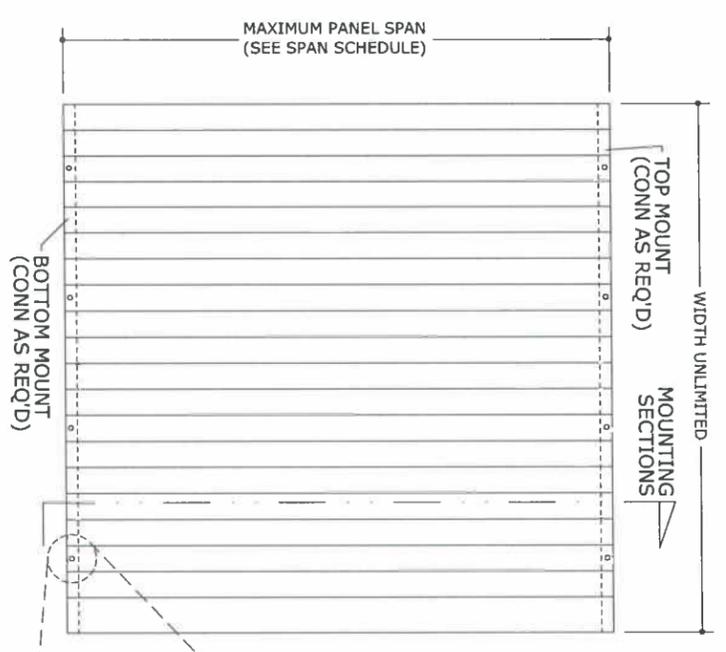
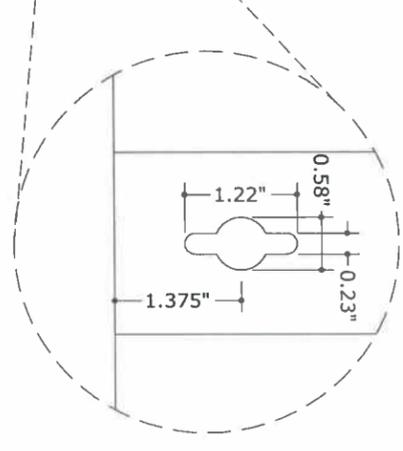


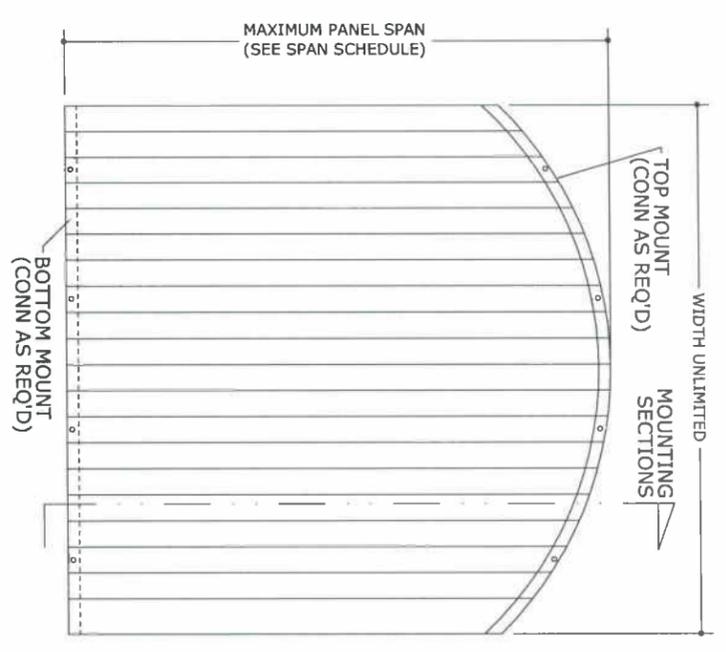
# CLEARGUARD® POLYCARBONATE STORM PANELS (Non-HVHZ)



**1 TYPICAL ELEVATION**  
1 N.T.S.



**2 KEYHOLE DETAIL**  
1 N.T.S.  
ALT: FIELD DRILL Ø3/8" HOLE (OR Ø5/8" HOLE W/ KEYHOLE WASHER)



**3 ALT. ARCH TOP**  
1 N.T.S.

**GENERAL NOTES:**

- 1) THIS DRAWING SHALL SERVE AS AN ADDENDUM TO FLORIDA STATEWIDE PRODUCT APPROVAL #FL6417 (ENGINEERING EXPRESS DRAWING #03-155-1343b). UNLESS EXPRESSLY NOTED OTHERWISE HEREIN, ALL LIMITATIONS OF USE DICTATED IN THE ABOVE-MENTIONED DRAWING, INCLUDING, BUT NOT LIMITED TO NOTES, DETAILS, SPAN SCHEDULES, ANCHORAGE, ETC. SHALL APPLY.
- 2) THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2004 AND 2007 EDITIONS OF THE FLORIDA BUILDING CODE AND THE 2006 INTERNATIONAL BUILDING/RESIDENTIAL CODE PER ASTM STANDARDS E330, E1886, & E1996. PANELS ARE APPROVED FOR USE IN FLORIDA OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, OR THROUGHOUT OTHER AREAS GOVERNED BY THE 2006 IBC/IRC.
- 2) TESTING HAS BEEN PERFORMED IN ACCORDANCE WITH THE ASTM E1996-02 STANDARD FOR USE IN HIGH VELOCITY WIND ZONES (WIND ZONE 4) WHERE THE BASIC WIND SPEED IS GREATER THAN 140 MPH.
- 3) NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
- 4) POSITIVE AND NEGATIVE DESIGN PRESSURES TO BE USED WITH THESE DRAWINGS SHALL BE DETERMINED BY OTHERS FOR SPECIFIC JOBS IN ACCORDANCE WITH THE GOVERNING CODE. WHEN CALCULATING PRESSURES PER ASCE 7, USE OF DIRECTIONALITY FACTOR Kd=0.85 IS ALLOWED.
- 5) 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.
- 6) ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.N.O.
- 7) STORM PANELS AND MOUNTING CONDITIONS SHOWN HEREIN HAVE BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS AND CORRESPONDING LOADS SHOWN HEREIN. REFERENCE HURRICANE TEST LABORATORY, LLC (HTL OF RIVERA BEACH, FL) TEST REPORT #0239-1013-07.
- 8) TOP & BOTTOM MOUNTING SECTIONS MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. U-HEADERS SHALL ONLY BE INSTALLED AT TOP. PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE (EXCEPT U-HEADERS SHALL BE USED WITH VERTICAL PANELS ONLY).
- 9) USE OF KEYHOLE WASHERS IS OPTIONAL IN CONJUNCTION WITH ANY MOUNTING CONDITION. HOLES MAY BE FIELD DRILLED AT Ø3/8" (OR Ø5/8" WITH KEYHOLE WASHER) WITH ANY FASTENER TYPE. WASHERED WINGNUTS SHALL HAVE 0.865" MINIMUM WASHER DIAMETER.
- 10) ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.

**MAXIMUM PANEL SPAN SCHEDULE**

MAX SPAN (ft)	MAX DESIGN POSITIVE PRESSURES (psf)	MAX DESIGN NEGATIVE PRESSURES (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 EACH RESPECTIVE DESIGN PRESSURE.
2. THE MAXIMUM PANEL SPAN SCHEDULE MAY BE USED TO DETERMINE MAXIMUM ALLOWABLE SPANS FOR PANELS INSTALLED USING ANY COMBINATION OF MOUNTING EXTRUSIONS SHOWN HEREIN.
4. TABLES ARE VALID FOR PANELS MOUNTED HORIZONTALLY OR VERTICALLY. SPAN DIRECTION IS ALWAYS PERPENDICULAR TO LINE OF ANCHORAGE.

**\*NOTE:** FOR ALL MOUNTING CONDITIONS SHOWN HEREIN, MINIMUM PANEL SPAN SHALL BE 30" WITH ONE (1) CLOSURE AT TOP OR BOTTOM. WITH NO CLOSURES, MINIMUM PANEL SPAN SHALL BE 32". CLOSURES SHALL BE PER DRAWING #03-155-1343b.

FRANK L. BENNARDO, P.E.  
#PE0046549  
05/08/2008

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**TPS** Transparent Protection Systems, Inc.  
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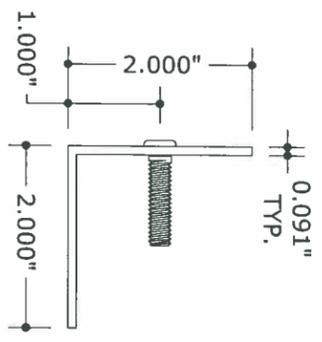
CLEARGUARD POLYCARBONATE STORM PANELS  
FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ)  
ADDENDUM DRAWING TO DRAWING #03-155-1343b

DATE	CHKD	DRWN	REMARKS
03/19/08	CL	KL	INIT ISSUE

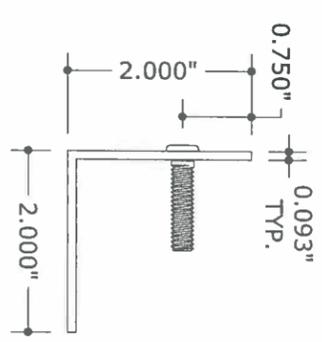
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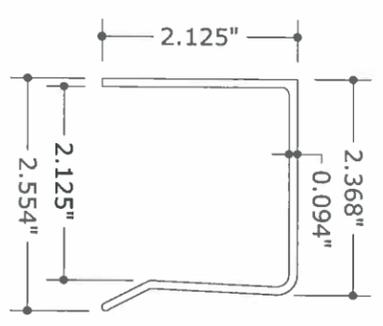




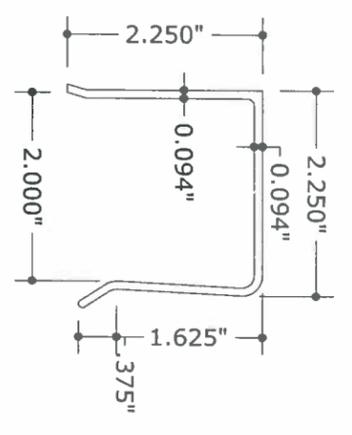
**1** STUDDED ANGLE  
N.T.S. 6063-T6



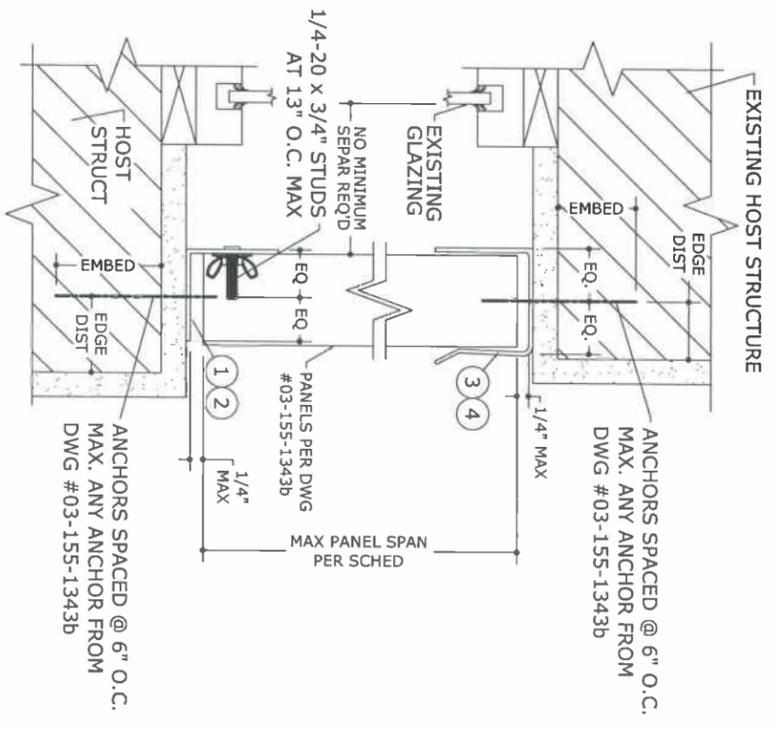
**2** ALTERNATE STUDDED ANGLE  
N.T.S. 6063-T6



**3** U-HEADER  
N.T.S. 6063-T6



**4** ALTERNATE U-HEADER  
N.T.S. 6063-T6



**1** MOUNTING SECTION  
N.T.S.

**2** VERT SECTION

REMARKS	DRWN	CHKD	DATE
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