



Product Approval USER: Public Use

Product Approval Menu > Product or Application Search > Application List > Application Detail

FL6418-R2 Application Type Revision 2007 Code Version **Application Status** Approved

Comments

Archived

Product Manufacturer Transparent Protection Systems, Inc.

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Quality Assurance Representative

Address/Phone/Email

Shutters Category Storm Panels Subcategory

Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed

Florida Professional Engineer

Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed Frank L. Bennardo, P.E.

the Evaluation Report

Florida License PE-0046549

Quality Assurance Entity National Accreditation and Management Institute

Quality Assurance Contract Expiration Date 12/31/2012

Validated By Jorge A. Pomerantz, P.E.

Validation Checklist - Hardcopy Received

Certificate of Independence FL6418_R2_COI_Cert_Indep.pdf

Referenced Standard and Year (of Standard) Standard <u>Year</u>

> **ASTM E1886** 2002 **ASTM E1996** 2002 ASTM E330 2002

Equivalence of Product Standards

Certified By

Sections from the Code

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Product Approval Method Method 1 Option D

Date Submitted 12/31/2008 Date Validated 12/31/2008 Date Pending FBC Approval 01/09/2009 Date Approved 02/03/2009

Summary of Products

	I .						
FL #	Model, Number or Name	Description					
6418.1	ValueGuard Storm Panels	ValueGuard Polymer Storm Panels With MaxLite Combination Polymer/Polycarbonate System					
_	tside HVHZ: Yes s \ \ g drawings for design limitations	Installation Instructions FL6418_R2_II_Dwg.pdf Verified By: Frank L. Bennardo, P.E. PE0046549 Created by Independent Third Party: Yes Evaluation Reports FL6418_R2_AE_Eval_Report.pdf					
(allowable spans, moun etc.)	ting conditions, anchor options,	FL6418_R2_AE_Test_Reports.pdf Created by Independent Third Party: Yes					



Department of Community Affairs
Florida Building Code Online
Codes and Standards
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Product Approval Accepts:



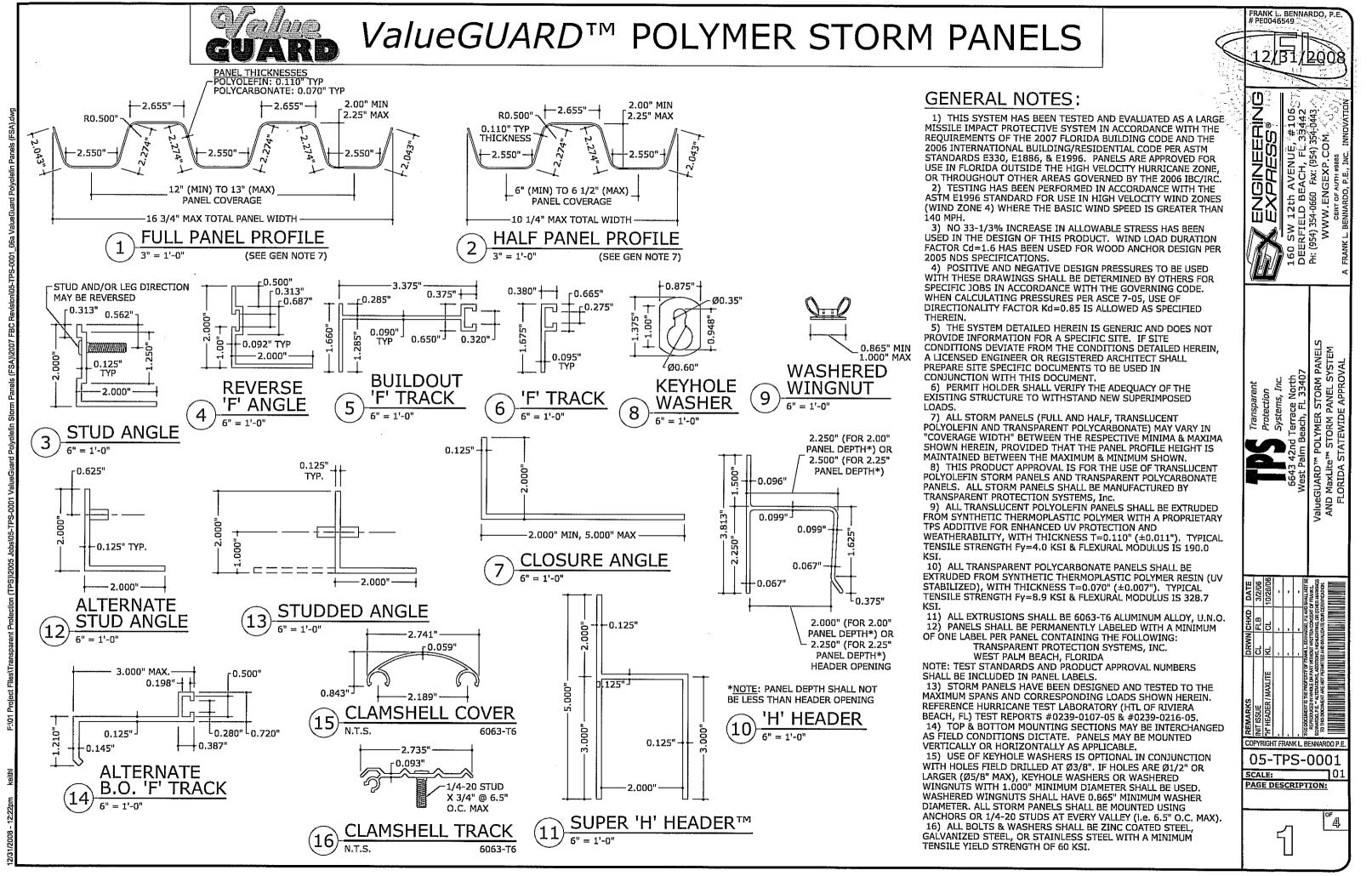








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ValueGUARD™ STORM PANEL SYSTEM

MAXIMUM PANEL MAXIMUM PANEL SPAN SCHEDULE SPAN SCHEDULE (POSITIVE CONN.) (W/ "H" HEADERS)

-	
LOAD (psf)	MAX SPAN (ft)
25	10'-0"
30	10'-0"
35	10'-0"
40	10'-0"
45	9'-3"
50	8'-8"
55	8'-2"
60	7'-8"
65	7'-3"
70	6'-4"
75	5'-7"
80	4'-11"
85	4'-3"
90	3'-9"

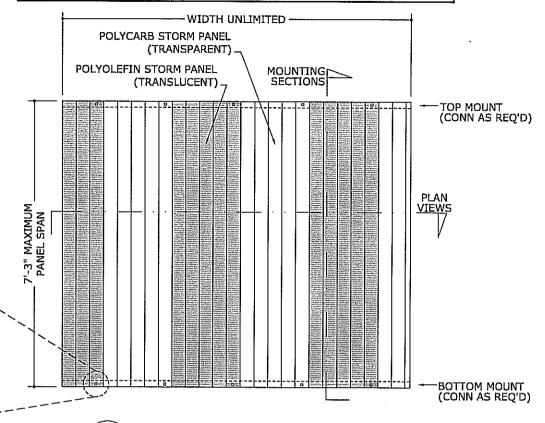
	LOAD (psf)	MAX SPAN (ft)
	26.5	7'-3"
-	35	5'-10"
	55	4'-9"
1	70	3'-9"

MAXIMUM SPAN SCHEDULE NOTES:

- 1. SPANS SHOWN IN MAX PANEL SPAN SCHEDULES ARE MAXIMUM ALLOWABLE SPANS AT EACH RESPECTIVE DESIGN PRESSURE.
- 2. "POSITIVE CONNECTION" SPAN SCHEDULE MAY BE USED TO DETERMINE MAXIMUM ALLOWABLE SPANS FOR PANELS INSTALLED USING ANY COMBINATION OF MOUNTING EXTRUSIONS INVOLVING A POSITIVE CONNECTION - i.e. ALL INSTALLATIONS WHICH DO NOT INCLUDE AN "H" HEADER.
- 3. SPAN SCHEDULE LABELLED FOR USE "WITH 'H' HEADERS" MUST BE USED FOR ALL INSTALLATIONS WHERE THE "H" HEADER IS USED.
- 4. ALL TABLES ARE VALID FOR PANELS MOUNTED HORIZONTALLY OR VERTICALLY. SPAN DIRECTION IS ALWAYS PERPENDICULAR TO LINE OF ANCHORAGE.

MaxLITE™ STORM PANEL SYSTEM

ALTERNATING POLYOLEFIN & POLYCARBONATE STORM PANELS (Non-HVHZ)



TYPICAL ELEVATION

MaxLITE™ STORM PANEL SYSTEM

MAX PANEL SPAN: 7'-3" MAX DESIGN LOAD: ±65 PSF

MaxLITE™ STORM PANEL SYSTEM IS NOT VALID FOR USE WITH "H" HEADERS.

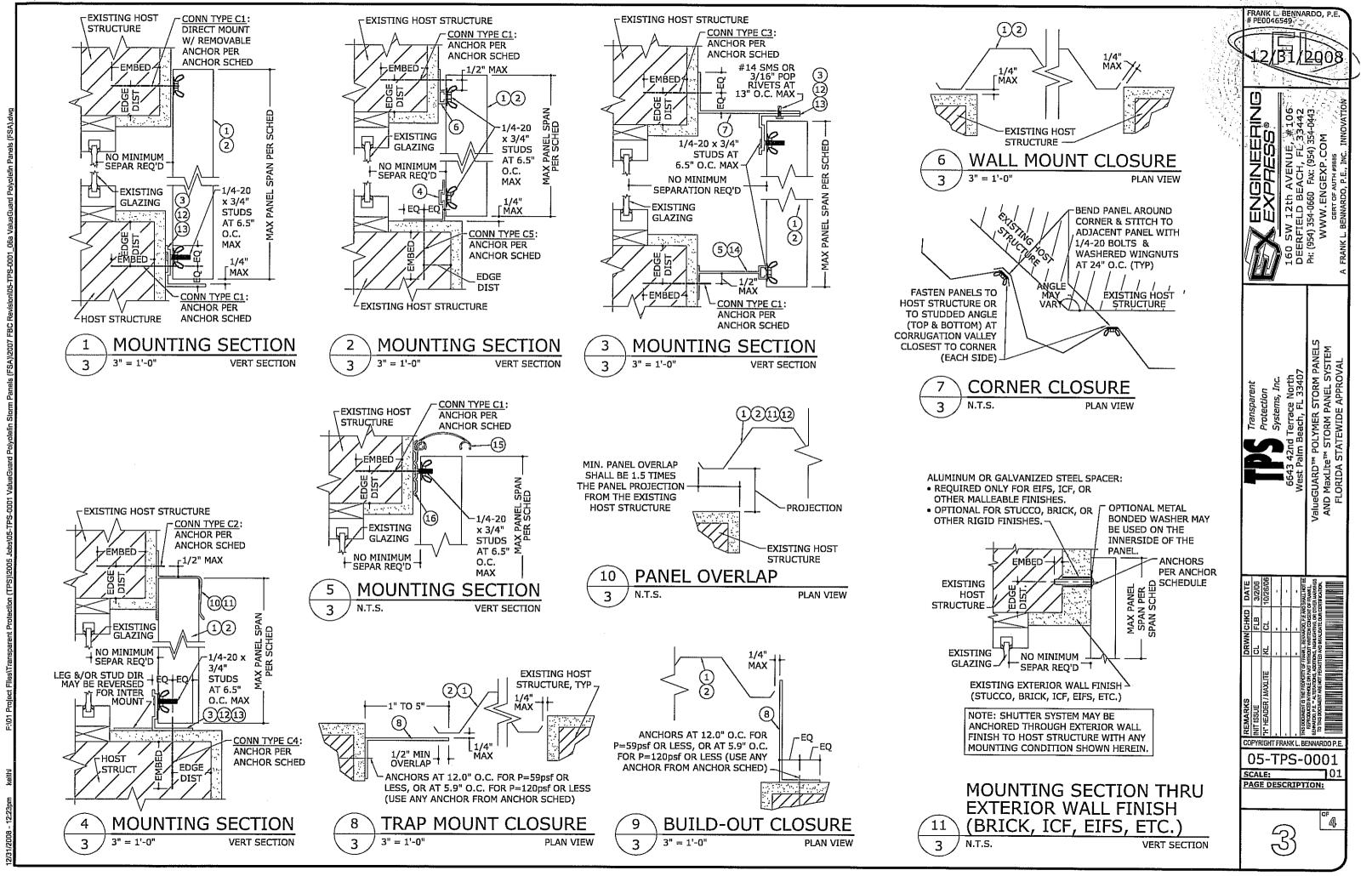
FRANK L. BENNARDO, P.E # PE0046549



05-TPS-0001

PAGE DESCRIPTION:

2



AN	CHOR	SCHED
JST IRUCT.	ANCHOR	

	1								L BATRI I	DC5 D	TCTABL						
∥ ;			2" MIN EDGE DISTANCE Spans Up To 6'-0" Spans Up To 8'-6" Spans Up To 10'-0"														
JST RUCT.		LOAD															
SES	ANCHOR	(psf)			ONN TY	i —	سم ا			YT NNC	: -	l		1	ONN TY	1	ı
IN			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
	1/4" TAPCON (ELCO OR	30		13.0"		13.0"	,		13.0"							13.0"	
	ITW) WITH 1-3/4" EMBED	38	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"					13.0"	13.0"		13.0"	
	(3192psi MIN CONC)	47		13.0"	13.0"	13.0"	13.0"			13.0"		13.0"	13.0"	9.5"	9.9"	12.8"	12.8"
	WHO WHO WAS	54	13.0"	13.0" 9.4"	13.0" 9.8"	13.0"		13.0"	9.9"		13.0"		13.0"	9.4"	9.8"	12.8"	
	4 / AT EL CO DANIEL MATE	120 30	13.0" 13.0"	13.0"	13.0"	12.8" 13.0"	12.8"	13.0"	9.4"		12.8"	12.8"	13.0"	9.4"	9.8"	12.8"	
	1/4" ELCO PANELMATE WITH 1-3/4" MIN EMBED		13.0"									13.0"	13.0"	13.0"		13.0"	13.0"
	(3350psi MIN CONC)	38 47		13.0"	13.0" 13.0"	13.0"	13.0"		13.0" 13.0"			13.0"	13.0"			13.0"	
ш		54	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"		13.0"	13.0"	13.0"	13.0" 13.0"		13.0"		
		120	13.0"	13.0"	13.0"	13.0"	13.0"		13.0"	13.0"	13.0"	13.0"			13.0"		1
<u>E</u>	to A committee	30	13.0"	13.0"		13.0"	13.0"		13.0"			13.0"	13.0"		13.0"		
CONCRETE	1/4-20 ALL POINTS SOLID-	38		13.0"		13.0"	13.0"					13.0"	13.0"		13.0"		13.0"
Ū	SET WITH 7/8" MIN EMBED	47	13.0"	13.0"	13.0"	13.0"	13.0"							13.0"			·
	(3000psi MIN CONC)	- 47 54	13.0"			13.0"	13.0"		13.0"			13.0"	13.0"	13.0"			
	* 1	120	13.0"			13.0"	13.0"		13.0"						13.0"		13.0"
	4 /4 30 DOWERS CALK IN	30	13.0"			13.0"	13.0"	13.0"	13.0"		13.0"	13.0"	13.0"		13.0"	13.0"	
	1/4-20 POWERS CALK-IN	38			13.0"	13.0"	13.0"				12.6"	12.6"	13.0"		13.0"	10.7"	10.7"
	WITH 7/8" MIN EMBED (2000psi MIN CONC)	47	13.0"			13.0"	13.0"		13.0"		10.2"	10.2"		12.7"	13.0"	8.6"	8.6"
	* •	54		13.0"	13.0"	12.5"	12.5"		13.0"		8.9"	8.9"		-	13.0"	8.6"	8.6"
		120	13.0"	12.6"	13.0"	8.6"	8.6"	13.0"	12.6"	13.0"	8.6"	8.6"	13.0"	12.6"	13.0"	8.6"	8.6"
	1/4" TAPCON (ELCO OR	30	13.0"	13.0"	13.0"	13.0"	13.0"	9.6"	9.6"	9.6"	9.6"	9.6"	8.2"	8.2"	8.2"	8.2"	8.2"
	ITW) WITH 1-1/4" EMBED	38 1	10.8"	10.8"	10.8"	10.8"	10.8"	7.6"	7.6"	7.6"	7.6"	7.6"	6.5"	5.3"	6.5"	6.5"	6.5"
		47	8.7"	8.7"	8.7"	8.7"	8.7"	6.2"	4.7"	5.6"	6.2"	6.2"	5.2"	3.5"	3.6"	5.2"	4.9"
	- annenna>	54	7.6"	7.6"	7.6"	7.6"	7.6"	5.4"	3.6"	3.8"	5.4"	5.1"	5.2"	3.5"	3.6"	5.2"	4.8"
	4	120	5.2"	3.5"	3.6"	5.2"	4.8"	5.2"	3.5"	3.6"	5.2"	4.8"	5.2"	3.5"	3.6"	5.2"	4.8"
	1/4" ELCO PANELMATE	30	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	11.0"	11.0"	11.0"	11.0"	11.0"
	(FEMALE, MALE, OR PLUS)	38	13.0"	13.0"	13.0"	13.0"	13.0"	10.2"	10.2"	10.2"	10.2"	10.2"	8.7"	7.1"	8.7"	8.7"	8.7"
꽁	W/ 1-1/4" MIN EMBED	47	11.7"	11.7"	11.7"	11.7"	11.7"	8.3"	6.4"	7.6"	8.3"	8.3"	7.0"	4.7"	4.9"	7.0"	6.5"
BLOCK	* = mmmmp	54	10.2"	10.2"	10.2"	10.2"	10.2"	7.2"	4.9"	5.2"	7.2"	6.9"	7.0"	4.6"	4.8"	7.0"	6.5"
	THUMWID	120	7.0"	4.6"	4.8"	7.0"	6.5"	7.0"	4.6"	4.8"	7.0"	6.5"	7.0"	4.6"	4.8"	7.0"	6.5"
l s	1/4-20 ALL POINTS SOLID-	30	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0°	13.0"
НОГГОМ	SET WITH 7/8" MIN EMBED	38	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"
오		47			13.0"		13.0"	13.0"	13.0"	13.0"	13.0"			12.1"	12.7"	12.7"	12.7"
	*	54	13.0"		13,0"		13,0"	13.0"	12.7"		13.0"	13.0"	13.0"			12.7"	12.7"
	,	120	13.0"		12.6"		12.7"	13.0"	12.1"		12.7"	12.7"	13.0"	12.1"		12.7"	12.7"
	1/4-20 POWERS CALK-IN	30	13.0"	13.0"		13.0"	13.0"	13,0"				13.0"	13.0"	13.0"			12.5"
	WITH 7/8" MIN EMBED	38	13.0"			13.0"	13.0"	13,0"				11.6"	11.1"		11.1"	9,9"	9.9"
		47	13.0"	13.0"		13.0"	13.0"	10.6"	8.1"	9.7"	9.4"	9.4"	9.0"	6.0"	6.2"	8.0"	8.0"
	*	54	13.0"	13.0"	13.0"	11.6"	11.6"	9.2"	6.2"	6.6"	8.2"	8.2"	9.0"	5.9"	6.2"	8.0"	8.0"
		120	9.0"	5.9"	6.2"	8.0"	8.0"	9.0"	5.9"	6.2"	8.0"	8.0"	9.0"	5.9"	6.2"	8.0"	8.0"

_															700000			
ے ا								3/4" MIN EDGE DISTANCE										
ĻΫ				Spans	Up To	6'-0"			Spans	Up To	8'-6"			Spans	Up To	10'-0"		
HOST STRUCT.	ANCHOR	LOAD		CC	YT NNÇ	PE			CC	YT NNC	PE			CC	ут иис	PE	_	
ΗS	ANCHOR	(psf)	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	
	1/4" TAPCON (ELCO OR	30	13.0"	13.0"	13.0"	13.0"	13.0"	10.0"	10.0"	10.0"	10.0"	10.0"	8.5"	8.5"	8.5"	8.5"	8.5"	
	ITW) OR #14 WOOD	38	11.2"	11.2"	11.2"	11.2"	11.2"	7.9"	7.9"	7.9"	7.9"	7.9"	6.7"	5.5"	6.7"	6.7"	6.7"	
	SCREW W/ 1-1/2" EMBED	47	9.1"	9.1"	9.1"	9.1"	9.1"	6.4"	4.9"	5.9"	6.4"	6.4"	5.4"	3.6"	3.8"	5.4"	5.1"	
	<u> </u>	54	7.9"	7.9"	7.9"	7.9"	7.9"	5.6"	3.8"	4.0"	5.6"	5.3"	5.4"	3.6"	3.7"	5.4"	5.0"	
-	<u> </u>	120	5.4"	3.6"	3.7"	5.4"	5.0"	5.4"	3.6"	3.7"	5.4"	5.0"	5.4"	3,6"	3.7"	5.4"	5.0"	
	1/4" ELCO PANELMATE	30	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	
	(FEMALE, MALE, OR PLUS) W/ 1-7/8" MIN EMBED	38	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	
		47	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	
	* =	54	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"		13.0"		13.0"	13.0"	
8	- munump	120	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	
8	1/4" LAG SCREW OR HANGAR	30	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	10.2"	10.2"	13.0"	13.0"	13.0"	8.6"	8.6"	
-	BOLTW/MIN 2-3/32" THREAD PENETRINTHREAD	38	13.0"	13.0"	13.0"	11.4"	11.4"	13.0"	13.0"	13.0"	8.0"	8.0"	13.0"	13.0"	13.0"	6.8"	6.8"	
	PENETR	47	13.0"	13.0"	13.0"	9.2"	9.2"	13.0"	13.0"	13.0"	6.5"	6.5"	13.0"	13.0"	13.0"	5.5"	5.5"	
		54	13.0"	13.0"	13.0"	8.0"	8.0"	13.0"	13.0"	13.0"	5.6"	5.6"	13.0"	13.0"	13.0"	5.5"	5.5"	
	*	120	13.0"	13.0"	13.0"	5.5"	5.5"	13.0"	13.0"	13.0"	5.5"	5.5"	13.0"	13.0"	13.0"	5.5"	5.5"	
	7/16" WOOD BUSHING W/	30	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	
	7/8" MIN EMBED & 1/4-20	38	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	11.9"	13.0"	13.0"	13.0"	
	S.S. MACHINE SCREW	47	13.0"	13.0"	13.0"	13.0"	13.0"	13.0"	10.7"	12.7"	13.0"	13.0"	11.8"	7.9"	8.2"	11.8"	11.0"	
	* 中侧侧	54	13.0"	13.0"	13.0"	13.0"	13.0"	12.1"	8.2"	8.7"	12.1"	11.5"	11.8"	7.8"	8.1"	11.8"	10.9"	
	-1. Hallith	120	11.8"	7.8"	8.1"	11.8"	10.9"	11.8"	7.8"	8.1"	11.8"	10.9"	11.8"	7.8"	8.1"	11.8"	10.9"	

MINIMUM SPAN **SCHEDULE**

ONE (1) CLOSURE AT TOP OR BOTTOM

TOP OR I

HEDULE	WITHOUT CLOSURE											
1) CLOSURE AT R BOTTOM	DIRECT MOUNT	STUD ANGLE (WALL MOUNT)	"F" TRACK	REVERSE "F" ANGLE	B.O. 2x5 + STUD ANGLE	B.O. "F" TRACK	"H" OR SUPER "H" HEADER	STUD ANGLE (TRAP MOUNT)				
DIRECT MOUNT	32"	30"	33"	30"	30"	32"	30"	30"				
STUD ANGLE (WALL MOUNT)	32"	30"	33"	30"	30"	32"	30"	30"				
"F" TRACK	33"	30"	35"	30"	30"	33"	30"	30"				
REVERSE "F" ANGLE	32"	30"	33"	30"	30"	32"	30"	30"				
B.O. 2x5 + STUD ANGLE	32"	30"	33"	30"	30"	32"	30"	30"				
B.O. "F" TRACK	32"	30"	33"	30"	30"	32"	30"	30"				
"H" OR SUPER "H" HEADER	30"	30"	30"	30"	30"	30"	30"	30"				
STUD ANGLE (TRAP MOUNT)	32"	30"	33"	30"	30"	32"	30"	30"				

TOP OR BOTTOM MOUNT

BOTTOM MOUNT

MINIMUM SPAN S

NO

	HEDULE OP/BOTTOM CLOSURES	DIRECT MOUNT	STUD ANGLE (WALL MOUNT)	"F" TRACK	REVERSE "F" ANGLE	B.O. 2x5 + STUD ANGLE	B.O. "F" TRACK	"H" OR SUPER "H" HEADER	STUD ANGLE
	DIRECT MOUNT	53"	32"	55"	32"	32"	53"	30"	32
	STUD ANGLE (WALL MOUNT)	32"	30"	33"	30"	30"	32"	30"	30
OUNT	"F" TRACK	55"	33"	57"	33"	33"	55"	30"	33
₫ l	REVERSE "F" ANGLE	32"	30"	33"	30"	30"	32"	30"	30
Σ	B.O. 2x5 + STUD ANGLE	32"	30"	33"	30"	30"	32"	30"	30
TOP	B.O. "F" TRACK	53"	32"	55"	32"	32"	53"	30"	32
$rac{1}{2}$	"H" OR SUPER "H" HEADER	30"	30"	30"	30"	30"	30"	30"	30
	STUD ANGLE (TRAP MOUNT)	32"	30"	33"	30"	30"	32"	30"	30

ANCHOR SCHEDULE NOTES:

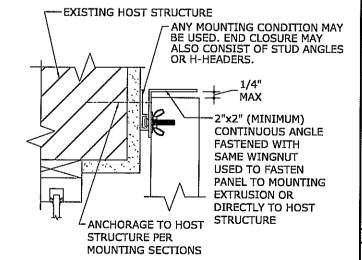
- 1. THIS ANCHOR SCHEDULE SHALL BE USED FOR ValueGUARD™ & MaxLite™ STORM PANEL SYSTEMS.
- 2. 1/4" TAPCONS MAY BE BY ITW OR BY ELCO. "ELCO PANELMATE" ANCHORS MAY BE MALE, FEMALE, OR PANELMATE PLUS, AS ILLUSTRATED. HEAD STYLE MAY BE STD 13/32" OR WASHERED 5/8" HEX HEAD.
- 3. ENSURE MINIMUM 2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK. EDGE DISTANCE OF 3/4" IS ACCEPTABLE FOR ANCHORS TO WOOD.
- 4. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.

5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

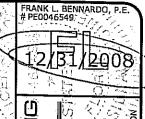
- 6. WHERE EXISTING STRUCTURE IS WOOD FRAMING. EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS. NOT INTO PLYWOOD.
- 7. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x4 (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING), WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- 8. ANCHOR SCHEDULE APPLIES FOR ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING, MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
- 9. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
- 10. * DESIGNATES REMAVABLE ANCHORS. PANELS SHALL BE MOUNTED DIRECTLY TO THE HOST STRUCTURE ONLY WITH THESE ANCHORS, LOCATED AT KEYHOLES AND LESS THAN OR EQUAL TO ALLOWABLE SPACING SHOWN IN ANCHOR SCHEDULE.

MINIMUM SPAN SCHEDULE NOTES

- 1. THESE SCHEDULES SHALL BE USED FOR ValueGUARD™ & MaxLite™ STORM PANEL SYSTEMS ("H" OR SUPER "H" HEADERS MAY NOT BE USED IN COMBINATION WITH MaxLite™ STORM PANEL SYSTEM).
- 2. SPANS SHOWN HERE ARE MINIMUM ALLOWABLE SPANS BASED ON ANY COMBINATION OF MOUNTING CONDITIONS AT TOP OR BOTTOM. PANEL LENGTHS LESS THAN THOSE NOTED IN TABLES ABOVE ARE NOT ACCEPTABLE.
- 3. NO SEPARATION FROM GLASS IS REQUIRED WHEN PANEL LENGTH IS GREATER THAN THAT NOTED FOR RESPECTIVE MOUNTING COMBINATIONS ABOVE.
- 4. SIDE CLOSURES REQUIRED IF GAP BETWEEN PANEL AND STRUCTURE **EXCEEDS DISTANCE SHOWN IN** HORIZONTAL SECTION DETAILS (REF. DETAILS 6/3, 9/3 AND 10/3).
- 5. TABLES ABOVE ARE VALID FOR PANELS MOUNTED HORIZONTALLY OR VERTICALLY.
- 6. TOP/BOTTOM CLOSURES MAY CONSIST OF NON-STRUCTURAL 28ga (0.018" MIN) GALV STEEL OR 0.022" MIN SHEET ALUMINUM OF ALLOY 5052-H32 OR 3004-H34. REFERENCE DETAILS HEREIN FOR DEPICTION OF TOP/BOTTOM CLOSURE MOUNTING REQUIREMENTS.
- 7. STORM PANELS MAY BE INSTALLED WITH A 12" MINIMUM SPAN WHEN INSTALLED WITH A CLOSURE ANGLE AT BOTH TOP AND BOTTOM.







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