



FL # **FL6417-R3**
Application Type **Revision**
Code Version **2010**
Application Status **Approved**
Comments
Archived

Product Manufacturer
Address/Phone/Email
**Transparent Protection Systems, Inc.
6643 42nd Terrace North
West Palm Beach, FL 33407**

Authorized Signature
**Frank Bernardo
frank@engexp.com**

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory
**Shutters
Storm Panels**

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 the Evaluation Report
Frank L. Bennardo, P.E.
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
FL6417_R3_COI_Cert_Indep.pdf

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM E1886	2002
	ASTM E1886	2005
	ASTM E1996	2002
	ASTM E1996	2005
	ASTM E330	2002

Equivalence of Product Standards
Certified By
**Florida Licensed Professional Engineer or Architect:
FL6417_R3_Equiv_Equiv_Std.pdf**

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted
Date Validated
Date Pending FBC Approval
Date Approved

12/16/2011
12/16/2011
12/26/2011
01/31/2012

Summary of Products

FL #	Model, Number or Name	Description
6417.1	ClearGuard Non-HVHZ Panels	ClearGuard Polycarbonate Storm Panels (Non-HVHZ Product)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See engineering drawings for design limitations (allowable spans, mounting conditions, anchor options, etc.)		Installation Instructions EL6417_R3_II_DWG.pdf Verified By: Frank L. Bernardo, P.E. PE0046549 Created by Independent Third Party: Yes Evaluation Reports EL6417_R3_AE_Eval_Rpt.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

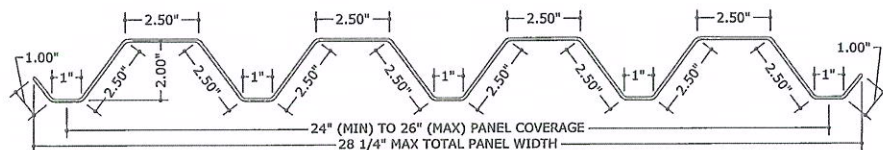
Contact Us :: 1940 North Monroe Street, Tallahassee, FL 32399 Phone: 850-487-1824

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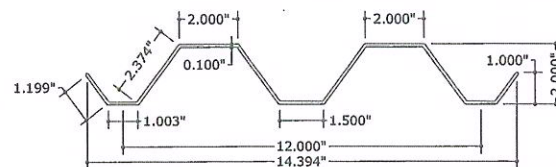
Product Approval Accepts:





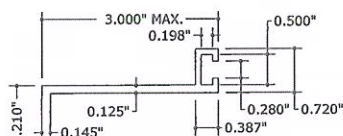
11 "CLEARMAX™" DOUBLE-WIDE PANEL PROFILE
3" = 1'-0" (SEE GEN NOTE 6)

MOUNT WITH
FASTENERS
OR STUDS AT
13" O.C. MAX

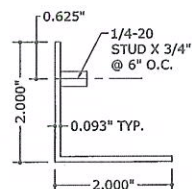


12 ALT. FULL PANEL PROFILE
N.T.S. (SEE GEN NOTE 6)

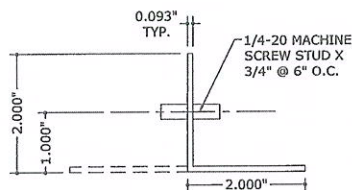
MOUNT WITH
FASTENERS
OR STUDS AT
13" O.C. MAX



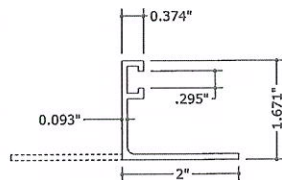
13 ALTERNATE
B.O. 'F' TRACK
6" = 1'-0"



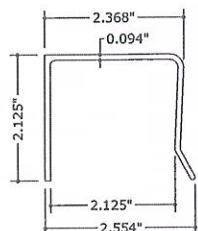
14 ALTERNATE STUD ANGLE
6" = 1'-0"



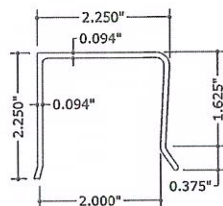
15 **STUDDED ANGLE**
6" = 1'-0"



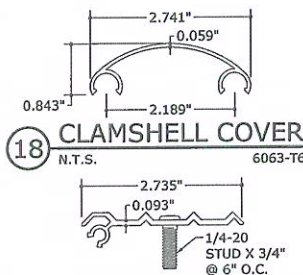
20 'F' TRACK ANGLE
6" = 1'-0"



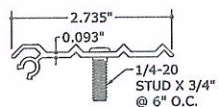
16 U-HEADER
N.T.S. 6063-T6



17 ALTERNATE
U-HEADER
N.T.S. 6063-T6



18 CLAMSHELL COVER
N.T.S. 6063-T6



19 CLAMSHELL TRACK
N.T.S. 6063-T6

MAXIMUM PANEL
SPAN SCHEDULE
(POSITIVE CONN.)

LOAD (psf)	MAX SPAN (ft)
38	12'-0"
40	11'-5"
45	10'-1"
50	9'-1"
55	8'-3"
60	7'-7"
65	7'-0"
70	6'-7"
75	6'-1"
80	5'-9"
90	5'-1"
100	4'-7"
110	4'-2"
120	3'-10"

MAXIMUM PANEL
SPAN SCHEDULE
(W/ "H" HEADER)

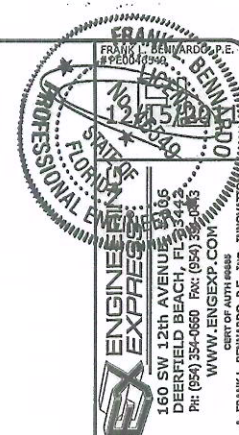
LOAD (psf)	MAX SPAN (ft)
17.3	8'-7"
24.2	7'-9"
34.6	7'-0"
41.6	6'-0"
55.4	5'-0"
104	4'-0"

MAXIMUM PANEL
SPAN SCHEDULE
(W/ "U" HEADER)

MAX SPAN (ft)	MAX DESIGN PRESSURES	
	POSITIVE (psf)	NEGATIVE (psf)
6'-3"	35	38
5'-3"	48	48
4'-4"	78	80

MAXIMUM SPAN
SCHEDULE NOTES:

1. SPANS SHOWN IN "MAX PANEL SPAN SCHEDULES" ARE MAXIMUM ALLOWABLE SPANS AT RESPECTIVE DESIGN PRESSURES.
2. THE "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" OR "U" HEADER.
3. THE "<WITH 'H' HEADER" SPAN SCHEDULE SHALL BE USED FOR ALL INSTALLATIONS WHICH INCLUDE AN "H" HEADER.
4. THE "<WITH 'U' HEADER" SPAN SCHEDULE SHALL BE USED FOR ALL INSTALLATIONS WHICH INCLUDE A "U" HEADER.
5. THE SPANS ARE VALID FOR PANELS MOUNTED HORIZONTALLY OR VERTICALLY. SPAN DIRECTION IS ALWAYS PERPENDICULAR TO LINE OF ANCHORAGE.



TPS
Transparent
Protection
Systems, Inc.

Systems, Inc.
55643 42nd Terrace North
West Palm Beach, FL 33407

**CLEARGUARD POLYCARBONATE STORM PANELS
FOR USE OUTSIDE THE HVHZ**

FOR USE OUTSIDE THE HVHZ
FLORIDA STATEWIDE APPROVAL

REMARKS	DRAWN CHKD DATE
CORR ISSUE	CL FLB 8/17/04
2004 FIC	CL FLB 8/06/05
CHARACTER PROFILE ADDED	CL FLB 8/26/05
2010 FIC REVISIONS	KL CL 1/22/2010
2010 FIC REVISIONS	LEFT KL 1/29/2011

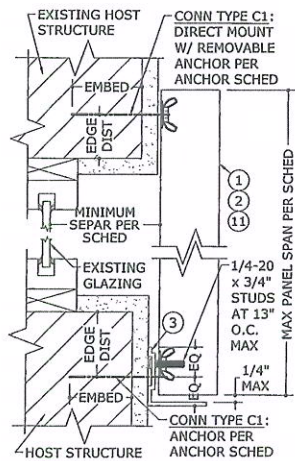
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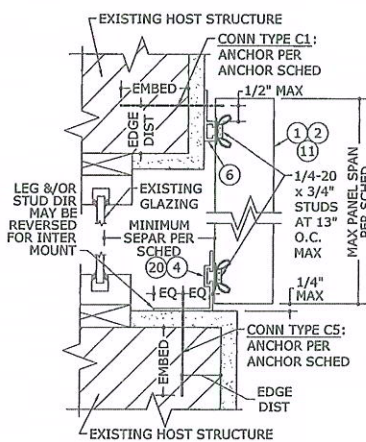
08-TPS-0008

SCALE: _____ **01**

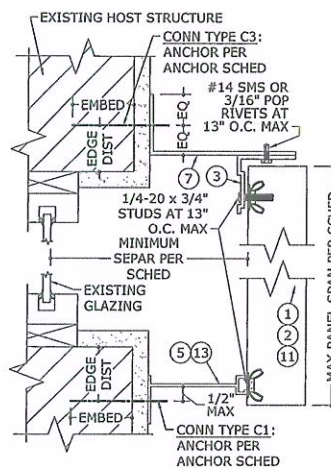
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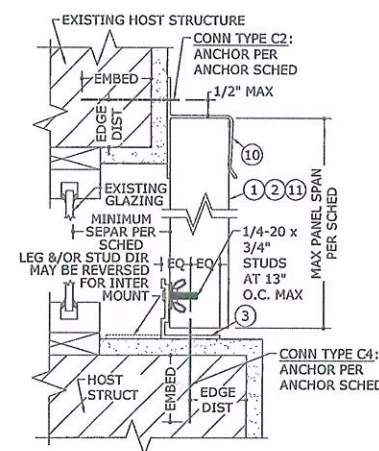
1 MOUNTING SECTION
3 3" = 1'-0" VERT SECTION



2 MOUNTING SECTION
3 3" = 1'-0" VERT SECTION



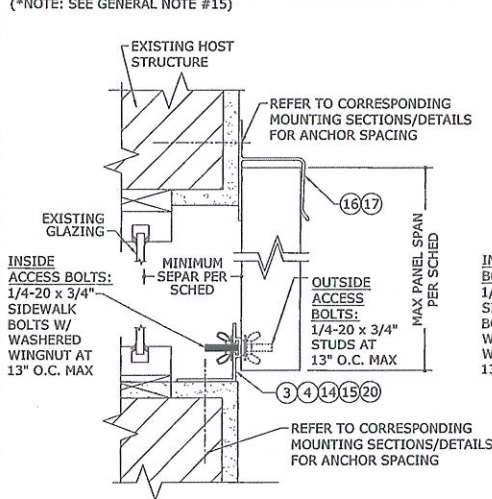
3 MOUNTING SECTION
3 3" = 1'-0" VERT SECTION



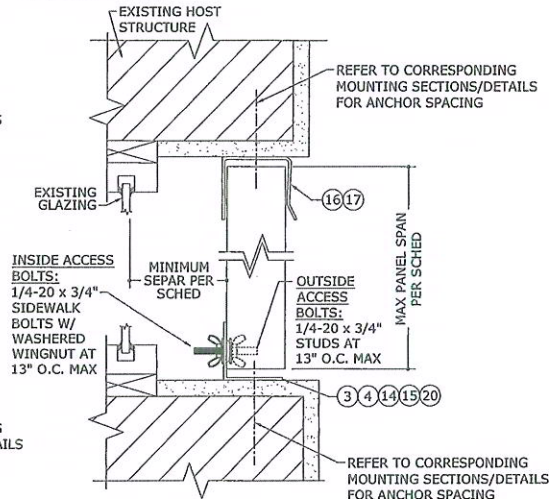
4 MOUNTING SECTION
3 3" = 1'-0" VERT SECTION

HURRI-OUT™ EGRESS STORM PANEL DETAILS*

(*NOTE: SEE GENERAL NOTE #15)



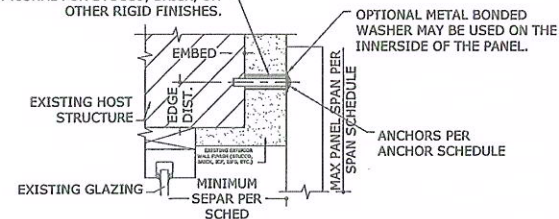
5 MOUNTING SECTION
3 N.T.S. VERT SECTION



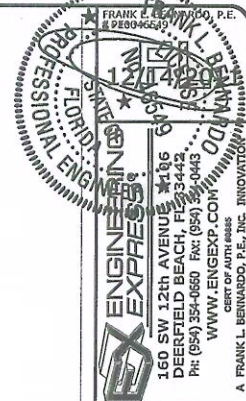
6 MOUNTING SECTION
3 N.T.S. VERT SECTION

- ALUMINUM OR GALVANIZED STEEL SPACER:
- REQUIRED ONLY FOR EIFS, ICF, OR OTHER MALLEABLE FINISHES.
 - OPTIONAL FOR STUCCO, BRICK, OR OTHER RIGID FINISHES.

NOTE: SHUTTER SYSTEM MAY BE ANCHORED THROUGH EXTERIOR WALL FINISH TO HOST STRUCTURE WITH ANY MOUNTING CONDITION SHOWN HEREIN.



7 MOUNTING SECTION THRU EXTERIOR WALL FINISH (BRICK, ICF, EIFS, ETC.)
3 N.T.S. VERT SECTION



Transparent Protection Systems, Inc.
6643 42nd Terrace North
West Palm Beach, FL 33407

CLEARGUARD POLYCARBONATE STORM PANELS
FOR USE OUTSIDE THE HVHZ
FLORIDA STATEWIDE APPROVAL

REVISIONS	DATE	BY	CHK	APP
001	8/17/04	FLB	FLB	BOS/008
002	12/29/08	FLB	FLB	12/29/08
003	12/29/08	FLB	FLB	12/29/08
004	12/29/08	FLB	FLB	12/29/08
005	12/29/08	FLB	FLB	12/29/08
006	12/29/08	FLB	FLB	12/29/08
007	12/29/08	FLB	FLB	12/29/08
008	12/29/08	FLB	FLB	12/29/08
009	12/29/08	FLB	FLB	12/29/08
010	12/29/08	FLB	FLB	12/29/08

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08-TPS-0008
SCALE: 106
PAGE DESCRIPTION:

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ANCHOR SCHEDULES

HOST STRUCT.	ANCHOR	LOAD (psf)	2" MIN EDGE DISTANCE														
			Spans Up To 6'-0" CONN TYPE					Spans Up To 8'-6" CONN TYPE					Spans Up To 12'-0" CONN TYPE				
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
CONCRETE	1/4" TAPCON (ELCO OR ITW) WITH 1-3/4" EMBED (3192psi MIN CONC)	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"
		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"	13.0"	13.0"
		120	13.0"	9.8"	10.3"	13.0"	11.6"	13.0"	9.8"	10.3"	13.0"	11.6"	13.0"	9.8"	10.3"	13.0"	11.6"
	1/4" ELCO PANELMATE WITH 1-3/4" MIN EMBED (3350psi MIN CONC)	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"
		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"	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"	13.0"	13.0"	13.0"	13.0"	13.0"
	1/4-20 ALL POINTS SOLID-SET WITH 7/8" MIN EMBED (3000psi MIN CONC)	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"
		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"
HOLLOW BLOCK	1/4" TAPCON (ELCO OR ITW) WITH 1-1/4" EMBED	30	10.9"	10.9"	10.9"	10.9"	10.9"	7.7"	7.7"	7.7"	7.7"	7.7"	5.8"	5.5"	5.8"	5.8"	5.8"
		38	8.6"	8.6"	8.6"	8.6"	8.6"	6.1"	6.1"	6.1"	6.1"	6.1"	4.6"	3.3"	3.6"	4.6"	3.9"
		47	7.0"	7.0"	7.0"	7.0"	7.0"	4.9"	4.9"	4.9"	4.9"	4.9"	3.0"	3.0"	4.3"	3.4"	3.4"
		54	6.1"	6.1"	6.1"	6.1"	6.1"	4.3"	4.3"	4.3"	4.3"	4.3"	3.0"	3.0"	4.3"	3.4"	3.4"
		120	4.3"	4.3"	4.3"	4.3"	4.3"	3.0"	3.0"	4.3"	4.3"	4.3"	3.0"	3.0"	4.3"	3.4"	3.4"
	1/4" ELCO PANELMATE (FEMALE, MALE, OR PLUS) W/ 1-1/4" MIN EMBED	30	13.0"	13.0"	13.0"	13.0"	13.0"	10.4"	10.4"	10.4"	10.4"	10.4"	7.8"	7.4"	7.8"	7.8"	7.8"
		38	11.6"	11.6"	11.6"	11.6"	8.2"	8.2"	8.2"	8.2"	8.2"	8.2"	6.1"	4.4"	4.9"	6.1"	5.2"
		47	9.4"	9.4"	9.4"	9.4"	6.8"	5.1"	6.1"	6.6"	6.1"	5.7"	3.9"	4.1"	5.7"	4.6"	4.6"
		54	8.2"	8.2"	8.2"	8.2"	5.8"	3.9"	4.1"	5.8"	4.6"	5.7"	3.9"	4.1"	5.7"	4.6"	4.6"
		120	5.7"	3.9"	4.1"	5.7"	4.6"	5.7"	3.9"	4.1"	5.7"	4.6"	5.7"	3.9"	4.1"	5.7"	4.6"
	1/4-20 ALL POINTS SOLID-SET WITH 7/8" MIN EMBED	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"
		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"	13.0"	13.0"
		120	13.0"	10.1"	10.6"	10.4"	10.4"	13.0"	10.1"	10.6"	10.4"	10.4"	13.0"	10.1"	10.6"	10.4"	10.4"

ANCHOR SCHEDULE NOTES:

1. 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 WASHED 5/8" HEX HEAD.
2. ENSURE MINIMUM 2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK. EDGE DISTANCE OF 3/4" IS ACCEPTABLE FOR ANCHORS TO WOOD.
3. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
6. 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" (FOR G=0.55 OR GREATER DENSITY) OR "SPRUCE-PINE-FIR" (FOR G=0.42 OR GREATER DENSITY).
7. 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.
8. 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.
9. * DESIGNATES REMOVABLE 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.
10. // DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.

HOST STRUCT.	ANCHOR	LOAD (psf)	3/4" MIN EDGE DISTANCE														
			Spans Up To 6'-0" CONN TYPE					Spans Up To 8'-6" CONN TYPE					Spans Up To 12'-0" CONN TYPE				
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
WOOD (G=0.55 MIN)	1/4" TAPCON (ELCO OR ITW) OR #14 WOOD SCREW W/ 1-1/2" EMBED	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"
		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"	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"	13.0"	13.0"	13.0"	13.0"	13.0"
	1/4" ELCO PANELMATE (FEMALE, MALE, OR PLUS) W/ 1-7/8" MIN EMBED	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"
		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"	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"	13.0"	13.0"	13.0"	13.0"	13.0"
	7/16" WOOD BUSHING W/ 7/8" MIN EMBED & 1/4-20 S.S. MACHINE SCREW	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"
		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"
WOOD (G=0.42 MIN)	1/4" TAPCON (ELCO OR ITW) OR #14 WOOD SCREW W/ 1-1/2" EMBED	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"
		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"	13.0"	13.0"
		120	13.0"	10.2"	10.8"	10.9"	10.9"	13.0"	10.2"	10.8"	10.9"	10.9"	13.0"	10.2"	10.8"	10.9"	10.9"
	1/4" ELCO PANELMATE (FEMALE, MALE, OR PLUS) W/ 1-7/8" MIN EMBED	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"
		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"	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"	13.0"	13.0"	13.0"	13.0"	13.0"
	1/4" LAG SCREW OR HANGAR BOLT W/ MIN 2-3/32" THREAD PENETR	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"
		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"	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"	13.0"	13.0"	13.0"	13.0"	13.0"

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Transparent Protection Systems, Inc.
 6643 42nd Terrace North
 West Palm Beach, FL 33407
 FOR USE OUTSIDE THE HWZ
 FLORIDA STATEWIDE APPROVAL

REMARKS: DRAWN: CHD DATE: 8/17/04
 DESIGNED: CLB
 CHECKED: CLB
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