Town of Hypoluxo Building Permit

Inspection Scheduling Options: Inspection Request Forms are on the Building/Zoning page at www.hypoluxo.org then Fax: 582.0703 or Email: inspector@hypoluxo.org.

Permit Number 13-07-137 Project
Address 132 WATERSIDE DR. #46 **Permitted** Project HURRICANE PANELS Contractor SUPERIOR CONCRETE Owner WATERSIDE H.O. Issued By

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." F.S.713.135

HVHZ = thigh belowity thur came 2000

FL 14078-R1 - NON-HVHZ



CIVIL • STRUCTURAL • MARINE COASTAL • GEOTECHNICAL

www.meaengineers.com

PRODUCT EVALUATION REPORT

REPORT NO .:

11-1221-A

DATE:

February 24, 2012

PRODUCT CATEGORY:

Hurricane Shutters

PRODUCT SUB-CATEGORY:

Products Introduced as a result of NEW

TECHNOLOGY

PRODUCT NAME:

CLEARTEK-INVISISHIELD - FLAT

POLYCARBONATE PANEL- NON HVHZ

MANUFACTURER:

Ultratek Worldwide Inc. 3801 N. Washington Blvd.

Sarasota, FL 34234

SCOPE OF EVALUATION:

This is a Product Evaluation Report issued by John H. Kampmann Jr., PE (FBC Org. No.: ANE2480) to Ultratek Worldwide Inc., manufacturer, in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission), Rule Chapter No.: N-3.005, Method 1 (d)

All products listed above have been tested and/or evaluated as described herein to verify compliance with the 2010 edition of the Florida Building Code, and to verify that the product is for the purpose intended, at least equivalent to that required by the Code.

This Product Evaluation Report shall be subject to review and revision following Florida Building Code modifications or revisions.

EVIDENCE SUBMITTED:

PRODUCT EVALUATION DOCUMENTS

MEA Engineers, Inc. Drawing #11-1221-A titled "CLEARTEK-INVISISHIELD – FLAT POLYCARBONATE PANEL", Non- High Velocity Hurricane Zone, Sheets 1 - 5, prepared by John H. Kampmann Jr., PE; signed and sealed 2/24/12 by John H. Kampmann Jr., PE; Dated 12/21/11, is an integral part of this Evaluation Report.

TEST REPORTS

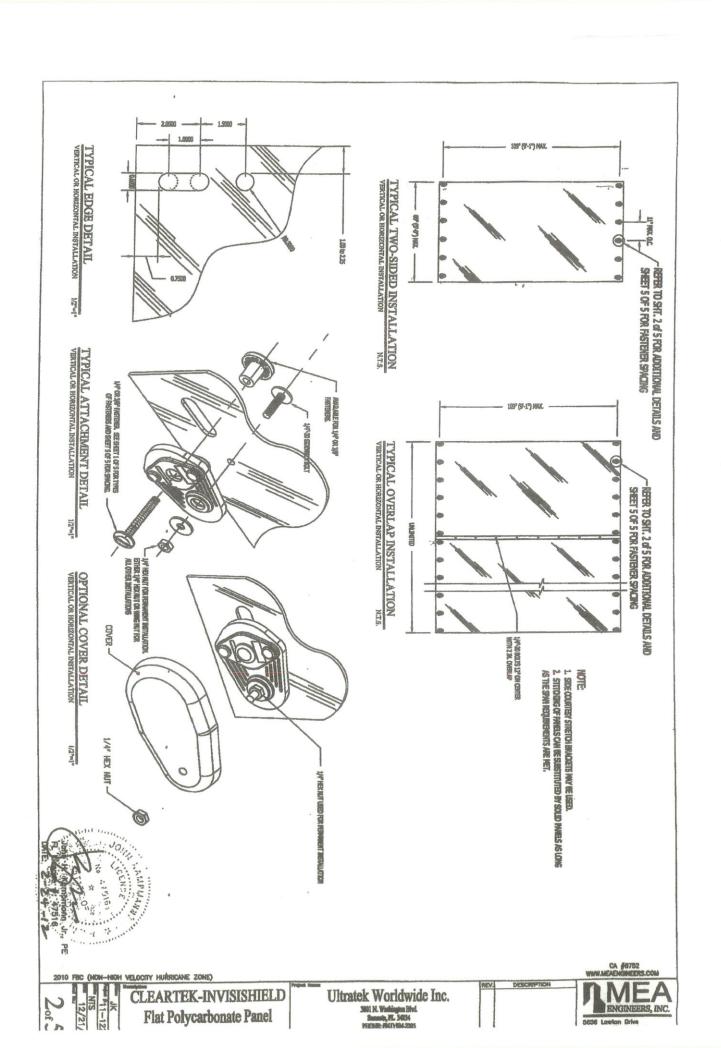
Uniform Static Loads per ASTM E 330-02. Test Report prepared by Architectural Testing Lab, Dated 09/08/10 for Florida State Approval. Report No.: A3398.01-401-44

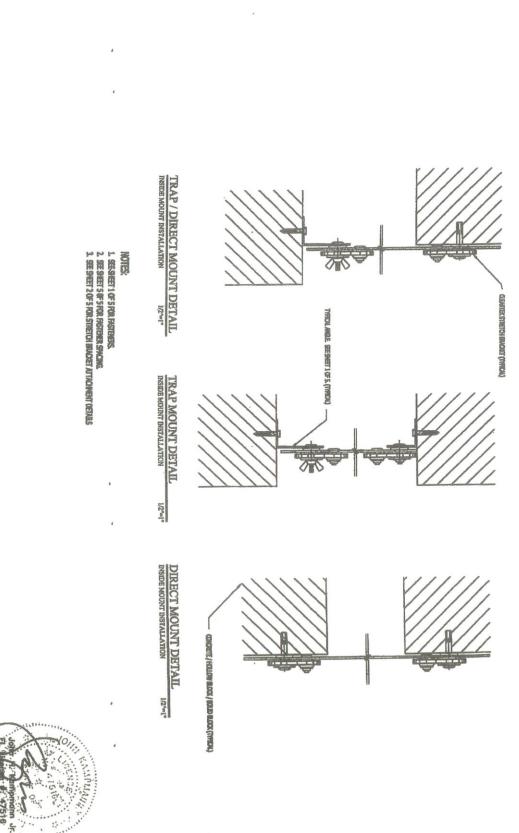
Large Missile Impact Resistance and Cyclic Loading Performance per ASTM E1886-05 and ASTM E1996-05 as per section 1609.1.4 of the Florida Building Code. Test Report prepared by, Architectural Testing Lab, Dated 09/08/10 for Florida State Approval. Report No.: A3398.01-401-44

Uniform Static Loads per ASTM E 330-02. Test Report prepared by Architectural Testing Lab, Dated 12/21/11 for Florida State Approval. Report No.: B5753.01-401-44

Large Missile Impact Resistance and Cyclic Loading Performance per ASTM E1886-05 and ASTM E1996-05 as per section 1609.1.4 of the Florida Building Code. Test Report prepared by, Architectural Testing Lab, Dated 12/21/11 for Florida State Approval. Report No.: B5753.01-401-44

THE DOCUMENT IN THE ORDINARY WILL BE CONSIDERED TRANSPORT OF THE ALTERD BY ANY PEWAS ON DOCUMENT THE BATE AND QUICINAL SEAL OF THE PROPERTIES OF THE DOCUMENT RECORD THAT PREPARED IT. TYPICAL ANGLE JERTICAL OR HORIZONTAL INSTALLATION E. NO SHEEMENT AND MUNICIPAL METHODIAL SACK AS STACKS, SCHOOL OF ZINC CHOMATE HUMBEL IN ACCUSIONES WITH FESTERAL SACK RICH, TIP-645, OR IN: 5. THE SHEEMER RICH, TIP-645, OR IN: 5. THE SHEEMER RICH WITH FESTERAL SACK RICH, TIP-645, OR IN: 5. THE SHEEMER RICH WITH FESTERAL SACK RICH, TIP-645, OR IN: 5. THE SHEEMER RICH WITH FESTERAL SACK RICH, TIP-645, OR IN: 5. THE SHEEMER RICH WITH FESTERAL SACK RICH, TIP-645, OR IN: 5. THE SHEEMER RICH WITH FESTERAL SACK RICH, TIP-645, OR IN: 5. THE SHEEMER RICH WITH FESTERAL SACK RICH, TIP-645, OR IN: 5. THE SHEEMER RICH WITH FESTERAL SACK MINACION AND / CH HENNIT HOLDER IS TO BE RESPONDING FOR THE SOLETION, NUMBER AND HISTOLUTION OF THIS SOCIETA, INCLUDING VERY HOLDER AND VERY HOLDER THE COLUMN OF THE SOLETION OF THE STRUCTURE WHERE THE SYSTEM IS TO BE ATTOCKED TO BEGINE HIGHER. NOMINE STREET HAS BEEN HAMED FOR COMMUNICE IN ACCEPTANCE WITH THE RESIDENCY OF THE FLORING MULTING CODE (FOL), THE STREET SHALL NOT BE INSTALLED WACCOTT HANCEME ZONE (SHAME AND MONEY COMINES, MAY WIND ZONE & (FICE STREET MAN LAND AND MONEY AND MONEY COMINES AND ACCEPTANCE WAS ADMINES AND MONEY AND MONEY COMINES AND ACCEPTANCE WAS ADMINES AND MONEY AND ACCEPTANCE WAS ADMINES AND MONEY AND ACCEPTANCE WAS ADMINES AND ACCEPTANCE WAS ADMINES AND MONEY AND ACCEPTANCE WAS ADMINES AND ACCEPTANCE WAS ADMINED ACCEPTANCE WAS ADMINES AND ACCEPTANCE WAS ADMINES AND ACCEPTANCE WAS ADMINED ACCEPTANCE WAS ADMINED ACCEPTANCE WAS ADMINED AND ACCEPTANCE WAS ADMINED ACCEPTA ACT ENLATOR DOCUMENT (POS) DEFINED HEREM IS CENTRIC. AND DOCS NOT MONDE INCOMPANION FOR A SPICIAL STITL. IF STITE COMMITIONS DEPOITE FICH THE EXAMPLEMENT A LIXINGED BEHAVER ON MERCHARD AND FICE SPIC SPICIAL PROPERTY TO BE LIESD IN CONTINUED AND HAS DOCUMENT. IR THE PROPERTURE OF THE PROPERTY OF INCOME, AND THE PROPERTY OF WALL RECOVER THE REGISTRES OF INCOME TO THIS BYRGHEST HE STIE SPECIFIES. MARKE IN ALCHWELE STRESS MARKE HAS BEEN LEED IN THE DESIGN OF THIS PRODUCT, A LLA WHO LOUD CLORATION PICTOR WIS LIED TO CHICALATE SOZIN SHICKIO OF) WHATEVES THE USE OF OA TO COMMET HIS TO THE NO PRESIDE ANTHIS SECTION OF SHEET 1, WO 2. USE OF UNEXTROUBLE (HEAD) WHATEVES EALD HE OF WHATEVES HE WAS AN ALL HE OF UNEXTROUBLE HE WAS A SHEET IN AN ALL HE WAS A SHEET IN AN ALL HE WAS AN ALL SEED THE STATE OF SALVES ONLY SEED OF SALVES O SER THE DATE AND CROSSING. SEAL OF THE PROFESSIONAL BHOWERS OF RECORD THAT PROFESSION IT EIGENDLESS OF ITS AMALUSILITY FROM THE FLORIDA PROCULT TO MAKE THE ON WORD WHE SELLING THE BEING BOW LONGING CONSTITUTES OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROUN TO BE SHOUTH CONTRACTOR OF THE SHAMPTON ATTACAMENT OF THE SHOWN HEREDY. SHALES BYST MAX MERSIARS \$450 DICHSE WARRAIN WISTH (CISTER) (CISTER OF WALL HISTORIUS), SEE VALE ON SHEETS of S Internal Mersiale in the Hork Hetherico Coors, this product is classed as hoth-choics with a policiet of Lics Thin 15% for the colonists CTENNATION COCKNETT, CLINK WHILE MAST COMMETER YOMER AN OPERIOR IN ALL MINISTORIS, ER LARD. SHALL DE PLACED ON A REVOLLY AND VISIBLE LOCKTION ON THE PLACE. CHE LARD. SHALL DE PLACED FOR EVERY OPERIND, LARD. SHALL REVOLVE. NOTI SAMPRILIZADE (NALL, CELBICA, MEMS AND PLONG) SHALL DE INSTALLED PER MANUFICILIESTS REQUIREDERTS COMO ON SHEET & AS NAMERIED FOR 1/4" and 1/4" EXPACTEDS RETEX TO CHITAR OF SUPPORTING SHICICES. AKKABAZ AKKABAZ AKKABAZ AKKABAZ WELL SECTIONS. WILL OF 11 DICHES RETWEEN PASTERIES CONTROL KOREMP1 HOMENANT. AN INFOCES ASSESSMENT OF THE WARREST BACKET RAZULTUZAN TAK BACKET DACTOR WAS STANDED WITH THE CORD WAS BETTEN TO THE LIED BY THE THE CORD WAS BETTEN TO THE LIED BY THE LIED B ED BY OTHERS BY COMPONENCE TO SECTION MADE OF THE MECHON A MADE WHEN SPEED (ALLOWING ESTRESS TONI OW SENDEN O 1/2"mJ" 12 D ON FER HANDE. TEST MUTHCOLL FOR EAST-OFF AND COLOR TEST METHOD SECRETARING SHARPS THE METHOD SECRETARING SHARPS SH ENTINETINAL LISTENS INC. TROWN LINE. A AXXIVEN AND SULFAMENTARY AND ARRANGE TO BROWN LINE. WHO ARRANGE AND ARRANGE MONTECHNAL TESTING INC. # CLEARTEK STRETCH BRACKET VERTICAL OR HORIZONTAL INSTALLATION Sweet (car) court. MECHANICAL
TENSILE VIELD STRENGTH
FLEXURAL STRENGTH AT VIELD
FLEXURAL MODULUS TENSILE STRESS BEFORE WEATHERING WATE OF BURNING ENSILE STRENGTH AFTER WEATHERING TE BURNING CHARACTERS TO OT CHED 120D **FOKE DENSITY** TYPICAL PROPERTIES TYPICAL FASTENERS - 1/4" AND 3/8" (1) N SWICH AND BY WOMEN, SCHOOL AND 416 B 1/2"=1" SEE TABLES SHEET 5 OF 5 MAXIMUM ALLOWABLE DESIGN PRESSURES: ANDE FOR PERMANENT INSTALLAL POLY CARBONATE SOURCES ASTM D635 ASTM D635 ASTM D1929 ASTM G38 ASTM 638 ASTIM DIGER ASTIM D790 ASTIM D790 STM 0256 KONERS RUCCOUNT SEENING 150 PSF STANDARD THE REAL SHORT GROWN BETT CLEARTEK ALT. STRETCH BRACKET VERTICAL OR HORIZONTAL INSTALLATION 12"-C-1 CLASS 980 deg. F 0.043 Rylm^: 17 ft-8/in 8.840 ksl 8.880 ksl 9.5 ks 12.5 ks 345 ks CASSES THEIR HACTORS SECTION OF 0 0.043 lb/hm 47,20% C-1 CLASS 1040 dsg. F 9302 ksi 8.461 ksi 18 年 小石 9,4 ksi 12,5 ksi 340 ksi **BOLON 3103** BAYER 0 MA Ultratek Worldwide Inc.
3001 N. Webbagen Blod.
Stemato, Pf. 34234
PRINNERS 6419 504-2085 **CLEARTEK-INVISISHIELD** ENGINEERS, INC. of Flat Polycarbonate Panel





3 of 5

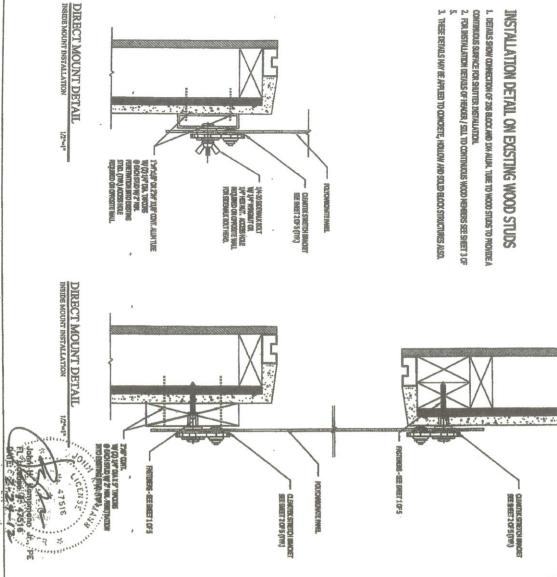
CLEARTEK-INVISISHIELD Flat Polycarbonate Panel

Ultratek Worldwide Inc.
3001 N. Wohlington Hold.
Samuria, Pl. 34234
PHONE: 64(1) 904-2005

MEA ENGINEERS, INC.

INSTALLATION DETAIL ON EXISTING WOOD STUDS

- 1. DETAILS SHOW CONNECTION OF 256 BLOCK AND 154 ALUN. TUBE TO WOOD STUDS TO PROVIDE A CONTENUOUS SUPERCE FOR SHITTER INSTALLATION.
- 2. FOR INSTALLATION DETABLS OF HEADER / SILL TO CONTINUOUS WOOD MEMBERS SEE SHEET 3 OF
- 3. THESE DETAILS MAY RE APPLIED TO CONCRETE, HOLLOW AND SOLED BLOCK STRUCTURES ALSO.



4 of 5

CLEARTEK-INVISISHIELD Flat Polycarbonate Panel

Ultratek Worldwide Inc.

300 N. Wohldwine Brid.

Blanch, R. 3-854
HEIGHE 649 908-2005

| | 200 | FASTENERS | 3 | S | | - Contraction | EACTEMEDO | AIA m | 50 PSF | PRESSURE | DESIGN | |
|----------|-----|-----------|-----------|-----------|-----|---------------|-----------|-------|-----------|----------|----------|--|
| | 67 | 86 | 105 | Span(in.) | 48 | 67 | 86 | 105 | Span(in.) | | m | |
| 4 | 11 | 44 | 88 182 | | 11 | 11 | 10 | 9 | | CONCRETE | 4000 PSI | |
| 44 | 11 | de de | dea | | 6.8 | 111 | 89 | 60 | | CONCRETE | 2000 PSI | |
| - 44 | 44 | ah eh | eh eh | | 1.5 | 9 | 7 . | 6 | | BLOCK | MOLLOW | |
| ah ah | 40 | 60 | 7 | | 10 | 60 | 6 | CR CR | | GOOM | | |

| | 200 | FACTENEDS | 3 | | 1/4" FASTENERS | | | | | DESIGN PRESSURE 60 PSF | AND CARD CARD AND STREET |
|-----|-----|-----------|-----|-----------|----------------|----|----|-----|-----------|------------------------------|--------------------------|
| 400 | 67 | 88 | 105 | Spam(in.) | 48 | 67 | 88 | 105 | Span(in.) | IGN SURE SEF | |
| -4 | 11 | 11 | 11 | | 11 | 11 | 9 | 7 | | 4000 PSI | |
| 4 | 22 | 11 | 11 | | 11 | 10 | 8 | 7 | | 2000 PSI | |
| -2 | 11 | 22 | 11 | | 10 | 7 | o | Ů, | | HOLLOW | |
| 11 | 9 | 7 | Ø | | 9 | 7 | S) | 4 | | DOOM | |

| | FAGIENERO | 3/8" | | | FASIENERS | 4/1 | | - | DESIGN PRESSURE 30 PSF |
|-------|-----------|------|-----|-----|-----------|-----|-----|-----------|------------------------------|
| 44 00 | 67 | 88 | 106 | 00 | 67 | 8 | 105 | Span(in.) | SURE |
| 11 | 11 | 25.2 | 4.8 | 44 | esh ush | 44 | -2- | | 4000 PSI |
| 44 | 4 | 44 | 11 | 11 | 11 | 9.9 | 11 | | 2000 PSI |
| 11 | 44 | 11 | 11 | 11 | 17 | 0.5 | G | | BLOCK |
| 11 | 11 | 11 | 10 | 1.1 | 1.1 | 4 | | - | WOOD |

| | PASIGNENS | 3/8" | | | | FASIENERS | 1/4 | | 40 PSF | PRESSURE | DESIGN | |
|-----|-----------|-------------|-----|-----------|----|-------------|-----|-----|-----------|----------|----------|----|
| 48 | 67 | 98 | 105 | Span(In.) | 48 | 67 | 80 | 106 | Span(In.) | SF | URE | GN |
| 9-1 | 14 | 4 4 | 11 | | ** | 1.6 | -A | 10 | | CONCRETE | 4000 PSI | |
| 11 | ch oh | 4 | de | | 44 | on the same | 44 | 69 | | CONCRETE | 2000 PSI | |
| 11 | - | opli mli | | | LE | D.F. | 8 | 7 | 8 | BLOCK | MOLLOW | |
| 77 | | OF. | 0 | | | 44 | | 4 | 0 | MOOD | | |



2010 FBC (NON-HIGH VELOCITY HURRICANE ZONE

CLEARTEK-INVISISHIELD Flat Polycarbonate Panel Ultratek Worldwide Inc.
3001 N. Woodlogine Blod.
Samona, R. 34234
PERIORE (941) 500-42825

/ DESCRIPTION

NAME A
ENGENEERS, INC.

5480 Levice Date

Florida 44235