

STRUCTURAL NOTES:

1. THIS NON-POROUS SYSTEM HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2014 (FIFTH EDITION) OF THE FLORIDA BUILDING CODE (FBC) FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONE (MIAMI-DADE / BROWARD COUNTIES). IT MAY BE INSTALLED IN WIND ZONE 4 AND/OR ESSENTIAL FACILITIES IN WIND ZONES 1,2,3 OR 4 WITH STORM BARS AS NOTED ON SHEET 2 OF 10. THE ADEQUACY FOR IMPACT, DEFLECTION AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 (HVHZ) OF THE ABOVE REFERENCED CODE, AND AS PER TAS 201, TAS 202 AND TAS 203 AS LISTED HEREIN AS WELL AS ADDITIONAL STANDARDS AS MENTIONED ELSEWHERE ON SHEET 1 OF 10.
2. DESIGN PRESSURE REQUIREMENTS OF A SPECIFIC SITE SHALL BE DETERMINED BY OTHERS IN CONFORMANCE TO SECTION 1609 OF THE FBC FOR A BASIC WIND SPEED (ALLOWABLE STRESS DESIGN) AS REQUIRED BY THE JURISDICTION WHERE THE SYSTEM WILL BE INSTALLED. ULTIMATE DESIGN LOADS (ULT) DETERMINED BY ASCE 7-10 SHALL BE REDUCED TO ALLOWABLE STRESS DESIGN LOADS (ASD) BY MULTIPLYING THE ULD BY 0.6 TO COMPARE THEM TO THE ASD PRESSURE RATINGS SHOWN ON SHEET 2. USE OF DIRECTIONALITY FACTOR Kd=0.05 IS ALLOWED.
3. IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2. LARGE MISSILE AS LISTED HEREIN.
4. NO 33-1/3% INCREASE IN ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. A 1.6 WIND LOAD SURFACTION FACTOR WAS USED TO CALCULATE SCREEN SPACINGS FOR LUG SCREWS INTO WOOD.
5. THIS PRODUCT EVALUATION DOCUMENT (PED) DETAIL HEREIN IS GENERAL AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY INFORMATION FROM THE ARCHITECT OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
6. THE CONTRACTOR AND/OR PERMIT HOLDER IS TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS SYSTEM INCLUDING VERIFYING THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND THE NEW SUPERIMPOSED LOADS SHOWN BELOW AND THE SOUNDNESS OF THE STRUCTURE WHERE THE SYSTEM IS TO BE ATTACHED TO ENSURE PROPER ANCHORAGE.
7. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT WHO WILL BECOME THE ENGINEER OF RECORD (EOR) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE PED. THE ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE PED ENGINEER SHALL SUBMIT TO THIS ENGINEER THE SITE SPECIFIC DRAWINGS FOR REVIEW. OF ITS AVAILABILITY FROM THE FLORIDA PRODUCT APPROVAL WEBSITE.
8. THIS SYSTEM MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN HEREIN.
9. (RESERVED)
10. (RESERVED)
11. CORRUGATED PANEL LIMITATIONS OF USE:
THE MAXIMUM SIZE SHALL BE 25 PSF MAX. PRESSURE @135 INCHES MAXIMUM WIDTH (CENTER / CENTER OF WALL FASTENERS). SEE TABLE ON SHEET 2 OF 10.
12. FLAT PANEL LIMITATIONS OF USE:
THE MAXIMUM ALLOWABLE DESIGN PRESSURES ARE: +60PSF/-60PSF. SEE TABLES ON SHEET 2 OF 10.
13. FOR DETERMINING INTERNAL PRESSURE IN THE ABOVE REFERENCED CODES, THIS PRODUCT IS CLASSIFIED AS NON-POROUS WITH A POROSITY OF LESS THAN 10% FOR THE CONDITIONS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. CLEAR PANELS MUST COMPLETELY COVER AN OPENING IN ALL DIRECTIONS. SEE END CAP BUILD OUT DETAIL ON SHEET 8 OF 10.
14. ALL SCREWS TO BE STAINLESS STEEL 304 OR GALVANIZED A307 STEEL. ALL BOLTS TO BE ASTM A307, GALVANIZED OR 304 SERIES STAINLESS STEEL.
15. PANEL OR PANELS CAN BE USED ADJACENT TO OTHER APPROVED CORRUGATED SYSTEMS.
16. SUPPORT BRACKETS AND ANCHORS:
A. ANCHORS INTO THE SUPPORT SUBSTRUCTURE (WALL, CEILING, BEAMS AND FLOORS) SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
B. THE ANCHOR SPACING SHOWN ON SHEETS 2, 6, 7, 8 & 9 OF 10, INDICATED FOR 1/4" AND 3/8" DIAMETERS REFER TO CENTER OF SUPPORT BRACKETS ARE BASED ON A REMOVAL BRACKET SYSTEM USING WALE PANELS WITH WINGNUTS. REMOVAL PANELS, CAMBLY AND DROP-IN ANCHORS WITH SIDEWALK BOLTS TAPCONS OF THE SAME SIZE MAY BE SUBSTITUTED FOR PERMANENT BRACKET INSTALLATIONS. IN MOST SET TAPCONS MAY BE USED.
C. ECHO ULTRACONS, TM TAPCONS OR ALL POINTS TAPCONS.

SUBSTRUCTURE	EMBEDMENT	EDGE DISTANCE
HEAVY BLOCK	1-1/4 INCH	12.0 OR PER MANUFACTURER'S SPECIFICATIONS
GRAVEL FILL OR F3 CONCRETE	1-3/4 INCH	12.0 OR PER MANUFACTURER'S SPECIFICATIONS
4 IN CONCRETE OR 7 IN CONCRETE	1-3/4 INCH	12.0 OR PER MANUFACTURER'S SPECIFICATIONS
WOOD OR TIMBER	8.0	3/4 INCH

17. THE EMBEDMENT REQUIREMENT.
THE EMBEDMENT INTO NON-STRUCTURAL MATERIAL SUCH AS STUCCO, SILING AND PAVERS SHALL BE INCLUDED AS PART OF THE EMBEDMENT REQUIREMENT.
18. STEEL SURFACES TO BE PLACED IN CONTACT WITH ALUMINUM SHALL BE GIVEN ONE COAT OF ZINC CHROMATE PRIMER IN ACCORDANCE WITH FEDERAL SPEC NO. TT-645, OR BE GALVANIZED.
19. MAXIMUM DESIGN PRESSURE VERSUS PANEL SPAN SHOWN ON SHEET 2 OF 10. INTERPOLATION IS ALLOWED IN BETWEEN TWO SPANS TO OBTAIN SPACINGS NOT LISTED.
20. ALL ALUMINUM ALLOYS SHALL BE 6061-T6, 6061-T5, 6061-T8 OR 6063-T5.
21. ANCHORS OR LUGGING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
22. TRACKS MAY BE CURED TO FOLLOW THE INSTALLATION PROFILE AROUND ARCHES AND RADI.
23. PANEL'S MANUFACTURER LABEL SHALL BE PLACED ON A READY AND VISIBLE LOCATION ON THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

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23. THIS DOCUMENT IN ITS ENTIRETY WILL BE CONSIDERED INVALID IF IT IS ALTERED BY ANY MEANS OR DOES NOT BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

POLYCARBONATE SOURCES		RESULT	
TYPICAL PROPERTIES	STANDARD	SAFEC	BAUER
MECHANICAL			
TENSILE YIELD STRENGTH	ASTM D2838	9.5 ksi	9.4 ksi
TENSILE TENSILE STRENGTH AT YIELD	ASTM D790	12.5 ksi	12.5 ksi
TENSILE TENSILE STRENGTH AT YIELD	ASTM D790	36 ksi	34 ksi
IMPACT			
NOTCHED IZOD	ASTM D256	17 ft-lb/in	38 ft-lb/in
CHARACTERISTICS:			
SMOKE DENSITY	ASTM D2843	64.5% MAX.	47.2%
STATE OF BURNING	ASTM D635	C-1 CLASS	C-1 CLASS
SELF EXTINGUISHING	ASTM D793	980 deg. F	1080 deg. F
WEATHERING	ASTM G155	8,200 hrs	9,300 hrs
TENSILE STRENGTH AFTER WEATHERING	ASTM G155	8,200 hrs	9,300 hrs
TENSILE STRENGTH BEFORE WEATHERING	ASTM G155	8,200 hrs	9,300 hrs
PHYSICAL			
SPECIFIC GRAVITY	ASTM D792	0.002 lb/in ³	0.002 lb/in ³

TEST REPORTS

UNIFORM STATIC AIR PRESSURE (TAS 202, E330-02)

HETI 07-4188	04/30/2007
HETI 07-4202/52	04/30/2007
HETI 07-4252	06/13/2007
HETI 07-4285	07/27/2007
HETI 08-2048/50/52	10/10/2008
HETI 08-2507A	01/28/2009
HETI 08-2508A	01/28/2009
B9068 07-401-18	04/26/2012
BT-ULTK-13-001A	09/24/2013
BT-ULTK-13-001B	09/24/2013
LARGE MISSILE & CYCLIC LOADING (TAS 201, TAS 203)	
HETI 07-4199/04/05	04/30/2007
HETI 07-4239/54	04/30/2007
HETI 07-4233/86	07/27/2007
HETI 08-2048	10/10/2008
HETI 08-2507B	01/28/2009
HETI 08-2508B	01/28/2009
B9068 07-401-18	04/26/2012
BT-ULTK-13-001A	09/24/2013 plus ASTM E1886-02, E1998-02
BT-ULTK-13-001B	09/24/2013 plus ASTM E1886-02, E1998-02

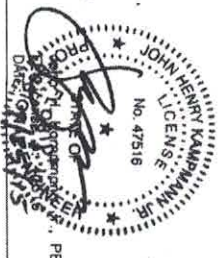
TENSILE TEST (ASTM D638-03)

HETI 07-1750	08/07/2007
HETI 09-104/05	01/28/2009

EVALUATION BASED ON:

1. ARCHITECTURAL TESTING INC.
REPORT NO.: 86753.01-401-44
REPORT DATE: 12-21-2011
TEST PROTOCOL: ASTM E 1886-02 (IMPACT & CYCLIC TEST METHOD)
ASTM E 1886-02 (IMPACT TEST METHOD)
ASTM E 1886-02 (CYCLIC TEST METHOD)
ASTM E 1886-02 (IMPACT TEST METHOD)
ASTM E 1886-02 (CYCLIC TEST METHOD)
DESIGN PRESSURE: 60 PSF W/ MISSILE LEVEL D AND WIND ZONE 4
OVERALL SPAN: 9'-1" (108 INCHES)
2. EVALUATION BASED ON:
ARCHITECTURAL TESTING INC.
REPORT NO.: 86753.01-401-44
REPORT DATE: 09/08/10
TEST PROTOCOL: ASTM E 1886-02 (IMPACT & CYCLIC TEST METHOD)
ASTM E 1886-02 (IMPACT TEST METHOD)
ASTM E 1886-02 (CYCLIC TEST METHOD)
DESIGN PRESSURE: 60 PSF W/ MISSILE LEVEL D AND WIND ZONE 4
OVERALL SPAN: 9'-1" (108 INCHES)

3. DESIGN PRESSURE: 60 PSF W/ MISSILE LEVEL D AND WIND ZONE 4.
OVERALL SPAN: 9'-1" (108 INCHES)
DESIGN PRESSURE: 60 PSF W/ MISSILE LEVEL D AND WIND ZONE 4.
OVERALL SPAN: 9'-1" (108 INCHES) INSIDE TO INSIDE FRAME.



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CLEARTEK
STORM PANEL SYSTEM
(HVHZ)

1/10
NOTED
4/30/15

CORRUGATED PANEL TABLES

FLAT PANEL TABLES

CORRUGATED

SPAN LOAD TABLE	
DIRECT MOUNT PANELS AT BOTH ENDS	
MAX. SPAN - IN.	MAX. DESIGN LOAD
60"	75.0
72"	60.0
84"	55.0
96"	52.0
108"	35.0
120"	32.0
132"	30.0
135"	25.0

MOUNT WITH FASTENERS AT MAX. 13 INCH O.C.

CORRUGATED

SPAN LOAD TABLE	
DIRECT MOUNT PANELS AT ONE END ONLY	
MAX. SPAN - IN.	MAX. DESIGN LOAD
60"	60.0
72"	50.0
84"	45.0
96"	40.0
102"	22.0



DESIGN PRESSURE 30 PSF		4000 PSI CONCRETE		2000 PSI CONCRETE		HOLLOW BLOCK		WOOD	
1/4"	3/8"	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"
105	86	11	11	11	11	10	11	7	8
86	67	11	11	11	11	11	11	8	10
67	48	11	11	11	11	11	11	11	11
48	29	11	11	11	11	11	11	11	11

DESIGN PRESSURE 40 PSF		4000 PSI CONCRETE		2000 PSI CONCRETE		HOLLOW BLOCK		WOOD	
1/4"	3/8"	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"
105	86	10	9	11	11	7	8	7	8
86	67	11	11	11	11	8	10	7	10
67	48	11	11	11	11	11	11	11	11
48	29	11	11	11	11	11	11	11	11

DESIGN PRESSURE 50 PSF		4000 PSI CONCRETE		2000 PSI CONCRETE		HOLLOW BLOCK		WOOD	
1/4"	3/8"	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"
105	86	9	8	9	7	6	7	6	8
86	67	11	11	11	11	8	10	8	10
67	48	11	11	11	11	11	11	11	11
48	29	11	11	11	11	11	11	11	11

DESIGN PRESSURE 60 PSF		4000 PSI CONCRETE		2000 PSI CONCRETE		HOLLOW BLOCK		WOOD	
1/4"	3/8"	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"
105	86	7	7	7	5	6	7	5	7
86	67	11	11	11	10	7	7	7	9
67	48	11	11	11	11	10	10	7	9
48	29	11	11	11	11	11	11	11	11

STORM BARS FOR WIND ZONE 4 AND ESSENTIAL FACILITIES

1. STORM BARS REQUIRED 12" FROM EDGE AND EVERY 18" IN THE FIELD.
2. LENGTH OF STORM BARS SAME AS LENGTH OF PANELS.
3. MAXIMUM OPENING SIZE IS 80 INCHES.
4. MAXIMUM PRESSURE IS 60 PSF.
5. WITH ABOVE CRITERIA, MAXIMUM DEFLECTION IS 0.85 INCHES. PANEL IS TO BE INSTALLED NO CLOSER THAN 2 INCHES FROM GLAZING.
6. STORM BARS (2"x2"x1/8" RECT. TUBE) FIT IN CORRUGATION BETWEEN PANEL AND BUILDING AND ARE TO BE USED ONLY WITH ALTERNATE "A" CORRUGATED PANEL SHOWN ON SHT. 5 OF 10.

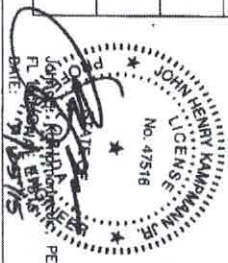
GLASS SEPARATION

- 1) GLASS SEPARATION SCHEDULE PROVIDES MINIMUM SEPARATION DISTANCE REQUIRED BETWEEN EXTERIOR FACE OF GLAZING (OR OTHER PRODUCT BEING PROTECTED) AND INTERIOR FACE OF INSTALLED STORM PANEL.
- 2) SEPARATION DISTANCE PER THIS SCHEDULE IS REQUIRED FOR USE WITH POSITIVE LOADS ONLY.
- 3) SIDE BRACKET IS AN EXTRA BRACKET ADDED HALFWAY ACROSS SPAN ON BOTH SIDES.

	LAG-WOOD		PANEL MATE (MALE FASTENER)		PANEL MATE (FEMALE)		STORM BOLT FASTENER 1/4"-20x1 1/2"-18x1		POWERS HOLLOW SET FASTENER 1/4"-20x1 1/2"-18x1
	SMALL (CST) WOOD		PANEL MATE (MALE FASTENER)		PANEL MATE (FEMALE)		POWERS FLANGED UP BOLT 1/4"-20x1 1/2"-18x1		POWERS SMOOTH WALL BOLT 1/4"-20x1 1/2"-18x1
	SMALL (CST) CONC.		PANEL MATE (MALE FASTENER)		PANEL MATE (FEMALE)		POWERS FLANGED UP BOLT 1/4"-20x1 1/2"-18x1		POWERS SMOOTH WALL BOLT 1/4"-20x1 1/2"-18x1
	WING-NUT-FASTENER		PANEL MATE (MALE FASTENER)		PANEL MATE (FEMALE)		POWERS FLANGED UP BOLT 1/4"-20x1 1/2"-18x1		POWERS SMOOTH WALL BOLT 1/4"-20x1 1/2"-18x1

TYPICAL FASTENERS/ANCHORS - 1/4" AND 3/8" NTS

Minimum Glass Separation Schedule for ClearTek Flat Panels		Minimum Glass Separation Schedule for Corrugated Panels	
Positive Load (psf)	Span (ft)	Minimum Separation with Side Bracket (see Note 3)	Minimum Separation with Side Bracket (see Note 3)
30	48"	2.25"	2.25"
	70.5"	3.35"	2.47"
	92"	4.44"	2.68"
40	48"	2.25"	2.25"
	70.5"	2.69"	2.69"
	92"	3.12"	3.12"
50	48"	2.43"	2.25"
	70.5"	3.03"	3.03"
	92"	3.80"	3.80"
60	48"	3.00"	2.25"
	70.5"	3.08"	3.08"
	92"	3.90"	3.90"



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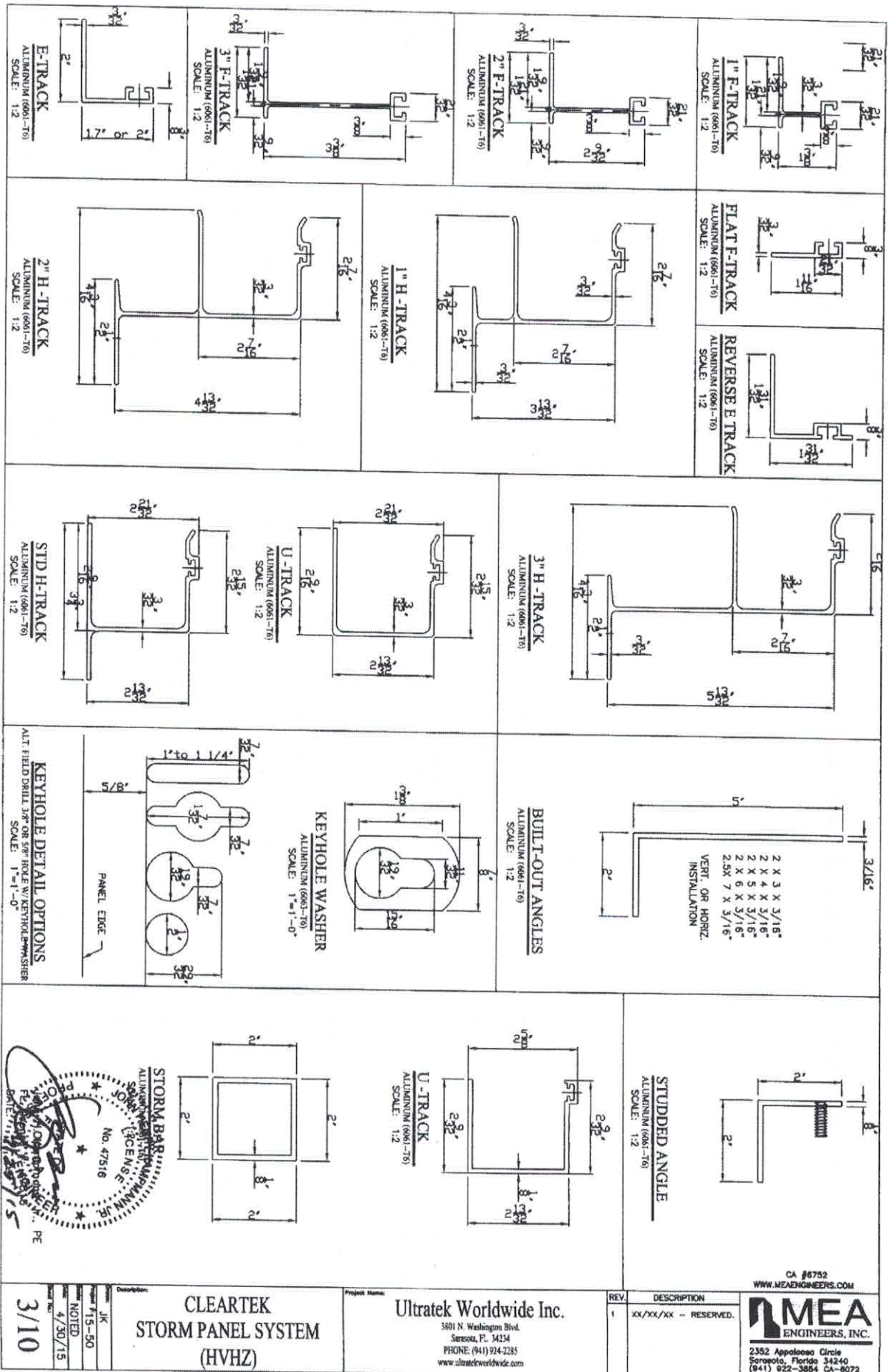
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REV. 1
DESCRIPTION
XX/XX/XX - RESERVED.

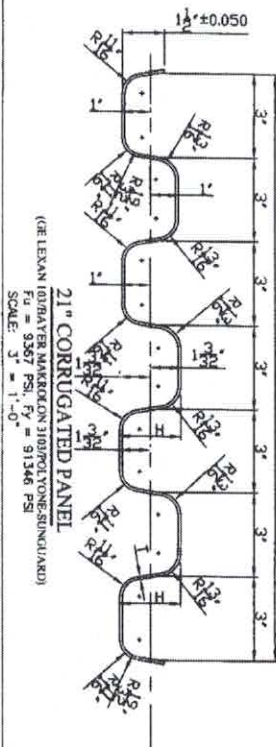
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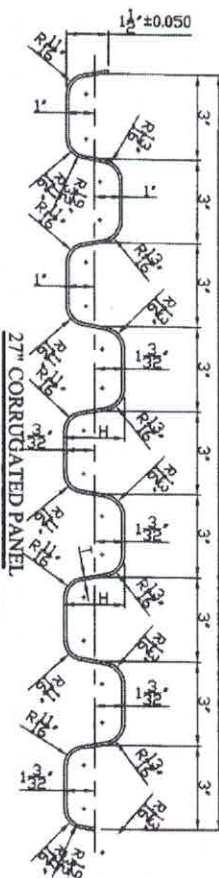
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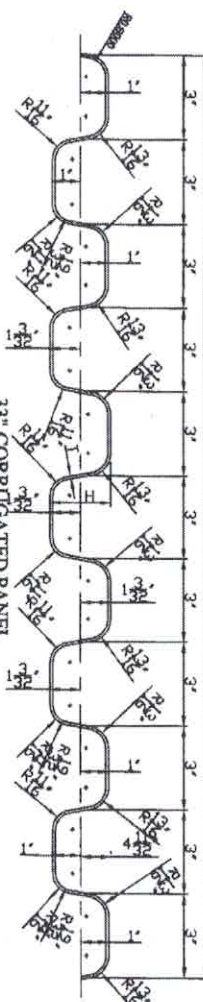
- NOTE:
- 1) THICKNESS: 236 mm TO 259 mm (9.3 IN TO 10.2 IN)
 - 2) MATERIAL: (GE LEXAN 103/BAYER MAKROLON 3103/POLYONE/SPARTACH)
 - 3) THE PANELS MUST BE 533 - 550 mm (21 - 22 IN) WIDE
 - 4) ALL DIMENSIONS MUST BE TO THE THICKNESS 77" MUST BE MINIMUM 210 mm (8.3 IN)
 - 5) PANELS MAY BE BENT ALONG CORRUGATION TO MATCH CURVED OR ANGLED OPENINGS
 - 6) PANEL RADIUS MAY VARY BETWEEN 0.1 TO 0.6m
 - 7) ALL PANELS MAY BE CUT TO DECREASE ITS WIDTH
 - 8) TRACK MAY BE CURVED TO FOLLOW THE INSTALLATION PROFILE AROUND ARCHES AND RADIUS
 - 9) HEIGHT OF WAVE MAY VARY DOWN TO 0.75 INCH
 - 10) PANELS MAY BE BENT OR CURVED TO ACCOMMODATE CURVED OR ANGLED GLASS
 - 11) PANEL WIDTH MAY VARY BY 5%.



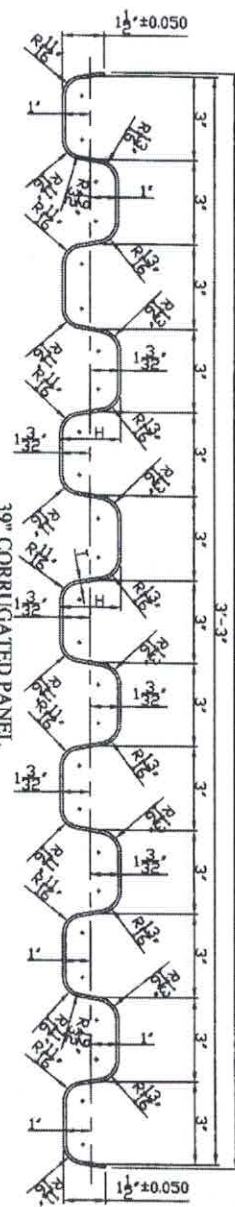
(GE LEXAN 103/BAYER MAKROLON 3103/POLYONE/SPARTACH)
Fu = 9367 PSI, Fy = 91346 PSI
SCALE: 3" = 1'-0"



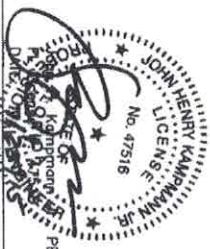
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SCALE: 3" = 1'-0"



(GE LEXAN 103/BAYER MAKROLON 3103/POLYONE/SPARTACH)
Fu = 9367 PSI, Fy = 91346 PSI
SCALE: 3" = 1'-0"



(GE LEXAN 103/BAYER MAKROLON 3103/POLYONE/SPARTACH)
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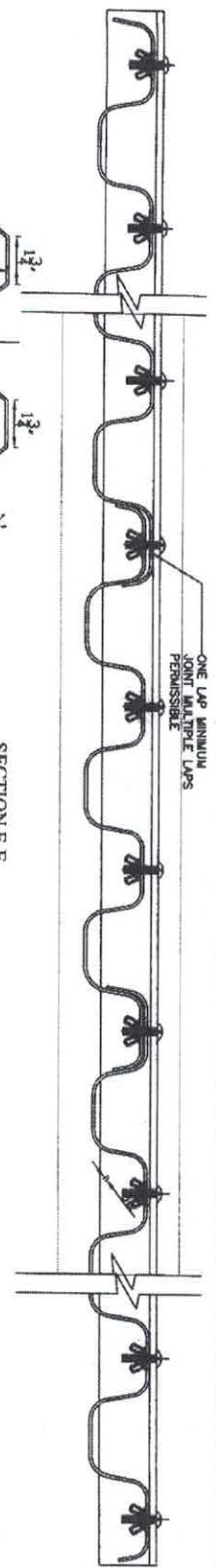
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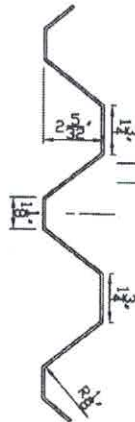
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REV.	DESCRIPTION
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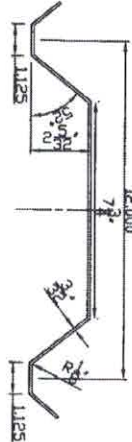
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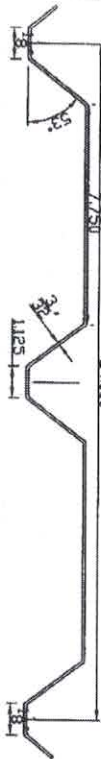
SECTION B-E
SCALE 3" = 1'-0"



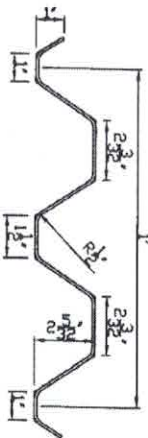
ALTERNATE "A" 12" CORRUGATED PANEL
(GE LEXAN 103BAYER MAKROLON 310POLYONESPARTECH)
Fu = 9367 PSI, Fy = 91346 PSI
SCALE: 3" = 1'-0"



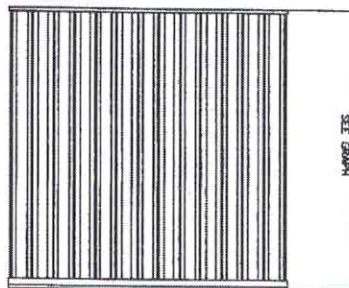
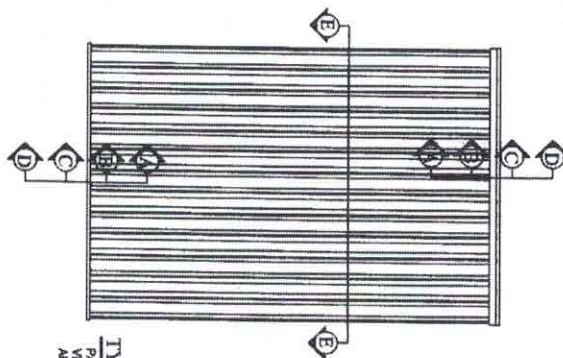
ALTERNATE "B" 12" CORRUGATED PANEL
(GE LEXAN 103BAYER MAKROLON 310POLYONESPARTECH)
Fu = 9367 PSI, Fy = 91346 PSI
SCALE: 3" = 1'-0"



ALTERNATE "C" 24" CORRUGATED PANEL
(GE LEXAN 103BAYER MAKROLON 310POLYONESPARTECH)
Fu = 9367 PSI, Fy = 91346 PSI
SCALE: 3" = 1'-0"



ALTERNATE "D" CORRUGATED PANEL
(GE LEXAN 103BAYER MAKROLON 310POLYONESPARTECH)
Fu = 9367 PSI, Fy = 91346 PSI
SCALE: 3" = 1'-0"



TYPICAL ELEVATION
PANELS CAN BE INSTALLED
VERTICALLY OR HORIZONTALLY USING
APPLICABLE ANCHORING DETAILS

ALTERNATE PANEL NOTE:

1) ALTERNATE PANEL "B" AND "C" MAY ONLY BE
USED AS A DIRECT MOUNT AT BOTH ENDS.



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REV.	DESCRIPTION
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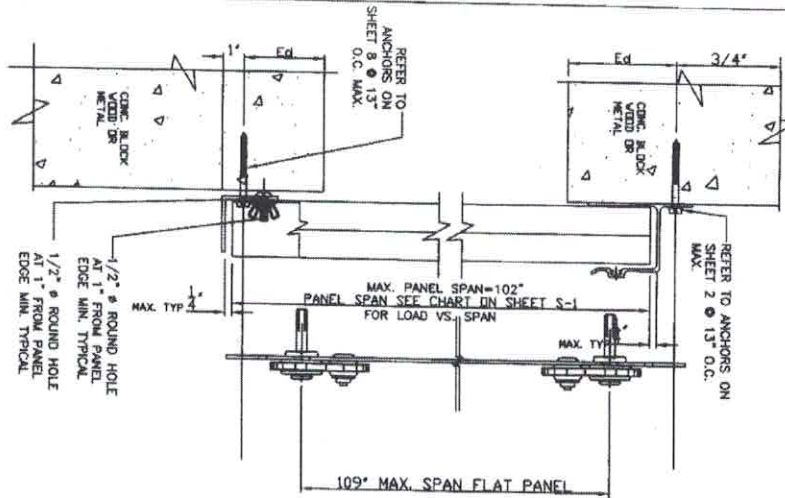
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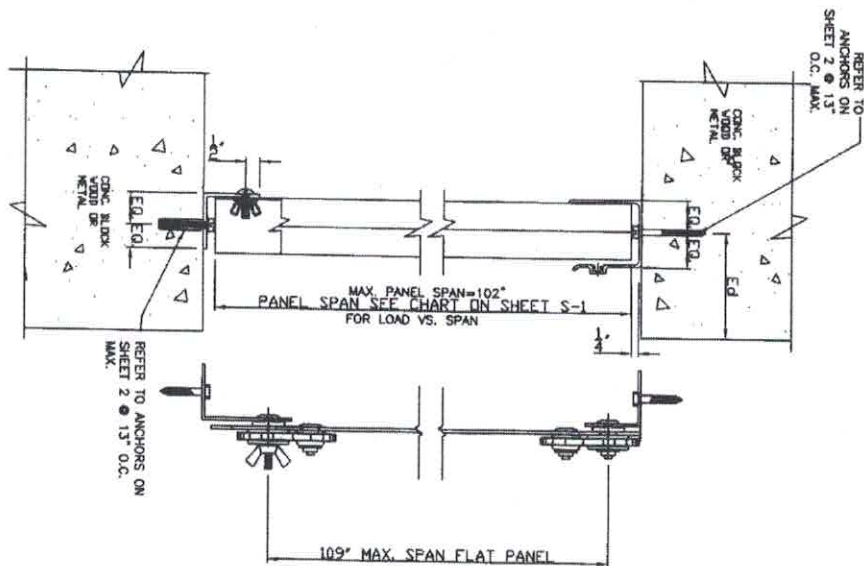
CLEARTEK
STORM PANEL SYSTEM
(HVHZ)

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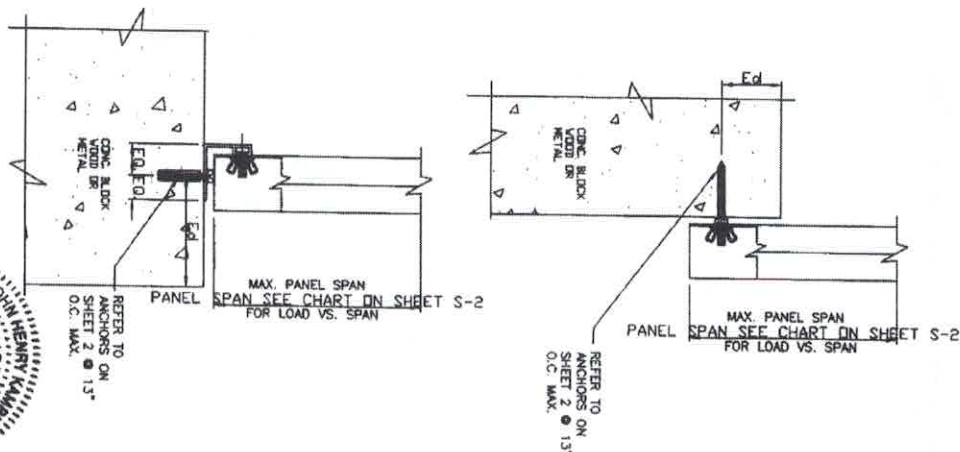
SECTION A-A



SECTION B-B



SECTION C-C



6/10

NOTED
4/30/15

CLEARTEK
STORM PANEL SYSTEM
(HVHZ)

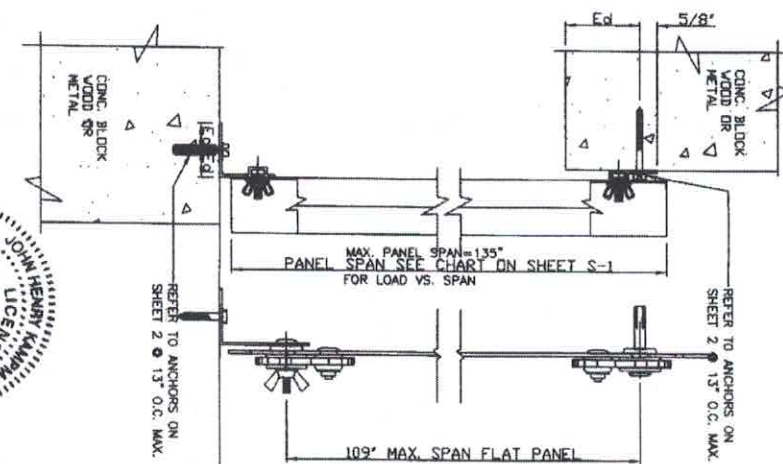
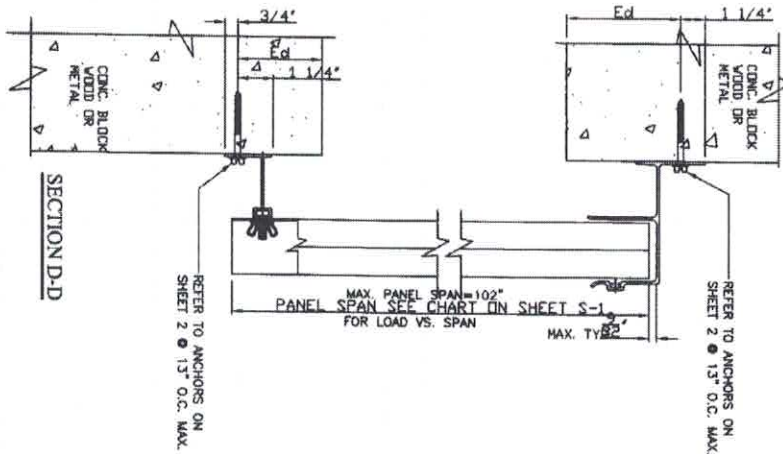
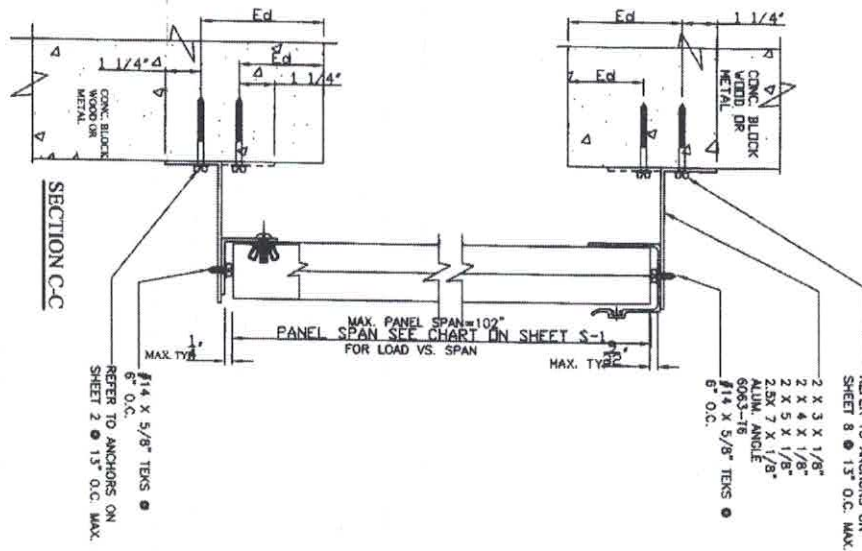
Project Name
Ultratek Worldwide Inc.
3801 N. Washington Blvd.
San Jose, CA 95128
PHONE: (415) 924-2285
www.ultratekworldwide.com

REV
1 XX/XX/XX - RESERVED.

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San Jose, CA 95128
(415) 924-2285



7/10

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4/30/15

CLEARTEK
STORM PANEL SYSTEM
(HVHZ)

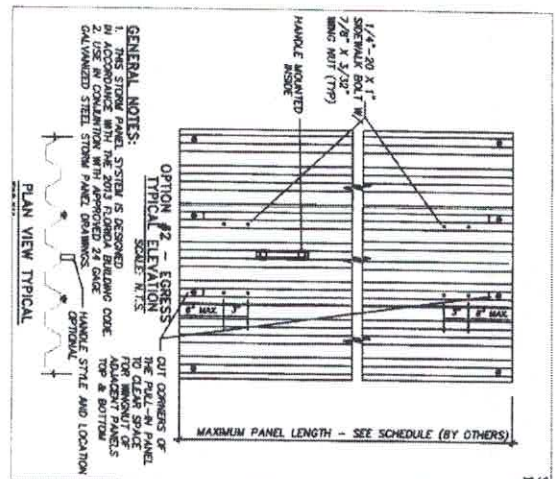
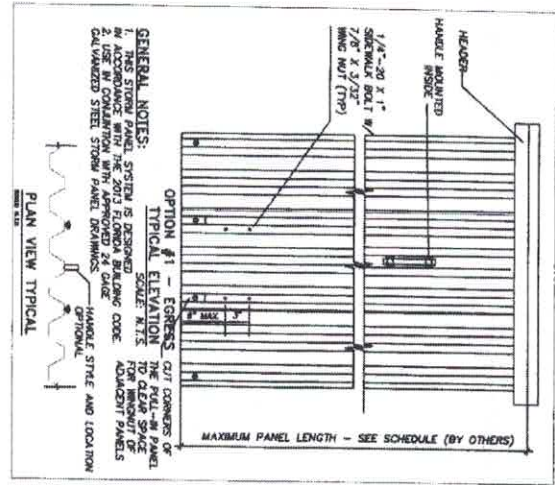
Ultratek Worldwide Inc.
3801 N. Washington Blvd.
Sarasota, FL 34234
PHONE: (941) 924-2285
www.ultratekworldwide.com

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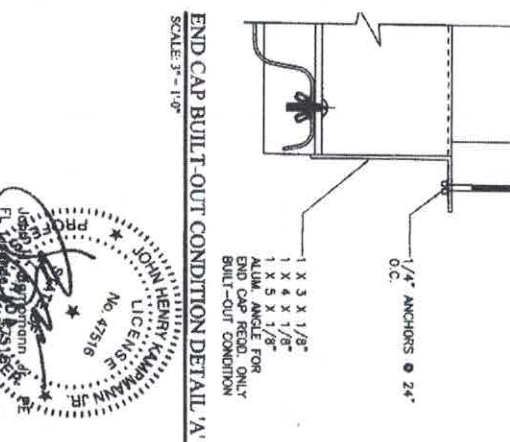
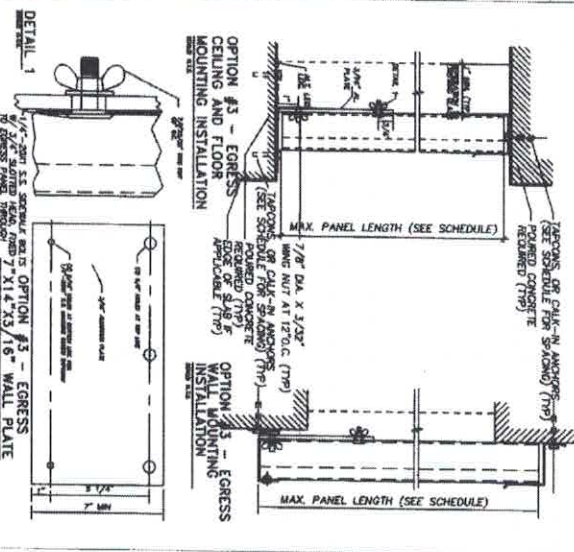
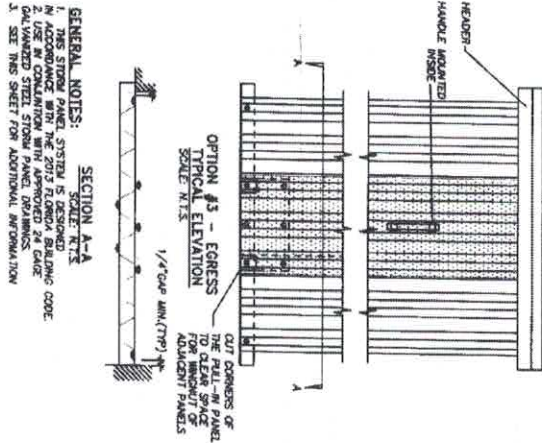
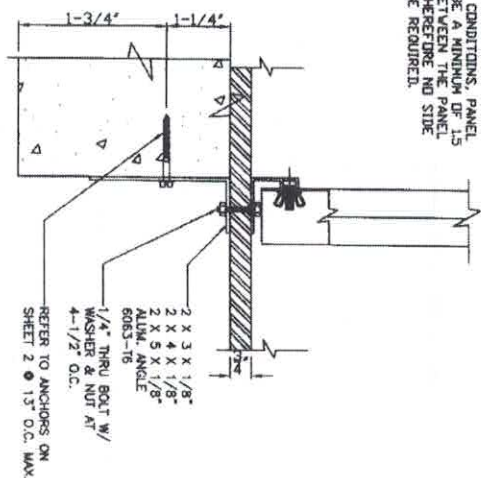
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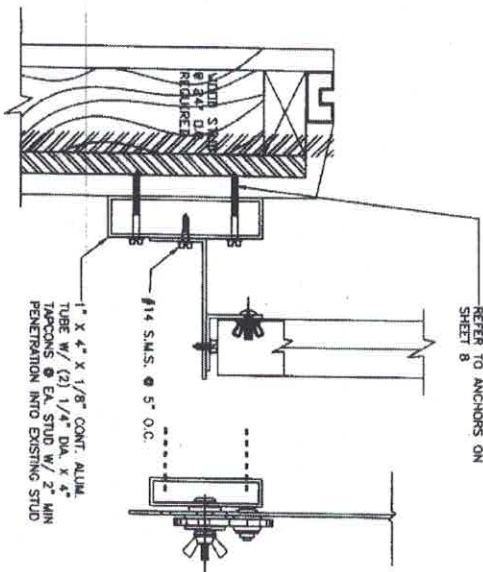
2352 Appaloosa Circle
Sarasota, Florida 34240
(941) 922-3854 CA-6072



SIDE CLOSURE NOTE:
 1. FOR WALL MOUNT CONDITIONS, PANEL OVERLAP SHALL BE A MINIMUM OF 1/4\"/>



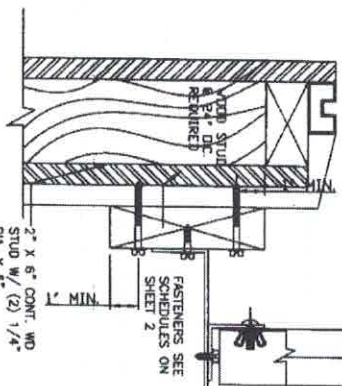
CA #6752
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MEASOURCE
 ENGINEERS, INC.
 2352 Appalosa Circle
 Sarasota, Florida 34240
 (941) 622-3854 CA-6072



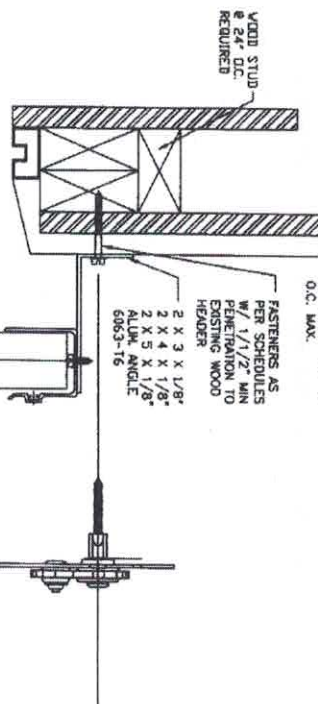
REFER TO ANCHORS ON SHEET 8

INSTALLATION DETAILS ON EXISTING WOOD STUDS

ABOVE DETAILS SHOW CONNECTIONS OF 2X6 BLACK & 1X4 ALUM. TUBE TO WOOD STUDS TO PROVIDE A CONTINUOUS SURFACE FOR A SHUTTER INSTALLATION. FOR INSTALLATION DETAILS OF HEADEN/SILL TO CONTINUOUS WOOD MEMBERS SEE SHEETS 6 THROUGH 9.

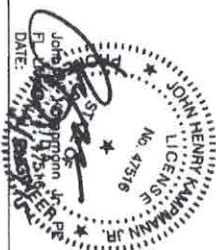


FASTENERS SEE SCHEDULES ON SHEET 2



REFER TO ANCHORS ON SHEET 2 @ 15\"/>

PER SCHEDULES W/ 1/1/2\"/>



9/10

NOTED
4/30/15

CLEARTEK
STORM PANEL SYSTEM
(HVHZ)

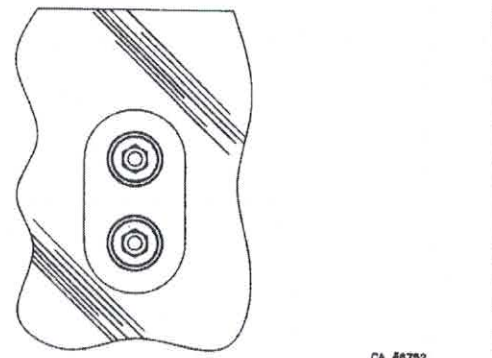
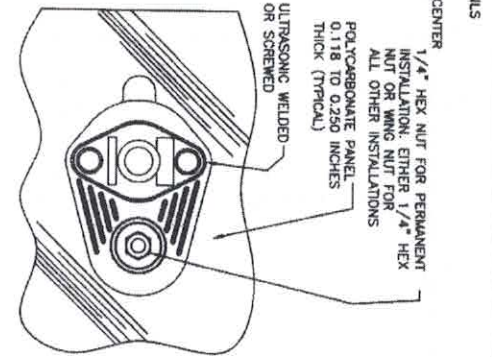
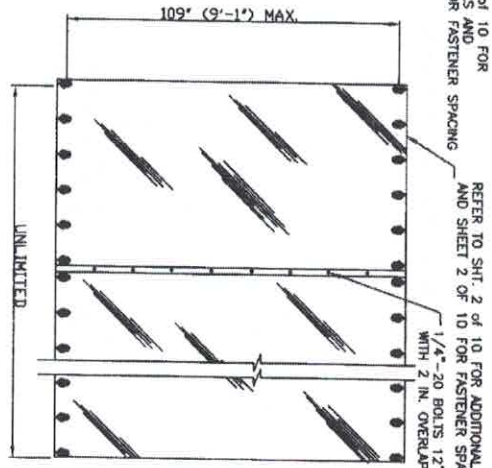
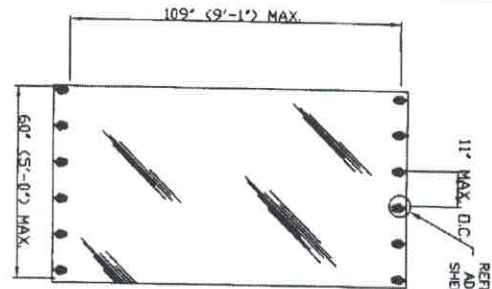
Project Name
Ultratek Worldwide Inc.
3801 N. Washington Blvd.
Sarasota, FL 34234
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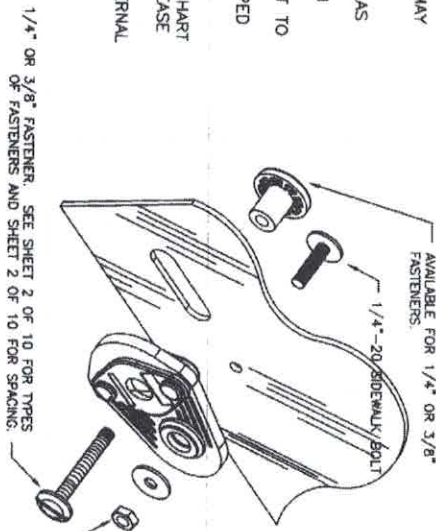
TYPICAL TWO-SIDED INSTALLATION
VERTICAL OR HORIZONTAL INSTALLATION N.T.S.

TYPICAL OVERLAP INSTALLATION
VERTICAL OR HORIZONTAL INSTALLATION N.T.S.

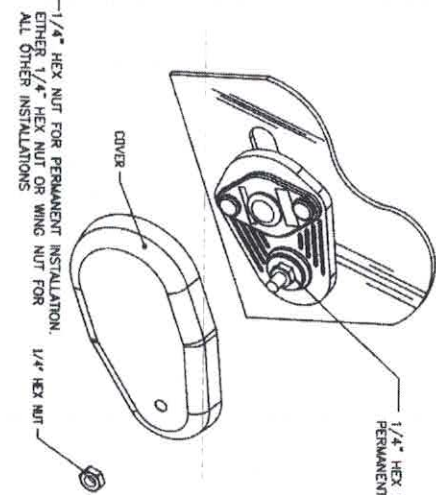
CLEARTEK STRETCH BRACKET
VERTICAL OR HORIZONTAL INSTALLATION 1/2\"/>

CLEARTEK ALT. STRETCH BRACKET
VERTICAL OR HORIZONTAL INSTALLATION 1/2\"/>

- NOTE:**
1. SIDE COURTESY STRETCH BRACKETS MAY BE USED.
 2. STITCHING OF PANELS CAN BE SUBSTITUTED BY SOLID PANELS AS LONG AS THE SPAN REQUIREMENTS ARE MET.
 3. STRETCH BRACKETS MAY BE USED ON ARCHED PANEL SECTIONS.
 4. PANELS MAY BE CURVED AND/OR CUT TO FOLLOW THE PROFILE AROUND CIRCLES, ARCHES AND ANY OTHER IRREGULAR-SHAPED OPENINGS.
 5. STORM BAR MULTIPLIER:
(# OF STORM BARS +1) X SPAN CHART
 6. PANEL EDGES CAN BE BENT TO INCREASE RIGIDITY.
 7. AN OPTIONAL UV AND/OR SOLAR EXTERNAL LAYER MAY BE ADDED ONTO THE SYSTEM.



TYPICAL ATTACHMENT DETAIL
VERTICAL OR HORIZONTAL INSTALLATION 1/2\"/>



OPTIONAL COVER DETAIL
VERTICAL OR HORIZONTAL INSTALLATION 1/2\"/>



10/10 NOTED 4/30/15 JK 15-50		DESCRIPTION CLEARTEK STORM PANEL SYSTEM (HVHZ)		Project Name: Ultratek Worldwide Inc. 3801 N. Washington Blvd. Sarasota, FL 34234 PHONE: (941) 924-2285 www.ultratekworldwide.com		REV. 1 XX/XX/XX - RESERVED.		DESCRIPTION XX/XX/XX - RESERVED.		CA #6752 WWW.MEAENGINEERS.COM MEA ENGINEERS, INC. 2352 Appalooosa Circle Sarasota, Florida 34240 (941) 922-3854 CA-0072	
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