST STRUCT.	ANCHOR	LOAD (psf)	EDGE DISTANCES AS NOTED								
			Spans Up To 3'-4" (40")			Spans Up To 7'-0" (84")			Spans Up To 11'-0" (132")		
			CONNECTION TYPE			CONNECTION TYPE			CONNECTION TYPE		
WOOD	1/4" ITW TAPCON WITH 1-3/8" THREAD PEN. AND 3/4" MIN. EDGE DISTANCE (G=0.42 MIN)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	11.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	8.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4" DEWALT ULTRAACON WITH 1-3/8" THREAD PEN. AND 3/4" MIN. EDGE DISTANCE (G=0.42 MIN)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	11.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	8.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4" DEWALT PANELMATE (FEMALE, MALE, or PLUS) W/ 1-7/8" EMBED AND 3/4" MIN. EDGE DISTANCE (G=0.54 MIN.)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4" ITW TAPCON STORM GAURD W/ 1-3/4" EMBED AND 1-1/4" MIN. EDGE DISTANCE (G=0.42 MIN)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.0"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	11.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	8.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4-20 PANELMATE INSERT WITH 1-5/8" EMBED AND 3/4" MIN. EDGE DISTANCE (G=0.42 MIN.)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	9.0"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	12.0"						
	1/4" WOOD OR LAG SCREW WITH 1-3/8" MIN THREAD PEN. AND 3/4" MIN. EDGE DISTANCE (G=0.42 MIN.)	21	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.5"
		31	12.0"	12.0"	12.0"	12.0"	12.0"	10.5"			
		41	12.0"	12.0"	12.0"	12.0"	12.0"	7.5"			
		51	12.0"	12.0"	12.0"						
		60	12.0"	12.0"	11.0"						

ANCHOR NOTES:

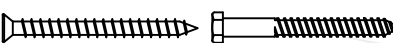
- ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
- ENTER ANCHOR SCHEDULE BASED ON PANEL FASTENER SPACING, THE EXISTING STRUCTURE MATERIAL, & ANCHOR TYPE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN. SELECT CONNECTION TYPE BASED ON APPROPRIATE MOUNTING CONDITION (SEE MOUNTING DETAILS ON SHEET 3 FOR IDENTIFICATION OF CONNECTION TYPE).
- "PANEL FASTENERS" ARE STUDS USED IN CONJUNCTION WITH ALL MOUNTING EXTRUSIONS ("F"-TRACK, STUDDED ANGLE, ETC.). "PANEL FASTENERS" SHALL BE SPACED AT 12" O.C. ALL END PANEL HOLES SHALL HAVE PANEL FASTENERS, TYP.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- HOLLOW BLOCK HOST STRUCTURE SHALL CONFORM TO ASTM C90 BLOCK.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES. WALL FINISHES SHALL BE LIMITED TO 1/4" MAX OR SHALL BE VERIFIED BY OTHERS TO ADEQUATELY TRANSFER LOADS TO HOST STRUCTURE.
- CONCRETE ANCHORS NOTED HEREIN SHALL BE EMBEDDED TO UN-CRACKED CONCRETE ONLY.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
- WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" X 4" (MIN.) WOOD STUD (3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING). WOOD STUD SHALL BE G=0.42 OR GREATER DENSITY, U.N.O. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
- REMOVABLE ANCHORS ARE: DEWALT PANELMATE, ALL-POINTS SOLID-SET.
- MACHINE SCREWS SHALL HAVE 1/2" MINIMUM ENGAGEMENT OF THREADS INTO THE BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT) U.N.O.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO OR OTHER WALL FINISHES.
- DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
- * DIRECT MOUNTING CONDITIONS.
- LINEAR INTERPOLATION IS NOT PERMITTED FOR USE WITH THE ANCHOR SCHEDULES LISTED ON THIS SHEET.
- PROVIDE KEYHOLE WASHER FOR 1/4-20 SIDEWALK BOLTS (OR TRUSS HEAD SCREWS)

ANCHOR SPACING (FOR SCHEDULE 2 - NON-HVHZ ONLY):

2" CLEAR PANELS

HOST STRUCT.	ANCHOR	LOAD (psf)	EDGE DISTANCES AS NOTED					
			Spans Up To 3'-0"		Spans Up To 7'-0"		Spans Up To 12'-0"	
			CONN TYPE		CONN TYPE		CONN TYPE	
CONCRETE	1/4" ITW TAPCON WITH 1-3/4" EMBED AND 1-1/2" MIN. EDGE DISTANCE (3192 psi MIN CONCRETE) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		
	1/4" DEWALT ULTRAICON WITH 1-3/4" EMBED AND 1" MIN. EDGE DISTANCE (2846 psi MIN CONCRETE) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		
	1/4" DEWALT PANELMATE (FEMALE, MALE, or PLUS) W/ 2" EMBED AND 2-1/2" MIN. EDGE DISTANCE (3350 psi MIN CONC) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		
	1/4" ITW TAPCON STORM GAURD W/ 1-3/4" EMBED AND 1-1/4" MIN. EDGE DISTANCE (3295 psi MIN CONCRETE) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		
	1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED AND 1-1/4" MIN. EDGE DISTANCE (3000 psi MIN CONCRETE) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		

HOST STRUCT.	ANCHOR	LOAD (psf)	EDGE DISTANCES AS NOTED					
			Spans Up To 3'-0"		Spans Up To 7'-0"		Spans Up To 12'-0"	
			CONN TYPE		CONN TYPE		CONN TYPE	
HOLLOW (OR GROUT-FILLED) BLOCK	1/4" ITW TAPCON WITH 1" EMBED AND 2" MIN. EDGE DISTANCE (1900 psi MIN CMU) 	35	12.0"	12.0"	6.0"	11.5"	6.0"	6.0"
		40	12.0"	12.0"	6.0"	10.0"		
		45	12.0"	12.0"	6.0"	9.0"		
		50	12.0"	12.0"	6.0"	8.0"		
		55	12.0"	12.0"	6.0"	7.0"		
		60	12.0"	12.0"	6.0"	6.0"		
	1/4" DEWALT ULTRAICON WITH 1-1/4" EMBED AND 1" MIN. EDGE DISTANCE (1900 psi MIN CMU) 	35	12.0"	12.0"	12.0"	12.0"	6.0"	7.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	6.0"	10.5"		
		50	12.0"	12.0"	6.0"	9.5"		
		55	12.0"	12.0"	6.0"	8.5"		
		60	12.0"	12.0"	6.0"	7.0"		
	1/4" DEWALT PANELMATE (FEMALE, MALE, or PLUS) W/ 1-1/4" EMBED AND 2" MIN. EDGE DISTANCE (2000 psi MIN CMU) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	11.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	11.0"		
	1/4-20 ALL POINTS SOLID- SET WITH 7/8" EMBED AND 1-1/4" MIN. EDGE DISTANCE (1800 psi MIN CMU) 	35	12.0"	12.0"	12.0"	12.0"	6.0"	8.5"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	6.0"	11.0"		
		55	12.0"	12.0"	6.0"	10.0"		
		60	12.0"	12.0"	6.0"	8.5"		

HOST STRUCT.	ANCHOR	LOAD (psf)	EDGE DISTANCES AS NOTED					
			Spans Up To 3'-0"		Spans Up To 7'-0"		Spans Up To 12'-0"	
			CONN TYPE		CONN TYPE		CONN TYPE	
WOOD	1/4" ITW TAPCON WITH 1-3/8" THREAD PEN. AND 3/4" MIN. EDGE DISTANCE (G=0.42 MIN) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		
	1/4" DEWALT ULTRAICON WITH 1-3/8" THREAD PEN. AND 3/4" MIN. EDGE DISTANCE (G=0.42 MIN) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		
	1/4" DEWALT PANELMATE (FEMALE, MALE, or PLUS) W/ 1-7/8" EMBED AND 3/4" MIN. EDGE DISTANCE (G=0.54 MIN.) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		
	1/4" ITW TAPCON STORM GAURD W/ 1-3/4" EMBED AND 1-1/4" MIN. EDGE DISTANCE (G=0.42 MIN) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	12.0"		
	1/4-20 PANELMATE INSERT WITH 1-5/8" EMBED AND 3/4" MIN. EDGE DISTANCE (G=0.42 MIN.) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	11.5"		
	1/4" WOOD OR LAG SCREW WITH 1-3/8" MIN THREAD PEN. AND 3/4" MIN. EDGE DISTANCE (G=0.42 MIN.) 	35	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"
		40	12.0"	12.0"	12.0"	12.0"		
		45	12.0"	12.0"	12.0"	12.0"		
		50	12.0"	12.0"	12.0"	12.0"		
		55	12.0"	12.0"	12.0"	12.0"		
		60	12.0"	12.0"	12.0"	11.5"		

ANCHOR NOTES:

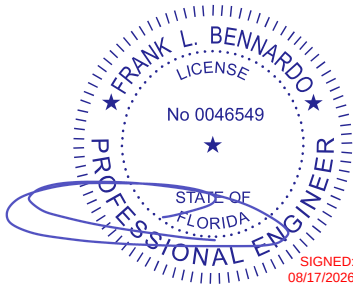
- ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
- ENTER ANCHOR SCHEDULE BASED ON PANEL FASTENER SPACING, THE EXISTING STRUCTURE MATERIAL, & ANCHOR TYPE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN. THIS SHEET APPLIES TO CONNECTION TYPE "C1" AND "C2" ONLY (SEE MOUNTING DETAILS ON SHEET 3 FOR IDENTIFICATION OF CONNECTION TYPE). "H" HEADER AND "U" HEADER OPTIONS ARE NOT APPLICABLE FOR THESE TABLES.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- HOLLOW BLOCK HOST STRUCTURE SHALL CONFORM TO ASTM C90 BLOCK.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES. WALL FINISHES SHALL BE LIMITED TO 1/4" MAX OR SHALL BE VERIFIED BY OTHERS TO ADEQUATELY TRANSFER LOADS TO HOST STRUCTURE.
- CONCRETE ANCHORS NOTED HEREIN SHALL BE EMBEDDED TO UN-CRACKED CONCRETE ONLY.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
- WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" X 4" (MIN.) WOOD STUD (3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING). WOOD STUD SHALL BE G=0.42 OR GREATER DENSITY, U.N.O. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
- REMOVABLE ANCHORS ARE: DEWALT PANELMATE, ALL-POINTS SOLID-SET.
- MACHINE SCREWS SHALL HAVE 1/2" MINIMUM ENGAGEMENT OF THREADS INTO THE BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT) U.N.O.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO OR OTHER WALL FINISHES.
-  DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
-  DIRECT MOUNTING CONDITIONS.
- LINEAR INTERPOLATION IS NOT PERMITTED FOR USE WITH THE ANCHOR SCHEDULES LISTED ON THIS SHEET.
- PROVIDE KEYHOLE WASHER FOR 1/4-20 SIDEWALK BOLTS

ALTERNATE ANCHOR NOTE:

FOR ALL 1/4" AND 5/16" DIAMETER ANCHOR OPTIONS LISTED IN THE ANCHOR SCHEDULES, AN EQUIVALENT DIAMETER HILLMAN/ALL-POINTS SOLID-SET ANCHOR (CARBON OR STAINLESS STEEL) MAY BE USED IN LIEU OF THE OPTION(S) LISTED SO LONG AS THE LISTED MINIMUM EMBEDMENT, EDGE DISTANCE AND SPACING ARE ACHIEVED.

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

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REMARKS	DRWN	CHKD	DATE
2020 FBC (20-28341)	CCB	FLB	10/26/20
2023 FBC (23-65158)	MRT	RWN	10/04/23
2026 FBC UPDATE	MEF	CCB	07/10/26

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SCALE: NTS UNLESS NOTED

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