

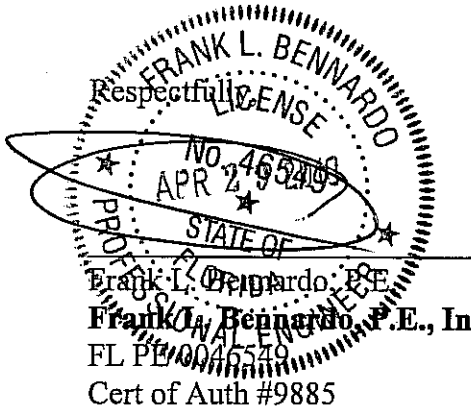
April 15, 2010

Florida Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399

Regarding: American Products, Inc.
Med-Stile and Narrow-Stile Aluminum Outswing Door (NI)
Project #10-AMP-0002

To Whom It May Concern:

Please be advised that the below-signed engineer does not have nor will acquire a financial interest in the company manufacturing or distributing the product(s) for which an evaluation report or validation certification has been prepared, as referenced above. This engineer is not owned, operated, nor controlled by the manufacturer or distributor noted above and does not have any financial interest in any other entity involved in the approval process of the above-noted product(s).

Respectfully,

Frank L. Bennardo, P.E.
Frank L. Bennardo, P.E., Inc.
FL PE#0046579
Cert of Auth #9885

Product Evaluation Report

April 15, 2010

Application Number: _____
FLB Project Number: 10-AMP-0002a

Product Manufacturer: American Products, Inc.
Manufacturer Address: 12157 W. Linebaugh Avenue
Tampa, FL 33626

Product Name & Description: Med-Stile Aluminum Outswing Door
Non-Impact Resistant

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Community Affairs (Florida Building Commission) Rule Chapter 9B-72.070, F.A.C., for statewide acceptance per Method 1(d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with the 2007 Florida Building Code and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

FLB drawing #10-AMP-0002a titled "Med-Stile Aluminum Outswing Door", sheets 1-4, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

- **TEST REPORTS**

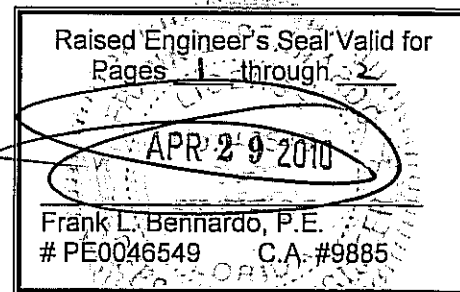
Uniform static structural performance has been tested in accordance with ASTM E330-02 test standards per test report(s) #94492.01-401-44 by Architectural Testing, Inc. (ATI).

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Anchor Spacing
2. Glass Capacity
3. Anchor Capacity

No 33% increase in allowable stress has been used in the design of this product.



Impact Resistance:

Large / Small Missile Impact Resistance has NOT been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

Wind Load Resistance

This product has been designed to resist wind loads as indicated in the span schedule(s) on the Product Evaluation Document (i.e. engineering drawing).

Installation

The product listed above shall be installed in strict compliance with the Product Evaluation Document (i.e. engineering drawing), along with all components noted therein.

The product components shall be of the material specified in the Product Evaluation Document (i.e. engineering drawing).

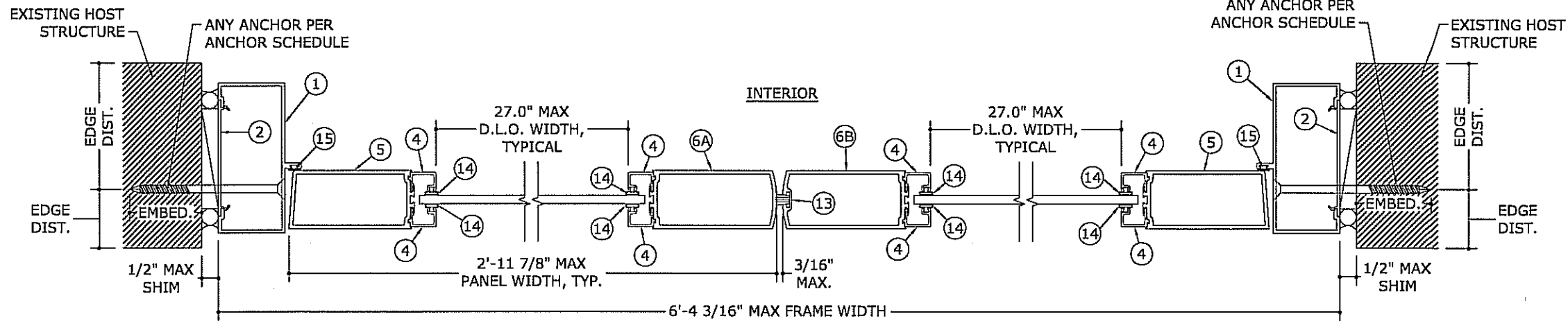
Limitations & Conditions of Use:

Use of this product shall be in strict accordance with the Product Evaluation Document (i.e. engineering drawing) as noted herein.

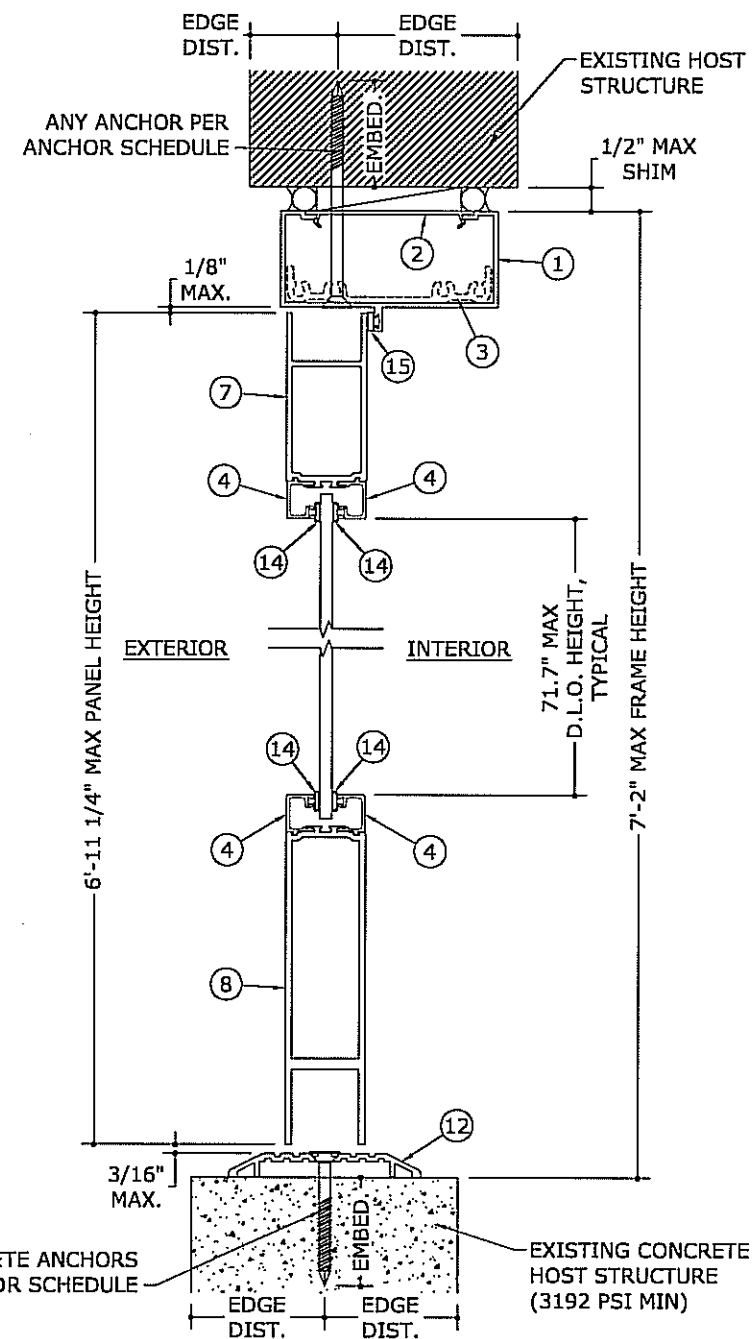
All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in this product's respective anchor schedule. Host structure conditions which are not accounted for in this product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

This product has NOT been designed for use within the High Velocity Hurricane Zone (HVHZ).



1 **TYPICAL HORIZONTAL SECTION**
2 3" = 1'-0" **HORIZ SECTION**



2 **TYPICAL VERTICAL SECTION**
2 3" = 1'-0" **VERT SECTION**

ANCHOR SCHEDULE:

TO HOLLOW CONCRETE BLOCK OR 3192 PSI CONCRETE:

- 1/4" ITW TAPCONS THRU WOOD BUCKS OR DIRECTLY INTO MASONRY/CONCRETE WITH 1-1/4" MIN EMBED.

TO WOOD BUCK OR HOST STRUCTURE (G=0.55 MIN):

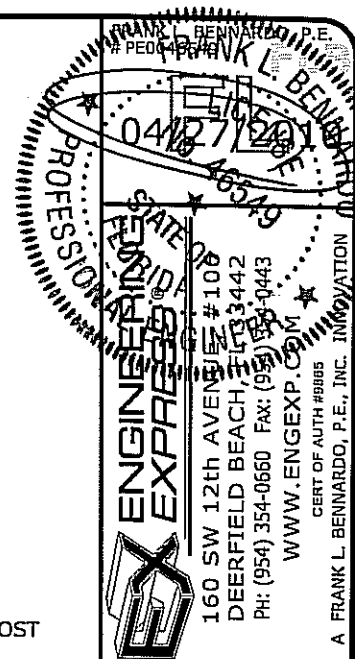
- 1/4" ITW TAPCONS WITH 1-1/2" MIN THREAD PENETRATION.
- #14 WOOD SCREWS WITH 1-1/2" MIN THREAD PENETRATION.

TO STEEL OR 6063-T5 ALUM HOST STRUCTURE (0.125" MIN THICKNESS):

- #14 SAE GRADE 5 SMS OR SDS WITH FULL THREAD PENETRATION THROUGH WALL OF HOST STRUCTURE..

ANCHOR NOTES:

1. SEE EXTERIOR ELEVATION FOR ANCHOR LOCATIONS AND/OR SPACING.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK. EDGE DISTANCE OF 1/2" IS ACCEPTABLE FOR ANCHORS TO STEEL OR ALUMINUM.
4. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
5. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
6. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
7. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
8. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.



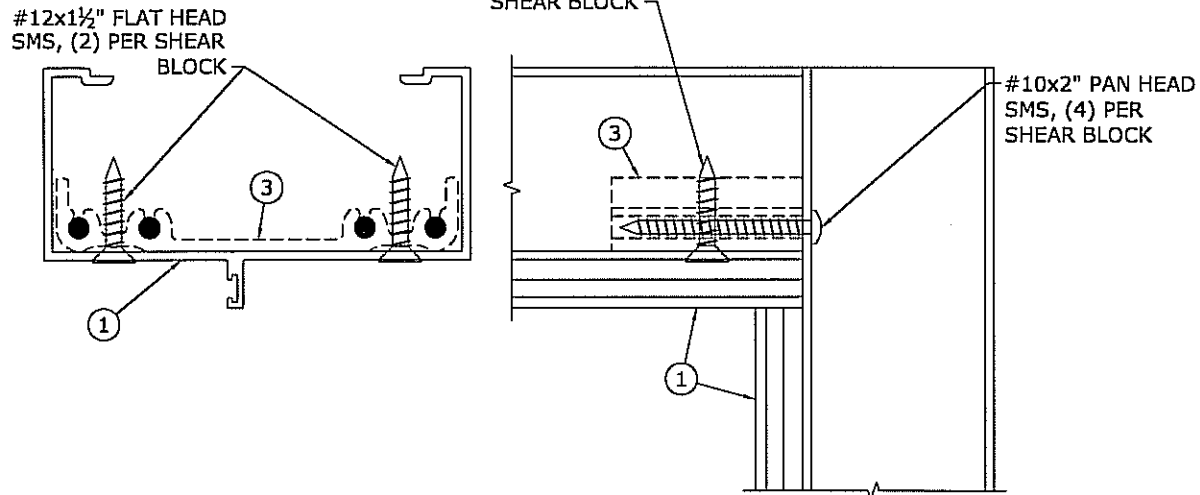
AMERICAN PRODUCTS, INC.
 12157 W. LINEBAUGH AVENUE
 TAMPA, FL 33626

SERIES MED-STILE DOOR
 NON-IMPACT RESISTANT
 FLORIDA STATEWIDE PRODUCT APPROVAL

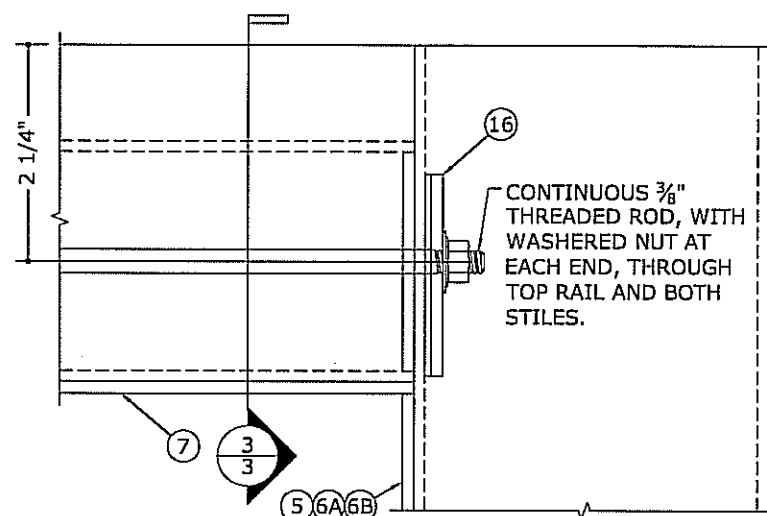
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	04/12/10

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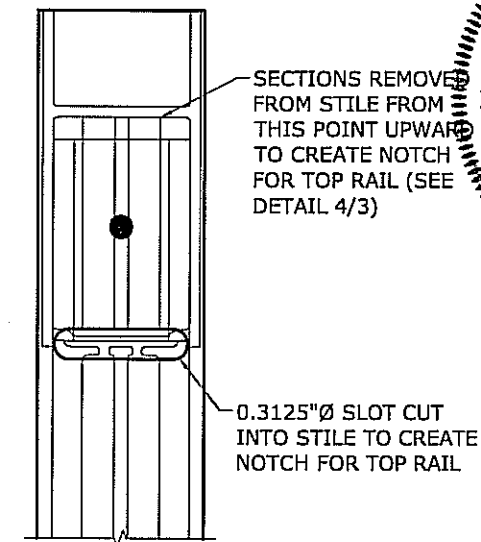
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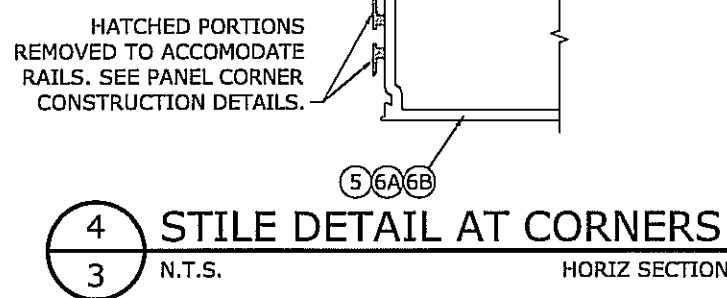
1 TYPICAL FRAME CORNER CONSTRUCTION
3 N.T.S. ELEVATION AND VERT SECTION



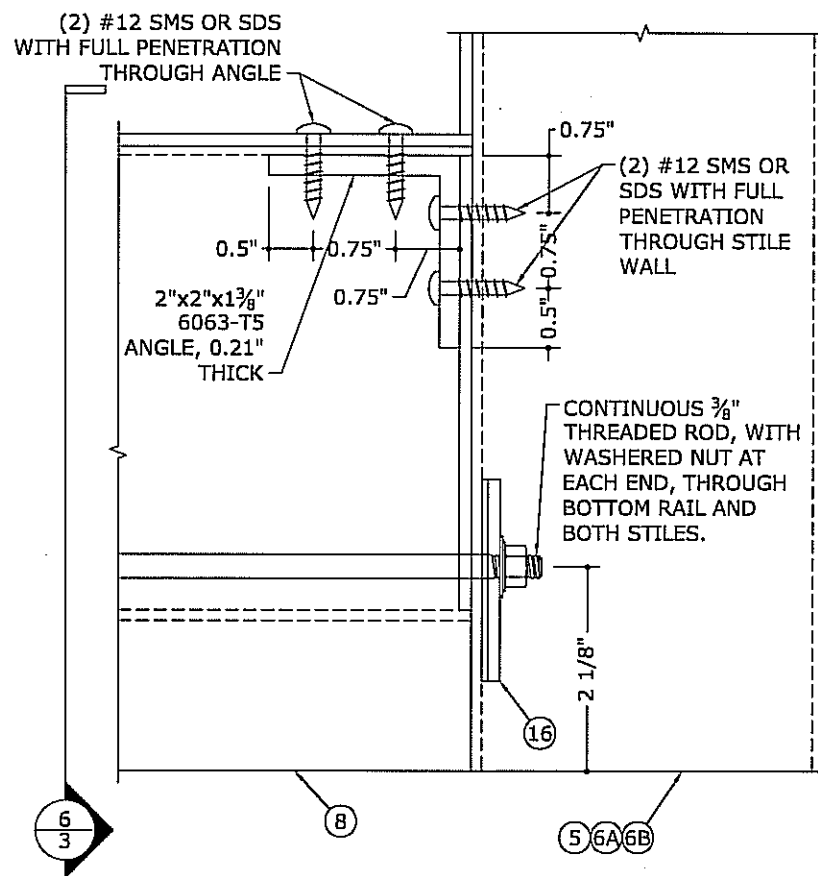
2 TYPICAL PANEL CORNER CONSTRUCTION AT TOP
3 N.T.S. ELEVATION



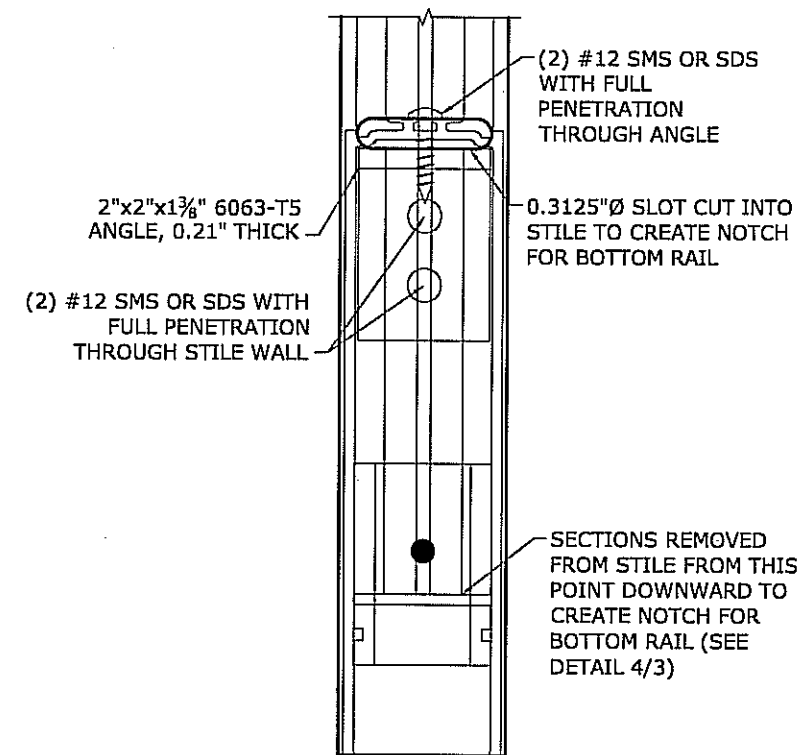
3 TYPICAL PANEL CORNER CONSTRUCTION AT TOP
3 N.T.S. VERT SECTION



4 STILE DETAIL AT CORNERS
3 N.T.S. HORIZ SECTION



5 TYPICAL PANEL CORNER CONSTRUCTION AT BOTTOM
3 N.T.S. ELEVATION



6 TYPICAL PANEL CORNER CONSTRUCTION AT BOTTOM
3 N.T.S. VERT SECTION

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 WWW.ENGP.COM
 CERT OF AUTH #8885
 A. FRANK L. BENNARDO, P.E., INC. INNOVATION

AMERICAN PRODUCTS, INC.
 12157 W. LINEBAUGH AVENUE
 TAMPA, FL 33626
 SERIES MED-STILE DOOR
 NON-IMPACT RESISTANT
 FLORIDA STATEWIDE PRODUCT APPROVAL

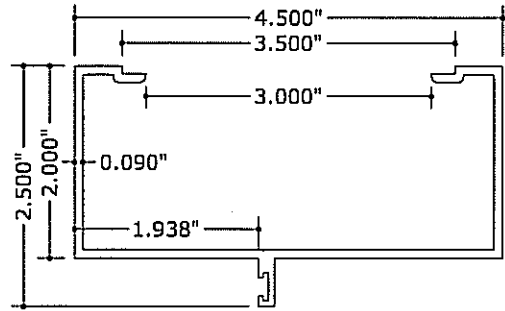
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	KL		KL	FLB	04/12/10

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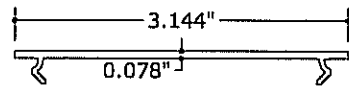
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 kahlh

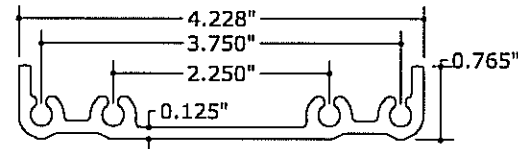
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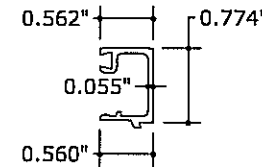
1 FRAME HEAD/JAMB
6" = 1'-0" 6063-T5 ALUM.



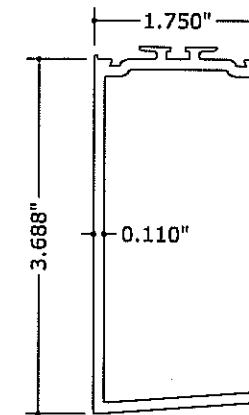
2 FRAME SNAP PLATE
6" = 1'-0" 6063-T5 ALUM.



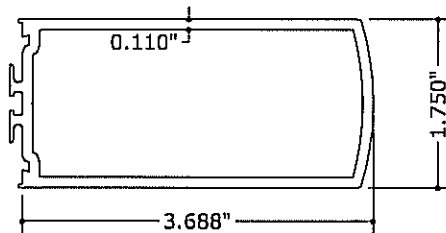
3 SHEAR BLOCK
6" = 1'-0" 6063-T5 ALUM.



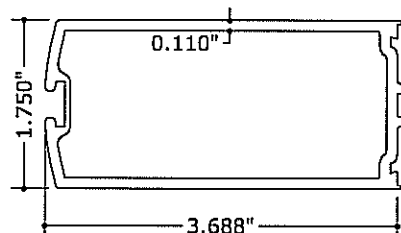
4 GLAZING BEAD
6" = 1'-0" 6063-T5 ALUM.



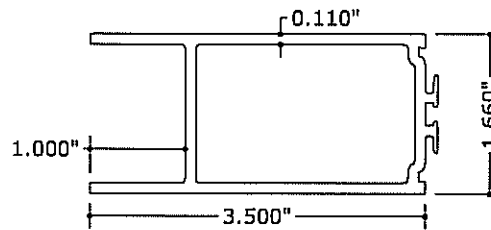
5 BEVELED DOOR STILE
6" = 1'-0" 6063-T5 ALUM.



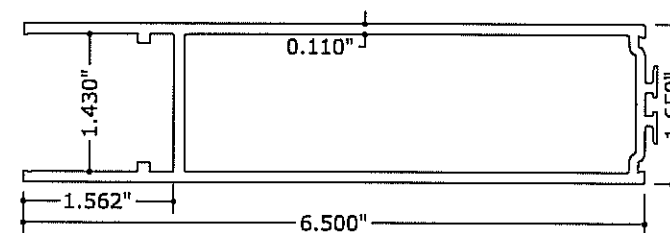
6A SECONDARY LOCK STILE
6" = 1'-0" 6063-T5 ALUM.



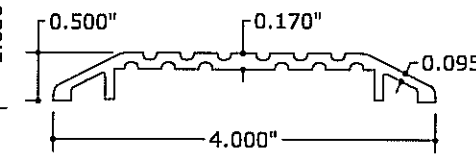
6B PRIMARY LOCK STILE
6" = 1'-0" 6063-T5 ALUM.



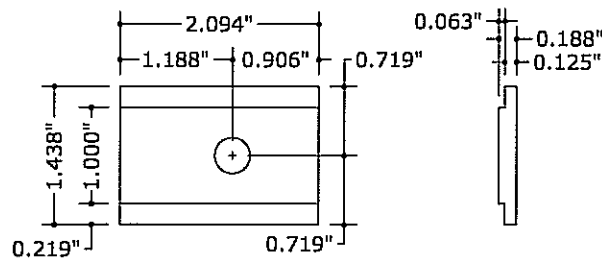
7 TOP RAIL
6" = 1'-0" 6063-T5 ALUM.



8 BOTTOM RAIL
6" = 1'-0" 6063-T5 ALUM.

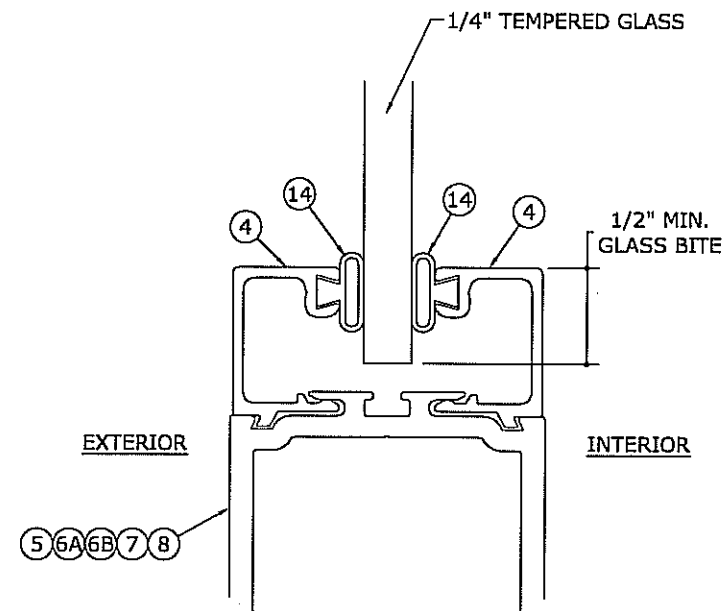


12 THRESHOLD
6" = 1'-0" 6063-T5 ALUM.



16 SQUARE WASHER
6" = 1'-0" 6063-T5 ALUM.

BILL OF MATERIALS			
	PART #	DESCRIPTION	NOTES
1	DE40005	FRAME HEAD/JAMB	6063-T5
2	F20045	FRAME SNAP PLATE	6063-T5, 4" LONG, (1) PER ANCHOR
3	F21020	SHEAR BLOCK	6063-T5
4	DE40055	GLAZING BEAD	6063-T5
5	DE32005	BEVELED DOOR STILE	6063-T5
6A	DE32010	SECONDARY LOCK STILE	6063-T5
6B	DE32015	PRIMARY LOCK STILE	6063-T5
7	DE10350	TOP RAIL	6063-T5
8	DE10650	BOTTOM RAIL	6063-T5
9		MORTISE CYLINDER, THUMBTURN AND DEADBOLT	ADAMS RITE #4036, #4066, #MS1850S
10		FLUSH BOLT	CR LAURENCE #DL2210A316
11		4"x4-3/4" HINGES	GLOBAL DOOR CONTROL #CP4540BBBNRP
12	DE40040	THRESHOLD	6063-T5
13		POLYPILE WEATHER STRIP	
14		GLAZING BEAD BULB GASKET	
15		FRAME BULB GASKET	
16		SQUARE WASHER	6063-T5



1 GLAZING DETAIL
4 N.T.S. NON-IMPACT RESISTANT

FRANK L. BENNARDO, P.E.
No. 46549
04/12/10

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A FRANK L. BENNARDO, P.E., INC. COMPANY

AMERICAN PRODUCTS, INC.
12157 W. LINEBAUGH AVENUE
TAMPA, FL 33626

SERIES MED-STILE DOOR
NON-IMPACT RESISTANT
FLORIDA STATEWIDE PRODUCT APPROVAL

DRWN	CHKD	DATE
KL	FLB	04/12/10

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Product Approval
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- ▶ EMERGENCY MANAGEMENT
- ▶ OFFICE OF THE SECRETARY

Search Criteria			Refine Search
Code Version	2007	FL#	13707
Application Type	ALL	Product Manufacturer	ALL
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL
Quality Assurance Entity	ALL	Quality Assurance Entity Contract Expired	ALL
Product Model, Number or Name	ALL	Product Description	ALL
Approved for use in HVHZ	ALL	Approved for use outside HVHZ	ALL
Impact Resistant	ALL	Design Pressure	ALL
Other	ALL		

Search Results - Applications			
FL#	Type	Manufacturer	Status
FL13707	New	API (American Products Inc.) Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies (954) 394-8521	Approved

*Approved by DCA. Approvals by DCA shall be reviewed and ratified by the POC and/or the Commission if necessary.

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FL #	FL13707
Application Type	New
Code Version	2007
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	API (American Products Inc.)
Address/Phone/Email	13909 Lynmar Blvd. Tampa, FL 33626 (813) 925-0144 Ext 203 rrencher@americanprod.com
Authorized Signature	Frank Bennardo frank@engexp.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input checked="" type="checkbox"/> 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	12/31/2011
Validated By	Jorge A. Pomerantz, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	FL13707_RO_COI_Cert_Indep.pdf
Referenced Standard and Year (of Standard)	Standard ASTM E330
	Year 2002
Equivalence of Product Standards Certified By	
Sections from the Code	

Product Approval Method Method 1 Option D

Date Submitted 04/29/2010
 Date Validated 04/30/2010
 Date Pending FBC Approval 05/10/2010
 Date Approved 06/08/2010

Summary of Products

FL #	Model, Number or Name	Description
13707.1	Med-Stile Aluminum Outswing Door	Med-Stile Aluminum Outswing Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other: Non-impact resistant aluminum outswing door, approved for use outside the HVHZ. Not approved for use where water infiltration requirements are required.		Installation Instructions FL13707_RO_II_Dwg_Med.pdf Verified By: Frank L. Bennardo, P.E. PE0046549 Created by Independent Third Party: Yes Evaluation Reports FL13707_RO_AE_Eval_Med.pdf Created by Independent Third Party: Yes
13707.2	Narrow-Stile Aluminum Outswing Door	Narrow-Stile Aluminum Outswing Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +30/-30 Other: Non-impact resistant aluminum outswing door, approved for use outside the HVHZ. Not approved for use where water infiltration requirements are required.		Installation Instructions FL13707_RO_II_Dwg_Narrow.pdf Verified By: Frank L. Bennardo, P.E. PE0046549 Created by Independent Third Party: Yes Evaluation Reports FL13707_RO_AE_Eval_Narrow.pdf Created by Independent Third Party: Yes

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