



**PTC, LLC**

November 20, 2008

Mr. Jaime Gascon  
Metro Dade County  
Building Code Compliance Office  
Product Control Division  
140 W. Flagler Street  
Suite 1603  
Miami, Florida 33130

Re: Fort Hurricane Products, Inc.'s "28OP" Operable Impact Resistant Window Screen – Large Missile Impact & Associated Drawing as Listed

Dear Mr. Gascon:

I have reviewed and evaluated the N.O.A. listed below and associated drawing against the TAS 201-94, TAS 202-94 & TAS 203-94 test standards as previously approved in accordance to those standards in the 2004 FBC. Findings of this review conclude that there were no revision changes in these TAS test standards as identified in the reference standards in Chapter 35 of the 2004 FBC and Chapters 35 of the 2007 "Residential" FBC & 43 of the 2007 "Building" FBC that contain any text changes that would influence the outcome of tests or the ratings of materials or products based upon those tests. The N.O.A. and associated drawing covered in this letter are as follows:

<u>N.O.A.</u>	<u>Dwg. #</u>
05-0520.02	HSS0001 Rev. A

It is my conclusion that the product identified in the N.O.A. and associated drawing, listed above; meet the 2007 Florida Building Code.

Please feel free to contact me or James Moore if you should have any questions.

Respectfully,

Paul E. Winter, P.E.  
FL. P.E. No. 22693

**1535 N. Cogswell St., Ste. C25 – Rockledge, Florida 32955**  
**Phone: 321-690-1788 Fax: 321-690-1789**



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**

**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 375-2908**

[www.buildingcodeonline.com](http://www.buildingcodeonline.com)

**NOTICE OF ACCEPTANCE (NOA)**

**Fort Hurricane Products, Inc.**  
**1100 25<sup>TH</sup> Street (Unit 7 A)**  
**West Palm Beach, Florida 33407**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: 280P / Operable Impact Resistant Window Screen**

**APPROVAL DOCUMENT:** Drawing No. HSS0001, titled "280P / Egress Operable Impact Resistant Window Screen", sheets 1 through 5 of 5, prepared by PTC Engineering, Inc., dated April 19, 2005, last revision #A dated July 06, 2005, signed and sealed by L. Roberto Lomas, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page (s) as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



*Helmy A. Makar*  
 08/11/2005

**NOA No 05-0520.02**  
**Expiration Date: 08/11/2010**  
**Approval Date: 08/11/2005**

**Fort Hurricane Products, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. HSS0001, titled " 280P / Egress Operable Impact Resistant Window Screen", sheets 1 through 5 of 5, prepared by PTC Engineering, Inc., dated April 19, 2005, last revision #A dated July 06, 2005, signed and sealed by L. Roberto Lomas, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on " Impact Screen Window", prepared by Certified Testing Laboratories, Report No. CTLA 1366W, dated April 5, 2005, signed and sealed by Ramesh Patel, P.E.*
2. *Revised and marked up drawings from test lab (Certified Testing Laboratories).*

**C. CALCULATIONS**

1. *Anchor calculations prepared by PTC Engineering, Inc., dated May 13, 2005, sheets 1 through 7 of 7, signed and sealed by L. Roberto Lomas, P.E.*
2. *Revised Anchor calculation prepared by PTC Engineering, Inc., dated July 7, 2005, sheets 1 through 7 of 7, signed and sealed by L. Roberto Lomas, P.E.*

**D. QUALITY ASSURANCE**

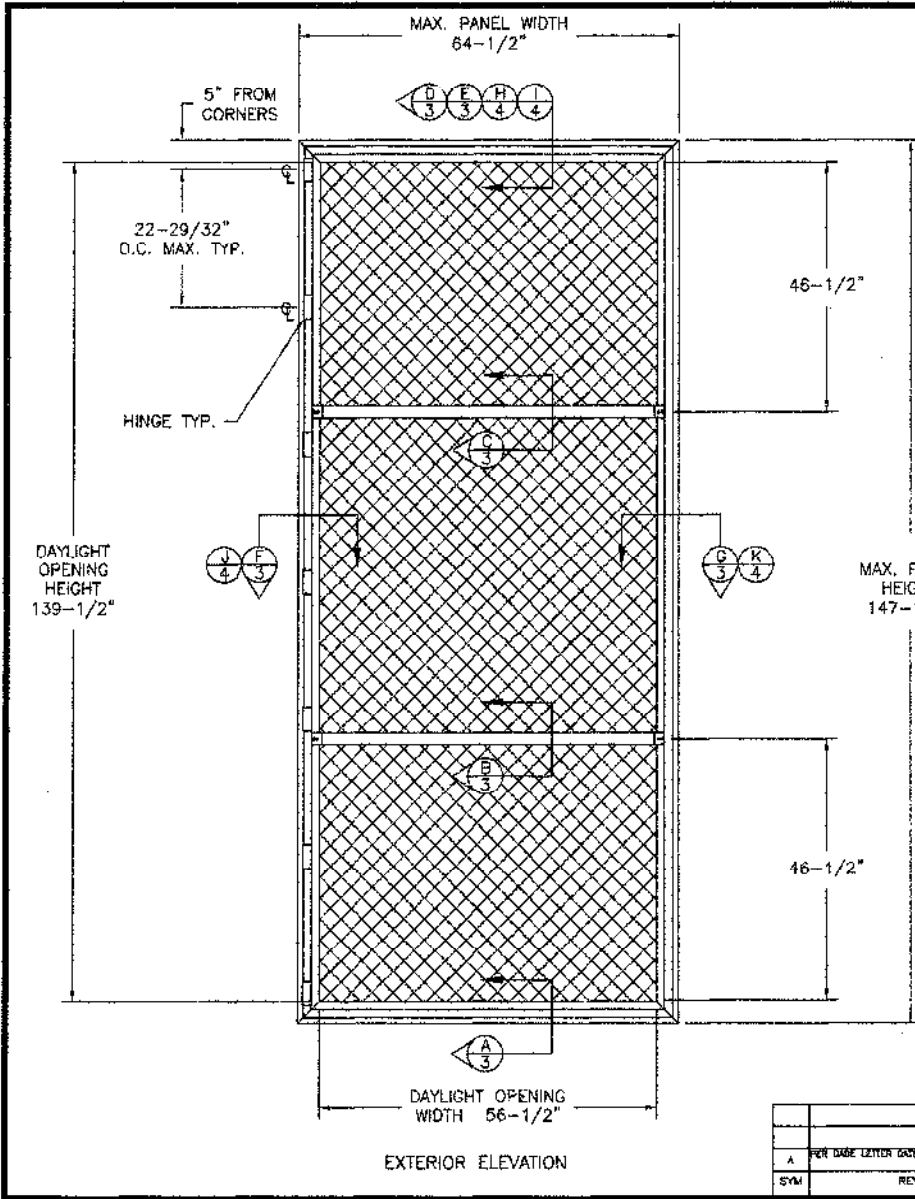
1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *Die drawings.*



Helmy A. Makar, P. E.  
Product Control Examiner  
NOA No 05-0520.02  
Expiration Date: 08/11/2010  
Approval Date: 08/11/2005



- GENERAL NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2001 AND 2004 "HVHZ" FLORIDA BUILDING CODE.
  2. CONCRETE, MASONRY AND WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
  3. PANEL FRAME MATERIAL: ALUMINUM ALLOY 6005-T6.
  4. A MINIMUM GLASS SEPARATION DISTANCE OF 4" SHALL BE PROVIDED FOR ALL INSTALLATIONS.

TABLE OF CONTENT	
SHEET	DESCRIPTION
1	ELEVATION NOTES
2	ANCHORING & NOTES
3	INSTALLATION DETAILS IN CONCRETE & WOOD FRAME
4	INSTALLATION DETAILS IN CONCRETE & WOOD FRAME
5	COMPONENTS & B.O.M.

MAXIMUM ALLOWABLE DESIGN PRESSURES	
W/2-1/2" MIN. EDGE DISTANCE	
+67.0 PSF	
-76.0 PSF	

Approved for complying with the Florida Building Code  
 Date 08/11/2005  
 NO. 05-0570-02  
 Miami Dade Product Control  
 Division  
 By: *Heather A. K...*

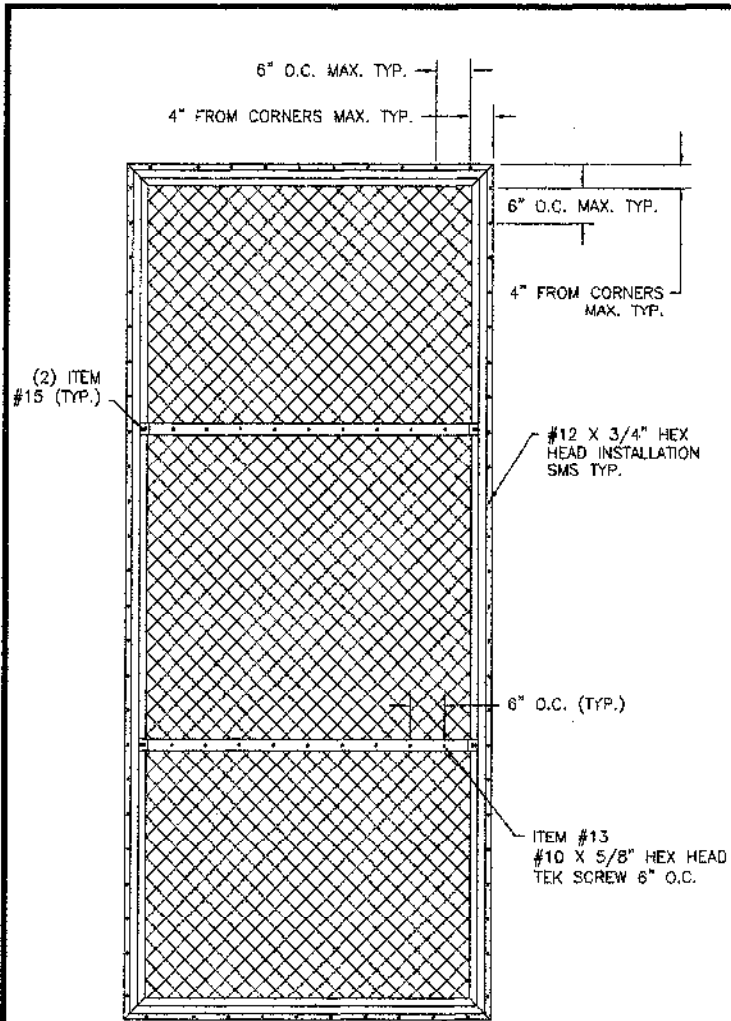
*L. Roberts Lomas*  
 7/03/05  
 L. Roberts Lomas, P.E.  
 Florida P. E. No. 62514  
 PTC Engineering, Inc.  
 2381 S.E. Seafury Lane  
 Port St. Lucie, Florida 34952  
 FBPE Certificate of Authorization No. 20935

FORT HURRICANE PRODUCTS, INC.  
 1100, 25TH ST. UNIT 7A WEST PALM BEACH, FL. 33407  
 TITLE: 280P/ EGRESS OPERABLE IMPACT RESISTANT WINDOW SCREEN  
 ELEVATION & NOTES

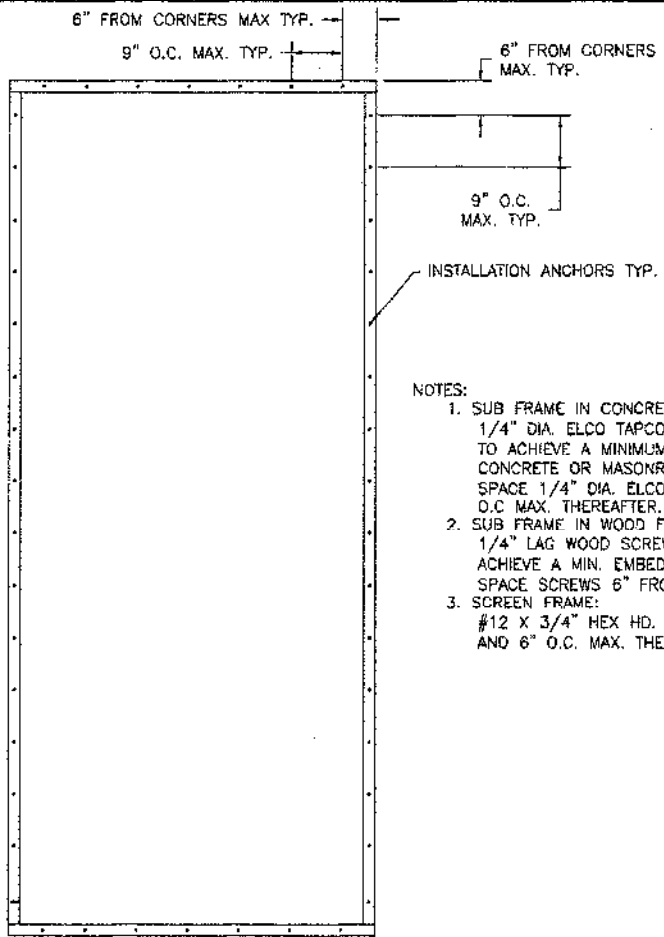
PREPARED BY:	DATE:
<b>PTC</b>	4/19/05
SCALE:	DWG. NO.:
N.T.S.	HSS0001
REV:	SHEET:
A	1 OF 5

PTC ENGINEERING, INC.  
 Phone: 772-299-6936 Fax: 772-309-4604

SYM	REVISION	DATE	BY
A	PER DASH LETTER TABLE 6/23/05	07/04/05	BB



EXTERIOR ELEVATION  
PANEL TO ALUMINUM  
TUBE ANCHORING



- NOTES:
- SUB FRAME IN CONCRETE:  
1/4" DIA. ELCO TAPCON ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 1-1/4" MIN. EMBEDMENT INTO CONCRETE OR MASONRY.  
SPACE 1/4" DIA. ELCO TAPCON 6" FROM CORNERS & 9" O.C. MAX. THEREAFTER.
  - SUB FRAME IN WOOD FRAMING:  
1/4" LAG WOOD SCREW ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE A MIN. EMBEDMENT OF 1-5/16" INTO WOOD FRAMING.  
SPACE SCREWS 6" FROM CORNERS & 9" O.C. MAX. THEREAFTER.
  - SCREEN FRAME:  
#12 X 3/4" HEX HD. SMS SPACE 4" FROM CORNERS AND 6" O.C. MAX. THEREAFTER.

Approved as complying with the Florida Building Code  
Date: 03/17/05  
NO. 03-0510-02  
Miami Dist. Product Control  
Division  
By: *William A. White*

EXTERIOR ELEVATION  
ALUMINUM TUBE TO  
SUBSTRATE/ WALL  
ANCHORING

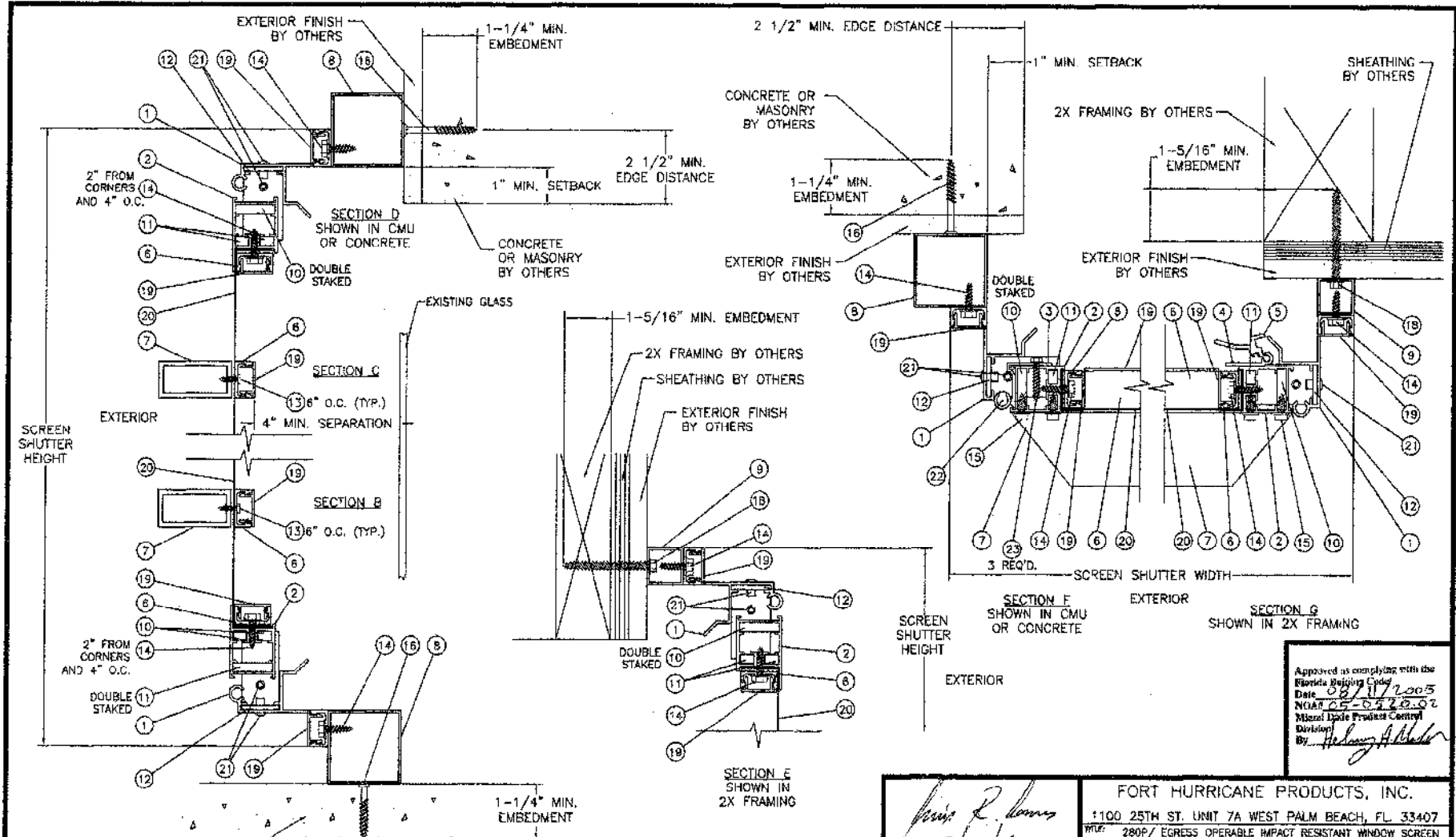
SYM	REVISION	DATE	BY
A	PER DMC LETTER DATED 06/17/05	07/06/05	BB

*David R. Brown*  
7/6/05  
L. Roberto Lopez, P.E.  
Florida P. E. No. 82514  
PTC Engineering, Inc.  
2381 S.E. Seafury Lane  
Port St. Lucia, Florida 32952  
FPE Certificate of Authorization No. 25035

FORT HURRICANE PRODUCTS, INC.  
1100 25TH ST. UNIT 7 WEST PALM BEACH, FL. 33407  
TITLE: 280P/ EGRESS OPERABLE IMPACT RESISTANT WINDOW SCREEN

ANCHORING & NOTES			
PREPARED BY:	DRN:	DATE:	4/19/05
SCALE:	BB	ENG. NO.:	
	N.T.S.	DWG. NO.:	HSS0001
REV:	A	SHEET:	2 OF 5

PTC ENGINEERING, INC.  
Phone 772.298.4679 Fax 772.298.4684



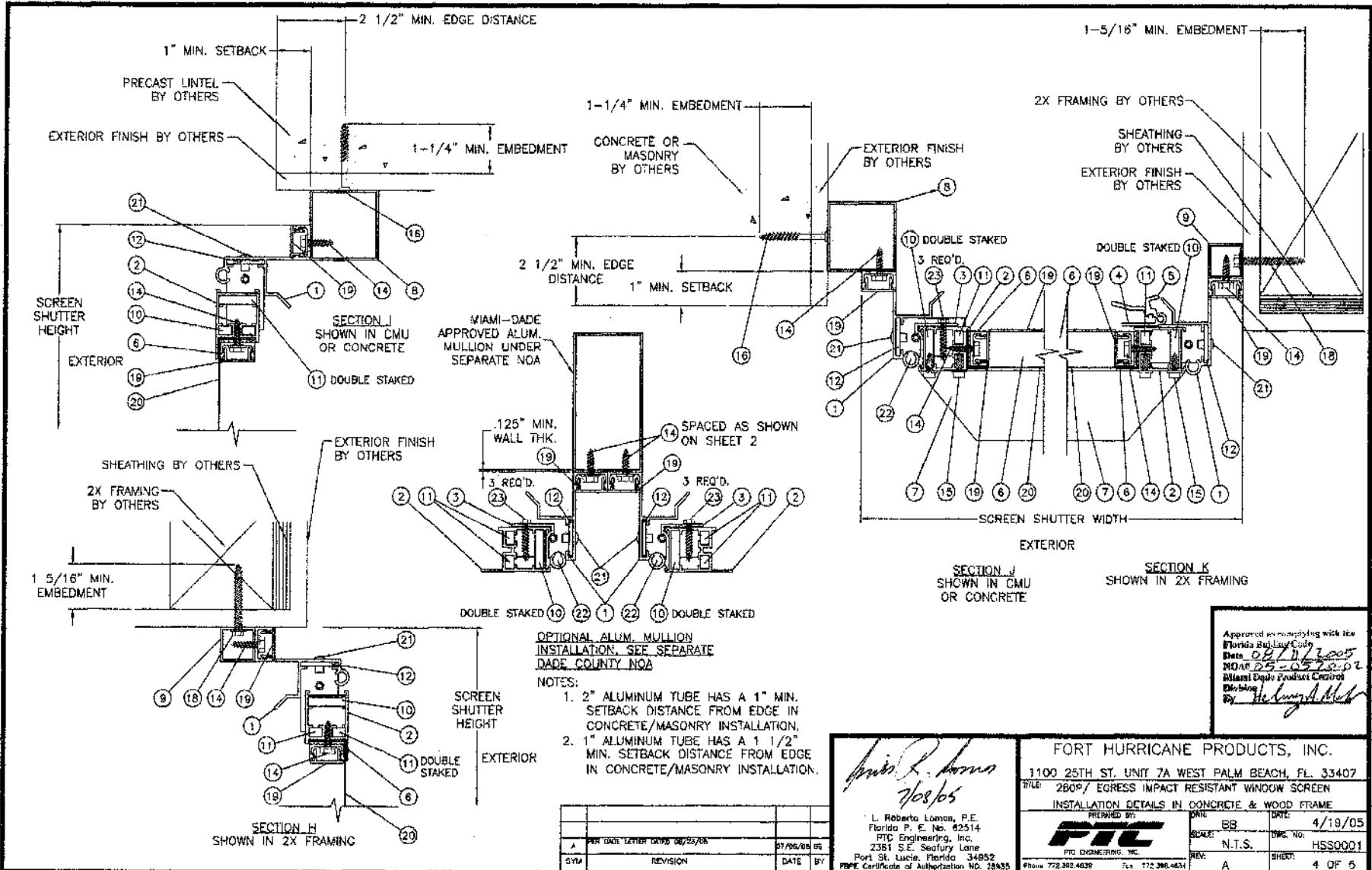
Approved as complying with the Florida Building Code  
 Date: 08/11/2005  
 N/AAR 25-0520-02  
 Manual Trade Product Control Division  
 By: *Harvey A. ...*

*Robert L. ...*  
 7/08/05  
 L. Roberts-Lombos, P.E.  
 Florida P. E. No. 82514  
 PTC Engineering, Inc.  
 2351 S.E. Seafury Lane  
 Port St. Lucie, Florida 34952  
 PBPC Certificate of Authorization No. 22835

**FORT HURRICANE PRODUCTS, INC.**  
 1100 25TH ST. UNIT 7A WEST PALM BEACH, FL 33407  
 TITLE: 280P / EGRESS OPERABLE IMPACT RESISTANT WINDOW SCREEN  
 INSTALLATION DETAILS IN CONCRETE & WOOD FRAME

PREPARED BY	DRN	DATE
<b>PTC</b>	BB	4/19/05
PIC ENGINEERING, INC.	SCALE	DWG. NO.
Phone 772.268.4832 Fax 772.268.0604	N.T.S.	HSS0001
	REV:	SHEET:
	A	3 OF 5

SYM	REVISION	DATE	BY
A	PER ABOVE LETTER DATED 06/23/05	05/23/05	BB



Approved as complying with the Florida Building Code  
 Date: 08/11/2005  
 NOA# 25-057502  
 Miami Dade Product Control  
 Dividing  
 By: *Heather A. Miller*

*Roberto Lomas*  
 7/28/05

L. Roberto Lomas, P.E.  
 Florida P. E. No. 42514  
 PTC Engineering, Inc.  
 2381 S.E. Seafury Lane  
 Port St. Lucie, Florida 34952  
 PACE Certificate of Authorization No. 28935

FORT HURRICANE PRODUCTS, INC.  
 1100 25TH ST. UNIT 7A WEST PALM BEACH, FL. 33407  
 TITLE: 280P/ EGRESS IMPACT RESISTANT WINDOW SCREEN  
 INSTALLATION DETAILS IN CONCRETE & WOOD FRAME

PREPARED BY: **PTC** DATE: 4/19/05  
 SCALE: N.T.S. DRG. NO.: HSS0001  
 REV: A SHEET: 4 OF 5

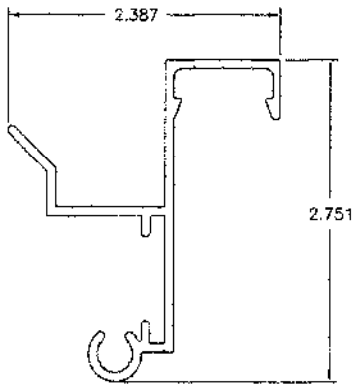
PTC ENGINEERING, INC.  
 Phone 772.362.4639 Fax 772.396.4631

NO.	DATE	LETTER	BY	DATE	BY
A	08/11/05	08/11/05	RL	08/11/05	RL
SYM		REVISION		DATE	BY

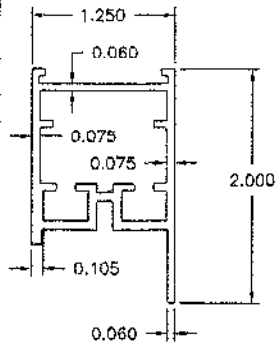
**BILL OF MATERIALS**

ITEM #	PART #	DESCRIPTION
1	2726	FRAME HEAD, SILL & JAMB 6005-T6 ALUMINUM
2	2711	VENT HEAD, SILL & STILE 6005-T6 ALUMINUM
3	2733	SCREEN HINGE 6005-T6 ALUMINUM
4	2724	SNAP LOCK PART A 6005-T6 ALUMINUM
5	2725	SNAP LOCK PART B 6005-T6 ALUMINUM
6	2721	WIRE RETAINER 6005-T6 ALUMINUM
7		1" X 2" X 1/8" ALUMINUM TUBE 6063-T5 ALUMINUM
8		2" X 2" X 1/16" ALUMINUM TUBE 6063-T5 ALUMINUM
9		1" X 1" & 1" X 2" X 1/16" ALUMINUM TUBE 6063-T5 ALUMINUM
10		OUTER VENT CORNER KEY 2" X 2" X 1.1 X 1/4" 6061-T6
11		INNER VENT CORNER KEY 2" X 2" X .400 X 1/8" 6061-T6
12		SUB FRAME ANGLE CORNER KEY 2" X 2" X 1/8" 6061-T6
13		#10 X 5/8" TEK SCREW
14		#12 -14 X 3/4" HEX HEAD SMS
15		#14 X 1/2" HEX HEAD SELF TAPPING FASTENER
16		1/4" X 2-1/4" TAPCON
17		NOT USED
18		1/4" LAG SCREW
19	2730	SCREW COVER
20		MESH 12 X 12 SCREEN SS 304 THREAD 0.028" OR 0.032" THICK
21		1/8" POP RIVET
22		SPRING LOADED HINGE PIN ASSEMBLY
23		#12 X 1" HEX HEAD SELF TAPPING SMS

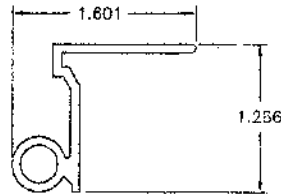
① FRAME HEAD, SILL & JAMB  
TYP. WALL THICKNESS 0.075



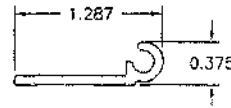
② VENT HEAD, SILL & JAMB  
TYP. WALL THICKNESS 0.075  
6005-T6



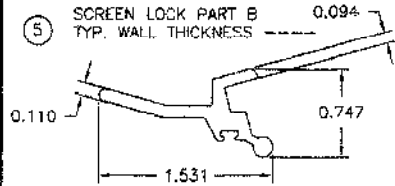
③ SCREEN HINGE  
TYP. WALL THICKNESS 0.078  
6005-T6



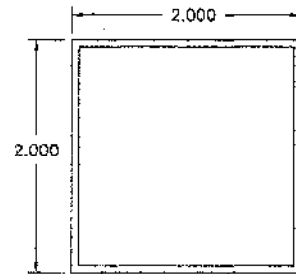
④ SCREEN LOCK PART A  
TYP. WALL THICKNESS 0.078



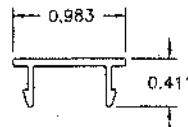
⑤ SCREEN LOCK PART B  
TYP. WALL THICKNESS 0.094



⑧ 2" X 2" ALUMINUM TUBE  
TYP. WALL THICKNESS 0.062



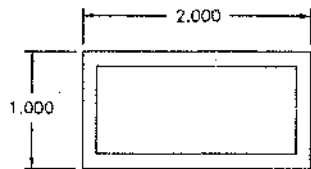
⑱ SCREEN COVER  
TYP. WALL THICKNESS 0.050



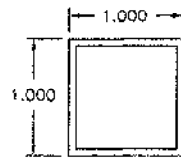
⑥ WIRE RETAINER  
TYP. WALL THICKNESS 0.075



⑦ 1" X 2" ALUMINUM TUBE  
TYP. WALL THICKNESS 0.125



⑨ 1" X 1" ALUMINUM TUBE  
TYP. WALL THICKNESS 0.062



Approved as complying with the Florida Building Code  
Date: 04/19/2005  
NOAR 05-0528-02  
Miami-Dade Product Control  
Detected By: [Signature]

*John R. Ramos*  
2/19/05  
L. Roberto Ramos, P.E.  
Florida P. E. No. 62514  
PTC Engineering, Inc.  
2361 S.E. Seafury Lane  
Port St. Lucie, Florida 34982  
FORS Certificate of Authorization NO. 23423

FORT HURRICANE PRODUCTS, INC.  
1100 25TH ST. UNIT 7A WEST PALM BEACH, FL. 33407  
TITLE: 280P/ EGRESS IMPACT RESISTANT WINDOW SCREEN  
BILL OF MATERIALS & COMPONENTS

PREPARED BY:	DATE:	DATE:
<b>PTC</b>	BB	4/19/05
SCALE:	DATE REC:	
N.T.S.	HSS0001	
REV:	SHEET:	
A	5 OF 5	

PTC ENGINEERING, INC.  
Phone 772.369.4436 Fax 772.369.4434

SYM	REVISION	DATE	BY
A	FOR QUOTE LETTER DATED 04/23/05	07/06/05	BB