## Aviation

Maintenance Department 4200 NW 22 Street, Bldg 3030 Miami, FI 33159



# MIAMI-DADE COUNTY, FLORIDA REQUEST FOR PRICE QUOTATION (RPQ) Contract No: MCC 7040 Plan - CICC 7040-0/07

**RPQ No:** <u>10204256</u>

This RPQ is issued	under the terms and	conditions of th	e MCC 7040 Pla	n.	
Date Issued: 4/27/2020         Bid Date Due: 5/28/2020			Time Due: 02:00 F	<u>PM</u>	
Bid shall be Submit	ted Via: <u>Sealed Envel</u>	<u>ope</u> <b>to:</b>			
Name: James P. F	<u>erreira</u>			EMail: JFerreira@miami	-airport.com
Address: MIA Bldg. 3	3030; 2nd Floor; 4331	NW 22 St. Miami	<u>, FL. 33122</u>	Fax: <u>305-869-4782</u>	
<b>RPQ Added:</b> 11/13/2 <b>Added:</b> 4/21/2020	019 User Bidder Re	quest: 4/21/2020	Bond Adm./O	MB Approval: 4/21/2020	Bidders
Project Number: 102		stimated Value: §		SBE-Con. Level: <u>S</u> ted allowances)	<u>SBE-Con. Level 1</u>
Project Name:	Southwest and Centr	al Base Security	Booth Replaceme	ent_	Emergency: <u>N</u>
Project Location:	Miami International A	<u>irport</u>			ESP:
Department Contact	: James P. Ferreira	Phone No:	<u>305-876-7322</u>	Fax No: (305) 869	<u>)-4782</u>
Project Manager: Ac	lrian Portal	Phone No:	<u>3058768315</u>	Fax No:	
Document Pickup:	Contact: James P.	Ferreira Pho	ne: <u>305-876-732</u>	2 Date: <u>5/14/2020</u>	
Document Pickup:	Location: After the	Pre-bid meeting			
Ν	landatory: Date:	Time:		Location:	
PreBid Meeting: $\underline{Y}$	<u>Y</u> <u>5/14/2020</u>	<u>10:00 AM</u>	Con	ference Call (see below)	
Site Meeting: $\underline{Y}$	<u>Y</u> <u>5/19/2020</u>	<u>10:00 AM Mee</u>	et at MIA Bldg. 30	030, 2nd Floor Conference <u>C)</u>	Room #1 (Wing
Type of Contract: M	ultiple Trade	Method of A	Award: Lowest	<u>Responsible Bidder</u>	
Performance/Payme	ent Bond Required: <u>Y</u>	_ Bid Bond R	equired: <u>Y</u>	Insurance Require	ed: <u>Y</u>
Addition Insurance	Required: <u>Y</u>	Addition In	surance Amoun	<b>t:</b> <u>\$5,000,000.00</u>	
Federally Funded: N	GOB Funded:	N Does the f	unding source a	Illow UAP? Yes	No
CIIP Funded:	Funded or reimburs	ed by LAP Agree	ements with FD	OT: <u>N</u>	
O	2			AIPP: <u>N</u> <u>\$0.00</u>	<u>)</u>
Comm Dist: District (		Davis Baco	—		
	te Requirements: <u>H</u>			ficate of Assurance Forn	n Required <u>Y</u>
SBE–Con. Requirem	nents: <u>Y 100.00</u>	<u>%</u> Trade	Set-a-side: <u>N</u>		
SBE-S Requirement	s: <u>N 0.00%</u>		SBE-G Requirer	ments: <u>N 0.00%</u>	
DBE Requirements:	<u>N</u> <u>0.0</u>	<u>0%</u> DE	BE Subcontract	Forms Required: <u>N</u>	
<b>CWP Requirements</b>	<u>Y</u> <u>10.</u>	00%_			
.,	<u>Building Contractor (P , Master (Sub)</u>	rimary) Building (	Contractor (Prima	ry) Electrical Contractor	<u>(Sub)</u>
Anticipated Start Da			Calendar Days f	for Project Completion: <u>3</u>	65
Liquidated Damages			-	nent: <u>Scheduled Monthly</u>	
	PROJECT # - DESCR		· · · · · · · · · · · · · · · · · · ·		MCC ESTIMATE
	INTERNATIONAL AIR		SERVE MAINTE		\$850,000.00

FUNDING SOUF	RCE:						
SOURCE				<u> </u>	ROJECT NUM	<u> SITE #</u>	MCC ESTIMATE
Reserve Mainter	nance Fund			2	00000068	<u>#3000091</u>	<u>\$850,000.00</u>
Awarded To: C	ONBUILD L.	L.C.	SB	E–Con. Exp	Date:	Paid Amt	: <u>\$0.00</u>
Collusion Affid	avit Receive	ed: <u>Y</u>	Date Collusion Affidavit Received: 6/4/2020				
Date Dept Awa	rded: 6/23/20	020	Date Award L	etter: 7/7/202	20 <b>PO</b>	Approval Date	: 9/8/2020
Base Amt: <u>\$65</u>	54,695.00	Cont Amt:	<u>\$65,469.50</u>	Ded Amt:	<u>\$60,000.00</u>	Award Amt:	<u>\$780,164.50</u>
Insurance:	ISD Revie	wed:	Date Approv	ed:	GL	Ins Exp Dt: <u>10/</u>	10/2020
P & P Bond:	Risk Appı	oved:	Date Approve	ed: <u>8/2/2020</u>	WC	Ins Exp Dt: <u>1/1</u>	/2021_
					AL	Ins Exp Dt: <u>11/</u>	16/2020

Scope of Work: (Contractor must obtain and submit all permits prior to performing any work.)

The Scope of Work includes, but is not limited to, providing all labor, equipment and materials required to replace 2 Security Booths and 1 Restroom Booth at the Southwest Gate & Replace 2 Security Booths and 1 Restroom Booth at the Central Base Gate in accordance with the drawings and specifications. The 4 Security Booths and 2 Restroom Booths will be provided by the Miami-Dade Aviation Department (MDAD).

Work at the Southwest Gate & Central Base Gate can NOT be performed simultaneously. Only one location can be under construction at a time.

CONTRACTOR shall review all documents, specifications, and scope of work provided by MDAD for work to be completed. Please refer to the Plans & Technical Specifications for further description of the scope of work. The following comments apply to the Plans:

1) Sheet G002: Replace General Note #42 with the following:

The project site is located within an area where the existing soils are suspected to be contaminated. All of the removed soil shall be stockpiled and MDAD Environmental will sample prior to reuse. If the excavated soil is confirmed to be contaminated, it shall be disposed of in accordance with P-160 and RER-DERM requirements. If required, replacement soils shall be provided by the contractor from an MDAD and DERM approved state. The costs of this disposal and replacement soils will be paid from an allowance account.

2) Sheet S002: In Qualifications of the Special Inspector Note #2, replace "seven (4) years" with "seven (7) years".

3) Sheet S002: Delete Contractor Requirements Note #4.

4) Sheet S002: In Requirements of the Owner Note #1, delete "the geotechnical report and materials test reports".

5) Sheet S002: In Requirements of the Owner Note #3, replace "is retained" with "is retained by the contractor".

6) Sheet S002: In Foundations Note #1A, replace "retained by the owner" with "retained by the contractor".

7) Sheet S002: In Foundations Note #1B, replace "retained by the owner" with "retained by the contractor".

8) Sheet E101: Key Notes #4 mentions "Black Box Network services shall remove all equipment, fiber, and copper backbone cabling." Black Box will be paid directly from MDAD for this work.

9) Sheet E101: Key Notes #5 mentions "Matrix Systems shall remove equipment and data cabling associated with Matrix System." Matrix will be paid directly from MDAD for this work.

10) Sheet E201 of Central Base Gate: Key Notes #6 mentions "Coordinate with gate manufacturer for proper installation of new boom arm, testing, and re-certifying gate operation after arm installation." Gate manufacturer info: Delta Scientific, Model AG812, 661-575-1100.

11) Sheet E401: Key Notes #6 mentions "Black Box Network cabinet shall be provided and installed by Black Box Network Services." Black Box will be paid directly from MDAD for this work.

12) Sheet E401: Key Notes #7 mentions "Matrix remote distribution panel shall be provided and installed by Matrix Systems." Matrix will be paid directly from MDAD for this work.

13) Sheet E401: Guard Booth Control Panel Note #2 mentions "Matrix card reader and audio alarm shall be provided and installed by Matrix Systems." Matrix will be paid directly from MDAD for this work.

Contractors must agree to perform all work in accordance with the scopes of work established by MDAD, the MCC 7040 contract's terms and conditions, all required permits and inspections and all applicable federal, state and local laws, codes and regulations. Any minor variation in the scope of work that is necessary to complete the intended work shall be considered incidental and will not warrant additional compensation. Any major variation encountered in the scope of work that is necessary to complete the intended work will be additional work and will be compensated through a contingency allowance account, dedicated allowance account, or change order. However such major variation shall be completed without delay. Contractor shall use an adequate number of qualified workers who are thoroughly trained in the techniques

required to properly complete the work specified. Contractor will own or have access to the equipment necessary and to meet all safety, insurance, and technical requirements of the owner and local, county, state, and federal regulating authorities. The grand total bid price shall be reflected on the RPQ Bid Form – Attachment 5A.

## LICENSE:

Note: Pursuant to the requirements of Section 10-3 of the Code of Miami-Dade County, selected Contractors must possess a valid, current, and active State of Florida and/or Miami-Dade County contractor's license issued by the County's Construction Trades Qualifying Board and which is consistent with the requirements of their respective trade and the scope of work.

#### RESPONSIBLE WAGES:

Prospective bidders are notified that Responsible Wages and Benefits requirements apply to this Request for Price Quotation (RPQ), therefore all labor rates shall not be less than those contained in the Wage and Benefits Schedule in effect as of January 1st of the year the work is performed. Prospective bidders are responsible for taking into consideration all applicable Ordinances and/or Regulations in force at the time of the bid, such as Responsible Wages, that may affect unit prices.

#### BID BOND AND PERFORMANCE & PAYMENT BOND:

Prospective bidders shall submit a Bid Bond at the time of Bid submission. Bidders may use the Surety Company standard bid bond. Alternatively, a certified or cashier's check will be acceptable in lieu of the bid bond.

The Performance & Payment (P&P) bond must be submitted, using the contract specified form, within ten (10) working days from receipt of the Recommendation for Award (RFA) or time extension approved by the MDAD project manager. The P&P bond shall be required for the full contract amount. P&P Bond shall be submitted once the low "responsive and responsible" bidder is determined and the Recommendation for Award is issued.

#### MDAD ENVIRONMENTAL POLICY:

Compliance with the Aviation Department (MDAD)'s Environmental Policy, ISO 14000 certification and Commissioning requirements will be strictly enforced by the MDAD PM. These requirements will be discussed during the mandatory prebid meeting. The awarded bidder shall comply with all requirements listed on the project plans, specifications and/or distributed separately following the mandatory pre-bid meeting.

#### SAFETY:

The awarded contractor is responsible for the safety and security of the job site. Any vandalism, theft, etc. which occurs during the construction time is the responsibility of the contractor. No monetary compensation shall be granted if any of the above occurs. If Contractor opts to hire an independent Security Company, such company is to be properly bonded and insured. Contractors shall provide an established safety program and implementation policy. Contractors' safety programs shall be reviewed and approved by MDAD post-bid submittal and work orders shall not be issued to any contractor until their safety program is approved by MDAD.

#### LIQUIDATED DAMAGES:

If the awarded contractor shall neglect, fail, or refuse to complete the work within the time specified for Substantial Completion in the Notice to Proceed (NTP), then the contractor hereby agrees, as part of the consideration for the awarding of this Contract, to pay to the Owner, as liquidated damages and not as a penalty, the sum of \$300.00 per day for each calendar day beyond the dates set forth in the NTP and/or Work Order(s). The said amount is fixed and agreed on by and between the Contractor and the Owner because of the impracticability and extreme difficulty of ascertaining the true value of the damages which the Owner will sustain by failure of the Contractor to complete the Work on time, such as loss of revenue, service charges, interest charges, delays caused to other construction activities of Owner by failure to perform this Contract, and other damages, some of which are indefinite and not susceptible of easy proof. Said amount is agreed to be a reasonable estimate of the amount of damages which the Owner will sustain and said amount shall be deducted from any monies due or that may become due to the contractor, and if said monies are insufficient to cover said damages, then the Contractor shall pay the amount of the difference. Substantial completion does not relieve the contractor of completing the project in its entirety, nor does it obligate the owner to pay the entire contract price. Final acceptance is achieved when a Certificate of Completion (i.e., if required), acceptable warranties, final payrolls, final releases or acceptable Consent of Surety and documentation required in the contract documents has been submitted for approval to the MDAD project manager.

#### SECURITY REQUIREMENTS:

Valid MDAD identification (ID) badges with a U.S. Customs Seal will be required as well as vehicle decals to enter airside. The selected contractor and their employees must comply with all MDAD security requirements including background checks, security badges, specialized aviation-related insurance requirements, etc. MDAD may, at its sole discretion,

#### consider making these security-related expenses reimbursable.

Upon the award, the awarded contractor will have up to sixty (60) calendar days to provide a copy of the security badges with the Customs Seal to MDAD/MPEC Division. If the Contractor fails to secure and provide a copy of the required Badges with the Customs Seal after thirty (30) calendar days following the issuance of the NTP, Contractor may be terminated for default as established in Section 1 of the General Terms and Conditions, Article 1.20 (Termination for Default) of the MCC 7040 contract.

## UTILITY CLEARANCES & SHUTDOWNS:

The awarded contractor shall be responsible for obtaining all utility clearances and coordinating all utility shutdowns at least 14 working days before initiating any work. Damage to existing equipment, utilities, MDAD or its business partners' property, etc. will be repaired and/or replaced at the contractor's expense. MDAD forms and procedures to obtain utility clearances and/or coordinate shutdowns will be distributed following the mandatory pre-bid meeting.

#### REQUEST FOR INFORMATION:

All requests for information (RFIs) shall comply with the Cone of Silence, Administrative Order 3-27 and shall be directed in writing to the MDAD project manager with a copy to the Clerk of the Board (clerkbcc@miamidade.gov). The deadline to submit RFIs is no later than five (5) working days before the bid opening date and time specified on the RPQ and Invitation to Bid. MDAD will issue all changes and/or clarifications to the RPQ in writing via an Addendum. Verbal statements made by the County or the Owner's Representative that are not contained in the RPQ or Addendum are not binding on the County and do not form any basis for a bidder's response to a RPQ.

## MINIMUM QUALIFICATIONS AND EXPERIENCE:

The selected SBE-Construction contractor must possess:

1. Contractors must be certified SBE-Construction and registered to participate in the MCC 7040 Plan with ISD's Procurement Management Division;

2. Contractors must hold a valid license required to perform work in the following trade: General Contractor License.

3. Contractors must have a minimum of 5 years' experience performing work in their specific trade. In the event a new firm is established by executives, supervisors and other senior field staff (key employees) that would have met these minimum experience requirements with a prior firm, MDAD reserves the right to qualify the new firm, based on MDAD's sole determination and evaluation of the knowledge and prior experience of these key employees employed by the new firm.

4. Contractors must be able to demonstrate that their firm or its key employees, as described above, have experience performing their respective trade within the company's noted history. Specifically contractors must submit proof that their respective firms have been regularly and successfully engaged in work related to their specific trade for a minimum of one (1) year. These requirements shall be based on projects completed prior to the submission date. Contact information for projects and/or firms submitted as proof of experience shall be provided by prospective contractors as part of their bid package. MDAD will confirm the listed experience by calling the firms' owners or representatives. Should such evidence not be satisfactory to MDAD, whose decision shall be final, the submission will be considered non-responsive. The qualifying proof with names and phone numbers shall be submitted in a sealed envelope at the time of bid.

5. Contractors must have a minimum average total score of 3.0 in their Contractor Performance Evaluations in ISD's Capital Improvements Information System (CIIS). In the event a new firm has been created that does not have evaluations in the CIIS, the firm that previously employed the key employees of the new firm must have had a minimum average total score of 3.0 in the CIIS Contractor Performance Evaluation Module or the new firm must provide, to MDAD's satisfaction, documentation that the new firm has performed satisfactorily on similar projects within their respective trade. Further, any incidence of project delays in a contractor performance evaluation must be justified to the satisfaction of MDAD.

## INDEMNIFICATION & INSURANCE:

Contractor is required to have proper insurance to cover ongoing work on the job site. The Contractor shall furnish certificates of insurance and insurance policies to the Owner prior to commencing any operations under this Contract. Certificates and policies shall clearly indicate that the Contractor has obtained insurance, as required for strict compliance with this specification. Compliance with the foregoing requirements shall not relieve the Contractor from liability under any other portion of this Contract. The Contractor shall be responsible for assuring that the insurance certificates required in conjunction with this section remain in force for the duration of the agreement. See attached for indemnification and insurance requirements.

## CERTIFICATE OF ASSURANCE:

Bidders must submit a completed Certificate of Assurance (COA) along with the Bid Submittal Package identifying the Small Business Enterprise (SBE) measure. By submitting a completed COA the bidder acknowledges the Small Business Enterprise (SBE) measures applied to the project and agrees to submit, upon notification by SBD or the Miami-Dade

County Business Management Workforce System (BMWS), a Utilization Plan via BMWS listing all certified SBE contractor(s) to be utilized to satisfy the measures on the Project, indicating the percentage of work and the description of the work to be performed (pursuant to the firm's certification), within the specified time frame, before the Utilization Plan may be submitted to SBD for approval. Bidders can confirm a SBE-CON certification via BMWS at http://mdcsbd.gob2g.com/.

Place the completed COA(s) on top of the bid package so that it can be readily identified by the Department during the bid opening.

#### MANDATORY PRE-BID MEETING CONFERENCE CALL AND SITE VISIT:

Since a conference call does not require a physical presence, social distancing practices for COVID-19 are being adhered to. Bidders are still required/responsible for participating in the MANDATORY conference call. Failure to participate in the MANDATORY conference call shall result in the corresponding contractor/company being considered non-responsive. Contractors are extremely encouraged to call 5 minutes before the scheduled meeting time for a roll call. Late arrivals to the conference call shall result in the contractor/company being considered non-responsive. The conference call shall result in the contractor/company being considered non-responsive.

The dial-in instructions for the conference call are described below:

#### • Dial in: 305-876-8333

- Meeting ID: 5762555
- Passcode/Pin: 5869

The agenda for the pre-bid conference call meeting will be sent to you via email to be used during the meeting. Make sure you receive it, if not, please check your junk email or contact our office.

Bidders are responsible for attending the mandatory pre-bid meeting conference call and site visit.

#### BID BOX:

The bid box is located in the hallway between Conference Rooms B-205 and B-209 in MIA Bldg. 3030, B-Wing, 2nd Floor. If the time clock adjacent to the bid box is unable to stamp the bid envelope due to its thickness, please see Ms. Silvia Perez, Mr. Ultimo De Oliveira or any MDAD representative at MIA Building 3030 to have bid envelopes signed, dated and timed prior to dropping them in the box.

#### BID SUBMITTAL:

All quantities provided with the bid documents are estimated quantities based on the project scope of work. It is the bidder's responsibility to confirm any and all estimated quantities or amounts reflected on the bid documents to generate a "responsive and responsible" bid. Errors, omissions and/or discrepancies in quantities shall be brought-up to the attention of the MDAD team via the request for information (RFI) process during the bidding phase. Failure to confirm estimated quantities shall not constitute grounds for subsequent change orders. Bidders are responsible for all costs related to permitting, preparation of required shop drawings, special inspections, preparation of as-built drawings, close-out documentation and/or any engineering certificates required.

Contingency Allowance Account: for unforeseen conditions, construction changes, for additional work or materials not covered by other proposal items and for quantity adjustments, if ordered by the MDAD PM.

This account item is for all labor, materials, equipment and service necessary for modification or extra work required to complete the Project because of unforeseeable conditions, unforeseeable conflicts between existing elements of work and the proposed work; for minor changes required to resolve any unforeseeable conditions, Revised Regulations, Technological and Products Development, Operational Changes, Schedule Requirements, Program Interface, Emergencies and other miscellaneous costs; all if ordered by the MDAD PM. The Contingency Allowance Account is ten percent of the subtotal of all quantities provided on the Bid Form.

Payment to the CONTRACTOR under this item will only be made for work ordered in writing by the MDAD. Any portion of this fund remaining after all authorized payments have been made will be withheld from Contract Payments, and will remain with the County. If one account has been depleted and funds are available in the other accounts the MDAD PM may use some of the available funds to complete the Project.

Dedicated Allowance Account: for other unforeseen conditions (permitting, plan revisions, existing utility relocations, utility company service fees), construction changes and for quantity adjustments. The Dedicated Allowance Account is fixed at \$60,000.00. Any portion of this fund remaining after all authorized payments have been made will be withheld from Contract Payments, and will remain with the County. If one account has been depleted and funds are available in the other accounts the MDAD PM may use some of the available funds to complete the Project.

Bid Documents shall be distributed following the MANDATORY Pre-Bid Meeting (see date and time above). Potential bidders are hereby notified that some of the documents that will be distributed following the mandatory pre-bid meeting possibly contain sensitive security information (SSI). Accordingly, please comply with the standards for access, dissemination, handling & safeguarding of SSI in accordance with 49 CFR Part 1520, any applicable amendments and/or supplementary guidance(s) issued by the Department of Homeland Security. Bid Documents must be submitted in a sealed envelope. The bidder's name, address, the project name and the RPQ number must be indicated on the outside of the envelope. The sealed envelope shall include, at a minimum, the following documents:

1. Bid price using Bid Form

2. Attachment 5A.

3. Experience information and qualifications.

4. Bid guarantee in the form of a bid bond, certified check, or cashier's check. Failure to include a bid bond/ guarantee shall render the bid non-responsive.

5. Fully executed Fair Wage and Collusion Affidavit.

6. Any and all applicable Addenda documents (fully executed and dated) issued during the bidding phase.

7. Internal Services Department (ISD) Division of Small Business Development's (SBD) Certificate of Assurance (COA) Form.

All potential bidders are hereby notified that failure to submit the completed Bid Form and Attachment 5A reflecting the bid amount and bidder information, COA, and/or the bid bond/guarantee will not constitute a curable deficiency and shall render the bid "non-responsive." Failure to include the Fair Wage and/or Collusion affidavits, Addendum or other similar forms due with the bid shall be considered curable deficiencies. Bidders will be allowed to cure these deficiencies within deadlines established by MDAD staff.

Recommendation for Award is contingent to availability of proper funding.

## CONSTRUCTION PROGRESS SCHEDULE:

The contractor, within seven days of the Recommendation for Award or time extension granted by the MDAD PM, shall submit a "Construction Progress Schedule" and the final "Schedule of Values" as follows:

The Construction Progress Schedule shall be in a bar chart format with separate bars for each trade, activity and operation on each building, structure and improvement. Include all trades required for completion of project in activities of schedule. Identify the first workday of each week. Provide electronic copy of schedule or submit via E-mail to the MDAD PM. Updated schedules shall be provided with each application for payment. Updated schedules must reflect all changes since previous submittal. Failure to submit updated schedule may be cause for withholding payment to contractor. Activities detailed within construction schedule shall correlate with all items listed within Schedules of Values. OWNER will review and return schedule (approved or rejected) to Contractor. Construction may not begin until OWNER has reviewed and approved in writing of Contractor proposed schedule.

## DAILY LOG:

CONTRACTOR shall maintain a daily log (report) of activity at job-site. Reports will be submitted to the MDAD project manager upon request. Daily reports shall be submitted to the Construction Supervisor at the stipulated progress meeting(s). FAILURE TO SUBMIT DAILY REPORTS AS STIPULATED ABOVE MAY RESULT IN PAYMENT DELAYS. Contractor will be responsible for all his work until accepted by the MDAD. Any damage to any newly completed or in progress work will be the sole responsibility of the contractor to fix at no additional cost to the owner. No time extension will be granted for any delays related to such damages. All existing finishes and areas disturbed by CONTRACTOR will be repaired and or replaced to original condition as directed by OWNER.

## PROGRESS MEETINGS:

The MDAD project manager will schedule and host progress meetings throughout the duration of the project. The contractor shall attend each meeting with major subcontractors, contractor's project manager, and job superintendent and supplier representatives. Attendants noted above shall cooperate with the MDAD PM to ensure that meetings are held on a timely manner. One of the progress meetings may be designated as a monthly payment requisition review meeting.

## PERMITS:

CONTRACTOR is responsible for obtaining all applicable permits and paying all related fees needed to begin and complete all phases of work within the plans. It shall be the contractor's responsibility to ensure that all required regulatory or proprietary permits are obtained prior to commencement of work. Copies of all permits shall be submitted to MDAD PM prior to commencing work. CONTRACTOR is responsible for obtaining all permits and inspections required to complete project. The CONTRACTOR, prior to final requisition for payment, shall obtain and submit a Certificate of Completion and/or Certificate of Occupancy (i.e., if applicable) to the MDAD PM.

CONTRACTOR shall provide all construction administration services and related costs required for all permits and

preparation of all required shop drawings, review, field inspections, as-built, change order review, and close out documents, engineering certificates as required

## SHOP DRAWINGS AND SAMPLES:

The contractor shall submit two (2) copies of all Shop Drawings, catalog cut-sheets and samples (submittals) required. Samples (as applicable) shall provide full range of manufacturer's standard colors, textures, and patterns for selection. All color and finish selections must be submitted by the contractor in a single submittal, properly labeled and identified.

The contractor shall maintain a set of construction drawings on site reflecting all changes, revisions, approved RFIs and/or directives applicable to the changes/modifications. All changes, revisions and/or modifications shall be clearly marked in red on the said drawings before requesting pencil draft walkthrough inspections for processing of payment requisitions. The marked set of drawings shall be readily available at the project site upon request by the MDAD project manager and/or its authorized representative(s).

#### AS-BUILTS:

CONTRACTOR shall provide THREE (3) HARD COPIES and/or THREE (3) CAD COPIES on CD of SIGNED and SEALED as-built drawings at completion of work. Use the latest version of CAD compiled format. X-REF files are not acceptable. Final requisition for payment will not be processed without submittal and acceptance of as-built drawings. CONTRACTOR shall maintain updated Red line as-built at the jobsite for review as part of the Monthly Requisition review meeting. All projects must have an As-Built completed, received, reviewed and approved by the Miami-Dade Aviation Department prior to authorizing final payment to the consultant or contractor. As-Built shall be Signed and Sealed by a Professional Land Surveyor or Professional Engineer.

Design Drawings Included: <u>Y</u>	Shop Drawings Included: <u>N</u>	Specifications Included: <u>Y</u>
Project Qualifier: Ana Finol, P.E.	Phone No: <u>305-876-8310</u>	EMail: <u>AFinol@miami-airport.com</u>

#### Comments:

In accordance with Miami-Dade County Implementing Order 3-9, Accounts Receivable Adjustments, if money is owed by the Contractor to the County, whether under this Contract or for any other purpose, the County reserves the right to retain such amount from payment due by County to the Contractor under this Contract. Such retained amount shall be applied to the amount owed by the Contractor to the County. The Contractor shall have no further claim to such retained amounts which shall be deemed full accord and satisfaction of the amount due by the County to the Contractor for the applicable payment due herein.

Pursuant to Section 2-8.10 of the Code of Miami-Dade County, this Contract is subject to a user access fee under the County's User Access Program (UAP) in the amount of two percent (2%). All construction services provided under this contract are subject to the 2% UAP. This fee applies to all Contract usage whether by County Departments or by any other governmental, quasi-governmental or not-for-profit entity. From every payment made to the Contractor under this contract (including the payment of retainage), the County will deduct the two percent (2%) UAP fee provided in the ordinance and the Contractor will accept such reduced amount as full compensation for any and all deliverables under the contract. The County shall retain the 2% UAP for use by the County to help defray the cost of its procurement program. Contractor participation in this pay request reduction portion of the UAP is mandatory.

Provided, however, UAP shall not be applicable for total contract values, inclusive of contingency and allowance accounts, of less than five hundred thousand dollars (\$500,000.00).

## COMMUNITY WORKFORCE PROGRAM

Prior to entering into a contract and according to the Miami-Dade County Code §2-1701 and amended by Ordinance 13-66, the successful bidder on a construction contract subject to a Community Workforce Program (CWP) goal, must submit to Small Business Development (SBD) through the contracting officer a workforce plan outlining how the CWP goal will be met. Additional information is available at the County's website at http://www.miamidade.gov/business/contract-requirements.asp#0.

Contractor must submit a Workforce Plan to the Miami-Dade County Internal Services Department, Small Business Development Division within fifteen (15) days of notification of award of the contract. The County will not enter into the contract until it receives the contractor's Workforce Plan and deems the Plan acceptable. The Workforce Plan forms may be obtained on the County's website at <u>http://www.miamidade.gov/business/contract-requirements.asp#0</u>.

PUBLIC RECORDS AND CONTRACTS FOR SERVICES PERFORMED ON BEHALF OF MIAMI-DADE COUNTY:

#### CIIS - REQUEST FOR PRICE QUOTATION (RPQ) PRINT Sunday, March 14, 2021 - 7:52:25 AM

The Contractor shall comply with the Public Records Laws of the State of Florida, including but not limited to,: (1) keeping and maintaining all public records that ordinarily and necessarily would be required by Miami-Dade County (County) in order to perform the service; (2) providing the public with access to public records on the same terms and conditions that the County would provide the records and at a cost that does not exceed the cost provided in Chapter 119, F.S., or as otherwise provided by law; (3) ensuring that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law; and (4) meeting all requirements for retaining public records and transferring, at no cost, to the County all public records in possession of the Contractor upon termination of the contract and destroying any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements upon such transfer. In addition, all records stored electronically must be provided to the County in a format that is compatible with the information technology systems of the County. Failure to meet any of these provisions or to comply with Florida's Public Records Laws as applicable shall be a material breach of the agreement and shall be enforced in accordance with the terms of the agreement.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (305) 375-5773; ISD-VSS@MIAMIDADE.GOV; 111 NW 1 STREET, SUITE 1300, MIAMI, FLORIDA 33128

MIAMI-DADE COUN			nance Department 2 Street. Bldg.3030	
				Miami, FL 33102 305.876.8322
COUNT	RPQ ADDEND	UM		
Addendum No.:	1	Date:	5/26/2	020
Project No.:	10204256	Project Title	Base	west and Central Security Booth cement
RPQ No.:	10204256	RPQ Due D	Date:	6/4/2020
Project Location:	MIA Southwest and Central Base Security Booths	Project Mar	nager:	A. Portal

• Change Bid Due Date from Thursday, May 28, 2020 to Thursday, June 4, 2020.

This Addendum also serves to respond to the Request for Information (RFI) submitted by the following Contractors:

Joaquin Esquivia of Conbuild, LLC, received on 5/22/2020, 2:44PM.

- Q.1 Confirm this project requires Automobile Liability Insurance covering all owned, nonowned and hired vehicles, in an amount not less than \$5,000,000 combined single limit.
- A.1 Yes, as shown in the Indemnification and Insurance requirements following the Invitation to Bid, this project requires Automobile Liability Insurance covering all owned, non-owned and hired vehicles, in an amount not less than \$5,000,000 combined single limit.
- Q.2 Will the Miami-Dade Aviation Department (MDAD) reimburse the cost of the liability insurance for the Airport requirements?
- A.2 As shown in the Pre-bid/Proposal Conference Agenda, Insurance requirements are nonreimbursable and if not specifically mentioned in the pay items listed in the Bid Form shall be considered as incidental to one or more of the pay items, and no claim for additional compensation will be allowed, and it shall be assumed that the cost therefore is included in the prices for the various items in the Contract.

- Q.3 Will MDAD reimburse the cost of ID badges?
- A.3 The following items are reimbursable:
  - Actual cost of MDAD identification (ID) badges with a customs Seal
  - The Custom Border Protection (CBP) Seal /bond.
  - Actual cost of fingerprints.
  - The AOA driving training.
  - The vehicle Decal necessary to drive in AOA.

All other costs are not reimbursable and if not specifically mentioned in the pay items listed in the Bid Form shall be considered as incidental to one or more of the pay items, and no claim for additional compensation will be allowed, and it shall be assumed that the cost therefore is included in the prices for the various items in the Contract.

- Q.4 Please clarify to what extent will the security and badges requirement be reimbursed to contractor, does include labor time costs for fingerprint, SIDA Class and orientations classes?
- A.4 Refer to A.3 above.
- Q.5 Will contractor be required to have CBP Custom seals badges for any portion of the work?
- A.5 Since the work is on both landside and airside, the employees from the awarded contractor as well as its subcontractors (if applicable) shall obtain MDAD identification badges including the CBP seal and comply with all MDAD security requirements, background checks, security badges, etc.
- Q.6 Will MDAD reimburse the costs for the CBP custom bond?
- A.6 Refer to A.3 above.
- Q.7 Are contractors required to have portable toilets on airside? If so, which locations?
- A.7 At both the Southwest and Central Base security booths, portable toilets will be required for as long as the restroom booths are unavailable.
- Q.8 What are the locations for the dumpster, provide designated area?
- A.8 Locations for the dumpster will be discussed and determined at the pre-construction meeting prior to commencement of the project.

- Q.9 Does contractor and subcontractors need to upload the certified payrolls on a weekly basis in the BMWS-LCP Tracker system?
- A.9 A prime and any subcontractors performing work on a project that has a wage requirement needs to enter one month's payrolls in the system by the 10th of the following month. So, May's payrolls will be due in LCP Tracker by June 10th. A payroll record is one week of hours worked by the employees.
- Q.10 Will this contract be subject to Inspector General IG fee deduction on each payment? if so, please clarify the percentage amount to be deducted.
- A.10 This project is subject to Inspector General (IG) fees and it will be deducted from each progress payment at a rate of one quarter of one percent by the Finance Department. For more information, refer to:

http://www.miamidadeig.org/index2.html

- Q.11 Please confirm that the 2% UAP deduction is applicable for this project for each payment application.
- A.11 As described in Section 2-8.10 of the Code of Miami-Dade County, "The following contracts shall be exempt from the UAP: Miscellaneous Construction Contract Program contracts with a total contract value of less than five hundred thousand dollars (\$500,000.00), ...". Since the total contract value of this project is greater than \$500,000.00, the 2% UAP deduction applies to each payment application.
- Q.12 Please confirm the contractor warranty period required for this project.
- A.12 As stated in the Surety Performance and Payment Bond, "If no specific periods of warranty are stated in the Contract for any particular item of work, material or equipment, the warranty shall be deemed to be a period of one (1) year from the date of final acceptance by the County".
- Q.13 What is the status of the permit set of drawings? Are they approved by Building Department?
- A.13 As shown in Attachment #21, Permit Info, the permit set of drawings have been dry-run approved by the Building Department.
- Q.14 Will MDAD reimburse contractor the time to process permits and plans revisions?
- A.14 The cost for time to process permits and plan revisions is not reimbursable and if not specifically mentioned in the pay items listed in the Bid Form shall be considered as incidental to one or more of the pay items, and no claim for additional compensation will be allowed, and it shall be assumed that the cost therefore is included in the prices for the various items in the Contract.

- Q.15 Will there be MDAD Building Department inspections or only inspections by independent inspector? Clarify who will perform inspections in the execution of this project.
- A.15 As described in Sheet S002 of the Plans, the contractor shall retain a qualified special inspector and verify with the Building Department if Building Department inspections will be necessary as well.
- Q.16 What are the working hours for this project?
- A.16 Working hours will be discussed and determined at the pre-construction meeting prior to commencement of the project.
- Q.17 The full contract amount for the P&P bond means to include the base bid plus contingency allowance account and plus the dedicated allowance account correct?
- A.17 Yes, the full contract amount for the Performance & Payment (P&P) bond includes the base bid, plus the contingency allowance account, plus the dedicated allowance account.
- Q.18 Confirm that prevailing wages are highway and not building construction.
- A.18 Yes, as shown in the Invitation to Bid, the Prevailing Wage Rate required is Highway Construction.
- Q.19 Sheet G.002 items 29, 30,31 requires dewatering mandated by MDAD. Please provide more information for this procedure, will dewatering be required by MDAD in this project?
- A.19 Dewatering should not be necessary for this project, but Items 29, 30, & 31 should be followed, if necessary.
- Q.20 The special inspector is also a testing company or testing for concrete and soil is by MDAD?
- A.20 As described in Sheet S002 & modified in the Scope of Work notes in the Invitation to Bid, in addition to a qualified special inspector, the contractor shall retain an approved qualified testing agency as well as a geotechnical consultant which will confirm that the specified foundation preparation is performed.

As described in the Scope of Work notes in the Invitation to Bid, "All of the removed soil shall be stockpiled and MDAD Environmental will sample prior to use".

- Q.21 Is the contractor required to have a storage and office trailer on site at each booth location?
- A.21 As described in the Scope of Work notes in the Invitation to Bid, the office trailer requirements described in Contractor Requirements Note #4 in Sheet S002 have been deleted.

- Q.22 Please clarify, will Miami Dade building department perform building inspection in this project, or is all with special inspector?
- A.22 Refer to A.15 above.
- Q.23 Who is responsible to pay for testing fees?
- A.23 Contractor is responsible for paying all testing fees.
- Q.24 Does the Booth come with the sanitary pipe lines pre-installed? Or contractor to install and patch walls?
- A.24 The booth does not come with sanitary pipe lines pre-installed, but patching walls should not be necessary. The waste for the toilet would be under the floor mounted toilet and the waste for the sink typically goes to the vent pipe that runs up in the corner and through the roof and back to connect under the slab to the toilet waste. Please refer to attached booth plans for more information.
- Q.25 Does the booth come with the pipe waterlines pre-installed? Or contractor to install and patch walls?
- A.25 The booth does not come with pipe waterlines pre-installed, but patching walls should not be necessary. The fresh-water feed typically comes up at the toilet where it is tee'd off with another cold water feed running to the sink/water heater. This feed would be inside the building and would be secured to the interior walls. Please refer to attached booth plans for more information.
- Q.26 Does the booth come with the electrical and communication pipes pre-installed? Or contractor to install and patch walls?
- A.26 The booth does not come with electrical and communication pipes pre-installed, but patching walls should not be necessary. An electrical service feed will need to be installed to connect to the load center. The load center is mounted on the exterior of the booth. The existing electrical equipment installed in the booth are pre-wired to the load center. Please refer to attached booth plans for more information.

- Q.27 What is the weight for each booth?
- A.27 Each Security Booth weighs approximately 5,000 pounds.

Each Restroom booth weighs approximately 3,000 pounds.

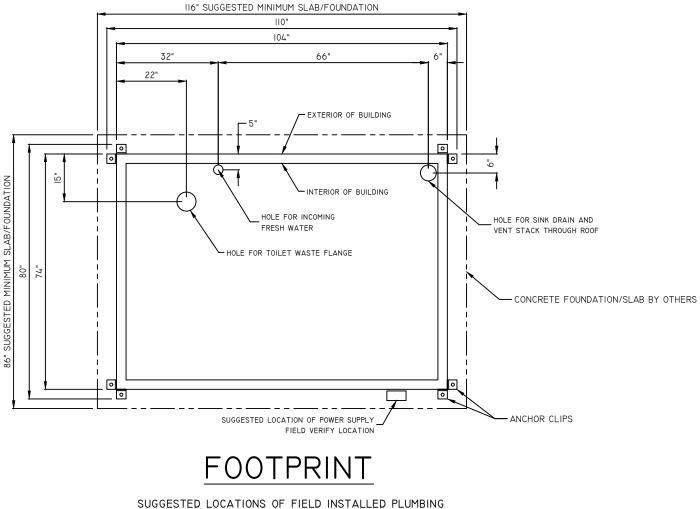
All else remains the same. This document must be signed and returned as part of your RPQ response. Failure to return this document signed may result in your RPQ response being rejected as non-responsive.

Name of Contractor:	_
---------------------	---

Name of Individual Authorized to Sign: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_



AND ELECTRICAL STUB-UPS. ALL LOCATIONS TO BE FIELD VERIFIED AND COORDINATED WITH SITE CONDITIONS.

# T. R. ARNOLD & ASSOCIATES, INC.

an employee owned company third party inspection agency

March 22, 2016

Mr. Jim Richmond Florida Department of Business & Professional Regulation Manufactured Buildings Program 1940 North Monroe Street, Suite 90A Tallahassee, FL 32399-0772

RE: Mardan Fabrication Approvals: MFI-6288-RR

Dear. Mr. Richmond:

Enclosed please find one (1) set of documents for the above noted model. TRA hereby certifies that it has examined the building plan and other documents submitted by the manufacturer for certification and found them to be in compliance with the following codes:

2014 FLORIDA BUILDING CODE 2014 FLORIDA MECHANICAL CODE 2014 FLORIDA PLUMBING CODE 2011 NATIONAL ELECTRICAL CODE 2014 FLORIDA FUEL GAS CODE 2014 FLORIDA ENERGY CONSERVATION CODE

If you have any questions concerning this submission, please feel free to contact this office at any time. Additionally, a hard copy of these plans with the required engineer's seal is on file at T.R. Arnold & Associates, Inc.

Sincerely, T.R. ARNOLD & ASSOCIATES, INC.

Daren Lehman Director of Technical Services

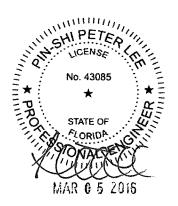
DL/jz

cc: Dennis Eisenhardt File 6240; work order #16-1011

# **Mardan Fabrication**

# Structural Analysis for V15-090-4 6288-RR

Contents	Pages
Design Loads	1 3
RT 2 x 3x 1/8 6063-T52	4 10
Roof Framing	11
RT 3 x 3 x .25 6063-T6	12 18
#12 screw capacities	19
Exterior Wall Framing	20
RT 3 x 3 x .125 6063-T6	21 27
Main Wind Force Resisting System	28 29
Sliding, Uplifting, and Overturning	30 31



## **Mardan Fabrication**

3/4/2016

## Structural Analysis for V15-090-4 6288-RR

Building dimensions:	6' 2	6' 2" (W) x 8' 8"(L) x 9' 9" (H)			
	Exte	erior wall height	:: 111	in	
	Roc	of vertical project	tion:	3 in	
	Roc	of slope:	1.2	•	
	Roc	of overhang:	0	in	
	Me	an roof height:	9.75	ft	
Roof live load:	Lr=	30 psf	(ASCE Table	e 4-1)	
Floor live load:	L=	50 psf			
Ground snow load:	Pg=	0 psf	(ASCE Figur	re 7-1)	
Risk category: II	(ASCE Table 1.5	5-1)			
Wind load: 175 mph exposure C	(ASCE Figure 26	5.5-1A)	Assuming k	(zt=1.0	
Earthquake load:	Ss=	0.041 g with s	ite class B	(ASCE figure 22-1)	
	S1=	0.020 g with s	site class B	(ASCE figure 22-2)	
	Site class: D				
Roof dead load:	5 psf	(	4 psf for upli	ft)	
Exterior wall dead load:	5 psf	•	1	/	
	•				
Floor dead load:	5 psf	(	4 psf for uplif	ft)	

Design references:

ASCE/SEI 7-10 ANSI/AF & PA NDS-2012 ANSI/AF & PA SDPWS-2008 AISC Steel Construction Manual 13th edition AISI NASPEC 2007 AISI Manual 2008 Edition Aluminum Design Manual 2010



# Mardan Fabrication

3/4/2016

## Structural Analysis for V15-090-4 6288-RR

Snow Load

Pf=	0 psf	(ASCE 7.3-1)	Ce= 1.0	(ASCE Table 7-2)
			Ct= 1.0	(ASCE Table 7-3)
			ls= 1.0	(ASCE Table 1.5-2)
Pm=	0 psf	(ASCE 7.3.4)		
Ps=	0 psf	(ASCE 7.4-1)	Cs= 1.0	(ASCE Figure 7-2)
Unbalanced snow	v load:	W< 20 ft		MILLIN.
Ps= na	psf		NIN SH!	PETER
Drifting snow:	na		No	. 43085



Wind Load

	λ= 1.21
	Kzt= 1.0
MWFRS - Envelope Procedure Part 2:	(ASCE Figure 28.6-1)

-	Α	В	С	D	Ε	F	G	Н
Ps₃₀(psf)	48.70	-25.30	32.30	-14.98	-58.48	-33.25	-40.75	-25.78
Ps(psf)	58.93	-30.61	39.08	-18.13	-70.76	-40.23	-49.31	-31.19

_	Eoh	Goh
Ps <sub>30</sub> (psf)	-81.88	-64.15
Ps(psf)	-99.07	-77.62

Components and Cladding - Part 2:

(ASCE Figure 30.5-1)

		Roof		w	all	Roof ov	verhang
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 2	Zone 3
Pnet <sub>30</sub>	-55.25	-92.68	-139.48	-57.43	-68.98	-79.58	-131.05
Pnet	-66.85	-112.14	-168.76	-69.48	-83.46	-96.29	-158.57
	psf	psf	psf	psf	psf	psf	psf

# Mardan Fabrication

3/4/2016

## Structural Analysis for V15-090-4 6288-RR

# Earthquake Load

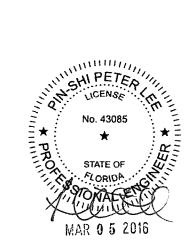
Sms= Sds=	0.066 g (ASCE 11.4-1) 0.044 g (ASCE 11.4-3)	where	Fa= 1.6	
Sm₁= Sd₁=	0.048 g (ASCE 11.4-2) 0.032 g (ASCE 11.4-4)	where	Fv= 2.4	

## Seismic Design Category: A

Cs=	0.012 <== (ASCE 12.8-2)	where	R= 3.5	(ASCE Table 12.2-1)
_			le= 1.0	(ASCE Table 1.5-2)
Ta=	0.173126	where	Ct= 0.028	(ASCE Table 12.8-2)
			x= 0.8	(ASCE Table 12.8-2)
			hn= 9.75	
T=	0.294314	where	Cu= 1.7	(ASCE Table 12.8-1)
Cs=	0.031 (ASCE 12.8-3)	for T <tl= 8<="" td=""><td></td><td></td></tl=>		

## Dead Load:

Roof:	Dr=	267 lbs			
Wall:	Dw=	1373 lbs			
Floor:	Df=	267 lbs			
St. frame:	Dst=	0 lbs			
Snow load:	S=	0 lbs	Building weight=	1908 lbs	
Base shear=	24 lbs	(ASCE 12.8-1)			



3/

# Mardan Fabrication

3/4/2016

## Structural Analysis for V15-090-4 6288-RR

## Aluminum Shape RT 2 x 3 x 1/8

Alloy-Temper: 6063-T52

properties:	(ADM Table	e A.3.4)		
22 ksi	F ty =	16 ksi	F cy =	16 ksi
13 ksi	E =	10100 ksi	F sy =	9.6 ksi
(ADN	/I Table 23)			
1.19 in²				
1.470 in⁴	S x =	0.978 in³	r x =	1.111 in
0.772 in <sup>4</sup>	S y =	0.770 in <sup>3</sup>	r y =	0.805 in
nstants:	(ADM Table	B.4.2)		
17.34924 ksi	D c =	0.071905 ksi	C c =	98.924607
19.52206 ksi	D p =	0.085828 ksi	C p =	93.257071
28.30949 ksi	D br =	0.183562 ksi	C br =	102.81531
11.79785 ksi	D s =	0.040322 ksi	C s =	119.96183
	13 ksi (ADM 1.19 in² 1.470 in⁴ 0.772 in⁴ nstants: 17.34924 ksi	22 ksiF ty =13 ksiE =(ADM Table 23)1.19 in²1.470 in⁴S x =0.772 in⁴S y =nstants:(ADM Table)17.34924 ksiD c =19.52206 ksiD p =28.30949 ksiD br =	22 ksiF ty =16 ksi13 ksiE =10100 ksi(ADM Table 23) $(ADM Table 23)$ 1.19 in² $1.470 in^4$ S x =0.772 in⁴S y =0.770 in³nstants:(ADM Table B.4.2)17.34924 ksiD c =0.071905 ksi19.52206 ksiD p =0.085828 ksi28.30949 ksiD br =0.183562 ksi	22 ksiF ty =16 ksiF cy =13 ksiE =10100 ksiF sy =(ADM Table 23)1.19 in²1.470 in <sup>4</sup> S x =0.978 in³r x =0.772 in <sup>4</sup> S y =0.770 in³r y =nstants:(ADM Table B.4.2)17.34924 ksiD c =0.071905 ksiC c =19.52206 ksiD p =0.085828 ksiC p =28.30949 ksiD br =0.183562 ksiC br =

Post buckling constants: (/

(ADM	Table	e B.4.3)
------	-------	----------

In compression:	k <sub>1</sub> = 0.35	k₂ = 2.27
In flexure:	k <sub>1</sub> = 0.50	$k_2 = 2.04$



4/

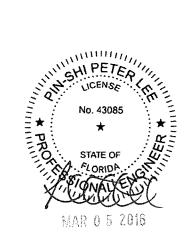
# Structural Analysis for V15-090-4 6288-RR

Element in uniform compression:

b/t =	22	
F c = F co		(ADM B.5-3)

Flat element supported on both edges:

Yielding:	S <sub>1</sub> =	25.64771	
	b/t ≤ S₁		YES
	Fc=	16	ksi
Buckling:	S <sub>2</sub> =	49.75606	
S <sub>1</sub> <	b/t < S <sub>2</sub>		NO
	F c =	na	ksi
	b/t ≥ S₂		NO
	F c =	na	ksi
Post buckling:	S <sub>2</sub> =	49.75606	
	b/t > S <sub>2</sub>		NO
	F c =	na	ksi
F c =	16	ksi	



3/4/2016

# Mardan Fabrication

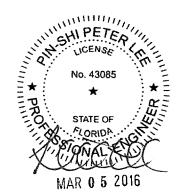
# Structural Analysis for V15-090-4 6288-RR

Element in flexure:

b/t = 14 F b = F bo (ADM B.5-12)

Flat element supported on both edges

Yielding:	S <sub>1</sub> =	62.9382	
	b/t ≤ S₁		YES
	F b =	20.8	ksi
Buckling:	S2 =	83.04313	
S <sub>1</sub> <	: b/t < S₂		NO
	F b =	na	ksi
	b/t≥S₂		NO
	F b =	na	ksi
F b =	20.8	ksi	



6/

3/4/2016

# Mardan Fabrication

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

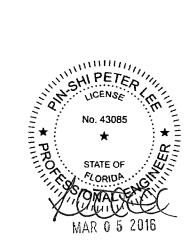
**Axial Tension:** 

P a = P n / Ω t		where	Ωt = 1.95 Ωt = 1.65	for rupture for yielding
A e = A g =	1.19 in²			
Yielding:				
	P n =	19.04 kips	(ADM D.2	-1)
	Pa=	11.539 kips		
	=	11539 lbs		

## Rupture:

P n =	26.18 kips	(ADM D.2-3)
k t = 1	.0	(ADM Table A.3.3)
Pa=	13.426 kips	
<u></u>	13426 lbs	

P a = 11539 lbs



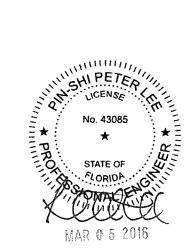
# Mardan Fabrication

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

Axial Compression:

Pa=Pn/Ω	2 c	where	Ωc = 1.65
-	98.92461		(ADM E.3-4)
KL =	68	in	
KL / r =	61.1820	$\leq S_2$	YES
F c =	11.007	ksi	(ADM E.3-2, E.3-3)
P n =	13.099	kips	
P a =	7.939	kips	
=	7939	lbs	



## **Mardan Fabrication**

3/4/2016

9/

Structura	Ana	lysis fa	or V1	5-090-	4 62	288-RR

Flexure:

M a = M n / Ω b	)	where	Ωb=	1.65
L bx =	18 in			
Let	C b = 1.0	а	nd	rxe=rx

## S<sub>2</sub> = 118.7095

L bx /(r ye\*C b^(1/2))=  $22.34793 \le S_2$  YES

F bx = 16.010 ksi (ADM F.2.1)

and

rye = ry

YES

M nx =	15.658 kip-in
M ax =	9.490 kip-in
=	9490 lb-in

LЬ	y =	68	in
----	-----	----	----

Let

## S<sub>2</sub> = 118.7095

L by /(r xe\*C b^(1/2))=  $61.18201 \le S_2$ 

C b = 1.0

F by = 13.683 ksi (F.2.1)

M ny =	10.536 kip-in
M ay =	6.385 kip-in
=	6385 lb-in



# **Mardan Fabrication**

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

Shear:

V a = V n / G	) v	where	Ω v =	1.65
S <sub>1</sub> =	43.60584		S 2 =	95.96946
b / t =	22 ≤ S <sub>1</sub>	Yes		
Fs = Fsy =	9.6 ksi		A w =	0.75 in²
V n =	7.2 kips	5		(ADM G.2-1)
V a =	4.364 kips	i		
=	4364 lbs			



Peter Lee, P.E., M.S.
23329 Century Drive
Elkhart, IN 46514

# Mardan Fabrication

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

# Roof Framing RT 2 x 3 x 1/8

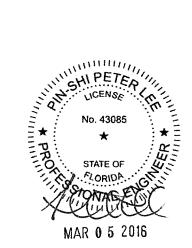
Load tributa	ary width	20 " o.c. Span:		5.	67 ft		
Fy=	16 ksi	Fu=	22	! ksi		E=	1.01E+07
Beam Prope	erties :						
Sex= Vnx= Vnx/Ωv=	0.978 in <sup>3</sup> 7200 lbs 4364 lbs	lex= Ωv=	1.47 1.65	′in⁴	IN S	HIPE	TER
Flexural Stre Mnx= Mnx/Ωb=	ength: 15658 lb-in 9490 lb-in	Ωb=	1.65		A PROCESS	No. 430	
D+S: I	Not significant				K	ACCENT MAR 0	5 2016
W=	4.8611 pli						
w live=	4.1667 pli						
M= V= Δ=	2813 lb-in 165 lbs 0.08 in	≤Mn/Ωb ≤Vn/Ωv <ℓ/240 =	0.284	OK OK in	ОК		
0.6D+0.6W (	(Zone 3):						
w= w live=	13.7304 pli 14.0637 pli						
M= V= Δ=	7946 lb-in 467 lbs 0.26 in	≤Mn/Ωb ≤Vn/Ωv < <b>ℰ/</b> 240 =	0.284	OK OK in	ОК		

Peter Lee, P.E., M.S.

Mardan Fa	brication						3/4/2016
Structural A	Analysis for	· V15-090-4	1 6288-RR				
Aluminum S	Shape RT 3	<u>x 3 x .250</u>					
Alloy-Temp	er:	6063-T6					
Mechanical	properties	:	(ADM Table	e A.3.4)			
F tu =	30	ksi	F ty =	25	ksi	F cy =	25 ksi
F su =	19	ksi	E =	10100	ksi	F sy =	
Shape:		(ADM Tabl	le 23)				
A =	2.75	-					
x =	3.490	in <sup>4</sup>	S x =	2.330	in³	r x =	1.127 in
l y =	3.490	in⁴	S y =	2.330	in³	r y =	1.127 in
Buckling cor	nstants:		(ADM Table	e B.4.2)			
B c =	27.63523	ksi	D c =	0.144555	ksi	C c =	78.381395
B p =	31.38591	ksi	D p =	0.174961	ksi	C p =	73.549067
B br =	46.11561	ksi	D br =	0.381643	ksi	C br =	80.556359
B s =	18.98497	ksi	D s =	0.08231	ksi	C s =	94.566995
Post bucklin	ig constant	s:	(ADM Table	B.4.3)			
I	in compres	sion:	k1 =	0.35		k₂ = 2.27	

 $k_1 = 0.50$ 

In flexure:



k<sub>2</sub> = 2.04

12/

## Mardan Fabrication

# Structural Analysis for V15-090-4 6288-RR

Element in uniform compression:

b/t =	10	
Fc = Fco		(ADM B.5-3)

Flat element supported on both edges:

Yielding:	S <sub>1</sub> =	22.8119	
	b/t ≤ S₁		YES
	F c =	25	ksi
Buckling:	S <sub>2</sub> =	39.24112	
S <sub>1</sub>	< b/t < S2		NO
	Fc=r	าล	ksi
	b/t ≥ S₂		NO
	Fc = r	เล	ksi
Post buckling:	S <sub>2</sub> =	39.24112	
	b/t > S₂		NO
	Fc=r	เล	ksi
F c =	25 k	si	



MAR 0 5 2016

.

3/4/2016

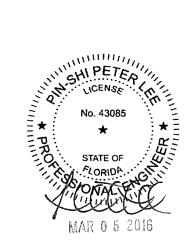
Structural Analysis for V15-090-4 6288-RR

Element in flexure:

b/t = 10 F b = F bo (ADM B.5-12)

Flat element supported on both edges

Yielding:	S <sub>1</sub> =	54.8867	
	b/t ≤ S₁		YES
	Fb=	32.5	ksi
Buckling:	S <sub>2</sub> =	65.06475	
S1 <	b/t < S2		NO
	Fb=	na	ksi
	$b/t \ge S_2$		NO
	F b =	na	ksi
F b =	32.5	ksi	



3/4/2016

## Mardan Fabrication

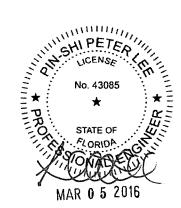
3/4/2016

# Structural Analysis for V15-090-4 6288-RR

**Axial Tension:** 

	where					for rupture for yielding
2.75 in²						
P n =	68.75	kips		(ADM	D.2-1	L)
Pa=	41.667	kips				
Ξ	41667	lbs				
P n =	82.5	kips		(ADM I	D.2-3	3)
k t = 1.0	)			(ADM <sup>-</sup>	Table	e A.3.3)
Pa=	42.308	kips				
=	42308	lbs				
	P n = P a = = P n = k t = 1.0 P a =	2.75 in <sup>2</sup> P n = $68.75$ P a = $41.667$ = $41667$ P n = $82.5$ k t = $1.0$ P a = $42.308$	P n = 68.75 kips P a = 41.667 kips = 41667 lbs P n = 82.5 kips k t = 1.0 P a = 42.308 kips	$\Omega t = 2.75 \text{ in}^2$ $P n = 68.75 \text{ kips}$ $P a = 41.667 \text{ kips}$ $= 41667 \text{ lbs}$ $P n = 82.5 \text{ kips}$ $k t = 1.0$ $P a = 42.308 \text{ kips}$	$\Omega t = 1.65$ $\Omega t = 1.65$ 2.75 in <sup>2</sup> $P n = 68.75 \text{ kips} \qquad (ADM)$ $P a = 41.667 \text{ kips}$ $= 41667 \text{ lbs}$ $P n = 82.5 \text{ kips} \qquad (ADM)$ $k t = 1.0 \qquad (ADM)$ $P a = 42.308 \text{ kips}$	$\Omega t = 1.65$ $\Omega t = 1.65$ 2.75 in <sup>2</sup> $P n = 68.75 \text{ kips} \qquad (ADM D.2-2)$ $P a = 41.667 \text{ kips} = 41667 \text{ lbs}$ $P n = 82.5 \text{ kips} \qquad (ADM D.2-3)$ $k t = 1.0 \qquad (ADM D.2-3)$ $k t = 1.0 \qquad (ADM Table)$ $P a = 42.308 \text{ kips}$

P a = 41667 lbs



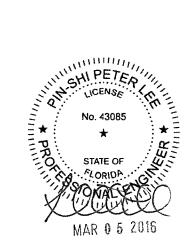
# **Mardan Fabrication**

3/4/2016

## Structural Analysis for V15-090-4 6288-RR

Axial Compression:

$Pa = Pn / \Omega$	с	where	Ω c = 1.65
S <sub>2</sub> =	78.3814		(ADM E.3-4)
KL =	111	in	
KL / r =	98.5318	$\leq S_2$	NO
F c =	8.727	ksi	(ADM E.3-2, E.3-3)
P n =	24.000	kips	
P a =	14.546	kips	
=	14546	lbs	



## **Mardan Fabrication**

17/

3/4/2016

## Structural Analysis for V15-090-4 6288-RR

Flexure:

Ma = Mn /  $\Omega$  b where  $\Omega$  b = 1.65 L bx = 45 in Let C b = 1.0 and r xe = r x

## S<sub>2</sub> = 94.05767

 $L bx / (r ye^*C b^{(1/2)}) = 39.94534 \le S_2$  YES

F bx = 22.823 ksi (ADM F.2.1)

and

rye = ry

YES

M nx = 53.178 kip-in M ax = 32.229 kip-in = 32229 lb-in

L by = 102 in

Let

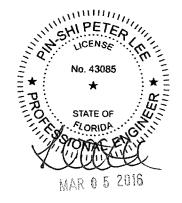
S<sub>2</sub> = 94.05767

L by  $/(r xe^*C b^{(1/2)}) = 90.54278 \le S_2$ 

C b = 1.0

F by = 16.728 ksi (F.2.1)

M ny =	38.977	kip-in
M ay =	23.622	kip-in
=	23622	lb-in



# Mardan Fabrication

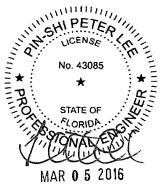
3/4/2016

18/

# Structural Analysis for V15-090-4 6288-RR

Shear:

V a = V n / G	۷	where		Ω v =	1.65
S <sub>1</sub> =	38.73119			S <sub>2</sub> =	75.6536
b / t =	10 ≤	S S1	Yes		
Fs = Fsy =	15 k	si		A w =	1.5 in²
V n =	22.5 k	ips		(/	ADM G.2-1)
V a =	13.636 k	ips			
=	13636 ll	bs			ALL MARKEN
					S.



# Mardan Fabrication

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

Screw:	#12 x 1"	D =	0.216 in		Ω = 3.0
t1 =	• 0.125 in		t <sub>2</sub> =	0.25 in	
F ty <sub>1</sub> =	= 16000 psi		F ty <sub>2</sub> =	25000 psi	
F tu <sub>1</sub> =	22000 psi		F tu <sub>2</sub> =	30000 psi	

## Screw Pull-Out:

Rn =	1620 lbs	(ADM J.5-1)
Rn / Ω =	540 lbs	

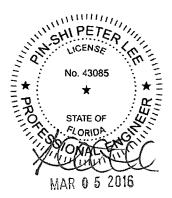
## Screw Bearing:

Rn =	1188 lbs	(ADM J.5-12)
Rn / Ω =	396.0 lbs	

# Screw Tilting:

Rn =	7320 lbs
Rn / Ω =	2440.0 lbs

(ADM J.5-13)



		Peter Le 23329 Ce Elkhart	entur	y Drive		·
Mardan Fa	brication					3/4/2016
Structural A	nalysis for V15-0	90-4 6288-RR				
Exterior Wa						
RT 3 x 3 x .2						
Tributary wi	dth:	38 "				
Length:		111 in				
Fy=	25 ksi	Fu	=	30 ksi	E=	1.01E+07
Beam Prope	rties :					
Sex=	2.330 in <sup>3</sup>	lex	=	3.490 in⁴		
Vnx=	22500 lbs	Ωv=	= 1.6	5		
Vnx/Ωv=	13636 lbs					
Flexural Stre	ength:				NI CHIP	ETEP
Mnx=	53178 lb-in	Ωb=	= 1.6	5	NON LICE	INSE
Mnx/Ωb=	32229 lb-in				T 🔺 🗄	43085 ÷
Axial Strengt	th:				= = = :	TE OF
Pn=	24000 lbs	0	- 1 61	-	I STON	ALECT
$Pn/\Omega c=$	14546 lbs	110=	= 1.6	5	XUE	Well
-					MAR 0	5 2016
D+S: N	lot significant					
D+Lr:						
P=	342 lbs	≤ Pn/Ωc	ОК			
D+0.6W (Zor	ne 5, lateral load):					
p=	49 lbs	≤ Pn/Ωc	ОК			
Ωc P/Pn=	0.003	≤ 0.15	YES			
w=	13.2145 pli					
M=	20352 lb-in	≤ Mnx/Ωb	ОК			
(ΩcP/Pn)+(Ω	bMx/Mnx)+(ΩbM	y/Mny)=		0.635 <1	ОК	
V=	733 lbs	≤Vnx/Ωv	ОК			

Four(4) #12 screws each end for shear.

20/

Mardan Fa	3/4/2016				
<u>Structural</u>	Analysis for V	/ <u>15-090-4 6288-RR</u>			
<u>Aluminum S</u>	Shape RT 3 x	<u>3 x .125</u>			
Alloy-Temp	er: 6	063-T6			
Mechanical	properties:	(ADM Tab	le A.3.4)		
F tu =	30 k	si F ty =	= 25	ksi F cy	y = 25 ksi
F su =	19 k	si E =	= 10100	ksi F s	y = 15 ksi
Shape:	(/	ADM Table 23)			
A =	1.44 ir	1 <sup>2</sup>			
x =	1.980 ir	1 <sup>4</sup> Sx=	= 1.320	in <sup>3</sup> ro	κ = 1.173 in
l y =	1.980 ir	1 <sup>4</sup> Sy=	= 1.320	in <sup>3</sup> ry	y = 1.173 in
Buckling co	nstants:	(ADM Tab	le B.4.2)		
B c =	27.63523 k	si Dc=	• 0.144555	ksi C d	c = 78.381395
B p =	31.38591 k	si Dp=	0.174961	ksi C p	o = 73.549067
B br =	46.11561 k	si D br =	0.381643	ksi C bi	r = 80.556359
B s =	18.98497 k	si D s =	• 0.08231	ksi C s	s = 94.566995

Post buckling constants: (ADM Table B.4.3)

In compression:	k <sub>1</sub> = 0.35	k₂ = 2.27
In flexure:	k <sub>1</sub> = 0.50	k₂ = 2.04



21/

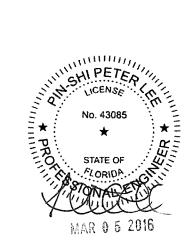
### Structural Analysis for V15-090-4 6288-RR

Element in uniform compression:

b/t =	22	
F c = F co		(ADM B.5-3)

Flat element supported on both edges:

S <sub>1</sub> =	22.8119	
b/t ≤ S₁		YES
Fc=	25	ksi
S <sub>2</sub> =	39.24112	
< b/t < S₂		NO
Fc=r	าล	ksi
b/t≥S₂		NO
Fc=r	าล	ksi
S	20 2/112	
-	JJ.24112	No
$D/t > S_2$		NO
Fc = r	na	ksi
25 k	si	
	$b/t \le S_1$ $F c =$ $S_2 =$ $b/t < S_2$ $F c = r$ $b/t \ge S_2$ $F c = r$ $S_2 =$ $b/t > S_2$ $F c = r$	F c = 25 $S_2 = 39.24112$ $S_2 = 50.24112$ $S_2 = 50.24112$ $S_2 = 50.24112$



3/4/2016

22/

# Mardan Fabrication

# Structural Analysis for V15-090-4 6288-RR

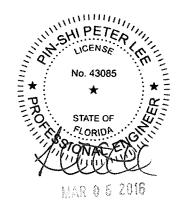
Element in flexure:

b/t = 22 F b = F bo (ADM B.5-12)

Flat element supported on both edges

Yielding:	S <sub>1</sub> =	54.8867	
	b/t ≤ S₁		YES
	Fb=	32.5	ksi
Buckling:	S2 =	65.06475	
S1 <	: b/t < S₂		NO
	Fb=1	na	ksi
	b/t≥S₂		NO
	Fb=ı	าล	ksi

F b = 32.5 ksi



23/

3/4/2016

# Mardan Fabrication

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

Axial Tension:

$Pa = Pn / \Omega t$	where	Ωt = 1.95	for rupture
		Ωt = 1.65	for yielding

 $A = A g = 1.44 \text{ in}^2$ 

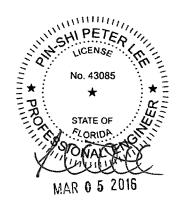
Yielding:

P n =	36 kips	(ADM D.2-1)
P a =	21.818 kips	
=	21818 lbs	

Rupture:

P n =	43.2 kips	(ADM D.2-3)
k t = 1.	0	(ADM Table A.3.3)
P a =	22.154 kips	
=	22154 lbs	

P a = 21818 lbs



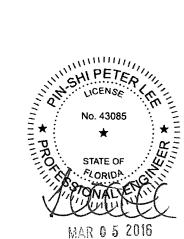
# **Mardan Fabrication**

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

Axial Compression:

Pa=Pn/Ω	с	where	Ω c = 1.65
S 2 =	78.3814		(ADM E.3-4)
KL =	45	in	
KL / r =	38.3761	$\leq S_2$	YES
F c =	18.775	ksi	(ADM E.3-2, E.3-3)
Pn=	27.035	kips	
P a =	16.385	kips	
=	16385	lbs	



#### Mardan Fabrication

26/

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

Flexure:

M a = M n /  $\Omega$  b where  $\Omega$  b = 1.65 L bx = 45 in Let C b = 1.0 and r xe = r x

#### S<sub>2</sub> = 94.05767

 $L bx / (r ye^*C b^{1/2}) = 38.37613 \le S_2$  YES

F bx = 23.012 ksi (ADM F.2.1)

and

rye = ry

YES

M nx = 30.376 kip-in M ax = 18.410 kip-in = 18410 lb-in

L by = 45 in

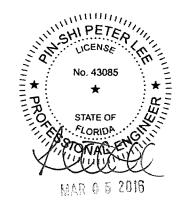
Let

S<sub>2</sub> = 94.05767

L by  $/(r xe^*C b^{(1/2)}) = 38.37613 \le S_2$ 

C b = 1.0

- F by = 23.012 ksi (F.2.1)
- M ny = 30.376 kip-in M ay = 18.410 kip-in = 18410 lb-in



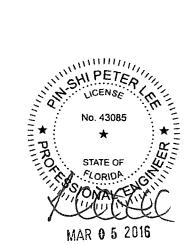
# Mardan Fabrication

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

Shear:

V a = V n / C	) v	where		Ωv=	1.65
S <sub>1</sub> =	38.73119			S 2 =	75.6536
b / t =	22 ≤	S <sub>1</sub>	Yes		
Fs = Fsy =	15 ks	si		A w =	0.75 in²
V n =	11.25 ki	ips		I	(ADM G.2-1)
V a = =	6.818 ki 6818 lb	•			



#### **Mardan Fabrication**

3/4/2016

# Structural Analysis for V15-090-4 6288-RR

Main Wind Force Resisting System

Vertical wall frames are resisting the lateral shear loads

Wind direction: Perpendicular to the length of the building

Wall length =		8.67 ft	End zone length =	4.335 ft
Stud length =		111 in		
Roof heel =		0 in		
Roof ridge =		0 in		
Shear S =	709 lbs			
Min. shear=	192 lbs	(ASCE 2	8.6.4)	

# Wind direction: Parallel to the length of the building

Wall length =	(	5.17 ft	End zone length =	3.085 ft
Stud length =		111 in		
Roof heel =		0 in		
Roof ridge =		0 in		
Shear S =	504 lbs			MINIMUM
Min. shear=	137 lbs	(ASCE	28.6.4)	GHIPE TEA
				LICENSE
			E_ E	No. 43085



#### **Mardan Fabrication**

3/4/2016

#### Structural Analysis for V15-090-4 6288-RR

Seismic Load at Ceiling Line:

Fr = 12 lbs (ASCE 12.14-12)

Load in plan S-N direction:

Both east and west walls are solid walls.

One(1) RT 3 x 3 x .125 6063-T6 in each corner to resist tension/compression load. Max. load on top of each wall= 709 lbs

T = C =	1063 lbs	<pa< th=""></pa<>
V =	354 lbs	<va< th=""></va<>

Load in plan E-W direction:

Both south and north walls are solid walls. South wall has two segments.The RT 3 x 3 x .125 / RT 3 x 3 x .250 resist tension/compression load.Max. load on top of each wall=504 lbsSouth wall with two segments controlls.

T = C =	823 lb-in	<pa< th=""></pa<>
V =	252 lbs	<va< th=""></va<>



#### **Mardan Fabrication**

3/4/2016

#### Structural Analysis for V15-090-4 6288-RR

### Sliding, Uplifting, and Overturning

Tie-Downs:

The building is anchored to the concrete pad with eight(8) 1/2 " expansion bolt. A min. 3" embedment in the min. 3000 psi concrete. (Power-Stud of Powers Fasteners)

Allowable tension load per bolt=	1655 lbs
allowable shear load per bolt=	1665 lbs

Floor depth = 3 in

Sliding :

Wind/seismic load perpendicular to the length of the building,

Total sliding load =2912 lbsShear load in each anchor=364 lbsOK

Wind/seismic load parallel to the length of the building,

Total sliding load =	2072 lbs		
Shear load in each anchor=		259 lbs	ОК

**Uplifting**:

Uplift load= 42.45648 psf 60% building weight= 7.8 psf

Total uplift=	1854 lbs		
Tension load in each anchor	=	232 lbs	ОК



#### **Mardan Fabrication**

3/4/2016

#### Structural Analysis for V15-090-4 6288-RR

Overturning :

Wind/seismic load perpendicular to the length of the building,

Overturning moment =	230217 lb-in	
Resistance lever arm =	74 in	
Tension load in each anchor=	778 lbs	ОК

Wind/seismic load parallel to the length of the building,

Overturning moment =	211422 lb-in	
Resistance lever arm =	104 in	
Tension load in each anchor=	508 lbs	ОК

(Nu/Nn)^(5/3)+(Vu/Vn)^(5/3)=

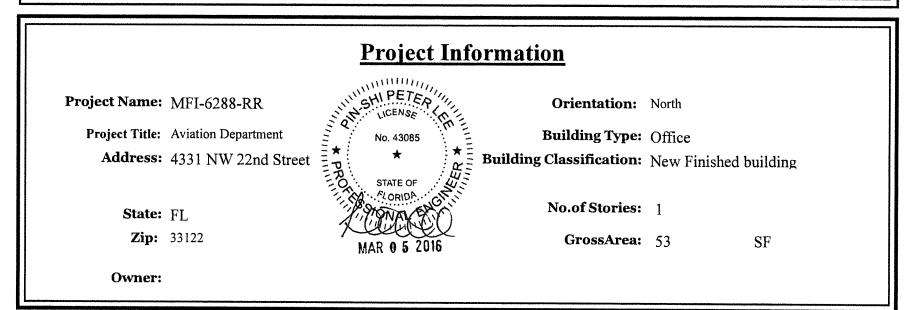
0.363 ≤ 1

ОК



# EnergyGauge Summit® v5.10

# **INPUT DATA REPORT**



			Zones					
No Acronym	Description	Туре			Area [sf]	Multiplier	Total Area [sf]	
1 Pr0Zo1	Zone 1	CONDITIONED			53.4	1	53.4	
			Spaces					
No Acronym	Description	Туре	Depth [ft]	Width [ft]	-	Aulti Total Area Dier [sf]	Total Volume [cf]	

Lighting       No     Type     Category     No. of Luminaires     Watts per Luminaire     Power     Control Type     No.of Ctrl pts       In Zone:     Pr0Zo1 1     Suspended Fluorescent General Lighting     1     28     28     Manual On/Off     1       Walls     Walls     Walls     Area [ft]     DirectionConductance [st]     Heat (Btu/st.F)     Dens. (Btu/st.F)     R-Value (Btu/st.F)       In Zone:     Pr0Zo1     Type     Width H (Effec) Multi [ft]     Area [st]     DirectionConductance [Btu/st.st.F)     Heat (Dapacity [Btu/st.F)     Dens. (Btu/st.F)     R-Value (Btu/st.F)       In Zone:     Pr0Zo1     Mardan Wall Panel     8.67     9.75     1     84.5     North     0.0541     18.5       3     Wall C     Mardan Wall Panel     8.67     9.75     1     84.5     North     0.0541     18.5       4     Wall D     Mardan Wall Panel     6.17     9.75     1     60.2     North     0.0541     18.5       4     Wall D     Mardan Wall Panel     6.17     9.75     1     60.2     North     0.0541     18.5       4     Wall D     Mardan Wall Panel     6.17     9.75     1     60.2     North     0.0541     18.5       5     No<	In Zoi 1	ne: Pr Pr0Zo	r <b>0Zo1</b>  Sp1	Zo0Sp1	Office - (	Open Plan		8	.67 6.	.17	8.50	1	53.4	454.3		
In Zone:     Pr0Zo1     Image: Strate Strate     Pr0Zo1 Split     Pr0Zo1 Split     Image: Strate Stra				<u></u>		**************************************	L	ight	ing							
In Space:       Pr0Zo1Sp1 1       Suspended Fluorescent General Lighting       1       28       28       Manual On/Off       1         Walls         Walls         No Description       Type       Width H (Effec) Multi [ft]       Area [ft]       DirectionConductance [Btu/hr.st. F]       Heat Capacity [Btu/st.F]       Dens. (b/cf]       R-Value (b/cf]         In Zone:       Pr0Zo1       1       8.67       9.75       1       84.5       North       0.0541       18.5         2       Wall B       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         3       Wall C       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         4       Wall D       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         4       Wall D       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         4       Wall D       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         I			No	Туре	Cate	gory						Contr	ol Type			
No         Description         Type         Width H (Effec) [ft]         Multi plier         Area [sf]         DirectionConductance [Btu/hr.sf.F]         Heat Capacity [Btu/sf.F]         Dens. R-Value (b/cf]           In Zone:         Pr0Zo1					d Fluorescent Gener	al Lighting		1		28	28	Manual	On/Off	1		
In Zone:       Pr0Zo1       Image: Pr0Zo1        Image: Pr0Zo1       <								Wal	ls							
1       Wall A       Mardan Wall Panel       8.67       9.75       1       84.5       North       0.0541       18.5         2       Wall B       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         3       Wall C       Mardan Wall Panel       8.67       9.75       1       84.5       North       0.0541       18.5         4       Wall D       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         4       Wall D       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         4       Wall D       Mardan Wall Panel       6.17       9.75       1       60.2       North       0.0541       18.5         Value       Value       Value       Value         Value       Value       Value       Value         Value       Value       Value       Value       Value       Value         Value <td colspa="4" td="" val<=""><td>No</td><td>Descrij</td><td>otion</td><td></td><td>Туре</td><td></td><td>• •</td><td></td><td></td><td>Di</td><td></td><td></td><td>Capacity</td><td></td><td></td></td>	<td>No</td> <td>Descrij</td> <td>otion</td> <td></td> <td>Туре</td> <td></td> <td>• •</td> <td></td> <td></td> <td>Di</td> <td></td> <td></td> <td>Capacity</td> <td></td> <td></td>	No	Descrij	otion		Туре		• •			Di			Capacity		
No     Description     Type     Shaded     U     SHGC Vis.Tra     W     H (Effec)     Multi     Total Area       [ft]     [ft]     [ft]     [ft]     [ft]     [sf]       In Zone:     In Wall:	1 2 3	Wall A Wall B Wall C	Pr	0Zo1	Mardan Wall Panel Mardan Wall Panel	6.17 8.67	9.75 9.75	1	60.2 84.5		North North	0.0541 0.0541		18 18	.5 🔲 .5 🔲	
[Btu/hr sf F]     [ft]     [ft]     plier     [sf]       In Zone:     In Wall:     No. 43085     No. 43085							W	indo	WS							
In Zone: In Wall: No. 43085			No	Description	п Туре	Shadeo			SHGC Vis	.Tra	[ft]	[ft]	plier			
PROSTATE OF											000005	PIN SHIP	ETER	-		
2/18/2016 EnergyGauge Summit® v5.10 MAR 0 5 2016 2	9/10/	2017				_		~				* PROS STAT	E OF			

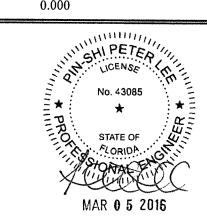
						Doo	rs							
		No	Description	Туре	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F		Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu	ı]
In Zone:	: Pr In Wa		<b>Wall A</b> Pr0Zo1Wa1Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	6.67	1	20.0	0.1919	43.67	0.53	5.21	
						Roo	fs							
	No	Des	cription	Туре	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg] [	Cond. Btu/hr. Sf. F]		ap Dens. F] [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone		<b>0Zo</b> 1 Pr02		4" Thick Roof Panel	6.17	8.67	1	53.5	0.00	0.0600	0.65	15.73	16.7	
						Skyligł	nts							
			No Deseniptio	р, Туре ER	T [Btu/h	J SH ar sf Fj	IGC Vis	.Trans	W [ft]	H (Effec) M [ft]	Aultiplie	r Area [Sf]	Total Area [Sf]	
In Zon In	e: Roof:	;	No. 4308	35 *										
			FLORID			Floo	ors							
	No	Des	cription MAR 0 5	<b>Type</b> 2016	Width [ft]	H (Efi [ft]	ec) Multi plier		Cone [Btu/hr.	d. Heat Ca sf. F] [Btu/sf.			Value F/Btu]	
In Zone:		<b>0Zo1</b> Pr0Z		Non-Insualted Base	6.17	8.6	7 1	53.	5 0.29	967 34.24	114.	55 3.	37	

		Syste	ems							
AZ61H12D	AZ61H12D System 1 Through the wall AirConditioner No. Of Units Single Package									
Component	Category	Capa	city E	fficiency	IPL	V				
1	Cooling System	11800	.00	12.10				]		
2	Heating System	10600	0.00	12.63						
3	Air Handling System -Supply	370.	00	0.80						
		Plan	t							
Equipn	nent Categ	gory Size		Inst.No	Eff.		IPLV			
		Water Hea	ters							
W-Heat	ter Description Capaci	ityCap.Unit I/P F	Rt.	Efficiency		Loss				
		Ext-Ligi	nting		4			<del>90</del>		
Descr	iption Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of [sf/ft/No]	units	Control Type	Wattage [W]			
	HPETER									
	No. 43085	Piping								
No Ty	The State of	Operating Temperature [F]	Insulation Conductivity [ Btu-in/h.sf.I		eter	Insulation Thickness [in]	Is Runout?			
2/18/2016	MAR 0 5 2016	EnergyGauge Sumn	nit® v5.10					4		

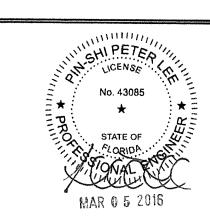
Fenestration Used												
Name	Gla	ss Type	No. of Panes	Glass Conductar [Btu/h.sf.]		C VLT	No. 4	3085 * *				
								RIDA. GIN				
Materials Used MAR 0 5 2016												
Mat No	Acronym	Descriptio	n	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHea [Btu/lb.F]	t		
264	Matl264	ALUMINU	JM, 1716 IN	No	0.0002	0.0050	26.0000	480.00	0.1000			
214	Matl214	POLYSTY 1-1/4IN,	RENE, EXP.,	No	5.2100	0.1042	0.0200	1.80	0.2900			
265	Matl265	Soil, 1 ft		No	2.0000	1.0000	0.5000	100.00	0.2000			
48	Matl48	-	weight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000			
77	Matl77	AIR LAYE HORIZ. R	ER, 3/4IN TO 4IN, OOFS	Yes	0.8700							
1003	ApLbMat1003	POLYSTR	ENE, EXP., 4IN,	No	16.6650	0.3333	0.0200	1.80	0.2900			
				Cons	tructs Us	ed						
No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]			
1002	Aluminum door,	, 1.25 in. pol	ystyrene	No	No	0.19	0.53	43.67	5.2			
	Layer	Material No.	Material		Thick [fi		raming Factor					
	1	264	ALUMINUM, 1/1	l6 IN	0.003	50	0.000					

.

No	Name			Simple Construct	Massless Construc		Conductanc [Btu/h.sf.F]		eat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1002	Aluminum door	, 1.25 in. pol	ystyrene	No	No		0.19		0.53	43.67	5.2	
	Layer	Material No.	Material			Thickne: [ft]	SS	Framing Factor				
	2	214	POLYSTYRENE, H	EXP., 1-1/4IN,		0.1042		0.000				
	3	264	ALUMINUM, 1/16	IN		0.0050		0.000				
No	Name			Simple Construct	Massless Construc		Conductanc Btu/h.sf.F}		eat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1060	Mardan Wall Pa	nel		No	Yes		0.05				18.5	
	Layer	Material No.	Material	*****		Thicknes [ft]	SS	Framing Factor				
	1	264	ALUMINUM, 1/16	IN		0.0050		0.000				
	2	72	AIR LAYER, 3/4IN WALLS	I OR LESS, VI	ERT.			0.000				
	3	1001	Thermax TSX-8500	) Insualtion		0.2083		0.000				
	4	72	AIR LAYER, 3/4IN WALLS	OR LESS, VI	ERT.			0.000				
	5	264	ALUMINUM, 1/16	IN		0.0050		0.000				



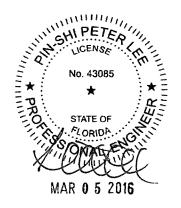
No	Name		Simple Construct	Massless Construct	Conducta Btu/h.sf		eat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1061	Non-Insualted E	Base	No	No	0.30		34.24	114.55	3.4	
	Layer	Material No.	Material		Thickness [ft]	Framing Factor				
	1	265	Soil, 1 ft		1.0000	0.000				
	2	48	6 in. Heavyweight concrete		0.5000	0.000				
	3	77	AIR LAYER, 3/4IN TO 4IN, He ROOFS	ORIZ.		0.000				
	4	264	ALUMINUM, 1/16 IN		0.0050	0.000				
No	Name		Simple Construct	Massless Construct	Conducta [Btu/h.sf		eat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1064	4" Thick Roof P	anel	No	No	0.06		0.65	15.73	16.7	
	Layer	Material No.	Material		Thickness [ft]	Framing Factor	99999999999999999999999999999999999999			*****
	1	264	ALUMINUM, 1/16 IN		0.0050	0.000				
	2	1003	POLYSTRENE, EXP., 4IN,		0.3333	0.000				
	3	264	ALUMINUM, 1/16 IN		0.0050	0.000				



# Florida Building Code, Fifth Edition (2014) - Energy Conservation

EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 IECC 2012 - Total Building Performance Compliance Option

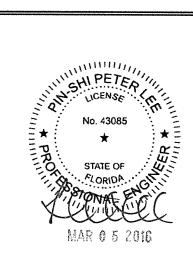
	Check List									
Applications for compliance with the Florida Building Code, Energy Conservation shall include:										
	This Checklist									
	An Input report generated from the software just after completing compliance calculations without any further changes									
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports									
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report									



	PR	OJECT SUMMARY	
Short Desc: Owner:	MFI-6288-RR	Description:	Aviation Department
Address1:	4331 NW 22nd Street	City:	Miami
Address2:		State:	FL
		Zip:	33122
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI-DADE COUNT	Y, MIAMI-DADE COUNTY, FL (231000	)
<b>Conditioned Area:</b>	53 SF	Conditioned & UnConditioned Area:	53 SF
No of Stories:	1	Area entered from Plans	53 SF
Permit No:	0	Max Tonnage	1
		If different, write in:	

Compliance Summary									
Component	Design	Criteria	Result						
Gross Energy Cost (in \$)	42.0	46.0	PASSED						
LIGHTING CONTROLS EXTERNAL LIGHTING HVAC SYSTEM PLANT WATER HEATING SYSTEMS PIPING SYSTEMS Met all required compliance from Check List?	No. 43085 No. 43085 * * O STATE OF FLORIDA MAR 0 5 2		PASSES No Entry PASSES No Entry No Entry No Entry Yes/No/NA						
IMPORTANT MESSAGE Info 5009 An input report of this desig Compliance Report	gn building must l	be submitted	along with this						

CERTIFICATIONS									
I hereby certify that the plans and specifica Florida Energy Code	ations covered by this calculation are in compliance with the								
Prepared By:	Building Official:								
Date:	Date:								
I certify that this building is in compliance v	with the FLorida Energy Efficiency Code								
Owner Agent:	Date:								
If Required by Florida law, I hereby certify Energy Efficiency Code	(*) that the system design is in compliance with the Florida								
Architect:	Reg No:								
Electrical Designer:	Reg No:								
Lighting Designer:	Reg No:								
Mechanical Designer:	Reg No:								
Plumbing Designer:	Reg No:								
(*) Signature is required where Florida Law professionals. Typed names and registration contained on signed/sealed plans.	w requires design to be performed by registered design on numbers may be used where all relevant information is								



	Building B	End Uses	
	No. 43085	1) Proposed	2) Baseline
Total	FLORIDA	2.70	3.50
	Xiabitite	<b>\$42</b>	\$54
ELECTRICITY(MBtu/	Wh/\$) MAR 0 5 2016	2.70	3.50
		795	1014
		\$42	\$54
AREA LIG	HTS	0.30	0.60
		86	164
		\$5	\$9
MISC EQU	IPMT	0.80	0.80
		235	235
		\$13	<i>\$13</i>
SPACE CO	OOL	0.90	1.10
		267	321
		\$14	\$17
SPACE HE	AT	0.00	0.00
		5	6
		\$0	\$0
VENT FAN	S	0.70	1.00
		202	288
		\$11	\$15
edits Applied: None			PASSES
ssing Criteria = 46			L
sign (including any cre			
	Building cost to be at n	nost 85% of	
seline cost. This Propos	ed Building is at 78.1%		

	Externa	l Lightin	g Com	pliance			
Description	Category	Tradat			a or Lengt lo. of Unit qft or ft)		CLP (W)
					[	No	one
Project: MFI-6288 Fitle: Aviation Dep Type: Office WEA File: Miami	partment						
	Lighting C	ontrols (	Complia	ance			
Acronym	Ashrae Description ID		Area (sq.ft)		Design CP	~~~	ompli- ince
Pr0Zo1Sp1	16 Office - Open Plan		5	3	1	1 PAS	SES
					PASS	SES	
Гitle: Aviation De Гуре: Office	partment						
Project: MFI-6288 Title: Aviation Dep Type: Office (WEA File: Miam AZ61H12D Sy	partment i.tmy)	m Repo	Thro AirC	ugh the wa	all	N	io. of Units 1
Fitle: Aviation De Type: Office WEA File: Miam	partment i.tmy) <b>Syste</b>	m Repo Capacity	Thro AirC Pack	ugh the wa	all	N IPLV Criteria	1 Comp-
Fitle: Aviation De Type: Office WEA File: Miam AZ61H12D Sy	partment i.tmy) Syste stem 1 Category Air Conditioners Thru the Wall A/C < 30,000 Btu/h	-	Thro AirC <u>Pack</u> Design	ugh the wa onditioner age Eff	all Single Design	IPLV	1 Comp- liance
Title: Aviation De Type: Office (WEA File: Miam AZ61H12D Sy Component	partment i.tmy) Syste stem 1 Category Air Conditioners Thru the Wall A/C < 30,000 Btu/h Single Package Heat Pumps Thru the Wall HP (Heating Mode) <	Capacity	Thro AirC <u>Pack</u> Design Eff	ugh the wa onditioner age Eff Criteria	all Single Design	IPLV	-
Fitle: Aviation Deposition Deposition         Type: Office         WEA File: Miam         AZ61H12D       Sy         Component         Cooling System	partment i.tmy) Syste stem 1 Category Air Conditioners Thru the Wall A/C < 30,000 Btu/h Single Package Heat Pumps Thru the Wall	Capacity 11800 10600	Thro AirC Pack Design Eff 12.10	ugh the wa onditioner age Eff Criteria 12.00	all Single Design	IPLV	1 Comp- liance PASSES
Fitle: Aviation Deprivation Deprivatinde Deprivation Deprivation Deprivation Depriv	partment i.tmy) Syste stem 1 Category Air Conditioners Thru the Wall A/C < 30,000 Btu/h Single Package Heat Pumps Thru the Wall HP (Heating Mode) < 30,000 Btu/h Single Pkg Air Handler (Supply)	Capacity 11800 10600 ETEN 3085	Thro AirC Pack Design Eff 12.10 12.63	ugh the wa onditioner age Eff Criteria 12.00 7.40	all Single Design	IPLV Criteria	1 Comp- liance PASSES PASSES PASSES
Fitle: Aviation Deprivation Deprivatindon Deprivation Deprivation Deprivation Depri	partment i.tmy) Syste stem 1 Category Air Conditioners Thru the Wall A/C < 30,000 Btu/h Single Package Heat Pumps Thru the Wall HP (Heating Mode) < 30,000 Btu/h Single Pkg Air Handler (Supply)	Capacity 11800 10600 ETEN 3085	Thro AirC Pack Design Eff 12.10 12.63	ugh the wa onditioner age Eff Criteria 12.00 7.40	all Single Design	IPLV	I Comp- liance PASSES PASSES

Plant Compliance									
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

	Water Heater Compliance											
Description Type Category Design Min Design Ma Eff Eff Loss Los												
							None					
			C	12								
Piping System Compliance												
Category		[inches] Runout? Te	rating Ins C mp [Btu-i F] .SF.	n/hr 1	Ins `hick [in]		Ins Complianc k [in]					
		· · · · · · · · · · · · · · · · · · ·										
						None						
		HIN THE PROPERTY	SHIPETE JCENSE No. 43085 * STATE OF	VEER * 33								

# Mandatory Requirements (as applicable)

Mandatory requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted with permission

	Adopted with permission									
	Topic	Section	Componen	to the state of th	Yes	N/A	Ex			
		To b	e checked	during Construction						
	Air Leakage Air Leakage	C402.4.1,C402.4.2		The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.						
	-	C402.4.3,C402.4.4	Envelope	Factory-built fenestration and doors are labeled as meeting air leakage requirements.						
	Air Leakage	C402.4.7	Envelope	Vestibules are installed on all building entrances. Doors have self-closing devices.						
	Air Leakage	C402.4.1.1	Envelope	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.						
	Air Leakage	C402.4.6	Envelope	Weatherseals installed on all loading dock cargo doors.						
	Air Leakage	C402.4.8	Envelope	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.						
	Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC.						
	Fenestration	C303.1.3	Envelope	Fenestration products are certified as to performance labels or certificates provided.						
	Fenestration	C402.2.7		U-factor of opaque doors associated with the building thermal envelope meets requirements.						
	Insulation	C303.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.						
	Insulation	C303.2		Slab edge insulation installed per manufacturer's instructions.						
	Insulation	C402.2.6		Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.						
	Insulation	C403.2.7,C408.2.8,C	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and						
	Shinese Com	C402.4.2.1	Envelope	equipment maintenance activities. Roof R-value. For some ceiling systems, verification may need to occur during Framing Inspection.						
11111111111111111111111111111111111111	Insulation No. 43085	C303.2	Envelope	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation						
PRO	Insulation	C402.2.1	Envelope	is installed only where the roof slope is <=3 in 12. Skylight curbs are insulated to the level of roofs with insulation above deck or R-5.						
X	AR 0 5 2016	C402.2.1.1		High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance $\geq 0.55$ and thermal emittance $\geq 0.75$ , 3-year-aged solar reflectance index $\geq 64.0$ , initial year solar reflectance $\geq 0.70$ and thermal emittance $\geq 0.75$ , or initial year solar						
	Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.						
	Insulation	C303.2		Floor insulation installed per manufacturer's instructions.						
	Insulation	C303.1		Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.						

Insulation	C303.2.1	Envelope	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during		
Insulation	C402.2.1	Envelope	Foundation Inspection. Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement		
Controls	C405.2.4	Exterior Lighting	compliant if insulation is installed accordingly. Automatic lighting controls for exterior lighting installed.		
Wattage	C405.6	Exterior Lighting	Exterior grounds lighting over 100 W provides >60 Im/W unless on motion sensor or fixture is exempt		
Wattage	C405.6.2	Exterior Lighting	from scope of code or from external LPD. Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or		
Controls	C405.2.2.1	Interior Lighting	equal to allowed watts. Automatic controls to shut off all building lighting installed in all buildings.		
Controls	C405.2.1.1	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls		
Controls	C405.2.1.2	Interior Lighting	readily accessible and visible to occupants. Lighting controls installed to uniformly reduce the lighting load by at least 50%.		
Controls	C405.2.2.3	Interior Lighting	Daylight zones provided with individual controls that control the lights independent of general area lighting.		
Controls	C405.2.3	Interior Lighting	Sleeping units have at least one master switch at the main entry door that controls wired luminaires		
Controls	C405.2.2.2	Interior Lighting	and switched receptacles. Occupancy sensors installed in required spaces.		
Controis	C405.2.2.3	Interior Lighting	Primary sidelighted areas are equipped with required lighting controls.		
	C405.2.2.3	Interior Lighting	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.		
L'COMORE LICEN	C405.2.3	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.		
Controls No. 430	*==	Interior Lighting	Fluorescent luminaires within odd numbered lamp configurations that are with 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.		
VVettageRil	C405.4	Interior Lighting	Exit signs do not exceed 5 watts per face.		
MAR 0 5	C405.2.3	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from		
Wattage	C405.5.2	Interior Lighting	general lighting. Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.		
HVAC	C403.2.4.5	Mechanical	Freeze protection and snow/ice melting system sensors for future connection to controls.		
HVAC	C403.2.3	Mechanical	HVAC equipment efficiency verified.		
Air Leakag	e C402.4.5.1	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close.		
Air Leakag	e C402.4.5.2	Envelope	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.		
HVAC	C403.2.5.1	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.		

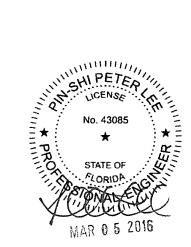
	HVAC	C403.2.8.1	Mechanical	Piping Insulation exposed to weather is protected from damage (due to sun, moisture, wind, etc.).		
	HVAC	C403.2.7	Mechanical	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation		
		C403.2.8	Mechanical	Inspection. Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.		
1	HUAD PETER	C <b>403.2.7</b>	Mechanical	Ducts and plenums sealed based on static pressure and location.		
1/1/1 * PR	HVAC No. 43085		Mechanical	Air outlets and zone terminal devices have means for air balancing.		
E PP	HVAC *	C403.2.6	Mechanical	Exhaust air energy recovery on systems meeting Table C403.2.6		
1	HVASTATE OF	C403.2.11	Mechanical	Unenclosed spaces that are heated use only radiant heat.		
X	<b>LUDEE</b> O	C <b>403.2.4.1</b>	Mechanical	Heating and cooling to each zone is controlled by a thermostat control.		
	HKAAR 0 5 2016	C403.2.4.2	Mechanical	Thermostatic controls have a 5 °F deadband.		
	HVAC	C403.2.4.2	Mechanical	Temperature controls have setpoint overlap restrictions.		
	HVAC	C403.2.4.3	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.		
	HVAC	C403.2.4.3	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant		
	SYSTEM_SPECIFIC	C404.3	Mechanical	override, 10-hour backup Temperature controls installed on service water heating systems (110 °F for dwelling units and lavatories in public restrooms and 90 °F for other		
	SYSTEM_SPECIFIC	C404.4	Mechanical	occupancies.) Automatic time switches installed to automatically switch off the recirculating hot-water system or		
	SYSTEM_SPECIFIC	C404.2	Mechanical	heat trace. Heat traps installed on non-circulating storage water tanks.		
	SYSTEM_SPECIFIC	C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to		
	SYSTEM_SPECIFIC	C403.4.2	Mechanical	Table C403.2.3(3). VAV fan $\geq$ 7.5 hp are driven by mechanical or electrical variable speed drive, or driven by vane-axial with variable speed blades, or operate with motor demand <=30% design kW at 50%		
	SYSTEM_SPECIFIC	C403.2.8	Mechanical	design flow - calculations required HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need		
	SYSTEM_SPECIFIC	C403.2.7.1.3	Mechanical	to occur during Foundation Inspection. Ductwork operating >3 in. water column requires air leakage testing.		
	SYSTEM_SPECIFIC	C403.3.1,C403.3.1.1	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.		
	SYSTEM_SPECIFIC	C403.3.1,C403.4.1	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control.		
	SYSTEM_SPECIFIC	C403.4.1.4	Mechanical	Economizer control. Economizer operation will not increase heating energy use during normal operation.		
	SYSTEM_SPECIFIC	C403.4.5	Mechanical	Zone controls can limit simultaneous heating and cooling and sequence heating and cooling to each		
	SYSTEM_SPECIFIC	C403.4.3.1	Mechanical	zone. Three-pipe hydronic systems using a common return for hot and chilled water are not used.		

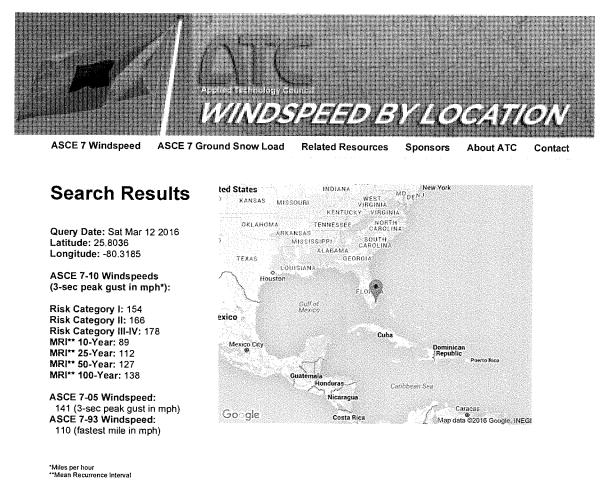
1					 
	SYSTEM_SPECIFIC	C403.4.3.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15 °F, allow operation in one mode for at least 4 hrs before changeover, and have root controls to limit bosition and cooling outputs	
	SYSTEM_SPECIFIC	C403.4.3.3.1	Mechanical	rest controls to limit heating and cooling supply temperature to <=30 °F. Hydronic heat pump systems connected to a common water loop meet heat rejection and heat	
	SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	addition requirements. HVAC hydronic heating and cooling coils have means to balance and have pressure test	
	SYSTEM_SPECIFIC	C403.2.10.1	Mechanical	connections. HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp	
	SYSTEM_SPECIFIC	C403.2.10.2	Mechanical	or fan system bhp. HVAC fan motors not larger than allowable limits.	
	SYSTEM_SPECIFIC	C403.4.2	Mechanical	VAV fan motors >=7.5 hp to be driven by variable speed drive, have a vane-axial fan with variable pitch blades, or have controls to limit fan motor	
	SYSTEM_SPECIFIC	C403.4.2.1	Mechanical	demand. VAV fans have static pressure sensors positioned so setpoint <=1/3 total design pressure.	
	SYSTEM_SPECIFIC	C403.4.2.2	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zene requiring the most pressure	
	SYSTEM_SPECIFIC	C403.4.5.4	Mechanical	the zones requiring the most pressure. Multiple zone HVAC systems have supply air temperature reset controls.	
	SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Hydronic systems greater than 300,000 Btu/h designed for variable fluid flow.	
	SYSTEM_SPECIFIC	C403.4.3.5	Mechanical	Reduce flow in pumping systems >10 hp to multiple chillers or boilers when others are shut down.	
	SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Temperature reset by representative building loads in pumping systems for chiller and boiler systems >300,000 Btu/h.	
	SYOTEN SPECIFIC	C4 <b>03.4.3.3.3</b>	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with	
"THILLIN	VICENSE VISTEM_SPECIFIC No. 43085	6403.4.4	Mechanical	pumping system >10 hp is off. Fan systems with motors >=7.5 hp associated with heat rejection equipment to have capability to operate at 2/3 of full-speed and auto speed controls to control the leaving fluid temperature or	
1111	STATE OF			condensing temp/pressure of heat rejection device.	
X	MAR 0 5 2016	℃C4 <b>03.4.6</b> -	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water in 24/7 facility, water cooled systems reject	
	NAK U 0 2010 SYSTEM_SPECIFIC	C403.4.7	Mechanical	>6 MMBtu, SHW load >=1 MMBtu. Hot gas bypass limited to: <=240 kBtu/h – 50%	
	SYSTEM_SPECIFIC	C404.2	Mechanical	>240 kBtu/h – 25% Service water heating equipment meets efficiency requirements.	
	SYSTEM_SPECIFIC	C403.2.4.2	Mechanical	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed	
	SYSTEM_SPECIFIC	C403.2.4.3.3	Mechanical	humidification/dehumidification system. Systems include optimum start controls.	
	SYSTEM_SPECIFIC	C403.2.4.1.1	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	
	SYSTEM_SPECIFIC	C404.3	Mechanical	Public lavatory faucet water temperature <=110°F.	
	SYSTEM_SPECIFIC	C404.5	Mechanical	All piping in circulating system insulated	
	SYSTEM_SPECIFIC	C404.5	Mechanical	First 8 ft of outlet piping is insulated	

.

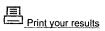
ſ	SYSTEM_SPECIFIC	C404.5	Mechanical	All heat traced or externally heated piping insulated			
	SYSTEM_SPECIFIC	C404.6	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain terms to be a storage tool.			
	SYSTEM_SPECIFIC	C404.7.1	Mechanical	temperature of a storage tank. Pool heaters are equipped with on/off switch and no continuously burning pilot light.			
	SYSTEM_SPECIFIC	C404.7.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas.			
	SYSTEM_SPECIFIC	C404.7.2	Mechanical	Time switches are installed on all pool heaters and pumps.			
	SYSTEM_SPECIFIC	C403.2.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets			
	Testing	C408.2.3.2	Mechanical	minimum efficiency requirement: >=38.2 gpm/hp. HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.			
	Mandatory Additional	C406	Project	Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy			
	Insulation	C402.2.8	Project	consistent with what is shown the approved plans. Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.			
		To ł	oe checked	during Plan Review			
	Plan Review	C103.2	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where			
	Plan Review	C103.2	Exterior Lighting	exceptions to the standard are claimed. Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where			
	Plan Review	C103.2	Interior Lighting	exceptions to the standard are claimed. Information provided shoul Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where			
"" * PRO	No. 43085 Plan Review	C103.2	Mechanical	exceptions to the standard are claimed. Information provided shoul Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the			
X	MAR 0 5 2016	C103.2	Mechanical	standard are claimed. Load calculations per acceptable engineering st Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system			
	Plan Review	C406	Project	sized per manufact Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency			
	Plan Review	C402.3.2.2	Envelope	package options. Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight.			
1734/2414	To be checke	ed Post Const	ruction Pri	or to Issuance of Certificate of Oc	cur	anc	y
275 275	Post Construction	C408.3	no no di della contra della secola della construcción del construcción del construcción del construcción de la	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and			
	Post Construction	C408.2.5.1	Interior Lighting	operation. Furnished as-built drawings for electric power systems within 30 days of system acceptance.			

Post Construction	C303.3,C408.2.5.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated	
Post Construction	C408.3	Interior Lighting	representative. Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	
Post Construction	C408.2.5.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	
Post Construction	C303.3,C408.2.5.2	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	
Post Construction	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.	
Post Construction	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.	
Post Construction	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.	
Post Construction	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	
Post Construction	C408.2.3.1	Mechanical	HVAC equipment has been tested to ensure proper operation.	
Post Construction	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.	





Users should consult with local building officials to determine if there are community-specific wind speed requirements that govern.



#### WINDSPEED WEBSITE DISCLAIMER

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the windspeed report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed load report.

Sponsored by the ATC Endowment Fund • Applied Technology Council • 201 Redwood Shores Parkway, Suite 240 • Redwood City, California 94065 • (650) 595-1542

Business &	Professional Regulation						
Business (A) Professional	BCIS Home Log In User Registration Hot Topics Submit	Surcharge Stats & Facts Publications FBC Staff BCIS Site Map Links Search					
legulation	Product Approval Menu > Product or Application Search > Application List > Application Detail						
OFFICE OF THE	FL #	FL7561-R3					
	Application Type	Revision					
	Code Version	2014					
	Application Status	Approved					
	Commente						
	Comments						
	Archived						
	Product Manufacturer	Elite Aluminum Corporation					
	Address/Phone/Email	4650 Lyons Technology Parkway					
		Coconut Creek, FL 33073 (954) 949-3200 dk@dokimengineering.net					
	Authorized Signature	Do Kim dk@dokimengineering.net					
	Technical Representative	Dan Cooke					
	Address/Phone/Email	1801 NW 64th Street Ft. Lauderdale, FL 33309 (954) 491-3700 elitealum@aol.com					
	Quality Assurance Representative Address/Phone/Email						
	Category	Roofing					
	Subcategory	Products Introduced as a Result of New Technology					
	Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer 🗹 Evaluation Report - Hardcopy Received					
	Florida Engineer or Architect Name who developed the Evaluation Report	Do Kim, P.E.					
	Florida License	PE-49497					
	Quality Assurance Entity	Quality Auditing-Institute Ltd.					
	Quality Assurance Contract Expiration Date	11/30/2020					
	Validated By	James L. Buckner, P.E. at CBUCK Engineering Z Validation Checklist - Hardcopy Received					
	Certificate of Independence	FL7561 R3 COI Cert of Independence.pdf					
	Referenced Standard and Year (of Standard)						
	Equivalence of Product Standards Certified By						

Product Approval Method	Method 2 Option B
Date Submitted	04/30/2015
Date Validated	05/01/2015
Date Pending FBC Approval	05/10/2015
Date Approved	06/23/2015

#### Summary of Products

FL #	Model, Number or Name	Description		
7561.1 Aluminum/Aluminum Composite Panels		3"/4"/6"x0.024"x1lb EPS Composite Panel, 3"/4"/6"x0.032x1lb EPS Composite Panel, 3"/4"/6"x0.024"x2lb EPS Composite Panel, 3"/4"/6"x0.030"x2lb EPS Composite Panel,		
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +80/-80 Other: In HVHZ, not to be used in structures considered living areas per FBC Section 1616 unless impact protection is provided. See installation drawing for nominal allowable design pressures and spans.		Installation Instructions FL7561 R3 II Elite FL7561-R3 2014 FBC Installation Dwg.pdf Verified By: Do Kim, P.E. PE 49497 Created by Independent Third Party: Yes Evaluation Reports FL7561 R3 AE Elite Alum FL7561-R3 2014 FBC Evaluation.pdf Created by Independent Third Party: Yes		



Contact Us :: 1940 North Monroe Street, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: Privacy Statement :: Accessibility Statement :: Refund Statement

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. \*Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click <u>here</u>.





http://www.floridabuilding.org/pr/pr app dtl.aspx?param=wGEVXOwtDasaJkzX72BeuC... 3/12/2016



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

# **NOTICE OF ACCEPTANCE (NOA)**

Tremco, Inc. 3735 Green Road Beachwood, OH 44212

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### **DESCRIPTION:** Solargard® Elastomeric 6083 Maintenance Coating System

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and 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 renews and revises NOA# 08-0827.24 and consists of pages 1 through 9. The submitted documentation was reviewed by Alex Tigera.



MEAN

NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 1 of 9

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

# **ROOFING COMPONENT APPROVAL**

<u>Category:</u> <u>Sub-Category:</u> <u>Materials:</u> Roofing Cement-Adhesive-Coatings Elastomeric

# SCOPE:

This approves "Solargard<sup>®</sup> Elastomeric 6083 Maintenance Coating System" as a maintenance roof coating as manufactured by Tremco, Inc., as described in this Notice of Acceptance, designed to comply with the Florida Building Code.

# **PRODUCT DESCRIPTION**

<u>Manufactured by</u> <u>Applicant</u>	<b>Dimensions</b>	Test <u>Specifications</u>	Product <u>Description</u>
Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating	1, 5 or 53 gal.	TAS 114	Liquid-applied, elastomeric roofing material.
(Manuf. Loc. #1)			
Solargard Rust Primer WB	1 or 5 gal.	Proprietary	Quick drying, asbestos free, water-based primer for
(Manuf. Loc. #1)			smooth or granular surface asphalt and modified bitumen roofs.
Solargard Seam Sealer	2 or 5 gal.	Proprietary	White, single component, high solids moisture
(Manuf. Loc. #2)			curing, polyurethane sealer used for waterproofing a variety of roofing substrates.
Solargard Acrylic Sealer	1 or 5 gal.	Proprietary	High solids, acrylic elastomeric sealer used on a
(Manuf. Loc. #1)			variety of roofing and wall substrates.
Tremprime WB	1 or 5 gal.	Proprietary	Water-based primer used for smooth or granular
(Manuf. Loc. #1)			surface asphalt and modifiec bitumen roofs.
Solargard Masonry Primer	l or 5 gal.	Proprietary	Acrylic Primer bonds to brick, stone, concrete,
(Manuf. Loc. #1)			plaster, stucco and other cementitious surfaces.
SP Primer	l or 5 gal.	Proprietary	Water-based, acrylic primer used on various base
(Manuf. Loc. #1)			surfaces.

# MANUFACTURING LOCATION

- 1. Medina, OH
- 2. Cleveland, OH



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 2 of 9

### **EVIDENCE SUBMITTED**

Test Agency	<b>Test Identifier</b>	Test Name/Report	<u>Date</u>
Momentum Technologies, Inc.	EX08G4A	ASTM D6083	09/08/04
Trinity ERD	R10940.08.08	Adhesion Performance PA 114, Appendix H	08/07/08

# **BUILDING PERMIT REQUIREMENTS:**

Application for building permit shall be accompanied by copies of the following:

- 1. This Notice of Acceptance.
- 2. Any other documents required by the Building Official or the Applicable Building Code in order to properly evaluate the installation of this system.

# **PHYSICAL PROPERTIES OF COMPONENTS**

Trade name:	Solargard® Elastomeric 6083 Maintenance Coating			
Thickness:	See Systems Approvals below.			
Specifications:	ASTM D 6083			
Description:	Coating system used for waterproofing and weatherproofing roofs.			
Container Size:	1, 5, or 53 gallons. Note all cautions on container label.			
Systems Approvals:	Methods of application and quantities shall comply with specific Roof Assembly, Product Control Notice of Acceptance.			



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 3 of 9

# **APPROVED MAINTENANCE COATING APPLICATION:**

Substrate:	Coated Metal					
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. Check for adhesion and compatibility of any remaining, tightly adhered, existing coating with Solargard. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.					
Primer:	Solargard Rust Primer WB at approximately 200 ft <sup>2</sup> /gal					
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.					
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats at 1 gal./100 ft <sup>2</sup> (16 wet mils) per coat. Wait 12-24 hours between coats. Apply the system in a Buff Base Coat and White (or selected color) Finish Coat. The coverage rates shown are intended as minimum application requirements. The surface dictates actual coverage needed. On metal roofs with irregular panel and rib design, multiply feet by 1.15 to calculate actual surface area to be coated.					
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 gal./100 $\mathrm{ft}^2$					
Substrate:	Galvanized Metal					
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.					
Primer:	Solargard Rust Primer WB at approximately 200 ft <sup>2</sup> /gal					
Surface Treatment:	New galvanized panels must be weathered a minimum of six months or treated with a phosphoric acid wash to remove factory oil film. The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.					
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats at 1 gal./100 sq. ft. (16 wet mils) per coat. Wait 12-24 hours between coats. Apply the system in a Buff Base Coat and White (or selected color) Finish Coat. The coverage rates shown are intended as minimum application requirements. The surface dictates actual coverage needed. On metal roofs with irregular panel and rib design, multiply feet by 1.15 to calculate actual surface area to be coated.					
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 gal./100 $\mathrm{ft}^2$					



~

Substrate:	Concrete
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	SP Primer or Solargard Masonry Primer at the rate of 200ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats at 1-1/2 gal./100 sq. ft. (16 wet mils) per coat. Wait 12-24 hours between coats. Apply the system in a Buff Base Coat and White (or selected color) Finish Coat. The coverage rates shown are intended as minimum application requirements. The surface dictates actual coverage needed.
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at $1-1/2$ gal./100 ft <sup>2</sup>
Substrate:	Smooth BUR
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	Tremprime WB Primer at the rate of $200 - 400$ ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats over a prepared, and primed, roof at the rate of $1\frac{1}{2}$ gal./100 ft <sup>2</sup> (24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 3 gal. /100 ft <sup>2</sup> .
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 to 1- $1/2$ gal./100 ft <sup>2</sup>



Substrate:	Smooth Modified Bitumen
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	Tremprime WB Primer at the rate of $200 - 400$ ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats over a prepared, and primed, roof at the rate of 1 $\frac{1}{2}$ gal./100 ft <sup>2</sup> (24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 3 gal. /100 ft <sup>2</sup> .
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 to 1- $1/2$ gal./100 ft <sup>2</sup>
Substrate:	PVC
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	SP Primer at the rate of 200–300 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to $1\frac{1}{2}$ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the
	application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet mils).



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 6 of 9

r

Substrate:	TPO
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	SP Primer at the rate of 200–300 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to 1 ½ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet mils).
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 to 1- $1/2$ gal./100 ft <sup>2</sup>
Substrate:	EPDM
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	SP Primer at the rate of 200–300 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to 1 ½ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet mils).
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 to 1- $1/2$ gal./100 ft <sup>2</sup>



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 7 of 9

Substrate:	Granule Surfaced Modified Bitumen
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	Tremprime WB Primer at the rate of 200–400 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to 1 ½ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet mils).
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at $1-1/2$ gal./100 ft <sup>2</sup>
Substrate:	Existing acrylic (water-based) coatings
Substrate: Preparation:	Existing acrylic (water-based) coatings The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance. If required by project, <i>Solargard Rust Primer WB</i> at approximately 200 ft <sup>2</sup> /gal or <i>SP Primer</i> at
Preparation: Primer:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance. If required by project, <i>Solargard Rust Primer WB</i> at approximately 200 ft <sup>2</sup> /gal or <i>SP Primer</i> at a rate of 200-300 ft <sup>2</sup> /gal, or <i>Tremprime WB Primer</i> at a rate of 200-400 ft <sup>2</sup> /gal. The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using



## LIMITATIONS:

- 1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire rating of this product.
- 2. All products shall be applied in strict compliance with Manufacturer's published application instructions.
- 3. Tremco products shall not be applied in inclement weather conditions.
- 4. Tremco shall not be covered with stone chips, screeds, tiles or soil.
- 5. Tremco shall not be applied over existing gravel surfaces.
- 6. Approved primer is required on all unprotected iron and steel and previously painted surfaces.
- 7. The products listed herein are components of roof assemblies and are approved for use with roof assemblies that list any of the products listed herein as part of their roof assemblies Notice of Acceptance.
- 8. All products listed herein shall have an unannounced follow-up quality control program from an approved listing agency. Follow up test results shall be made available to Product Control upon request.
- 9. All approved products listed herein shall be labeled in compliance with TAS 121 and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



- **10.** Change in materials, use, or manufacture of any of the products listed herein shall be cause for termination of this Notice of Acceptance
- **11.** All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
- 12. The use of a reinforcing fabric in a maintenance coating is only to enhance the coatings ability to deliver efficient and long term performance through the protection of the underlying roof system and in this particular use does not become a roof system itself.

# **END OF THIS ACCEPTANCE**





BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC) BOARD AND CODE ADMINISTRATION DIVISION MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

### **NOTICE OF ACCEPTANCE (NOA)**

www.miamidade.gov/building

#### Reliable Products

1300 Enterprise Rd. (P.O. Box 580) Geneva, AL 36340

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County BNC - Product Control Section 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 Section (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. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 Florida Building Code, including the High Velocity Hurricane Zone.

### **DESCRIPTION:** Model AEL-42D-7060 Aluminum Louver

**APPROVAL DOCUMENT:** Drawing No. 03S358-1N to 3N, titled "Dade County Universal Louver for PTAC Application", sheets 1 through 3 of 3, prepared by Reliable Products, dated 12/23/03, with last revision dated 09/01/05, signed and sealed by Edward P. Hutson, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

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

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and 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 **renews NOA # 05-0412.01** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



100/12/11

NOA No. 11-0726.03 Expiration Date: September 22, 2016 Approval Date: September 22, 2011 Page 1

### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. 03S358-1N to 3N, titled "Dade County Universal Louver for PTAC Application", sheets 1 through 3 of 3, prepared by Reliable Products, dated 12/23/03, with last revision dated 09/01/05, signed and sealed by Edward P. Hutson, Jr., P.E.

### B. TESTS "Submitted under NOA # 05-0412.01"

- 1. Test report on Large Missile Impact Test per TAS 201, Test, Cyclic Wind Pressure Test per TAS 203, Test and Uniform Static Air Pressure Test per TAS 202 of "AEL-420-7060 Aluminum Louvers", prepared by Fenestration Testing Laboratory, Inc, laboratory No 4439, dated 01/07/05, signed and sealed by E. J. Largaespada, P.E.
- 2. Clarification letter issued by Fenestration Testing Laboratory, Inc, on 09/08/05, signed by R. Robleto.
- **3**. Test report on Tensile Test per ASTM B5577 of Aluminum Flat Reduced Section, prepared by Fenestration Testing Laboratory, Inc on 03/14/05, signed and sealed by E. J. Largaespada, P.E.

#### C. CALCULATIONS "Submitted under NOA # 05-0412.01"

1. Anchor Calculations prepared by Ruskin Engineering, pages 1 to 8, signed and sealed by Edward P. Hutson, Jr., P.E. on 07/01/05.

### D. QUALITY ASSURANCE

- 1. Miami-Dade Building and Neighborhood Compliance Department (BNC)
- E. MATERIAL CERTIFICATIONS
  - 1. None.

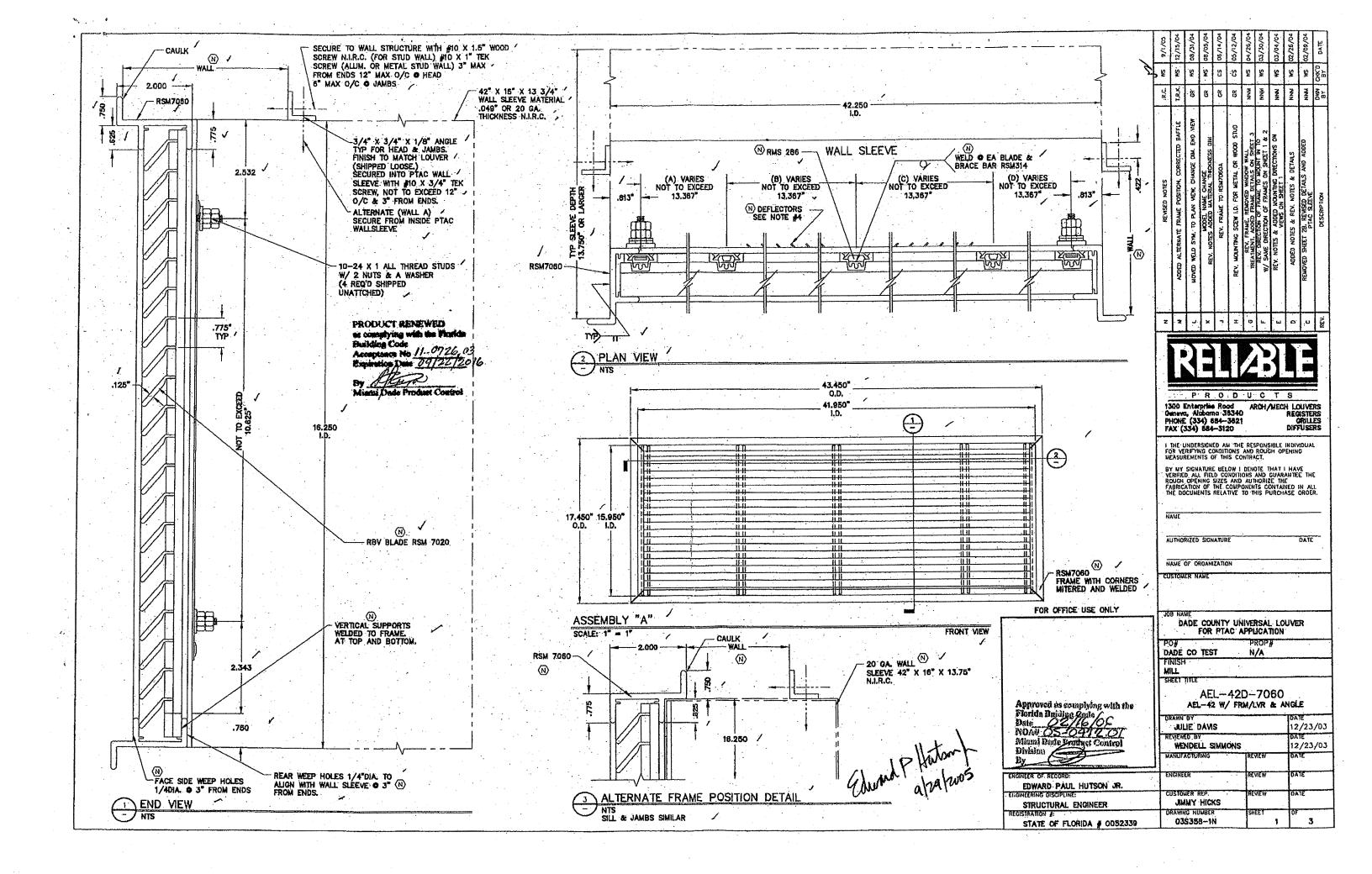
#### F. STATEMENTS

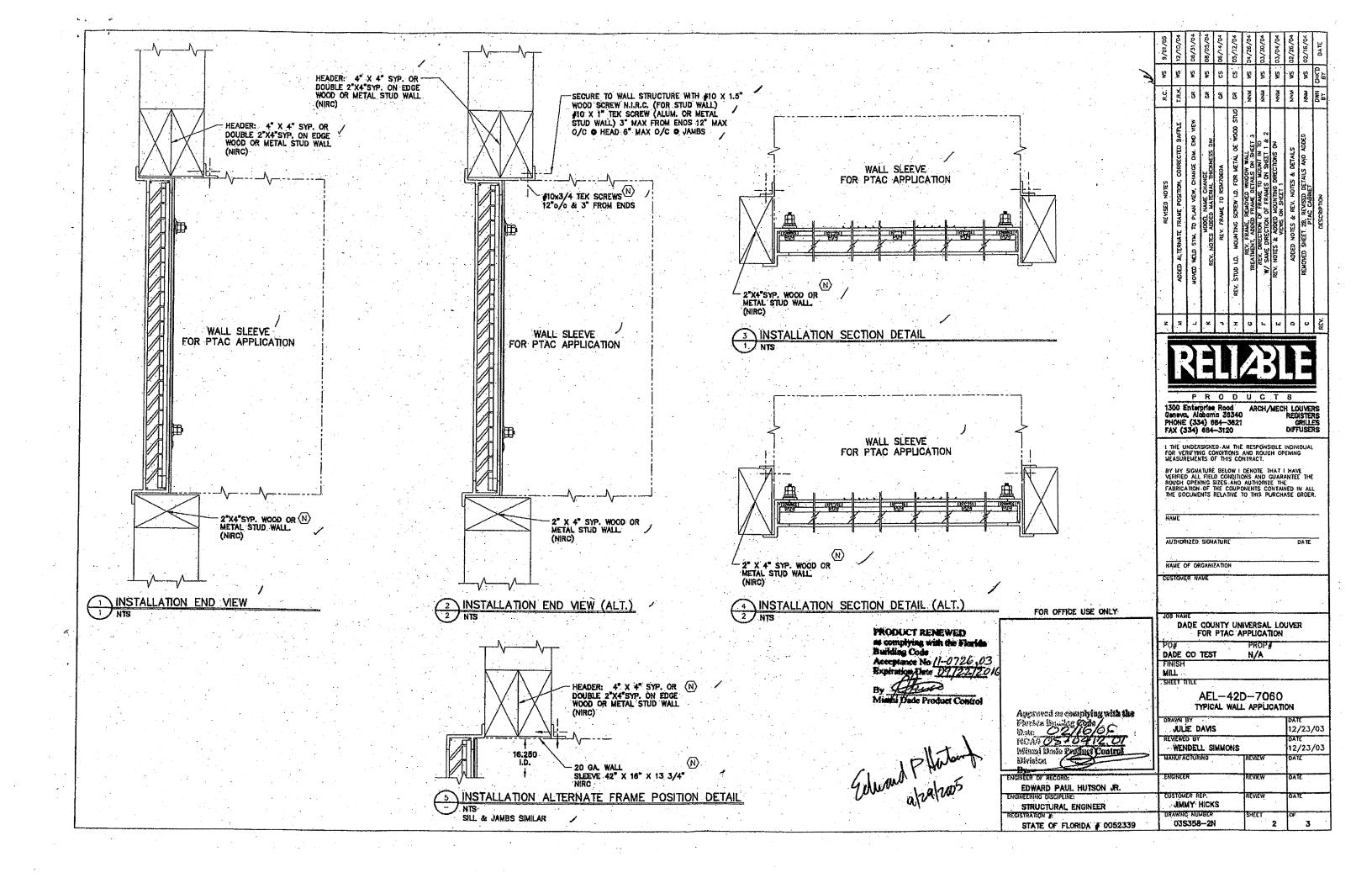
1. Statement letter of code conformance to FBC 2007, issued by Ruskin Architectural Products, dated 07/20/11, signed and sealed by Daniel J. Rau, P.E.

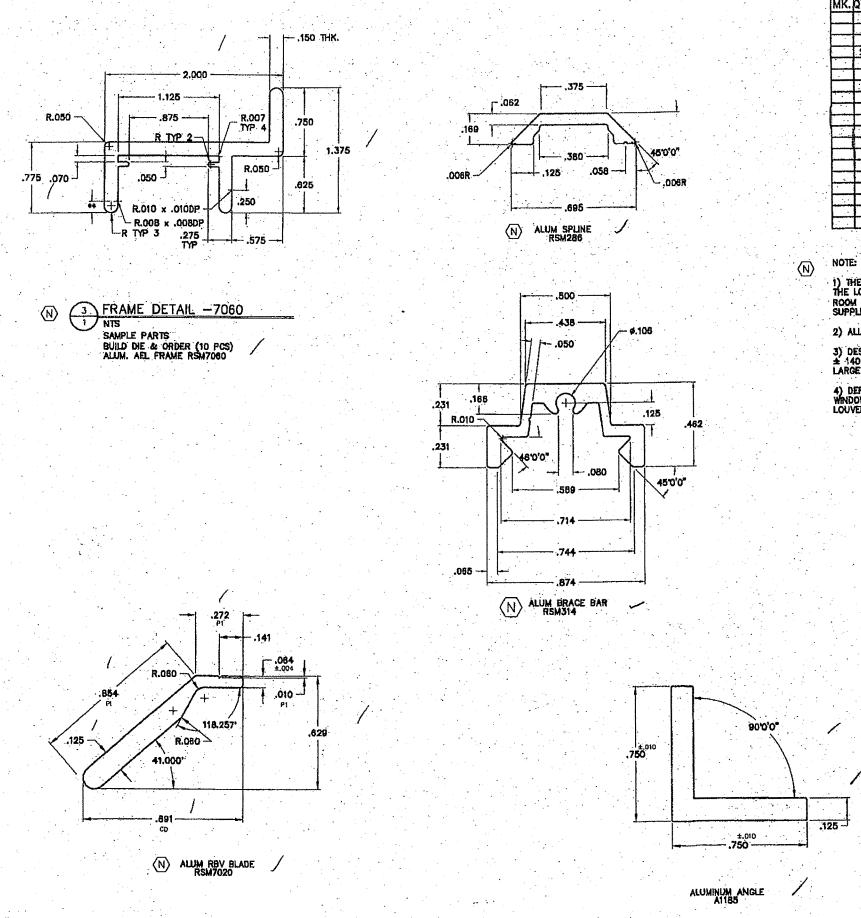
#### "Submitted under NOA # 05-0412.01"

- 2. Test compliance letter issued by Fenestration Testing Laboratory Inc, on 09/27/05, signed by E. J. Largaespada, P.E.
- 3. No interest letter issued by Norton & Schmidt on 08/01/05, signed and sealed by Edward P. Hutson, Jr., PE.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 11-0726.03 Expiration Date: September 22, 2016 Approval Date: September 22, 2011







÷ ;

,

	BILL OF M	ATERIALS	- 1		8	8	ð.	8   E	5 3	ğ	ğ	ŏ.	ð	5	
K.bTY	DESCRIPTIO		HFA #	DWG #	50/1/50	50/11/10	08/31/04	08/05/04	05/12/04	04/26/04	02/30/04	03/04/04	02/26/04	02/16/04	DATE
1 1	43.450 x 17.450 AEL-			045358				-		1-	1				6
2	RSM7060-192-AE 43.450		124832	RSM7060 RSM7080	3 €	¥	¥	8 8	3. 8	ž	<u>۶</u>	¥	Ş.	Ş.	Ч Ч Ч
2	RSM7080-192-AE 17.450   RSM7020-192-AE 41.688		124114	RSM7020	J	χ	8	3 8	3 8	NNN	NN	MNN	MNN		200
5	RSM314-192-AE PUNCHED .778 18.5	38 BRACE BAR LENGTH	.131937	RSM314		Ē	<u> </u>		<u> </u>		2	Ž	Z	Ż (	<u>а</u> ш
5	RSM288-192-AE 15.938 BR/ A-1185-192-AE 16.250 /		130785	RSM288		& ADDED BETAILS D BOM			STUD	·					
12		NGLE LENGTH	131380	A-1185			A.	ŀ	DOOM	1.			· .	a.	
2	RSM-91-192-VE 18.250 L		137382	RSM91	1.		8	M		E .	6 -8	ð		ADDED	
2	GE DEFLECTOR BA		430730	430730	9		E.	OWES	8	1-4-6-	i≊ i⊒	201	DEWILS	Q.	
4	10-24 x 1 ALL THREA 10-24 HEX NU		430170	430267	Ĭ.		쀻	ŏ	METAL	No.	NOCH NO	DIRECTIC	ŁČ DE	TAILS A	
1	10 FL CUT SS 18-8		430157	430157			CHANG	NA I	RSW7060A	DETARS O	2 2	25	· 1	M L	
4	PRESTINCER		430023	430023			VEW,	E CHAN		a a	U H	D MOUNTING	g	REVISED DET AC CABINET	X
11.	#10 X 3/4" HEX WHD ZIN	TEK SCREW	430941	430941				Z₹ I	CAME TO	REMOVED	FRAME	ž	REV.	50	Ĕ
4	AK42H RIVET		430140	430140	NOTES	· Q	<b>E</b>	ADDED		La G	lo z	ADDED VIEWS O	. <u>.</u>	28, RE PTAC	DESCRIPTION
		<u></u>	ļ				P ج	¥∢}.	REV. FI	RAM	REV. DIRECTION OF	*	NOTES	SHEET	•
			I	<u> </u>	REVISED		SYN.	NOTES	۳ į	25		NOTES	9	B.	
							WELD	REV.		REV.	λų.	Z X	ğ	REMOVED	
TE:							HOVED			Ē		HEV.		2	
		IOCATION WHERE THE		IND	1		3	ľ				1			
	LOUVERS ARE TO BE INSTALLED IN A	ENETRAIING INIO IME K	UUM ANU	175. /		1	.	. [·	200		1		1		
OM WIL	L HOUSEWATER RESISTANT/WATER PR	OOF EQUIPMENT COMPO	NENTS, OR	€ - <sup>1</sup>	. · ·	1.				Ŀ	1		1		
PPUES.		·····		· .	Z	×		×		: 0	i.	ų	٥	ú	REV.
ALL C	OMPONENTS ARE ALUMINUM ALLOY 60	8315 V				l.				<u>_1.:</u>	1		1		
DESIC)	NATED PRESSURE RATING			· · ·		5	7	2			7	$\mathcal{N}$	Б	-	
An P.	S.F. SMALL MISSLE IMPACT RESISTANCE	1		,			4			V	4 🗄	4			ľ
• •							J.			L		2			
DEFLE	CTORS ARE TO DIRECT INTAKES & EX SLEEVE BEYOND. THEY HAVE NO EFFE	HAUST FOR P.T.A.C. INS CT ON STRUCTURAL INTE	EGRITY OF	THE											
IVER C	DESIGN.				-										
÷				•	1.	•	P	R %	0 [	U	C	Ţ	8	•	
•					12	500	Enter	vies	Road		· · · ·		нц	UVER	-
					G P	HONE	Enter 1, Alc 1, (33	bana 4) 68	Road 363 4-38	io /	· · · ·		H LO REC	STER	15
					G P	HONE	Enter 1, Alc 1, (33	bana 4) 68	Roed 363	io /	· · · ·		H LO REC	STER	15
			•		G Pi Fi	HONE AX (	Enter 5, Ald (33 334)	ories ibams 4) 68 884-	Road 363 4-38 3120	io : A 21	RCH	/MEC	H LO REC DIFI	HSTER SRILLF FUSER	
•					G Pi Fi	HONE AX (	Enter 5, Ald (33 334)	ories ibams 4) 68 884-	Road 363 4-38	io : A 21	RCH	/MEC	H LO REC DIFI	HSTER SRILLF FUSER	
•					G Pi Fi Fi S	HONE AX (: THE U DR VE EASUI Y MY	Enter A, Ald (33 334) INDER RIFYIA REMEN SIGN/ D ALL	SIGNED G CON TS OF	Road 363 4-38 3120 AM 1 IDITION THIS BELOW	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ADUAL	
•					G Pi Fi Fi S	HONE AX (: THE U DR VE EASUI Y MY	Enter A, Ald (33 334) INDER RIFYIA REMEN SIGN/ D ALL	SIGNED G CON TS OF	Road 363 4-38 3120 AM 1 IDITION THIS BELOW	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ADUAL	
		PRODUCT R			G Pi Fi Fi S	HONE AX (: THE U DR VE EASUI Y MY	Enter A, Ald (33 334) INDER RIFYIA REMEN SIGN/ D ALL	SIGNED G CON TS OF	Road 363 3120 AM 1 IDITION THIS BELOW	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ADUAL	
		an complying t	with the F		G P F F F F F S S S S S S S S S S S S S S	HONE AX ( DR VE EASUI Y MY ERIFLE OUCH ABRIC HE DC	INDER (33 334) INDER RIFYA REMEN SIGN/ D ALL OPEN A TION	SIGNED G CON TS OF	Road 363 4-38 3120 AM 1 IDITION THIS BELOW	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ADUAL	
		an complying t	vith the F	logida	G P F F F F F S S S S S S S S S S S S S S	HONE AX (: THE U DR VE EASUI Y MY	INDER (33 334) INDER RIFYA REMEN SIGN/ D ALL OPEN A TION	SIGNED G CON TS OF	Road 363 4-38 3120 AM 1 IDITION THIS BELOW	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ADUAL	
		ne complying v Building Code Acceptance No	11-072	<b>lorida</b> 26,03		HONE AX (: THE L DR VE EASUI Y MY ERIFIE OUCH ABRIC HE OC	Conterna C (33 C (33	SIGNED G CON TINE FIELD ING SI NTS R	Road 363 3120 AM 1 IDITION THIS BELOW COND ZES AL IE CON ELATIVI	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ASTER CRILLE FUSER IN ALL ORDER	
		an complying a Building Code Acceptance No Expiration Dat	11-072 0972	<b>lorida</b> 26,03		HONE AX (: THE L DR VE EASUI Y MY ERIFIE OUCH ABRIC HE OC	Conterna C (33 C (33	SIGNED G CON TINE FIELD ING SI NTS R	Road 363 4-38 3120 AM 1 IDITION THIS BELOW	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ADUAL	
		an complying v Building Code Acceptance M Expiration Dat By HM-	11-072 0 <u>077</u> 2	<b>lorida</b> 26,63 272016		HONE AX (: DR VEI CR VE	Enter A, Ald (33 334) JINDER REFYAN REFYAN REFYAN OPEN ATION D ALL OPEN ATION D ALL OPEN ATION REFYAN	Signed Signed G Coa TS of TURE FIELD OF TP NIS RI	Road 363 3120 AM 1 IDITION THIS BELOW COND ZES AL IE CON ELATIVI	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ASTER CRILLE FUSER IN ALL ORDER	
		an complying a Building Code Acceptance No Expiration Dat	11-072 0 <u>077</u> 2	<b>lorida</b> 26,63 272016		HONE AX (: DR VE E ASU Y MY E ASU Y MY E ANTE OUGH ABRIC ABRIC	Ald (33 334) JINDER REFINEN SIGN/ D ALL D ALL D ALL D ALL OPEN ATON D ALL SIGN/ D ALL D ALL OPEN ATON D ALL OPEN ATON D ALL OPEN ATON D ALC D ALC SIGN/ D ACC SIGN/ D ACC SIGN	SIGNED SIGNED SIGNED G COAN TS OF FIELD OF T NTS R SIGNA	Road 383 3120 AM 1 IDITION THIS BELOW COND ZES AN IE COM ELATIVI	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ASTER CRILLE FUSER IN ALL ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HM-	11-072 0 <u>077</u> 2	<b>lorida</b> 26,63 272016		HONE AX (: DR VE E ASU Y MY E ASU Y MY E ASU Y MY E ASU ANE AME	Enter A, Ald (33 334) JINDER REFYAN REFYAN REFYAN OPEN ATION D ALL OPEN ATION D ALL OPEN ATION REFYAN	SIGNED SIGNED SIGNED G COAN TS OF FIELD OF T NTS R SIGNA	Road 383 3120 AM 1 IDITION THIS BELOW COND ZES AN IE COM ELATIVI	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ASTER CRILLE FUSER IN ALL ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HM-	11-072 0 <u>077</u> 2	<b>lorida</b> 26,63 272016		HONE AX (: DR VE E ASU Y MY E ASU Y MY E ASU Y MY E ASU ANE AME	Ald (33 334) JINDER REFINEN SIGN/ D ALL D ALL D ALL OPEN ATON DOPEN RIZEO	SIGNED SIGNED SIGNED G COAN TS OF FIELD OF T NTS R SIGNA	Road 383 3120 AM 1 IDITION THIS BELOW COND ZES AN IE COM ELATIVI	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ASTER CRILLE FUSER IN ALL ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HM-	11-07: 0 09/2 2) roduct Co	larida 26,63 272016 matrol		HONE AX (: DR VE E ASU Y MY E ASU Y MY E ASU Y MY E ASU ANE AME	Alder	SIGNED SIGNED SIGNED G COAN TS OF FIELD OF T NTS R SIGNA	Road 383 3120 AM 1 IDITION THIS BELOW COND ZES AN IE COM ELATIVI	HE RE S AND CONTR	SPON ROU ACT.	MEC SIBLE GH OI	H LO REC DIFI	ASTER CRILLE FUSER IN ALL ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HAA Mindui Dada P	11-07: 0 09/2 2) roduct Co	larida 26,63 272016 matrol		HONE AX () THE L DR VE EASU Y MY Y MY Y MY Y MY Y MY Y MY Y MY ABRIC AME	ADE ADE	Ales COUL	Road 363 363 3120 31	HE RE	RCH, SPON ROU ACT. HOTE AND THOR NITS C THIS I	MEC SIBLE GH OI THAT GUAR ZE TO CONTAL		ADUAL RUSER ADUAL IO VE E THE IN ALI ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HAA Mindui Dada P	11-07: 0 09/2 2) roduct Co	larida 26,63 272016 matrol		HONE HONE AX (: DR VE EASUI Y MY EASUI Y MY EASUI AME AME AME AME AME AME AME D	ADE ADE	Ales COUL	Road 363 3120 D AM 1 DDITION THIS BELOW COND ZES AN ELATIVI	HE RE S AND CONTR 1 DEN 1 DEN	RCH, SFON ) ROU ACT. AND THORE AND THORE THIS I	MEC SIBLE GH OI THAT GUAR ZE TÌ URCH		ADUAL RUSER ADUAL IO VE E THE IN ALI ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HAA Mindui Dada P	11-07: 0 09/2 2) roduct Co	larida 26,63 272016 matrol		HONE HONE AX ( THE L DR VE EASU EASU EASU EASU EASU EASU EASU EAS	RIZEO OF OF O	Ales borne borne signed g coa- field ing signed field of P nits R Signed for the field of P nits R Signed for the field of P nits R Signed for the field for field for the field for field for f	Road         3633           340-35         3120           am 1         000000000000000000000000000000000000	HE RE S AND I DEN I DEN	RCH, SFON ROTE AND THORE THIS I	MEC SIBLE GH OI THAT GUAR ZE TÌ URCH		ADUAL RUSER ADUAL IO VE E THE IN ALI ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HAA Mindui Dada P	11-07: 0 09/2 2) roduct Co	larida 26,63 272016 matrol		HONE HONE AX ( THE L DR VE EASU EASU EASU EASU EASU EASU EASU EAS	RIZED OF OF O	Ales borne borne signed g coa- field ing signed field of P nits R Signed for the field of P nits R Signed for the field of P nits R Signed for the field for field for the field for field for f	Road         3633           340-35         3120           am 1         000000000000000000000000000000000000	HE RE S AND I DEN I DEN	RCH, SFON ) ROU ACT: AND THORE AND THORE THIS I	MEC SIBLE GH OI THAT GUAR ZE TÌ URCH		ADUAL RUSER ADUAL IO VE E THE IN ALI ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HAA Mindui Dada P	11-07: 0 09/2 2) roduct Co	larida 26,63 272016 matrol	GPFF IFM BVRFF N BVRFF N BVRFF N N CL DFM M	HONE AX (3 THE L DR VE EASU Y MY ERITHE ABRIC EASU Y MY ERITHE COUCH ABRIC ABR	ALLER ADE	Ales borne borne signed g coa- field ing signed field of P nits R Signed for the field of P nits R Signed for the field of P nits R Signed for the field for field for the field for field for f	Road         3633           340-35         3120           am 1         000000000000000000000000000000000000	HE RE S AND I DEN I DEN	RCH, SFON ROTE AND THORE THIS I	MEC SIBLE GH OI THAT GUAR ZE TÌ URCH		ADUAL RUSER ADUAL IO VE E THE IN ALI ORDER	
		an complying v Building Code Acceptance M Expiration Dat By HAA Mindui Dada P	11-07: 0 09/2 2) roduct Co	larida 26,63 272016 matrol	GPFF IFM BVRFF N BVRFF N BVRFF N N CL DFM M	HONE AX () THE LEDR VE ASU PR VE ASU ADE NATE NTSF	Anteria Alexandre	SIGNE G CON SIGNE G CON SIGNE G CON TS OF TS OF TS OF TS OF TS OF TS OF TS OF TS OF TURE SIGNA SIGNA COULI TEST	Road 363, 34-38 3120 Data 100 Donton RHIS Cokb ZES AL E COA ELATIVI TURE A TRON		RCH, SFON ACT. AND THOR NTS C THIS I	AMEC SIBLE GR 01 THAT GUAR ZE TO SURCH	H LL REC () DIFI INDIN I HA'I I HA'I HA'I I HA'I HA'I HA'I HA'I HA'I HA'I HA'I HA'I	ADUAL RUSER ADUAL IO VE E THE IN ALI ORDER	
		an complying a Building Code Acceptance M Expiration Dat By Handi By Handi For OFFICE	TOCHART CO	logida 26,63 21/2016 mitrol	GPFF IFM BVRFF N BVRFF N BVRFF N N CL DFM M	HONE AX (3 THE L DR VE EASU Y MY ERITHE ABRIC EASU Y MY ERITHE COUCH ABRIC ABR	Anter A Ald Constant A Ald Constantanta Ald Constantantanta Ald Constantantantantantantantantantantantantant	A COULT	Road 363,34-38 3120 0 AM 1 001100N RHIS 001010N RHIS COKD ZES AL E COKD ZES AL E COMD ZES AL E COMD		SFON AND ACT. HOTE AND THOR HIS LICA FROM AND THOR HIS LICA		H LL REC ( DIFI INDIN PENIN 1 HA'I I HA'I HA'I I HA'I HA'I I HA'I I HA'I I HA'I I HA'I I HA'I I HA'I	ADUAL MULA MOUAL VE E THE THE IN ALL ORDER	
		Approved as con	uplying wi	logida 26,63 21/2016 mitrol		HONE HANE THE LL EASU Y MY EASU Y MY EASU Y MY ABRIC CHE AME STON	Anteria (3334) INDERR (3334) INDERR (3334) INDER SIGN/ OPEN RIZEO OF OF OF ADE RIZEO OF OF OF CO I	A COULT	Road 363, 34-38 3120 Data 100 Donton RHIS Cokb ZES AL E COA ELATIVI TURE A TRON		SFON AND ACT. HOTE AND THOR HIS LICA FROM AND THOR HIS LICA		H LL REC DIFI INDIV PENIN I HAANTE HE NED I HAANTE HE NED I HAANTE HE NED I HAANTE HE NED I HAANTE HE NED HE NE NE NE NE NE NE NE NE NE NE NE NE NE	ADUAL RILLE RUSEF ADUAL VE THE THE IN ALL ORDER	
		Acceptance M Expiration Date By House M By House P Mindel Date P FOR OFFICE	the F 11-072 07/2 07/2 102 102 102 102 102 102 102 10	th the			Anter A Ale (33 Ale Ale Ale Ale Ale Ale Ale Ale		Road 363,34-36 3120 0 AM 1 001100N RHIS COKD ZES AL E COKD ZES AL E COM ZES AL Z		SFON AND ACT. HOTE AND THOR HIS LICA FROM AND THOR HIS LICA			HILE HE THE THE THE THE THE	
		Acceptance M Expiration Date By Hindel Date P For OFFICE For OFFICE Storish Smilling 2005 19 Smilling	uplying wi	th the		MAKE HAND	ALLE L EO BY LEE L EO BY		Road 363,34-38 3120 0 AM 1 0 A		SFON AND ACT. HOTE AND THOR HIS LICA FROM AND THOR HIS LICA		H LL REC (DIFI INDIA) PENIN I HAANTE I HA	HILE HE THE IN ALL ORDER	
	1011 tory	Acceptance M Expiration Date By Hindel Date P For OFFICE For OFFICE Storish Smilling 2005 19 Smilling	uplying wi	th the		MAKE HALL AND	ALLE LE BY	ATES ALL SI	Road 363,34-36 3120 0 AM 1 001100N RHIS COKD ZES AL E COKD ZES AL E COM ZES AL Z	HE RE SAMD	RCH, SPON ACT. HOTE AND THOR HIS I HIS I HIS I HIS I AND THOR HIS I AND THOR HIS I		H LL REC REC DIFI INDIA PENIN I HAANTE I SANTE I S	HILE HE	
	Platert	Acceptance M Expiration Date By Hindel Date P For OFFICE For OFFICE Storish Smilling 2005 19 Smilling	uplying wi	th the		MAKE HALL AND	ALLE L EO BY LEE L EO BY	ATES ALL SI	Road 363,34-38 3120 0 AM 1 0 A	HE RE SAMD	SFON AND ACT. HOTE AND THOR HIS LICA FROM AND THOR HIS LICA		H LL REC REC DIFI INDIA PENIN I HAANTE I SANTE I S	HILE HE THE IN ALL ORDER	
	T. M. P. Hutard	Acceptance M Expiration Date By Hindel Date P For OFFICE For OFFICE Storish Smilling 2005 19 Smilling	uplying wi	th the		MAKE HALL AND	A LIGE LIGEN	ATES ALL SI	Road 363,34-38 3120 0 AM 1 0 A	HE RE AND	RCH, SPON ACT. HOTE AND THOR HIS I HIS I HIS I HIS I AND THOR HIS I AND THOR HIS I		H LL REC REC DIFI INDIANTE PENIN I HANTE INDIANTE INTE INDIANTE INDIANTE IN	HILE HE	
	Jurn Plutant Jurn abarros	Acceptance M Expiration Date By Hindel Date P For OFFICE For OFFICE Storish Smilling 2005 19 Smilling	uplying wi Code Code Code Code Code Code Code Code	th the		MAKE HANDER	Anter Ade Atton Science Atton	A BASA- SIGNELL SIGNELL SIGNELL SIGNELL SIGNELL SIGNELL SIGNEL SIGNE SIGNEL SIGNEL SIGNEL SIGNEL SIGNEL SIGNEL SIGNE SI	Road 363,34-38 3120 0 AM 1 0 A		RCH, SPON ACT. NOTE AND THOR HIS I CRSA VICA SROF VICA SROF VICA SROF VICA		H LL REC DIFI INDIAN PENIN I HAA I ANTE I HAA I HAAA I HAA I HAAA I HAAAA I HAAA I HAAA I HAAA I HAAAA I HAAA I HAAAA I HAAAAAA I HAAAAAA I	ADUAL MULAL MULAL MOUAL MULAL MOUAL MULAL MOUAL MULAL	
l Z	Swand Platar & Juran 2005	Acceptance M Expiration Date By How States By How States For Office Plosish Inciding National Date Pro Bivision Biologic Date Provision Bi	II-072 DECOMPTING	th the		MOMENTAL CONTRACTOR OF CONTRAC	ALLE I		Road 363:4-38 3120 A M 1 D AM 1 D AM 1 D INTON HIS ECOND 2CS AN ECOND 2CS AN ECOND 2CS AN TURE A TON TURE A TON MMON		RCH, SPON ACT: AND THORIS I HIS I CRSAA PROF VICA PROF VICA PROF VICA		H LL REC DIFI INDIAN PENIN I HAA I ANTE I HAA I HAAA I HAA I HAAA I HAAAA I HAAA I HAAA I HAAA I HAAAA I HAAA I HAAAA I HAAAAAA I HAAAAAA I	HILE HE THE THE THE THE THE THE THE THE THE	
	Swand Platar A grapos	Acceptance M Expiration Date By Hindel Date P For OFFICE For OFFICE Storish Smilling 2005 19 Smilling	II-072 DECOMPTING	th the		MAKE HANDER HANE CONTRACTOR HE LITHO HE ASUU FAMILE AME AME AME AME AME AME AME AME AME AM	Anter Ade Atton Science Atton		Road 363:4-38 3120 A M 1 D AM 1 D AM 1 D INTON HIS ECOND 2CS AN ECOND 2CS AN ECOND 2CS AN TURE A TON TURE A TON MMON	HO 21 HE RE S AMM S AMM SOLUTIONS JD AUD FINE I DENNE I DENNE	RCH, SPON ACT. NOTE AND THOR HIS I CRSA VICA SROF VICA SROF VICA SROF VICA		H LL REC DIFI INDIAN PENIN I HAA I ANTE I HAA I HAAA I HAA I HAAA I HAAAA I HAAA I HAAA I HAAA I HAAAA I HAAA I HAAAA I HAAAAAA I HAAAAAA I	ADUAL ADUAL MUSEF ADUAL VE THE IN ALL ORDER DATE	

PROJECT LOCATION	SITE WORK	BUILDING ENVELOPE INFORMATION:
Aviation Department 4331 NW 22nd. Street, Miami, FL 33122 County: Miami-Dade	SITE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND/OR INSTALLING THE FOLLOWING ITEMS IN ACCORDANCE WITH THE APPLICABLE CODES LISTED ON THIS SHEET.	ROOF: ACTUAL INSULATION: R-VALUE: 16.7
APPLICABLE MAJOR CODES           CATEGORY         CODE         YEAR           BUILDING         FLORIDA BUILDING CODE         2014           ENERGY         FLORIDA BUILDING CODE - ENERGY CONSERVATION         2014           MECHANICAL         FLORIDA STATE MECHANICAL CODE         2014           PLUMBING         FLORIDA STATE PLUMBING CODE         2014           FLORIDA STATE PLUMBING CODE         2014         2014           FLORIDA STATE PLUMBING CODE         2014         2014           FLORIDA STATE FLUEL GAS CODE         2014         2014		WALL:       ACTUAL INSULATION       R-VALUE: 18.5         FLOOR:       ACTUAL INSULATION       R-VALUE: N/A         DOOR(S)       R-VALUE: 5.21
INDUSTRIALIZED BUILDING DATA	GENERAL NOTES	FENESTRATION INFORMATION:
MODEL MFI-6288-RR Actual Building Size 6'-2" X 8'-8"	EXIT DOORS TO REMAIN OPEN ABLE DURING BUSINESS HOURS FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE.	U-VALUE: N/A SHGC: N/A
Estimated Weight         See Data Plate           Building Square Footage         53           Occupant Load         100 SQ. FT./OCCUPANT = 1	NATURAL VENTILATION IS PROVIDED BY OPERABLE WINDOWS AND/OR DOORS.	
Occupancy Type     B       Construction Type     V-B       Electric Class     120/208 Volt, 1 Phase	REQUIRED; WATER FOUNTAIN, SERVICE SINK, AND BATHROOM FACILITIES WILL BE PROVIDED ON SITE IN AN ADJACENT BUILDING, SUBJECT TO LOCAL INSPECTION. FACILITIES MUST BE ADEQUATE TO ACCOMMODATE BOTH ADJACENT BUILDING AND THIS BUILDINGS OCCUPANT LOAD. THIS FACILITY MUST BE LOCATED WITHIN 500 FEET OF THIS STRUCTURE.	
Floor Design Live Load 50 PSF Roof Design Live Load 30 PSF Design Wind Speed & Exposure Vuit=175 MPH - Vasd=139, Exposure: C	THIS BUILDING SHALL BE LOCATED AS TO PROVIDE A 10 FOOT SEPARATION DISTANCE FROM THE PROPERTY LINE OR HALF THE DISTANCE TO ANY OTHER STRUCTURE.	
Wind Importance Factor         1.0           Risk Category         II           Internal Pressure Coefficients         +0.18, -0.18	THE FOUNDATION/SLAB DESIGN IS REQUIRED TO BE DESIGNED BY A PROFESSIONAL ENGINEER.	
Components and Cladding +40 Windward, -54 Leeward	FIRE EXTINGUISHER WILL BE PROVIDED ON-SITE. SUBJECT TO LOCAL INSPECTION.	
This unit meets the requirements of the (2014) Florida Building Code, 5th Edition mandatory as of June 30, 2015. These plans comply with rule 61G20-3.006 (Product Approval).	THIS BUILDING SHALL BE INSTALLED ABOVE FLOOD HAZARD ELEVATION.	
A set of plans with the engineers seal is on file in the third party agency's office as directed by DBPR.	Fasteners used in the construction of this model may be made from aluminum, stainless steel or be made of steel and double cadmium plated, hot dipped galvanized or elecro-galvanized (zinc plated).	
This building is not designed to be located in a Wind-borne Debris Region or High velocity Hurricane Zone.	Rivets are made of aluminum or Stainless Steel.	
This building is designed to be located in a Wind-borne Debris Region .	Machine Screws, Bolts, Washers, and Nuts shall be made stainless steel or shall be electro-galvanized (zinc plated) steel.	
Located within 1 mile of the costal mean water line where the ultimate design wind speed Vult is 130. MPH or greater; or in areas where the ultimate design wind speed Vult is 140. MPH or greater.	Screws and Self Drilling Screws shall be made stainless steel or shall be electro-galvanized (zinc plated) steel.	
This building is designed to meet all High Velocity Hurricane Zone requirements. Located in Miami-Dade or Broward Counties.	Components used in construction of this model that have State of Florida Product Approval and/or Miami-Dade Notice of Acceptance:	
ONLY ONE BOX MAY BE CHECKED AND ONLY CHECKED BOX IS APPLICABLE.	Product Approval Number Expires	SHIPETER
Florida evaluation reports for the windows, doors, mechanical covers and roofing materials have been received, reviewed, and accepted as approved for use in Florida.	Ceiling Panels         FL - #7561           Roof Coating System         NOA - #13-1022.10         12/11/2018           Impact Resistant Louver         NOA - #11-0726.03         09/22/2016	No. 43085
It is maintained in the Manufacturer's Quality Assurance Manual.		D. STATE OF
A copy of the Florida Evaluation Reports and Installation Instructions may be obtained upon request from Mardan.		A CORIDA
The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center.		MAR 1 6 2016
Exterior Panels and Roof aluminum sheet thickness shall meet or exceed requirements of Section 20 of the Florida Building Code. Aluminum sheet shall not be less than 0.032 Inch in thickness.		
All dimensions shown shall have a tolerance of +/- 1/4".		

	DRAWING SHEET INDEX
SHEET	DESCRIPTION
CV-I	COVER SHEET AND DRAWING INDEX
CV-2	DATA PLATES
SD-I	PLAN VIEW, FOOTPRINT AND ELECTRICAL VIEW
SD-2	ELEVATIONS
SD-3	ANCHOR DETAIL AND SECTION
SD-4	INTERIOR ELEVATION OF REST ROOM EQUIPMENT
SD-5	CIRCUIT BREAKER SCHEDULE AND ELECTRICAL RISER
SD-6	FRAMING MEMBER LAYOUT AND SCHEDULE
SD-7	FRAMING CONNECTION DETAILS
SD-8	FRAMING CONNECTION DETAILS
SD-9	FRAMING CONNECTION DETAILS
SD-10	SWING DOOR DETAILS

Mod	el Number	APPROVED BY:	
MFI	-6288-RR		
DATE:	2-18-2016	DRAWING NUMBER	DRAWN BY: DNE
SCALE:	NTS	VI5-090-4	REVISION: 3-16-2016
	Μιαμι-	DADE AVIATION DEP. MIAMI, FL	ARTMENT



•	MARDAN FABRICATION, INC.	DRAWING SHEET
	WWW.MARDANFAB.COM	
	800-882-5820	

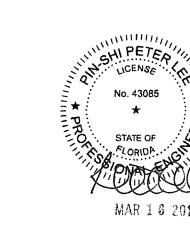
		ER'S DATA PLA'		EQUIPMENT	MANUFACTURER	MODEL NO.
Manufacturer	Mardan Fab	rication, Inc.	Heating	General Electric	AZ61H12D	
	41249 Irwin			Cooling	General Electric	AZ61H12D
City, State, Zip	Harrison To	wnship, MI 48045				
LISTED	INDUSTRIA	ALIZED BUILDING	3			
Model		MFI-6288-RR		]ŀ-		
Occupancy Classification	В	Const. Class	VB	]		
Manufacturer's Serial No(s)		•				-,
Date of Manufacture	•	Plan Approval No	).	]		
Date Data Plate Attached		•				~~~~~
Permissible Gas Types(s)		N/A				
Electrical Rating	12	0/208 Volt, Single	Phase			
Test Voltage/Time		1080 Volts/1 Seco	ond			
Vater Supply: Test Procedure		N/A				
Floor Design Live Load	50 PSF	Design Wind Speed and Exposure	175 MPH-Exp:C	Shipping Weight(s)	3,000 P	ounds
Ground Snow Load	0 PSF	Roof Design Live Load	30 PSF	TRA Label No(s).		*******
Exterior Wall Fire Rating	N/R	Seismic Design Category		State Insignia No(s).	•	<b></b>
Winter Deisgn Temp.: Inside	+70° F	Outside	+6° F		· · · · · · · · · · · · · · · · · · ·	<del>,</del>
Uo: Ceiling	0.0600	Wall 0.054	Floor N/A	Follow precisely all ins	truction with this building. I are subject to inspection by	oundations, Installatio



THIS MANUFACTURED STRUCTURE HAS BEEN CONSTRUCTED IN CONFORMANCE WITH THE FOLLOWING CODES:

V	2011	NATIONAL ELECTRICAL CODE®
		INTERNATIONAL BUILDING CODE
Ē		INTERNATIONAL MECHANICAL CODE
Ē		INTERNATIONAL PLUMBING CODE
n		INTERNATIONAL ENERGY CONSERVATION CODE
n		INTERNATIONAL RESIDENTIAL CODE
		INTERNATIONAL FUEL GAS CODE
Ē		INTERNATIONAL FIRE CODE
5		INTERNATIONAL BUILDING CODE
H		UNIFORM BUILDING CODE
н П		UNIFORM PLUMBING CODE
Ë		UNIFORM MECHANICAL CODE
H		NATIONAL STANDARD PLUMBING CODE
H		INTERNATIONAL BUILDING CODE
ᇤ	******	CODE - 5TH EDITION (2014) BUILDING
		CODE - 5TH EDITION (2014) MECHANICAL
		CODE - 5TH EDITION (2014) PLUMBING
_		CODE - 5TH EDITION (2014) ENERGY CONSERVATION
_		CODE - 5TH EDITION (2014) FUEL GAS
_		CODE - 5TH EDITION (2014) FUEL GAS
	I LORIDA DUILDING	CODE - STH EDITION (2014) ACCESSIBILITY
	****	

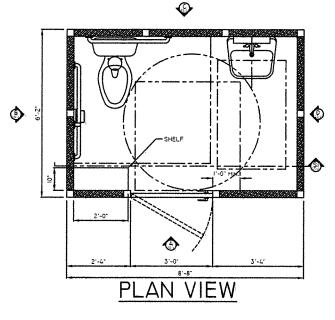
# FLORIDA DATA PLATE ADDENDUM Manufacturer Certification Number MFT10220 Date of Alteration N/A Number of Modules 1 Design Occupant Load 1 Agency Plan Number MFI-6288-RR Floor Dead Load 5 PSF Roof Dead Load 5 PSF Limitation of plan approval \_\_\_\_\_ NONE Is automatic sprinkler system required (if provided) N/A Special stipulations and conditions of the building permit NONE



			FLOOR		BLACK PVC FLEXI-TILE
			CANOPY		WHITE
			WALLS		WHITE
			CEILING		WHITE
			COUNTER		WHITE PLASTIC LAMINATE
	NUMBER 288-RR	APPROV	ED BY:		
DATE: 2	2-18-2016	DRAWI	NG NUMBER	DRAW	N BY: DNE
SCALE:	NTS	VI5-090-4 REVISION:			ION:
MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL					
	MARDAN FABRICATION, INC.				DRAWING SHEET
MFI	WWW.MARDAN 800-882-582				CV-2

LICEN	TE		
No. 43 ★	085		*
STATE		No.	
MAR	16	201	6

FINISH SCHEDULE				
ITEM DESCRIPTION				
FLOOR	BLACK PVC FLEXI-TILE			
CANOPY	WHITE			
WALLS	WHITE			
CEILING	WHITE			
COUNTER	WHITE PLASTIC LAMINATE			



#### DESIGN NOTES

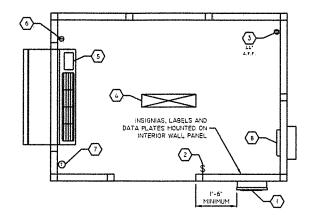
SWING ENTRY DOOR TO PROVIDE 32" CLEAR DOOR OPENING AND INCLUDES: LEVER MANDLE LOCKSET, HYDRAULIC CLOSER, AND WEATHER STRIPPING.

FACTORY SUPPLIED ITEMS SHIPPED LOOSE FOR INSTALLATION ON SITE BY OTHER IN COMPLIANCE WITH ANY AND ALL APPLICABLE CODES WATER CLOSET, LAVATORY WITH FAUCET, COAT HOOK, TOILET PAPER DISPENSER, PAPER TOMEL DISPENSER AND SOAP DISPENSER.

FACTORY INSTALLED ITEMS INCLUDE: 10" DEEP X 24" WIDE STAINLESS STEEL SHELF, GRAB BARS.

WATER HEATER AND/OR HOT WATER SUPPLY IS PROVIDED AND INSTALLED BY OTHERS. NO FACTORY PROVISION PROVIDED OR WATER HEATING EDUEMENT FROVIDED.

ALL PLUMBING PIPING AND INSTALLATION IS BY OTHERS AND IS SUBJECT TO SITE INSPECTION AND NOT PART OF THIS MODULAR BUILDINGS DESIGN.



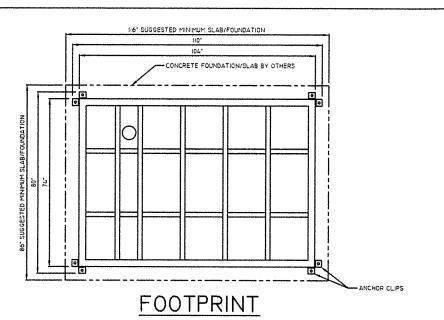
# ELECTRICAL PLAN

#### ELECTRICAL NOTES

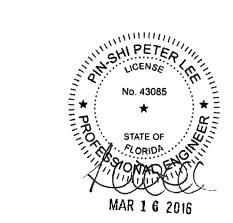
- RAIN TIGHT 120/240 VOLT, SINGLE PHASE, 125 AMP RATED, 8-CIRCUIT LOAD CENTER.
   SWITCH FOR INTERIOR LIGHT AND EXHAUST FAN.
   GFCI 120 VOLT, DUPLEX RECEPTACLES.
   CERLING SURFACE MOUNTED, FLUDRESCENT LIGHT FIXTURE.
   WALL MOUNTED HEAT PUMP UNIT. (220 VOLT, 10:600 BTU HEAT). WITH RELIABLE IMPACT RESISTANT LOUVER (NOAMI(0726.03)
   Z40 VOLT, 20 AMP SINGLE RECEPTACLE FOR HEAT PUMP UNIT.
   WALL MOUNTED HERMOSTAT CONTROL FOR HEAT PUMP UNIT.
   EXHAUST FAN (180 CFM) THROUGH WALL MOUNTED.

- ALL ELECTRICAL COMPONENTS TO BE U.L. LISTED.
   ALL WIRING PER N.E.C. STANDARD.
   ALL FACTORY INSTALLED WIRING TO BE #12 MINIMUM THHN ENCLOSED IN METALLIC RACEWAY.
   ALL BRANCH CIRCUITS HAVE GREEN GROUND CONDUCTOR.

NOTE ACTUAL LOCATION OF ELECTRICAL DEVICE MAY VARY DUE TO INSTALLATION CONSTRAINTS OR FOR PROPER PLACEMENT AS PER APPLICABLE CODES



- Ι. 2. ANCHORING.
- SLAB/FOUNDATION.



#### ACCESSIBILITY NOTES:

BOOTH MUST SE HANDICAP ACCESSIBLE RAMP OR FOUNDATION PROVIDE BY OTHERS.

THE FOUNDATION MAY BE RECESSED OR A 1:12 RAMP MUST BE PROVIDED SO THAT MAXIMUM CHANGE IN LEVEL FROM GRADE TO FINISH FLOOR ODES NOT EXCEED 1/47.

REVIEW IN: CONJUNCTION WITH THE APPLICABLE ACCESSIBILITY CODE FOR MORE DETAILED INFORMATION AND REQUIREMENTS.

THIS UNIT MUST BE ANCHORED TO CONCRETE SLAB/FOUNDATION

FAILURE TO SECURELY ANCHOR BOOTH MAY RESULT IN OVERTURNING OF UNIT AND SERIOUS INJURY OR DEATH TO OCCUPANT OR TO OTHERS.

DESIGN OF SLAB/FOUNDATION BY OTHERS, CONSULT A PROFESSIONAL ENGINEER FAMILIAR WITH APPLICABLE LOADS AND SITE CONDITIONS FOR THE LOCATION.

GENERAL SITE INSTALLED ITEMS PROVIDED BY OTHERS

PROVIDE I20V/240V, SINGLE PHASE, 3-WIRE SERVICE WITH GROUND. CONCRETE FOUNDATION/SLAB DESIGN BY OTHERS, SUGGESTED MINIMUM 6" DEEP. 3,000 PSI MINIMUM (28 DAY ACI 318). THE MINIMUM FOUNDATION/SLAB SHOULD BE AS DIMENSIONED ABOVE. THIS IS TO PROVIDE AN AMPLE CONCRETE BORDER ON EACH SIDE OF THE BUILDING AND TO PREVENT FRACTURING OF CONCRETE WHEN

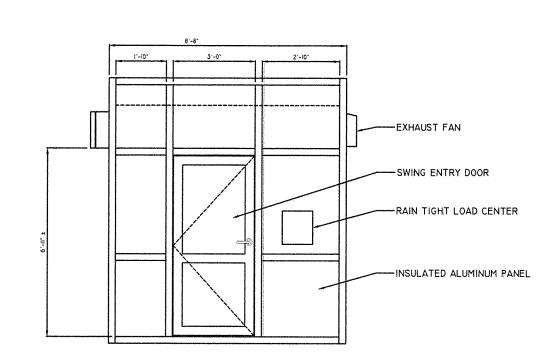
5. ADEQUATE SIZE DRILLED ANCHOR BOLTS. SUGGESTED SIZE: 1/2" WEDGE ANCHOR (3-1/2" MINIMUM EMBEDMENT INTO CONCRETE

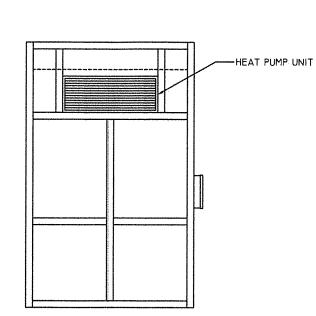
 NO FACTORY INSTALLED WATER HEATING DEVICE, PLUMBING OR ELECTRICAL PROVISIONS FOR WATER HEATING DEVICE PROVIDED. WATER HEATING DEVICE IS NOT PART OF THIS PLAN REVIEW AND MAY BE SUBJECT TO LOCAL INSPECTION HAVING JURISDICTION.

MODEL NUMBER	APPROVED BY:				
MF1-6288-RR					
DATE: 2-18-2016		DRAWN BY: DNE			
Scale: NTS	VI5-090-4	REVISION: 3-16-2016			
MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL					

Via -	
	ı.

MARDAN FABRICATION, INC.	DRAWING SHEET
WWW.MARDANFAB.COM	
800-882-5820	<u> </u>





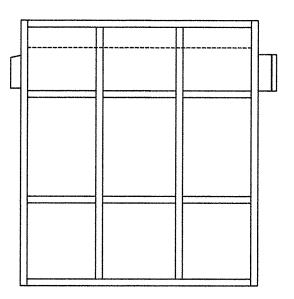
#### GENERAL NOTES:

- ٠
- ARE NOT A PART OF THESE PLANS UNLESS OTHERWISE NOTED

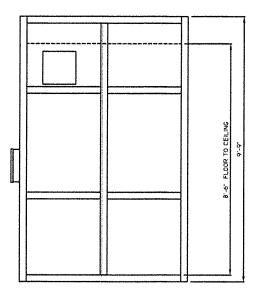
#### PROJECT NOTES:

- SITE INSTALLED ITEMS LIST:
- Β.
  - REQUIRED, ETC.
  - С.
  - D.
  - Ε. FIRE SUPPRESSION EQUIPMENT.
  - F.
  - ALL PLUMBING, PLUMBING FIXTURES, AND DEVICES G.

ELEVATION A



ELEVATION C



ELEVATION B

# ELEVATION D

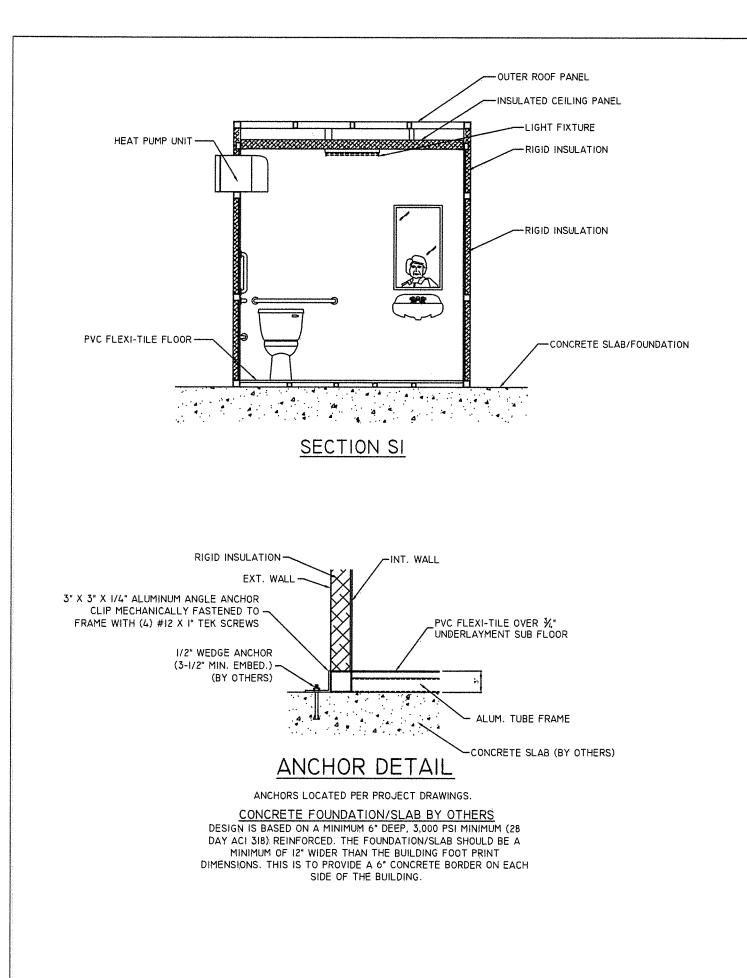
 ALL HANDICAPPED ACCESSIBLE BOOTHS HAVE A MINIMUM 32" CLEAR DOOR OPENING
 ALL HANDICAPPED ACCESSIBLE BOOTHS HAVE A MINIMUM 60" DIAMETER TURNING CIRCLE, OR T-DESIGN WITH THE MIN. OF TOE CLEARANCE SPACE AS PERMITTED PER ADA GUIDELINES. REQUIREMENTS FOR ACCESS TO RESTROOM FACILITIES IS DETERMINED BY THE OWNER AND LOCAL CODE, AND

A. COMPLETE FOUNDATION SYSTEM SUPPORT/TIE-DOWN SUPPORT SYSTEM. RAMPS, STAIRS, AND GENERAL ACCESS TO BUILDING, H.C. RAMPS, GUARD PROTECTIONS POSTS IF ELECTRIC SERVICE HOOK-UP TO THE BUILDING/ON-SITE DISCONNECT. SEE GENERAL NOTES AND PLANS FOR ADDITIONAL REQUIREMENTS. ELECTRONIC STRIKES, BALANCED MAGNETIC SWITCHES, AND EXIT PUSH BUTTONS. DOORS SHALL BE OPERABLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR

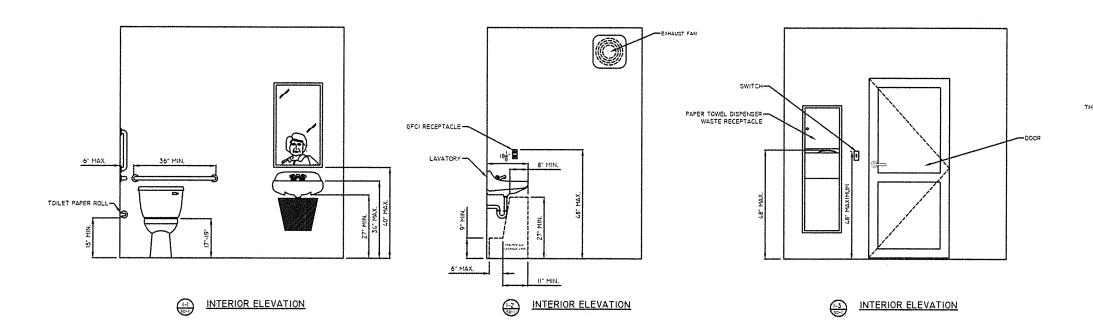
EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOTE BE USED. OCCUPANT LOAD IS BASED ON I PERSON PER 100 SQUARE FEET OF FLOOR AREA. PROVISIONS FOR EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCY) ARE THE RESPONSIBILITY OF THE BUILDING OWNER SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN.



MODEL NUMBER		APPROVED BY:				
MF1-6288-RR						
DATE:	2-18-2016	DRAWING NUMBER	DRAWN BY: DNE			
SCALE:	NTS	V15-090-4 REVISION:				
	MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL					
		RICATION, INC.	DRAWING SHEET			
MF	WWW.MARDAN 800-882-582		SD-2			



No. 4308 * * * MAR 1 6	TIMER *		
Model Number MFI-6288-RR	APPROVED BY:		
DATE: 2-18-2016	DRAWING NUMBER	DRAW	N BY: DNE
SCALE: NTS	VI5-090-4	REVIS	
Miami-	DADE AVIATION DEP	ARTMEN	ŧΤ
MARDAN FAE WWW.MARDAN 800-882-58			DRAWING SHEET



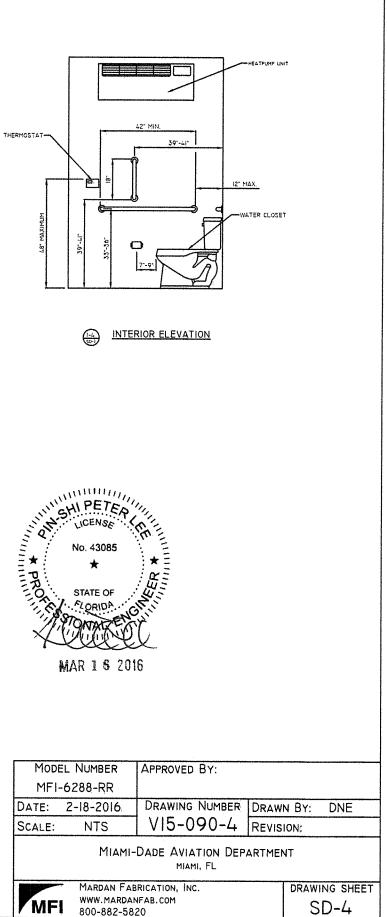
FACTORY SUPPLIED ITEMS SHIPPED LOOSE FOR INSTALLATION ON SITE BY OTHER IN COMPLIANCE WITH ANY AND ALL APPLICABLE CODES: WATER CLOSET, LAVATORY WITH FAUCET, COAT HOOK, TOILET PAPER DISPENSER, PAPER TOWEL DISPENSER AND SOAP DISPENSER.

FACTORY INSTALLED ITEMS INCLUDE: 10" DEEP X 24" WIDE STAINLESS STEEL SHELF. GRAB BARS.

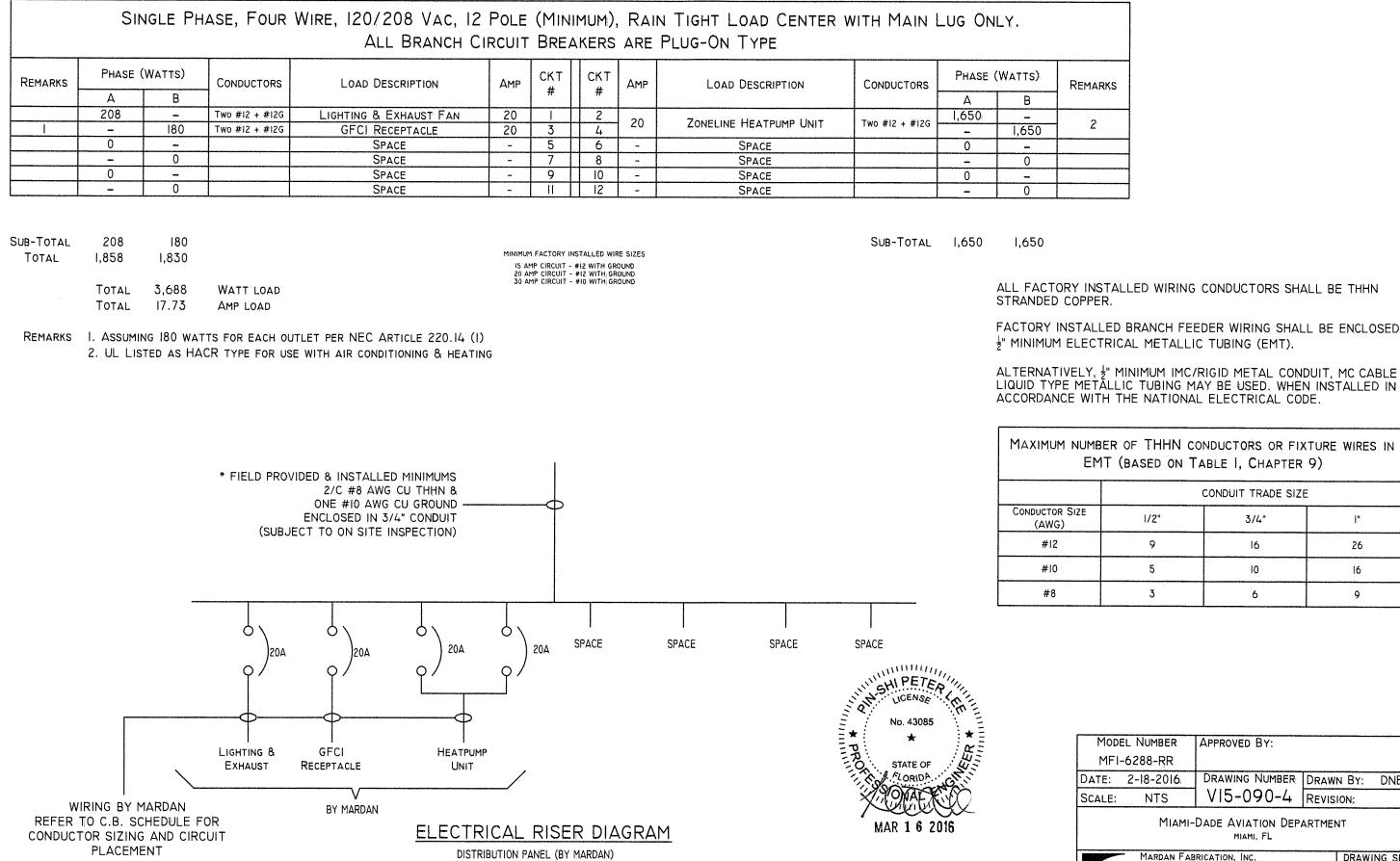
WATER HEATER AND/OR HOT WATER SUPPLY IS PROVIDED AND INSTALLED BY OTHERS. NO FACTORY PROVISION PROVIDED OR WATER HEATING EQUIPMENT PROVIDED.

ALL PLUMBING PIPING AND INSTALLATION OF ITEMS LISTED ABOVE ARE BY OTHERS AND IS SUBJECT TO SITE INSPECTION AND NOT PART OF THIS MODULAR BUILDINGS DESIGN.

PLUMBING FIXTURE SCHEDULE						
SUPPLIED BY	INSTALLED	DESCRIPTION	COLOR	MANUFACTURER	MODEL/PART NUMBER	REMARKS
MARDAN	ON-SITE	LAVATORY/SINK	WHITE	MANSFIELD	2018HBNS-4	22" X 18-1/8", 4" BACK-SPLASH, WALL MOUNTED & ADA COMPLIANT
MARDAN	ON-SITE	WATER CLOSET/TOILET	WHITE	MANSFIELD	137-160	ELONGATED BOWL, RIGHT HAND TRIP LEVER
MARDAN	ON-SITE	TOILET SEAT	BLACK	BEMIS	1955CT	HINGED, ELONGATED, NONABSORBENT, OPEN FRONT & ADA COMPLIANT



# PANEL SPECIFICATION:



	Ľ
EMARKS	
2	

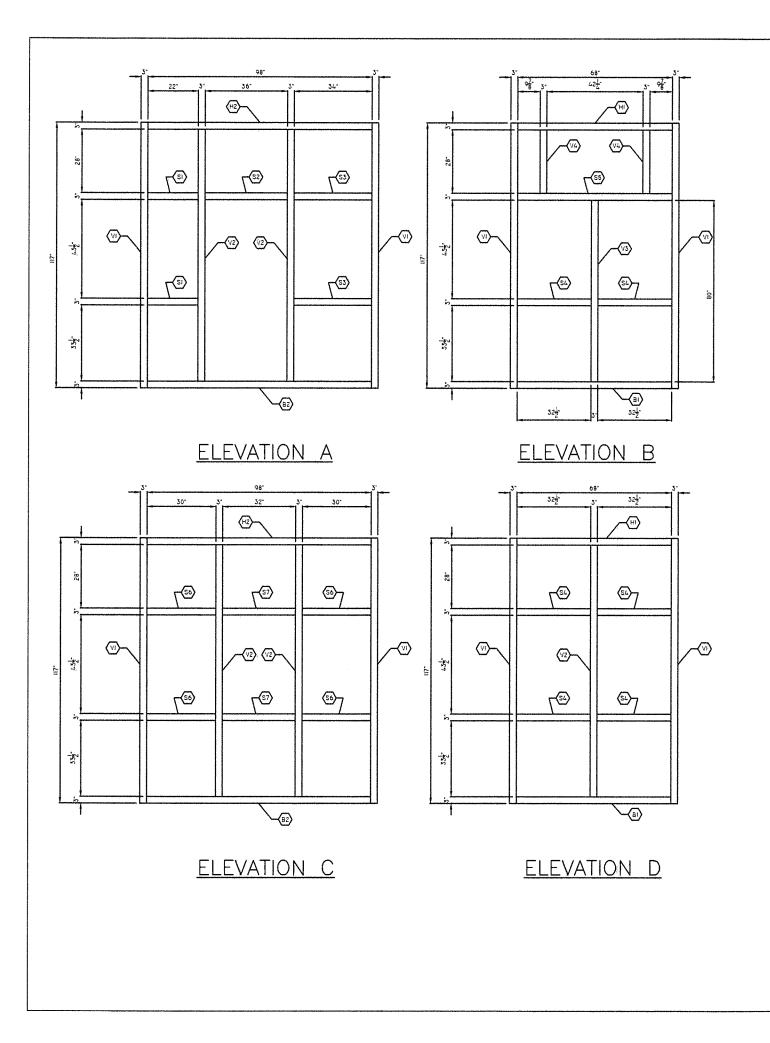
ALL FACTORY INSTALLED WIRING CONDUCTORS SHALL BE THHN

FACTORY INSTALLED BRANCH FEEDER WIRING SHALL BE ENCLOSED IN 2" MINIMUM ELECTRICAL METALLIC TUBING (EMT).

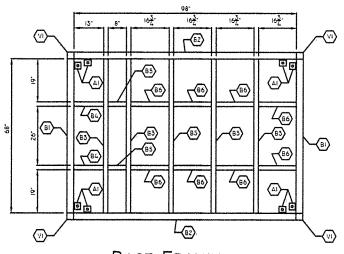
ALTERNATIVELY, 1 MINIMUM IMC/RIGID METAL CONDUIT, MC CABLE OR LIQUID TYPE METALLIC TUBING MAY BE USED. WHEN INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

EMT (BASED ON TABLE I, CHAPTER 9)						
	CONDUIT TRADE SIZE					
IZE	1/2"	3/4*	la I			
	9	16	26			
	5	10	16			
	3	6	9			

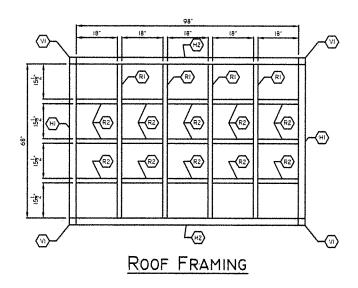
MODEL NUMBER		APPROVED BY:				
MFI	-6288-RR					
DATE:	2-18-2016	DRAWING NUMBER	DRAWN BY: DNE			
SCALE:	NTS	VI5-090-4	REVISION:			
MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL						
		IRICATION, INC.	DRAWING SHEET			
MFI WWW.MARDANFAB.COM 800-882-5820			SD-5			



·····		RAMING MEMBI		
Member ID	COMMON NAME	MEMBER SIZE	MEMBER LENGTH	MATERIAL
Al	ANCHOR CLIP	3" x 3" x 1/4"	3"	6063-T6 ALUMINUM ANGLE
BI	BASE WIDTH TUBE	3" x 3" x 1/8"	68"	6063-T6 ALUMINUM TUBE
B2	BASE LENGTH TUBE	3" x 3" x 1/8"	98"	6063-T6 ALUMINUM TUBE
83	BASE CROSS BRACE TUBE	2" x 2" x 1/8"	68"	6063-T52 ALUMINUM TUBE
B4	BASE BRACE TUBE	2" x 2" x 1/8"	13"	6063-T52 ALUMINUM TUBE
B5	BASE BRACE TUBE	2" x 2" x 1/8"	18"	6063-T52 ALUMINUM TUBE
B6	BASE BRACE TUBE	2" x 2" x 1/8"	16-3/4"	6063-T52 ALUMINUM TUBE
VI	CORNER VERTICAL TUBE	3" x 3" x 1/8"	117"	6063-T6 ALUMINUM TUBE
V2	FULL HEIGHT VERTICAL TUBE	3" x 3" x 1/4"	111"	6063-T6 ALUMINUM TUBE
V3	VERTICAL WALL TUBE	3" x 3" x 1/8"	80"	6063-T6 ALUMINUM TUBE
V4	VERTICAL SHORT TUBE	3" x 3" x 1/8"	28"	6063-T6 ALUMINUM TUBE
SI	SILL TUBE	3" x 3" x 1/8"	22"	6063-T6 ALUMINUM TUBE
S2	SILL TUBE	3" x 3" x 1/8"	36"	6063-T6 ALUMINUM TUBE
S3	SILL TUBE	3" x 3" x 1/8"	34'	6063-T6 ALUMINUM TUBE
S4	SILL TUBE	3" x 3" x 1/8"	32-1/2"	6063-T6 ALUMINUM TUBE
S5	SILL TUBE	3" x 3" x 1/8"	68"	6063-T6 ALUMINUM TUBE
S6	SILL TUBE	3" x 3" x 1/8"	30"	6063-T6 ALUMINUM TUBE
S7	SILL TUBE	3" x 3" x 1/8"	32"	6063-T6 ALUMINUM TUBE
Н	HEADER WIDTH TUBE	3" x 3" x 1/8"	68"	6063-T6 ALUMINUM TUBE
H2	HEADER LENGTH TUBE	3" x 3" x 1/8"	98"	6063-T6 ALUMINUM TUBE
RI	ROOF CROSS TUBE	3" x 2" x 1/8"	68"	6063-T52 ALUMINUM TUBE
R2	ROOF BRACE TUBE	3" x 2" x 1/8"	18"	6063-T52 ALUMINUM TUBE

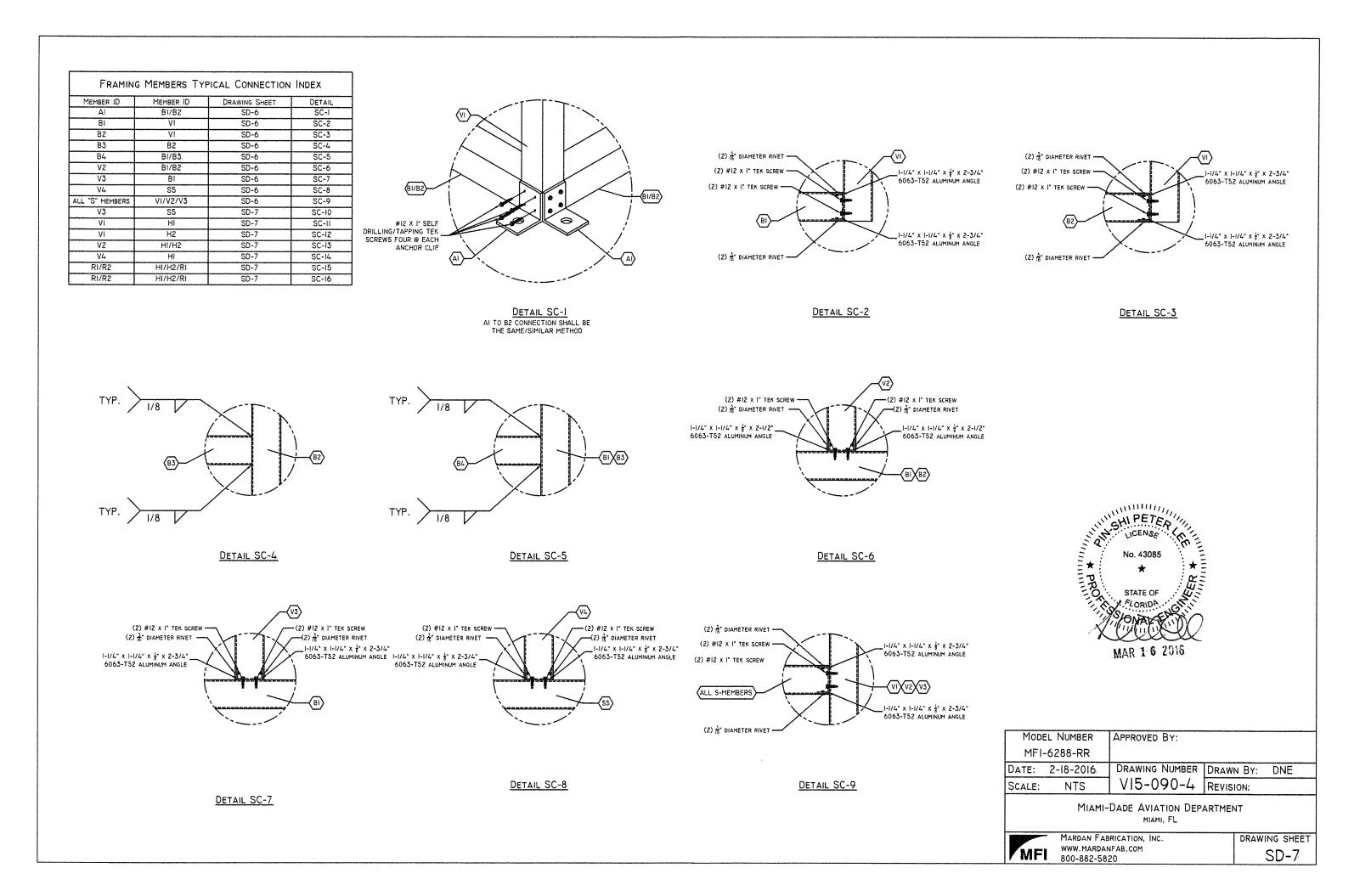


BASE FRAMING

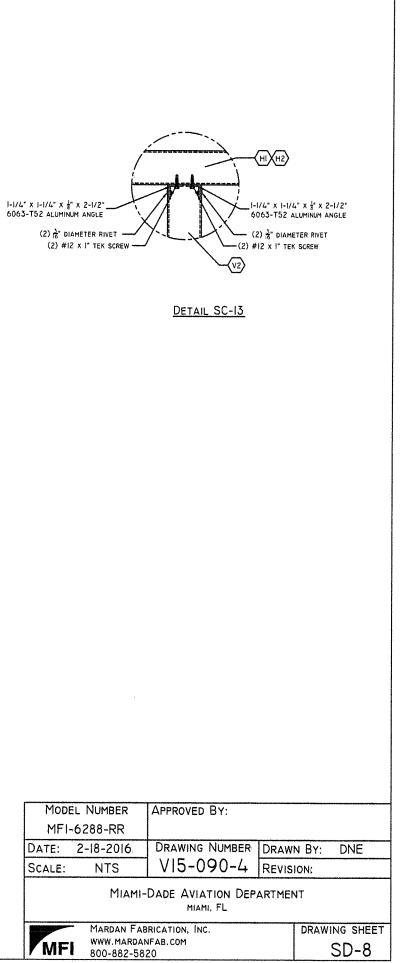


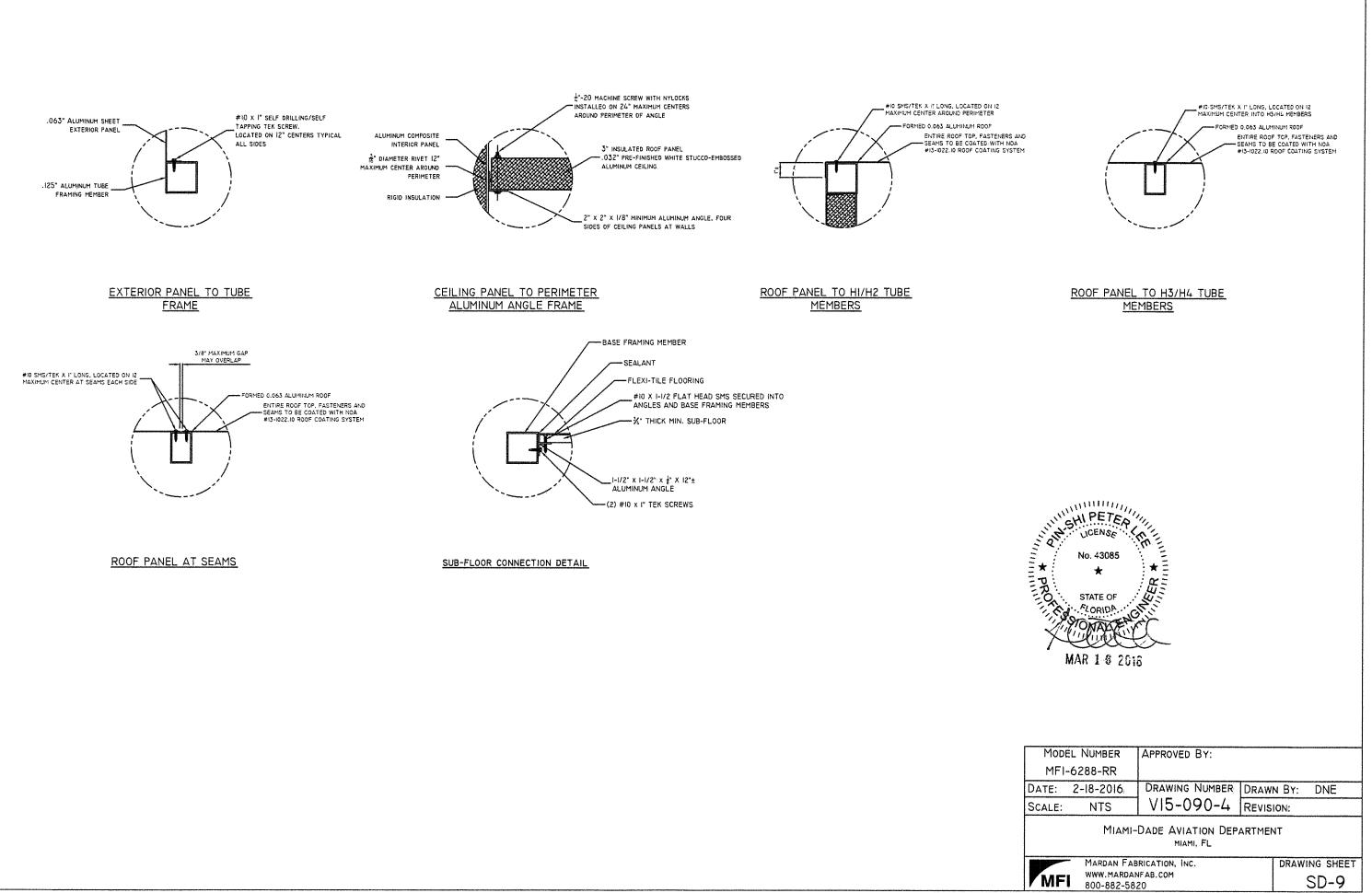


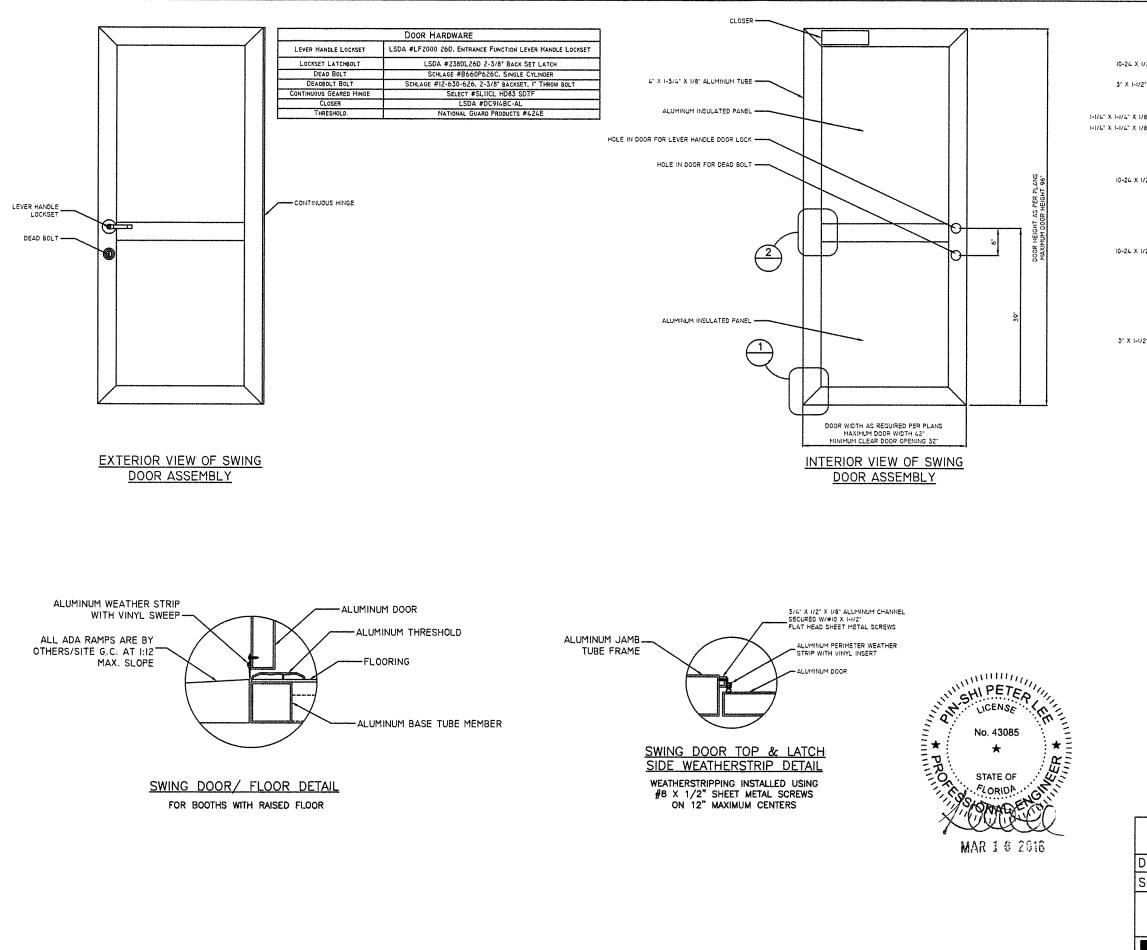
MODEL NUMBER		APPROVED BY:				
MFI	-6288-RR					
DATE:	2-18-2016	DRAWING NUMBER	DRAWN BY: DNE			
SCALE:	NTS	V15-090-4 REVISION;				
	MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL					
		RICATION, INC.	DRAWING SHEET			
MFI WWW.MARDANFAB.COM 800-882-5820			SD-6			



(2) 👌 DIAMETER RIVET (2) 着 DIAMETER RIVET \_1-1/4" x 1-1/4" x 1/4" x 2-3/4" 6063-T52 aluminum angle \_1-1/4" x 1-1/4" x <del>1</del>" x 2-3/4" 6063-T52 aluminum angle (HI) (+12)-1-1/4" x 1-1/4" x 🗄 x 2-3/4".... 6063-T52 aluminum angle \_1-1/4" x 1-1/4" x 1 x 2-3/4" (2) #12 X I" TEK SCREW -(2) #12 X I" TEK SCREW 6063-T52 ALUMINUM ANGLE .|-|/4" x |-|/4" x ∦" x 2-3/4" 1-1/4" x 1-1/4" x 1" x 2-3/4" (2) #12 x 1" TEK SCREW ---6063-T52 ALUMINUM ANGLE (2) #12 X I" TEK SCREW 6063-T52 ALUMINUM ANGLE (2) 춚\* DIAMETER RIVET (2) 音" DIAMETER RIVET (2) 츕" DIAMETER RIVET - $\langle v i \rangle$  $\langle v i \rangle$ (2) 🚠 DIAMETER RIVET (2) #12 X I" TEK SCREW --------- (2) #12 x I" TEK SCREW (V3) DETAIL SC-10 DETAIL SC-II DETAIL SC-12 (2) #12 x 1" TEK SCREW ---1-1/4" x 1-1/4" x 🛓 x 3" TYP. 6063-T52 ALUMINUM ANGLE 1/8 (2) #12 X I" TEK SCREW HI XH2 (RI) RIXR2> 1-1/4" x 1-1/4" x 1/8" x 2-3/4", 6063-T52 aluminum angle \_1-1/4" x 1-1/4" x \$" x 2-3/4" 6063-T52 aluminum angle (2) #12 x 1" TEK SCREW (2) 👌 DIAMETER RIVET - (2) 🖧 DIAMETER RIVET (2) #12 X I" TEK SCREW ------(2) #12 x 1" TEK SCREW I-1/4" x I-1/4" x ∦" × 3"..... 6063-T52 ALUMINUM ANGLE TYP.  $(\nabla 4)$ 1/8 (2) #12 x 1" TEK SCREW ----DETAIL SC-16 ALTERNATE CONNECTION DETAIL SC-14 DETAIL SC-15 No. 43 FLORIDA MAR 1 6 2016







X 1/2" S.S. FLAT HEAD SMS					
-1/2" X 1/8" ALUMINUM TUBE			X 176° ALUMINUM TUBE		
( 1/8" X 1-1/2" ALUM, ANGLE		=#10 X I"T	EK SCREWS		
( 1/8" X 1-1/2" ALUM. ANGLE					
X 1/2" S.S. FLAT HEAD SMS					
-	IDPOINT CONNECTION DETAIL				
X 1/2" S.S. FLAT HEAD SMS		- 3° X 3° X I	X 1/8" ALUMINUM TUBE /8" X 1-1/2" ALUM, ANGLE /4" X 1-1/2" ALUM, ANGLE		
1-1/2" X 1/8" ALUMINUM TUBE					
~			1/2" S.S. FLAT HEAD SMS		
$\left(\begin{array}{c}1\\ \end{array}\right)^{\underline{c}}$	ORNER CONNECTION DETAIL				
$\smile$					
MODEL NUMBER	APPROVED BY:				
MF1-6288-RR					
DATE: 2-18-2016	DRAWING NUMBER	DRAW	N BY: DNE		
SCALE: NTS	VI5-090-4	Revis			
MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL					
MARDAN FABRICATION, INC. DRAWING SHEET					
WWW.MARDAN	FAB.COM				
<b>/ WIFI</b> 800-882-58	20		SD-10		

# T. R. ARNOLD & ASSOCIATES, INC.

an employee owned company third party inspection agency

March 7, 2016

Mr. Jim Richmond Florida Department of Business & Professional Regulation Manufactured Buildings Program 1940 North Monroe Street, Suite 90A Tallahassee, FL 32399-0772

RE: Mardan Fabrication, Inc. Approvals: MFI-60120-SL2; V15-073

Dear. Mr. Richmond:

Enclosed please find one (1) set of documents for the above noted model. TRA hereby certifies that it has examined the building plan and other documents submitted by the manufacturer for certification and found them to be in compliance with the following codes:

2014 FLORIDA BUILDING CODE 2014 FLORIDA MECHANICAL CODE 2014 FLORIDA PLUMBING CODE 2011 NATIONAL ELECTRICAL CODE 2014 FLORIDA ENERGY CONSERVATION CODE 2014 FLORIDA FUEL GAS CODE

If you have any questions concerning this submission, please feel free to contact this office at any time. Additionally, a hard copy of these plans with the required engineer's seal is on file at T.R. Arnold & Associates, Inc.

Sincerely, T.R. ARNOLD & ASSOCIATES, INC.

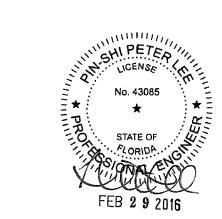
Daren Lehman Director of Technical Services

DL/jz

cc: Dennis Eisenhardt File 6240; work order #16-0914

	PROJECT LOCATION	SITE WORK	BUILDING ENVELOPE INFORMATION:
Projection       Display         Automa       Displ	Aviation Department	SITE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND/OR INSTALLING THE	ACTUAL INSULATION R-VALUE: 16.7
INCUSTRIAL CEED BUILDING DATA         MEMOUSTRIAL CEED BUILDING DATA         ME	APPLICABLE MAJOR CODES           CATEGORY         CODE         YEAR           BUILDING         FLORIDA BUILDING CODE         2014           ENERGY         FLORIDA BUILDING CODE         2014           MECHANICAL         FLORIDA STATE MECHANICAL CODE         2014           PLUMBING         FLORIDA STATE PLUMBING CODE         2014           FUEL GAS         FLORIDA STATE FUEL GAS CODE         2014	THIS SHEET. 1. EGRESS LIGHTING FIXTURE 2. ACCESSIBLE ACCESS TO BUILDING 3. ANCHORS 4. FOUNDATION 5. RISER, METERING DEVICE(S), WIRING CONNECTION TO LOAD CENTER	ACTUAL INSULATION R-VALUE: 18.5  FLOOR: ACTUAL INSULATION R-VALUE: N/A  DOOR(S)  R-VALUE: 5.21
MODE     MEI-BOJ20-SL2       And Balan State     EVEX 1287       And State     EVEX 1287       And State     EVEX 1287       And Balan State     EVEX 1287       And State     EVEX 1287	INDUSTRIALIZED BUILDING DATA	GENERAL NOTES	
Optimization Trige       V-8         Bedieved Sease       120/200 Web, IP Passe         DESIGN LOADS       100/200 Web, IP Passe         Box Construction Trige       00/200 Web, IP Passe         Word Importance Addard       10         Box Construction Trige       10         <	Actual Building Size     6'-0" X 12'-0"       Estimated Weight     See Data Plate       Building Square Footage     72       Occupant Load     100 SQ. FT./OCCUPANT = 1	WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE. NATURAL VENTILATION IS PROVIDED BY OPERABLE WINDOWS AND/OR DOORS.	
Insol Design Lise load       20 55°         Design Lise load       20 50°         Design Lise load       20 50°         Design Lise load       20 50°         Wind Importance Fedds       1.0         Distance FROM THE PROPERTY LINE OR HALF THE DISTANCE TO ANY OTHER STIMUCTURE.       The Format Reserve Load Line Line Fedds         Distance FROM THE PROPERTY LINE OR HALF THE DISTANCE TO ANY OTHER STIMUCTURE.       THE FORMATION SLAB DESIGN IS REQUIRED TO BE DESIGNED BY A PROPERTY LINE OF ANY OTHER STIMUCTURE.         The markets the regionaments of the (2014) Rends Building Load, 50 Edition meddancy set Outs 30, 2015.       THE STITINUUSIER WILL BE INSTALED ADONE FLICO NHAZAD ELEVATION.         The building is not designed to be located in a Wind-home Debris Region or High wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind spect V is 130 MM or greater; or is ansis where the ultimate design wind s	Construction Type V-B Electric Class 120/208 Volt, 1 Phase	FACILITIES MUST BE ADEQUATE TO ACCOMMODATE BOTH ADJACENT BUILDING AND THIS BUILDINGS OCCUPANT LOAD. THIS FACILITY MUST BE LOCATED WITHIN 500	
Internal Pressure Coefficients       4-0.8, -0.18         Components and Clocking       4-0.0 Winkwind, -54 Leavard         Image: Components and Clocking       4-0.0 Winkwind, -54 Leavard         Image: Components and Clocking       4-0.0 Winkwind, -54 Leavard         Image: Components and Clocking       6-0.0 Not (2014) Ronds Building Code, 550 Edition         Image: Components and Clocking       6-0.0 Not (2014) Ronds Building Code, 550 Edition         Image: Components and Clocking       6-0.0 Not (2014) Ronds Building Code, 550 Edition         Image: Components and Clocking       6-0.0 Not (2014) Ronds Building Code, 550 Edition         Image: Components and Clocking       File building is designed to be located in a Wind-borne Debris Region or High Velocking Humiteane Zine, Components and Clocking         Image: Components and Clocking       Image: Components and Clocking         Image: Components and Clocking       Image: Components and Clocking         Image: Components and Clocking       Register Cline	Roof Design Live Load         30 PSF           Design Wind Speed & Exposure         Vult=175 MPH - Vasd=139, Exposure: C           Wind Importance Factor         1.0	DISTANCE FROM THE PROPERTY LINE OR HALF THE DISTANCE TO ANY OTHER STRUCTURE.	
This unit mask and county with use 6120-3.006 (Product Approval).     A set of plans with the engineers seal is on file in the third party agency's office as     directed by DBR.     directed b		ENGINEER.	
madatory as of June 30, 2015.       These plans comply with rule 61520-3006 (Product Approval).         A set of plans with the engineers seal is on file in the third party agency's office as directed by DPR.       GLAZING MAKE UP         Imposed to be located in a Wind-borne Debris Region or High witch years and water line where the ultimate design wind speed Vu is 130 MPH or greater.       GLAZING MAKE UP         Imposed Within 1 mile of the costal mean water line where the ultimate design wind speed Vu is 130 MPH or greater.       This building is designed to be located in a Wind-borne Debris Region or High wind speed Vu is 130 MPH or greater.       Immon 510° Laminute - 10° Claer - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer -10° Claer Mainton BPG User - 0.075° Slom/Glass <sup>TM</sup> Intellayer - 10° Claer			
A set of plans with the engineers seal is on file in the third party agency's office as         Image: Control of the building is not designed to be located in a Wind-borne Debris Region or High velocity Hurricane Zone .         Image: Control of the building is designed to be located in a Wind-borne Debris Region .         Image: Control of the building is designed to be located in a Wind-borne Debris Region .         Image: Control of the building is designed to be located in a Wind-borne Debris Region .         Image: Control of the building is designed to the costal mean water line where the ultimate design wind speed V vi is 130 MPH or greater, or in areas where the ultimate design wind speed V vi is 130 MPH or greater, or in areas where the ultimate design wind speed V vi is 130 MPH or greater, or in areas where the ultimate design wind speed V vi is 140 MPH or greater, or in areas where the ultimate design wind speed V vi is 140 MPH or greater, or in areas where the ultimate design wind speed V vi is 140 MPH or greater, or in areas where the ultimate design wind speed V vi is 140 MPH or greater, or in areas where the ultimate design wind speed V vi is 140 MPH or greater, or in areas and reoffing materials have been received, reviewed, and accepted as approved for use in Florida.         Florida evaluation reports for the windows, doors, mechanical covers and rooffing materials have been received, reviewed, and accepted as approved for use in Florida.         It is maintained in the Manufacturer's Quality Assurance Manual.         A copy of the Florida Evaluation Reports and Installation Instructions may be obtained upon request from Mardan.         The Deal Plate, State Insignial/Label, and Third Party Inspection Insignia shall be incate on an	mandatory as of June 30, 2015.		
Idirected by DBPR.       Description         Image: Discription       Description         Image: Discription       Extense: List in the other designed to be located in a Wind-borne Debris Region.         Image: Discription       Description         Image: Discription       Discription         Image: Discription       Description         Image: Discription       Discription         Image: Discription			
Image: State Insignia/Label, and Third Party Inspection Insignia shall be located in a Wind-borne Debris Region or High State Insignia/Label, and Third Party Inspection Insignia shall be located with I Careful State Insignia/Label, and Third Party Inspection Insignia shall be located with I Careful State Insignia/Label, and Third Party Inspection Insignia shall be located in a Mind-borne Debris Region or High State Insignia/Label, and Third Party Inspection Insignia shall be located in a Wind-borne Debris Region or High State Insignia/Label, and Third Party Inspection Insignia shall be located in a Wind-borne Debris Region or High State Insignia/Label, and Third Party Inspection Insignia shall be located with I Careful Approval Number Expires         Image: State Insignia/Label, and Third Party Inspection Insignia shall be located in an interfor wall panel, near to or adjacent to the electrical load center.       Image: State Insignia/Label, and Third Party Inspection Insignia shall be located in Panels         Image: State Insignia/Label, and Third Party Inspection Insignia shall be located in an interfor wall panel, near to or adjacent to the electrical load center.       Image: State Insignia/Label, and Third Party Inspection Insignia shall be located on an interfor wall panel, near to or adjacent to the electrical load center.       Image: State Insignia/Label, and Third Party Inspection Insignia shall be located on an interfor wall panel, near to or adjacent to the electrical load center.			
This building is designed to be located in a Wind-borne Debris Region. Located within 1 mile of the costal mean water line where the ultimate design wind speed V as is 130 MPH or greater; or in areas where the ultimate design wind speed V as is 140 MPH or greater. Inis building is designed to meet all High Velocity Hurricane Zone requirements. Located in Miami-Dade or Broward Counties. ONLY ONE BOX MAY BE CHECKED AND ONLY CHECKED BOX IS APPLICABLE. Florida evaluation reports for the windows, doors, mechanical covers and roofing materials have been received, reviewed, and accepted as approved for use in Plorida. It is maintained in the Manufacturer's Quality Assurance Manual. A copy of the Florida Evaluation Reports and Installation Instructions may be obtained upon request from Mardan. The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center. Product Approval Number Expires		1/4" Tempered with Low-E #2 Air Space	
wind speed V vie is 130 MPH or greater; or in areas where the ultimate design wind speed V vie is 140 MPH or greater.       Minimum 9/16* Laminabe - 1/8* Clear - 0.075* StormGleas T <sup>M</sup> Interfayer - 1/8* Clear         Image: This building is designed to meet all High Velocity Hurricane Zone requirements. Located in Miamim-Dade or Broward Counties.       Frastners used in the construction of this model may be made from aluminum, stainless steel or be made of steel and double cadmium plated, hot dipped galvanized or elecro-galvanized (zinc plated).         Rivets are made of aluminum or Stainless Steel.       Rivets are made of aluminum or Stainless Steel.         Rivets are made of aluminum or Stainless Steel.       Machine Screws, Bolts, Washers, and Nuts shall be made stainless steel or shall be electro-galvanized (zinc plated).         Rivets are made of aluminum or Stainless Steel.       Machine Screws, Bolts, Washers, and Nuts shall be made stainless steel or shall be electro-galvanized (zinc plated).         Rivets are made of aluminum or Stainless Steel.       Screws and Self Drilling Screws shall be made stainless steel or shall be electro-galvanized (zinc plated) steel.         The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center.       Components used in construction of this model that have State of Florida Product Approval Number Expires         Product       Approval Number Expires       Expires	This building is designed to be located in a Wind-borne Debris Region .		
Located in Miami-Dade or Broward Counties.         ONLY ONE BOX MAY BE CHECKED AND ONLY CHECKED BOX IS APPLICABLE.         Florida evaluation reports for the windows, doors, mechanical covers and roofing materials have been received, reviewed, and accepted as approved for use in Florida.         It is maintained in the Manufacturer's Quality Assurance Manual.         A copy of the Florida Evaluation Reports and Installation Instructions may be obtained upon request from Mardan.         The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an Interior wall panel, near to or adjacent to the electrical load center.         The Data Plate, State Insignia/Label, near to or adjacent to the electrical load center.	wind speed Vut is 130 MPH or greater; or in areas where the ultimate design wind speed Vut is 140 MPH or greater.		
Horda evaluation reports for the Windows, doors, mechanical covers and rooring materials have been received, reviewed, and accepted as approved for use in Florida.       Machine Screws, Bolts, Washers, and Nuts shall be made stainless steel or shall be electro-galvanized (zinc plated) steel.         It is maintained in the Manufacturer's Quality Assurance Manual.       Screws and Self Drilling Screws shall be made stainless steel or shall be electro-galvanized (zinc plated) steel.         A copy of the Florida Evaluation Reports and Installation Instructions may be obtained upon request from Mardan.       Screws and Self Drilling Screws shall be made stainless steel or shall be electro-galvanized (zinc plated) steel.         Components used in construction of this model that have State of Florida Product Approval and/or Miami-Dade Notice of Acceptance:       Product Approval Number         Product       Approval Number       Expires         Celling Panels       FL - #7561	Located in Miami-Dade or Broward Counties.	stainless steel or be made of steel and double cadmium plated, hot dipped	
A copy of the Florida Evaluation Reports and Installation Instructions may be obtained upon request from Mardan. The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center. The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center. The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center. The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center. The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center. The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center. The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center. The Data Plate Instruction of this model that have State of Florida Product Approval and/or Miami-Dade Notice of Acceptance: Product Approval Number Expires Celling Panels FL - #7561	materials have been received, reviewed, and accepted as approved for use in	Machine Screws, Bolts, Washers, and Nuts shall be made stainless steel or shall be	
The Data Plate, State Insignia/Label, and Third Party Inspection Insignia shall be located on an interior wall panel, near to or adjacent to the electrical load center.       Approval and/or Miami-Dade Notice of Acceptance:         Product       Approval Number       Expires         Ceiling Panels       FL - #7561	A copy of the Florida Evaluation Reports and Installation Instructions may be		
		Approval and/or Miami-Dade Notice of Acceptance:           Product         Approval Number         Expires	
Exterior Panels and Roof aluminum sheet thickness shall meet or exceed Roof Coating System NOA - #13-1022.10 12/11/2018 requirements of Section 20 of the Florida Building Code. Aluminum sheet shall not be less than 0.032 Inch in thickness. NOA - #11-0726.03 09/22/2016		Ceiling Panels         FL - #7561           Roof Coating System         NOA - #13-1022.10         12/11/2018	
All dimensions shown shall have a tolerance of +/- 1/4".	All dimensions shown shall have a tolerance of +/- 1/4".		

	DRAWING SHEET INDEX	******
	DRAWING SHEET INDEX	
ET	DESCRIPTION	
	COVER SHEET AND DRAWING INDEX	
2	DATA PLATES	
	PLAN VIEW, FOOTPRINT AND ELECTRICAL VIEW	
	ELEVATIONS	
	ANCHOR DETAIL, SECTION AND WINDOW DETAIL	
	CIRCUIT BREAKER SCHEDULE AND ELECTRICAL RISER	
	FRAMING MEMBER LAYOUT AND SCHEDULE	
,	FRAMING CONNECTION DETAILS	
	FRAMING CONNECTION DETAILS	
	SLIDING DOOR DETAILS	



Mod	EL NUMBER	APPROVED BY:			
MFI-	60120-SL2				
DATE: 2-17-2016 DRAWING NUMBER DRAWN BY: DNE					
SCALE: NTS V15-080-9 REVISION: 2-24-2016					
MIAMI-DADE AVIATION DEPARTMENT					

miami, FL



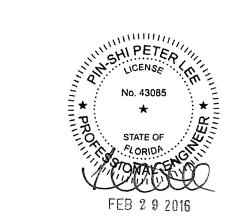
MARDAN FABRICATION, INC. WWW.MARDANFAB.COM 800-882-5820 DRAWING SHEET CV-I

and Exposite         Ground Snow Load         Exterior Wall Fire Rating         Winter Deisgn Temp.: Inside       V/R         Ue:       Ceiling         0.0600       Wall         0.054       F         THIS MANUFACTURED STRUCTURE HAS BEEL         IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE         INTERNATIONAL MECHANICAL CODE         INTERNATIONAL PLUMBING CODE	E	equipme		ORY INSTALLED EQUIP MANUFACTURER	MENT	
City, State, Zip       Harrison Township, MI 48045         LISTED INDUSTRIALIZED BUILDING         Model       MFI-60120-SL2         Occupancy Classification       B       Const. Class         Manufacturer's Serial No(s)       B       Const. Class         Date of Manufacture       Plan Approval No.         Date Data Plate Attached       Permissible Gas Types(s)       N/A         Electrical Rating       120/208 Volt, Single I         Test Voltage/Time       1080 Volts/1 Secon         Water Supply: Test Procedure       N/A         Floor Design Live Load       50 PSF         Ground Snow Load       0 PSF         Exterior Wall Fire Rating       N/R         Winter Deisgn Temp: Inside		_	Heating	General Electric	AZ61H12D	
LISTED INDUSTRIALIZED BUILDING         Model       MFI-60120-SL2         Occupancy Classification       B       Const. Class         Manufacturer's Serial No(s)       Date of Manufacture       Plan Approval No.         Date Data Plate Attached       Permissible Gas Types(s)       N/A         Electrical Rating       120/208 Volt, Single I         Test Voltage/Time       1080 Volts/1 Secon         Water Supply: Test Procedure       N/A         Floor Design Live Load       50 PSF         Ground Snow Load       0 PSF         Exterior Wall Fire Rating       N/R         Winter Deisgn Temp: Inside       +70° F         Un:       Ceiling       0.0600         Water Supply:       Instructure Structure HAS BEEL         IN CONFORMANCE WITH THE FOLLOWING CO       2011         NATIONAL ELECTRICAL CODE *       INTERNATIONAL BUILDING CODE         INTERNATIONAL BUILDING CODE       INTERNATIONAL PLUMBING CODE         INTERNATIONAL ENERGY CONSERVATING       INTERNATIONAL ENERGY CONSERVATING		- (	Cooling	General Electric	AZ61H12D	
Model       MFI-60120-SL2         Occupancy Classification       B       Const. Class         Manufacturer's Serial No(s)       Plan Approval No.         Date of Manufacture       Plan Approval No.         Date Data Plate Attached	City, State, Zip Harrison Township, MI 48045					
Occupancy Classification       B       Const. Class         Manufacturer's Serial No(s)						
Manufacturer's Serial No(s)       Plan Approval No.         Date of Manufacture       Plan Approval No.         Date Data Plate Attached		7	-			
Date of Manufacture       Plan Approval No.         Date Data Plate Attached	VB	1	-			
Date Data Plate Attached         Permissible Gas Types(s)         Electrical Rating         Test Voltage/Time         I20/208 Volt, Single I         Water Supply: Test Procedure         Floor Design Live Load         Ground Snow Load         Exterior Wall Fire Rating         Winter Deisgn Temp: Inside         U0:       Ceiling         N/R         Seismic Design Temp: Inside         U0:       Ceiling         0.0600       Wall         0.054         F         Outside         U0:       Ceiling         N/R         Seismic Design Temp: Inside         U0:       Ceiling         0.0600       Wall         0.054       F         THIS MANUFACTURED STRUCTURE HAS BEELIN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE         INTERNATIONAL MECHANICAL CODE         INTERNATIONAL PLUMBING CODE         INTERNATIONAL ENERGY CONSERVATIONAL         INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL FUEL GAS CODE						
Permissible Gas Types(s)       N/A         Electrical Rating       120/208 Volt, Single I         Test Voltage/Time       1080 Volts/1 Secon         Water Supply: Test Procedure       N/A         Floor Design Live Load       50 PSF         Ground Snow Load       0 PSF         Exterior Wall Fire Rating       N/R         Winter Deisgn Temp.: Inside       +70° F         U0:       Ceiling         0.0600       Wall         0.054       F         THIS MANUFACTURED STRUCTURE HAS BEEI         IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE         INTERNATIONAL PLUMBING CODE         INTERNATIONAL ENERGY CONSERVATIONAL ENERGY CONS	<u> </u>					
Electrical Rating       120/208 Volt, Single I         Test Voltage/Time       1080 Volts/1 Second         Water Supply: Test Procedure       N/A         Floor Design Live Load       50 PSF         Ground Snow Load       0 PSF         Exterior Wall Fire Rating       N/R         Winter Deisgn Temp: Inside       470° F         U0:       Ceiling         0.0600       Wall         0.054       F         THIS MANUFACTURED STRUCTURE HAS BEEI         IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE         INTERNATIONAL PLUMBING CODE         INTERNATIONAL ENERGY CONSERVATIONAL         INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL FUEL GAS CODE	L	┨ ────	-			
Test Voltage/Time       1080 Volts/1 Secon         Water Supply: Test Procedure       N/A         Floor Design Live Load       50 PSF       and Exposure         Ground Snow Load       0 PSF       Color Design Live         Exterior Wall Fire Rating       N/R       Seismic Design         Winter Deisgn Temp.: Inside       0.0600       Wall       0.054         Uo:       Ceiling       0.0600       Wall       0.054         THIS MANUFACTURED STRUCTURE HAS BEEI       IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE       INTERNATIONAL MECHANICAL CODE         INTERNATIONAL PLUMBING CODE       INTERNATIONAL PLUMBING CODE         INTERNATIONAL RESIDENTIAL CODE       INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL RESIDENTIAL CODE       INTERNATIONAL RESIDENTIAL CODE						
Water Supply: Test Procedure Floor Design Live Load Ground Snow Load       N/A         Starting       50 PSF       Design Wind Speed and Exposure 0 PSF       Load         Exterior Wall Fire Rating Winter Design Temp.: Inside U0:       N/R       Seismic Design Category         Winter Design Temp.: Inside U0:       +70° F       Outside         U0:       Ceiling       0.0600       Wall       0.054       F         IN CONFORMANCE WITH THE FOLLOWING CO       IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE       INTERNATIONAL MECHANICAL CODE         INTERNATIONAL PLUMBING CODE       INTERNATIONAL ENERGY CONSERVATIONAL INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL RESIDENTIAL CODE       INTERNATIONAL RESIDENTIAL CODE	Phase		-			
Floor Design Live Load       50 PSF       Design Wind Speed and Exposure         Ground Snow Load       0 PSF       Roof Design Live Load         Exterior Wall Fire Rating       N/R       Seismic Design         Winter Deisgn Temp.: Inside       0.0600       Wall       0.054         Uo:       Ceiling       0.0600       Wall       0.054         THIS MANUFACTURED STRUCTURE HAS BEEI IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE         INTERNATIONAL PLUMBING CODE         INTERNATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIO	ıd		ŀ			
Floor Design Live Load       50 PSF       and Exposure         Ground Snow Load       0 PSF       Roof Design Live         Exterior Wall Fire Rating       N/R       Seismic Design         Winter Deisgn Temp.: Inside       +70° F       Outside         U0:       Ceiling       0.0600       Wall       0.054       F         THIS MANUFACTURED STRUCTURE HAS BEEL       IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE       INTERNATIONAL MECHANICAL CODE         INTERNATIONAL PLUMBING CODE       INTERNATIONAL ENERGY CONSERVATION         INTERNATIONAL RESIDENTIAL CODE       INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL RESIDENTIAL CODE       INTERNATIONAL FUEL GAS CODE						
Exterior Wall Fire Rating       N/R       Seismic Design Category         Winter Deisgn Temp.: Inside       +70° F       Outside         U0:       Ceiling       0.0600       Wall       0.054       F         THIS MANUFACTURED STRUCTURE HAS BEEI IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE ®         INTERNATIONAL BUILDING CODE         INTERNATIONAL MECHANICAL CODE         INTERNATIONAL PLUMBING CODE         INTERNATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIONAL RESIDENTIAL CODE         INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL FUEL GAS CODE	175 MPH-Exp:C	Shipping W	eight(s)	5,000 Pc	ounds	
Exterior wait Pire Rating       N/R       Category         Winter Deisgn Temp.: Inside       +70° F       Outside         Uo:       Ceiling       0.0600       Wall       0.054       F         THIS MANUFACTURED STRUCTURE HAS BEEL       IN CONFORMANCE WITH THE FOLLOWING CO         2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE       INTERNATIONAL MECHANICAL CODE         INTERNATIONAL PLUMBING CODE       INTERNATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIONAL RESIDENTIAL CODE         INTERNATIONAL RESIDENTIAL CODE       INTERNATIONAL FUEL GAS CODE	O DEE Roof Design Live 30 DEE		el No(s).		······································	
U0:       Ceiling       0.0600       Wall       0.054       F         In conformance with the following conformance with the following conformance with the following conformance with the following conformation of the following confore	Α		· · · · -			
2011       NATIONAL ELECTRICAL CODE *         INTERNATIONAL BUILDING CODE       INTERNATIONAL BUILDING CODE         INTERNATIONAL PLUMBING CODE       INTERNATIONAL PLUMBING CODE         INTERNATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIONAL RESIDENTIAL CODE       INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL FUEL GAS CODE       INTERNATIONAL FUEL GAS CODE	+6° F		ΥL			
2011         NATIONAL ELECTRICAL CODE®           INTERNATIONAL BUILDING CODE         INTERNATIONAL BUILDING CODE           INTERNATIONAL MECHANICAL CODE         INTERNATIONAL PLUMBING CODE           INTERNATIONAL PLUMBING CODE         INTERNATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIONAL RESIDENTIAL CODE           INTERNATIONAL RESIDENTIAL CODE         INTERNATIONAL FUEL GAS CODE	loor N/A			struction with this building. F s are subject to inspection by l		
INTERNATIONAL ELECTRICAL CODE INTERNATIONAL BUILDING CODE INTERNATIONAL MECHANICAL CODE INTERNATIONAL PLUMBING CODE INTERNATIONAL ENERGY CONSERVATION INTERNATIONAL RESIDENTIAL CODE INTERNATIONAL FUEL GAS CODE		CTED		ORIDA DATA PL		
INTERNATIONAL MECHANICAL CODE INTERNATIONAL PLUMBING CODE INTERNATIONAL ENERGY CONSERVATIONI INTERNATIONAL RESIDENTIAL CODE INTERNATIONAL FUEL GAS CODE			Date	of Alteration N/A		
INTERNATIONAL PLUMBING CODE INTERNATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIONAL RESIDENTIAL CODE INTERNATIONAL FUEL GAS CODE			Num	ber of Modules <u>1</u>		
INTERNATIONAL ENERGY CONSERVATIONAL ENERGY CONSERVATIONAL RESIDENTIAL CODE					Design Occupant Load 1	
INTERNATIONAL RESIDENTIAL CODE				Agency Plan Number MFI-60120-SL2		
INTERNATIONAL FUEL GAS CODE				Floor Dead Load 5 PSF		
INTERNATIONAL FIRE CODE	INTERNATIONAL FUEL GAS CODE			Roof Dead Load 5 PSF		
		Limitation of plan approval NONE				
			║	•••••		
UNIFORM BUILDING CODE			Is au	tomatic sprinkler system re	equired (if provided) N	
UNIFORM MECHANICAL CODE				ial stipulations and conditi		
NATIONAL STANDARD PLUMBING CODE			NONE	terne servering Perin		

FLORIDA BUILDING CODE - 5TH EDITION (2014) BUILDING FLORIDA BUILDING CODE - 5TH EDITION (2014) MECHANICAL FLORIDA BUILDING CODE - 5TH EDITION (2014) PLUMBING

FLORIDA BUILDING CODE - 5TH EDITION (2014) FUEL GAS FLORIDA BUILDING CODE - 5TH EDITION (2014) ACCESSIBILITY

FLORIDA BUILDING CODE - 5TH EDITION (2014) ENERGY CONSERVATION

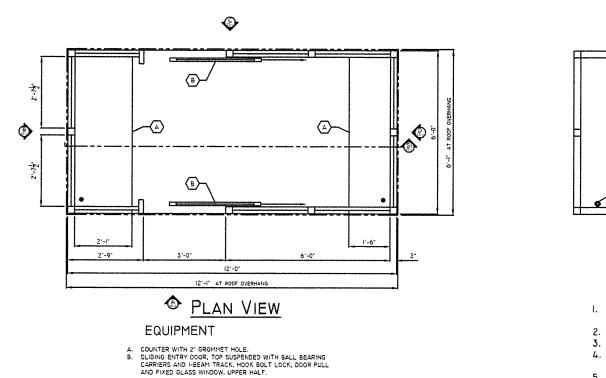


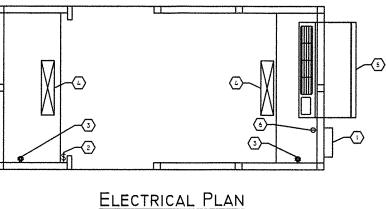
	MIAMI, FL	
	MARDAN FABRICATION, INC.	DRAWING SHEET
MFI	WWW.MARDANFAB.COM 800-882-5820	CV-2

	60120-SL2	APPROVED BY:				
DATE:	2-17-2016		DRAWN BY: DNE			
SCALE:	NTS	VI5-080-9	REVISION: 2-24-2016			
MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL						

	COUNTER	WHITE PLASTIC LAMINATE
	SAFETY GLAZIN	INSULATED, LOW-E COATING IG #2 SURFACE WITH IMPACT RESISTANT GLASS
MODEL NUMBER	APPROVED BY:	*******
MF1-60120-SL2		
DATE: 2-17-2016	DRAWING NUMBER	DRAWN BY: DNE

FINISH SCHEDULE		
ITEM DESCRIPTION		
FLOOR BLACK PVC FLEXI-TILE		
CANDPY WHITE		
WALLS WHITE		
Ceiling White		
COUNTER	WHITE PLASTIC LAMINATE	





# ELECTRICAL NOTES

- NEMA 3-R 120/208 VOLT, SINGLE PHASE, 125 AMP RATED, 8-CIRCUIT LOAD CENTER MAIN LUG ONLY.
- LIGHT SWITCH FOR INTERIOR LIGHTS.
- 120 VOLT, 20 AMP DOUBLE DUPLEX RECEPTACLES, TWO REQUIRED. CEILING SURFACE MOUNTED, I LAMP 14 WATT T-5, FLUORESCENT
- LIGHT FIXTURE.
- WALL MOUNTED HEAT PUMP UNIT WITH RELIABLE IMPACT 5. RESISTANT LOUVER (NOA#11:0726.03)
- 6. 208 VOLT, 20 AMP SINGLE RECEPTACLE FOR HEAT PUMP UNIT.
- ALL ELECTRICAL COMPONENTS TO BE U.L. LISTED.
- ALL WIRING PER N.E.C. STANDARD. •
- ALL FACTORY INSTALLED WIRING TO BE #12 MINIMUM THHN • ENCLOSED IN METALLIC RACEWAY.
- ALL BRANCH CIRCUITS HAVE GREEN GROUND CONDUCTOR.

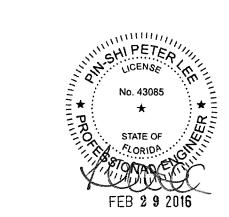
NOTE ACTUAL LOCATION OF ELECTRICAL DEVICE MAY VARY DUE TO INSTALLATION CONSTRAINTS OR FOR PROPER PLACEMENT AS PER APPLICABLE CODES

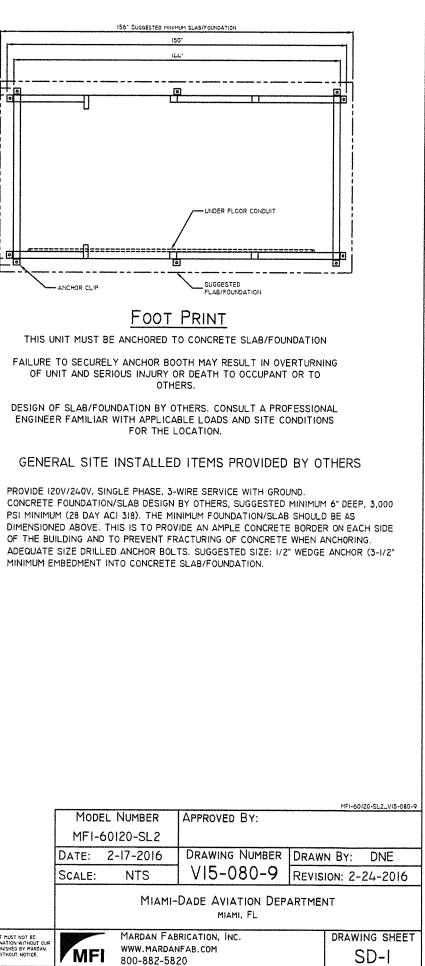


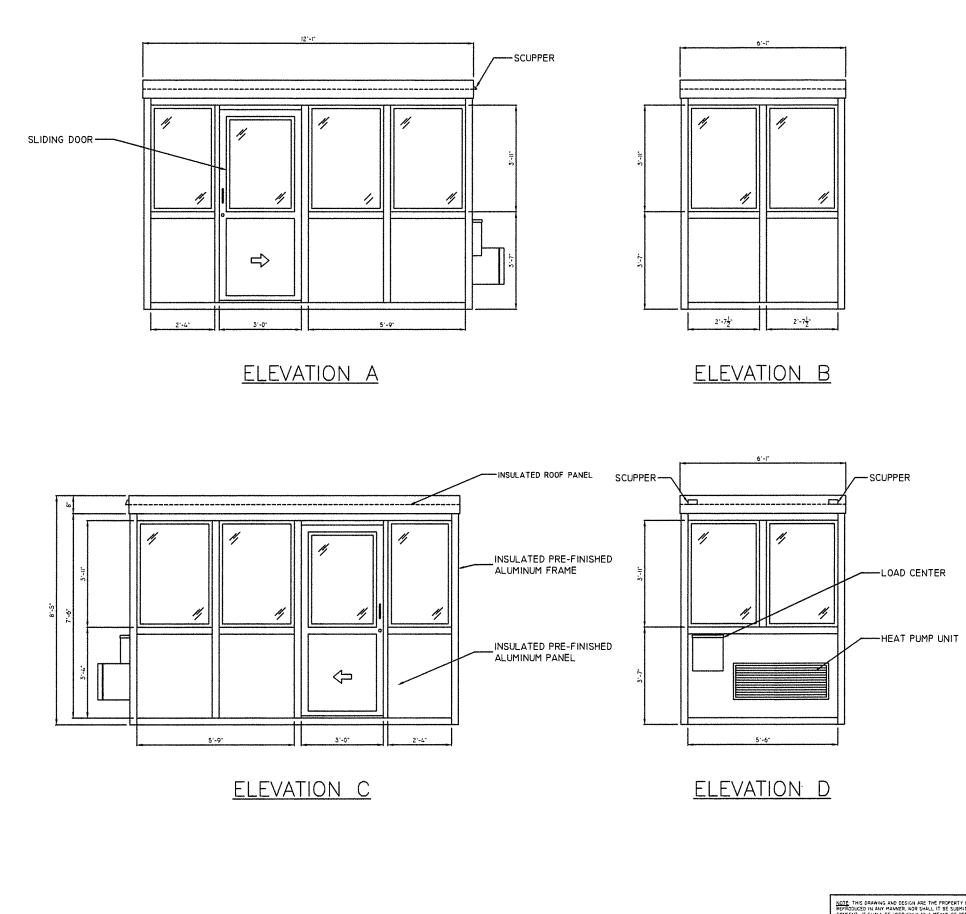
1.

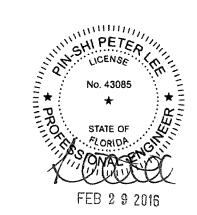
2.

3.

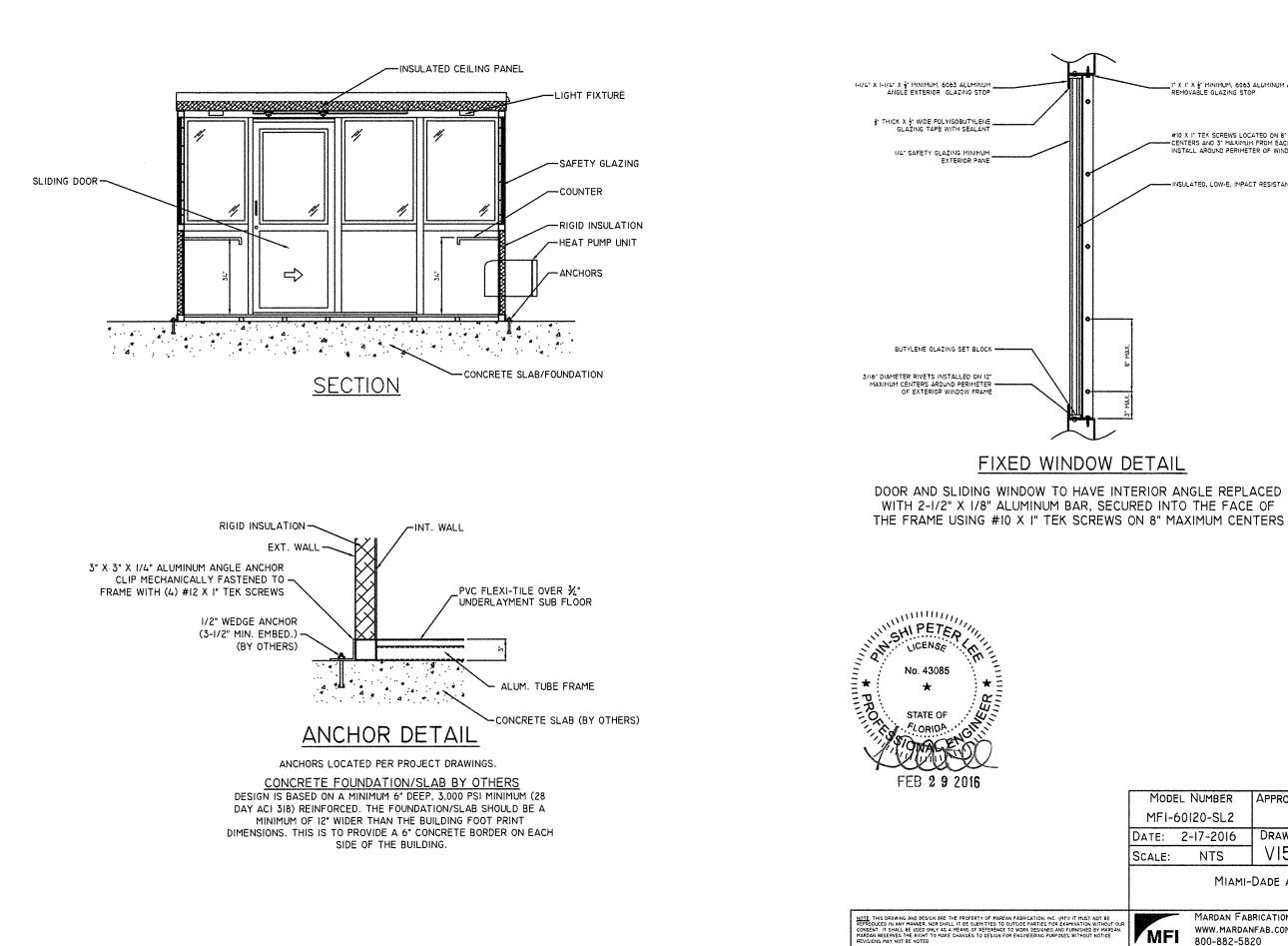








MODEL NUMBER	APPROVED BY:		
MF1-60120-SL2			
DATE: 2-17-2016	DRAWING NUMBER	DRAWN BY: DNE	
SCALE: NTS	VI5-080-9	REVISION: 2-24-2016	
MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL			
MARDAN FABRICATION, INC.		DRAWING SHEET	
MFI WWW.MARDANFAB.COM 800-882-5820		SD-2	

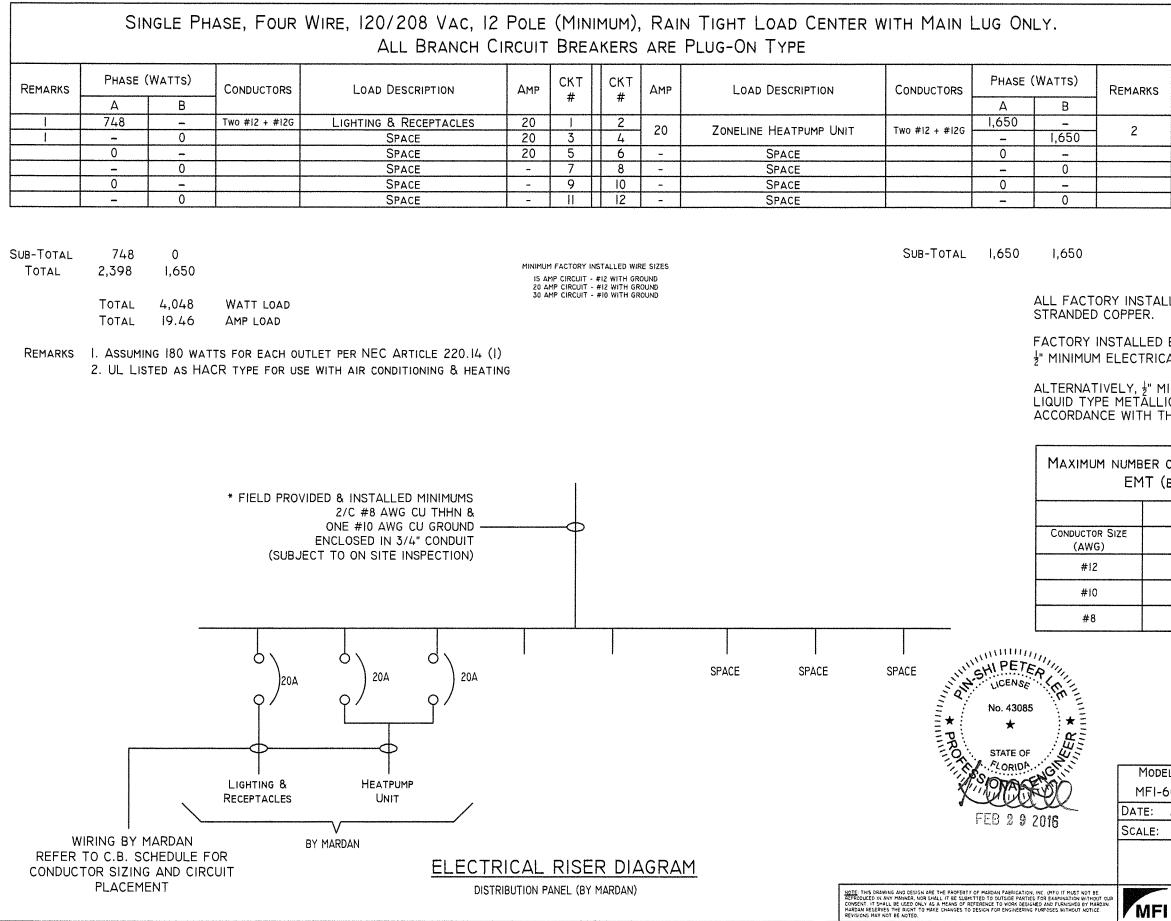


I' X I' X 1' MINIMUM, 6063 ALUMINUM ANGLE INTERIOR REMOVABLE GLAZING STOP	
#10 X 1" TEK SCREWS LOCATED ON 6" MAXIMUM CENTERS AND 3" MAXIMUM FROM EACH CORNER INSTALL AROUND PERIMETER OF WINDOW FRAMING	
INSULATED, LOW-E, IMPACT RESISTANT SAFETY GLAZING	

	-	
O LINA.		
	-	

Mode	EL NUMBER	APPROVED BY:	
MFI-6	50120-SL2		
DATE:	2-17-2016		DRAWN BY: DNE
SCALE:	NTS	VI5-080-9 REVISION: 2-24-2016	
MIAMI-DADE AVIATION DEPARTMENT MIAMI, FL			
MARDAN FABRICATION, INC.		DRAWING SHEET	
MFI WWW.MARDANFAB.COM 800-882-5820		SD-3	

PANEL SPECIFICATION:



EMARKS	
2	
	1

ALL FACTORY INSTALLED WIRING CONDUCTORS SHALL BE THHN

FACTORY INSTALLED BRANCH FEEDER WIRING SHALL BE ENCLOSED IN ⅓" MINIMUM ELECTRICAL METALLIC TUBING (EMT).

ALTERNATIVELY,  $\frac{1}{2}$ " MINIMUM IMC/RIGID METAL CONDUIT, MC CABLE OR LIQUID TYPE METALLIC TUBING MAY BE USED. WHEN INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

E٣	T (BASED ON TA	BLE I, CHAPTER	9)
		CONDUIT TRADE SIZE	
IZE	1/2"	3/4"	1
	9	16	26
	5	10	16
	3	6	9

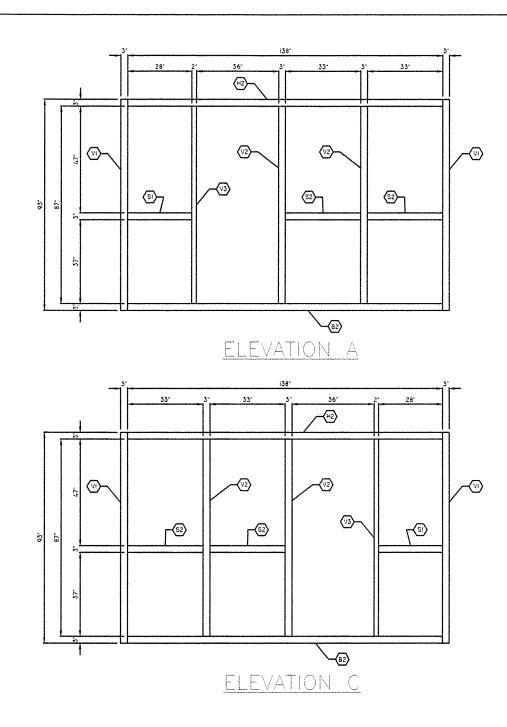
MAXIMUM NUMBER OF THHN CONDUCTORS OR FIXTURE WIRES IN ~ ..... -

Mode	EL NUMBER	APPROVED BY:	
MF1-	60120-SL2		
DATE:	2-17-2016	DRAWING NUMBER	
SCALE:	NTS	VI5-080-9	REVISION: 2-24-2016

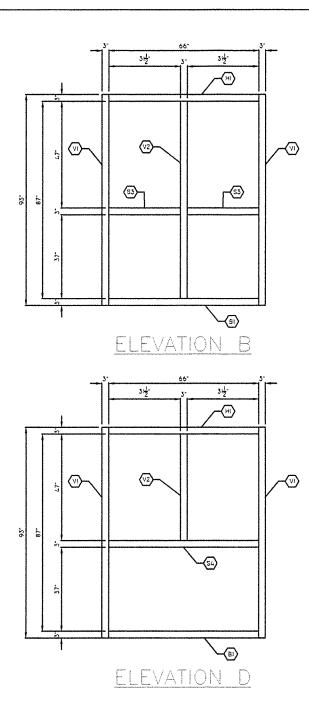
MIAMI-DADE AVIATION DEPARTMENT

MIAMI, FL

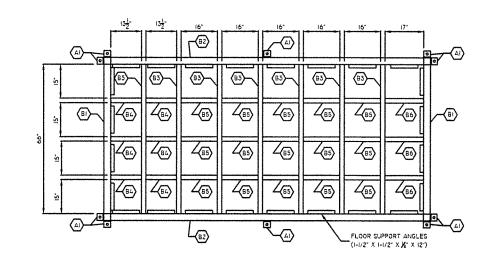
MARDAN FABRICATION, INC.	DRAWING SHEET
WWW.MARDANFAB.COM 800-882-5820	SD-4



MEMBER ID	MEMBER ID	DRAWING SHEET	DETAIL
AI	VI	SD-6	SC-I
BI	VI	SD-6	SC-2
B2	VI	SD-6	SC-3
B3/B4/B7	B2/BI	SD-6	SC-4
B4/B5/B6/B7	BI/B3	SD-6	SC-5
V2	BI/B2	SD-6	SC-6
V3	B2	SD-6	SC-7
SI/S2/S3/S4	VI/V2/V3	SD-6	SC-8
HI	VI	SD-6	SC-9
H2	VI	SD-7	SC-10
V2/V4	HI/H2	SD-7	SC-II
V3	H2	SD-7	SC-12
V4	S4	SD-7	SC-I3



	Aluminum F	RAMING MEMBE	ER MATERI	AL
Member ID	COMMON NAME	MEMBER SIZE	MEMBER LENGTH	MATERIAL
AI	ANCHOR CLIP	3" x 3" x 1/4"	3"	6063-T6 ALUMINUM ANGLE
BI	BASE WIDTH TUBE	3" x 3" x 1/8"	66"	6063-T6 ALUMINUM TUBE
82	BASE LENGTH TUBE	3" x 3" x 1/8"	138"	6063-T6 ALUMINUM TUBE
B3	BASE CROSS BRACE TUBE	3" x 2" x 1/8"	66"	6063-T52 ALUMINUM TUBE
84	BASE BRACE TUBE	3" x 2" x 1/8"	13-1/2"	6063-T52 ALUMINUM TUBE
B5	BASE BRACE TUBE	3" x 2" x 1/8"	16"	6063-T52 ALUMINUM TUBE
B6	BASE BRACE TUBE	3" x 2" x 1/8"	17"	6063-T52 ALUMINUM TUBE
VI	CORNER VERTICAL TUBE	3" x 3" x 1/4"	93"	6063-T6 ALUMINUM TUBE
V2	FULL HEIGHT VERTICAL TUBE	3" x 3" x 1/8"	87*	6063-T6 ALUMINUM TUBE
V3	VERTICAL DOOR LATCH TUBE	6" x 2" x 1/8"	87"	6063-T6 ALUMINUM TUBE
SI	SILL TUBE	3" x 3" x 1/8"	28"	6063-T6 ALUMINUM TUBE
S2	SILL TUBE	3" x 3" x 1/8"	33"	6063-T6 ALUMINUM TUBE
S3	SILL TUBE	3" x 3" x 1/8"	31-1/2"	6063-T6 ALUMINUM TUBE
S4	SILL TUBE	3" x 3" x 1/8"	66"	6063-T6 ALUMINUM TUBE
HI	HEADER WIDTH TUBE	3" x 3" x 1/8"	66"	6063-T6 ALUMINUM TUBE
H2	HEADER LENGTH TUBE	3" x 3" x 1/8"	138"	6063-T6 ALUMINUM TUBE



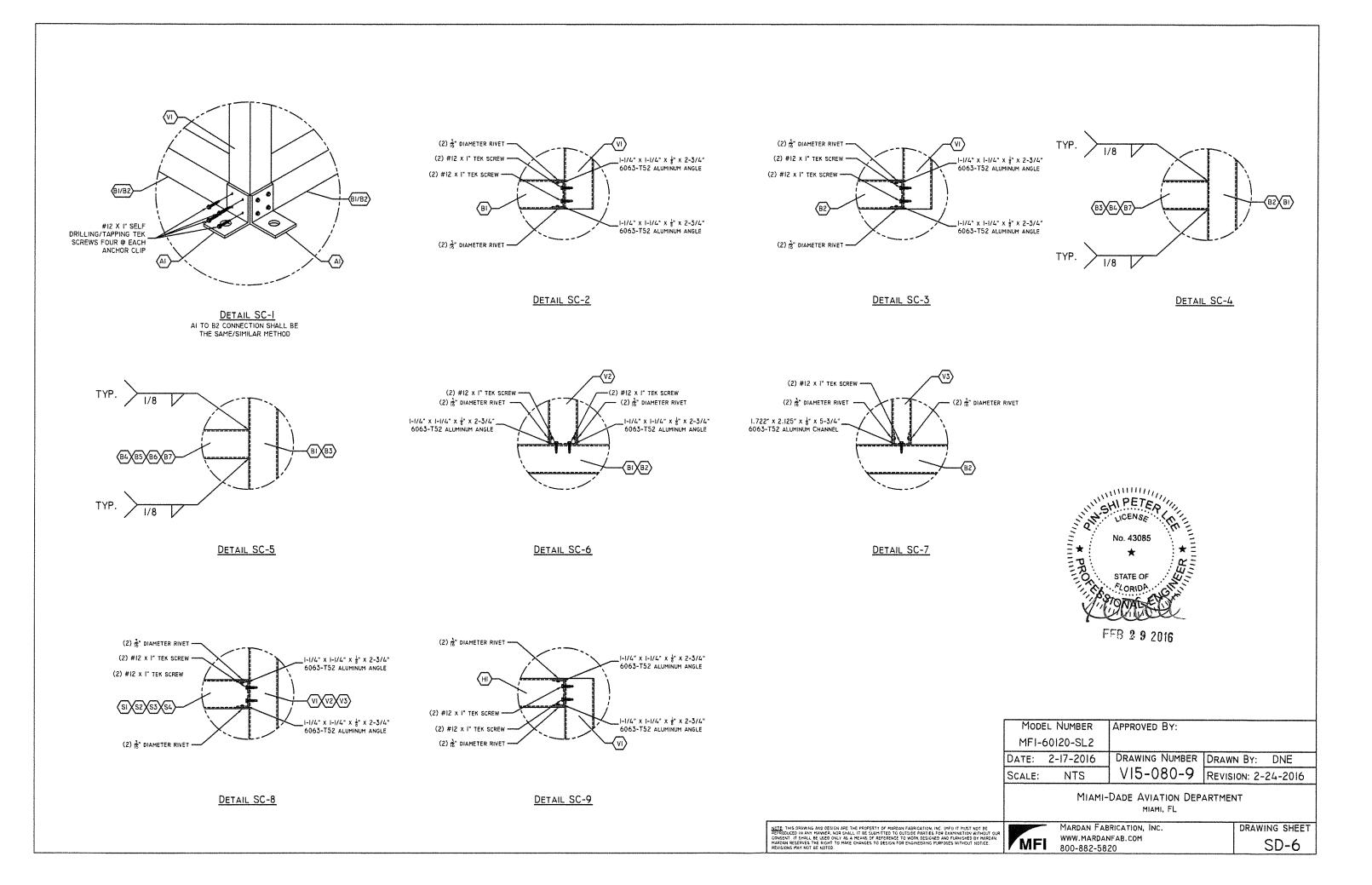


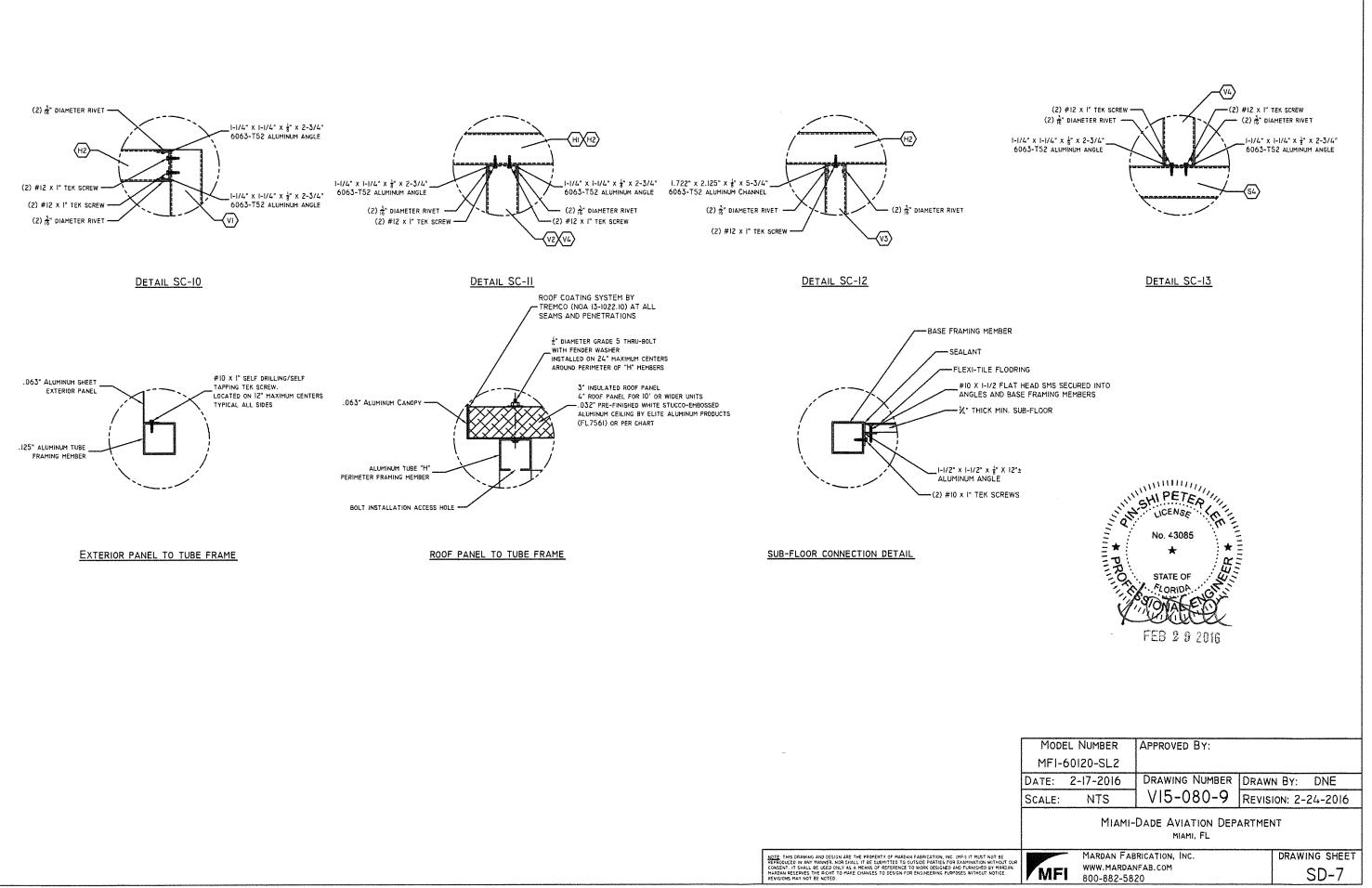
NOTE: THIS DRAWING AND DESIGN ARE THE PROPERTY OF MARDAN FABRICATICM, INC. (MFI) IT HUST NOT BE REPROLUCED IN ANY MANER, NOR SHALL IT BE SUMMITTED TO GUTSIDE PARTIES FOR EXAMINATION WITHOUT ONE CONSENT IT SHALL BE UCED CONVERTIGATION OFFERENCE TO MORE DESIGNED AND FUNKISHED BY MARDAN, MARDAN RESERVES THE RIGHT TO MAKE CHANGES TO DESIGN FOR ENGINEERING PURPOSES WITHOUT NOTICE. REVISIONS MAY TO TE HOTED

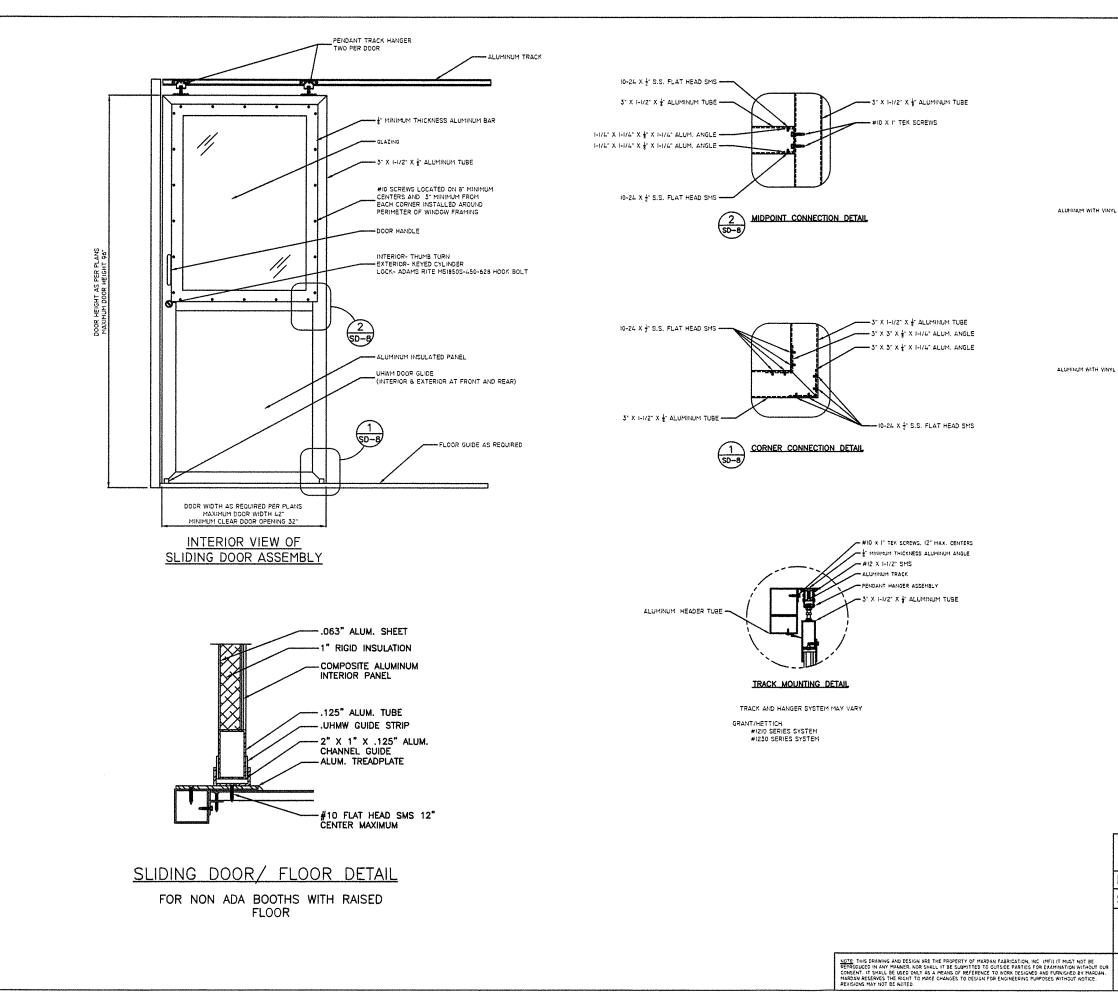
Mod	MODEL NUMBER APPROVED BY:		
MFI-	60120-SL2		
DATE:	2-17-2016	DRAWING NUMBER	
SCALE:	NTS	VI5-080-9	REVISION: 2-24-2016
MIAMI-DADE AVIATION DEPARTMENT			

1

MARDAN FABRICATION, INC.	DRAWING SHEET
WWW.MARDANFAB.COM	SD-5
 800-882-5820	







	ALUMINUM JAMS TUBE ALUMINUM WEATHER STRIP COVER ALUMINUM PERINETER WEATHER STRIP WITH VINYL INDERT 5" X 1-1/2" X §" ALUMINUM TUB	ę	
LATCH SIDE WEATHER WEATHER STRIP MOUNTED USING #8 SMS ON 12*	TO ASSEMBLY		
WEATHER STRIP INSERT	- ALUMINUM JAME TUBE		
	ALUMINUM WEATHER STRIP STOP		
REAR SIDE WEATHER S WEATHER STRIP MOUNTED USING #8 SMS ON 12"	TO ASSEMBLY		
WEATHER STRIP INSERT	ALUMINUM HEADER TUBE	'UBE	
HEADER WEATHER STRIP WEATHER STRIP MOUNTED USING #6 SMS ON 121	TO ASSEMBLY		
FEB 2 9			
MODEL NUMBER MF1-60120-SL2	APPROVED BY:		
DATE: 2-17-2016	DRAWING NUMBER	DRAW	
SCALE: NTS	VI5-080-9	REVIS	ION: 2-24-2016
Miami-	DADE AVIATION DEP MIAMI, FL	ARTMEN	NT
	RICATION, INC.		DRAWING SHEET
MFI 800-882-582			SD-8

# Florida Building Code, Fifth Edition (2014) - Energy Conservation

EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 IECC 2012 - Total Building Performance Compliance Option

Check List					
Applications for compliance with the Florida Building Code, Energy Conservation shall include:					
	This Checklist				
	An Input report generated from the software just after completing compliance calculations without any further changes				
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports				
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report				



PROJECT SUMMARY									
Short Desc:	MFI-60120-SL2	Description:	Aviation Department						
Owner:			-						
Address1:	4331 NW 22nd Street	City:	Miami						
Address2:		State:	FL						
		Zip:	33122						
Туре:	Office	Class:	New Finished building						
Jurisdiction:	MIAMI-DADE COUNT	ΓΥ, MIAMI-DADE COUNTY, FL (231000	)						
<b>Conditioned Area:</b>	72 SF	Conditioned & UnConditioned Area:	72 SF						
No of Stories:	1	Area entered from Plans	72 SF						
Permit No:	0	Max Tonnage	1						
		If different, write in:							

Component	Design	Criteria	Result
Gross Energy Cost (in \$)	77.0	83.0	PASSED
LIGHTING CONTROLS	WINGHIPETER		PASSES
EXTERNAL LIGHTING	Q LICENSE		No Entry
HVAC SYSTEM	E No. 43085	*=	PASSES
PLANT	PR	Ë	No Entry
WATER HEATING SYSTEMS	C STATE OF		No Entry
PIPING SYSTEMS	J. MORTHE	ðñ	No Entry
Met all required compliance from Check List?	NEEDS		Yes/No/NA
niet un required compnance from check Elst.	FEB 2 9 20	)16	105/110/11

Info 5009 -- -- An input report of this design building must be submitted along with this Compliance Report

CERTIFICATIONS							
I hereby certify that the plans and specifications c	overed by this calculation are in compliance with the						
Florida Energy Code	······································						
Prepared By:	Building Official:						
Date:	Date:						
I certify that this building is in compliance with the	FLorida Energy Efficiency Code						
Owner Agent:	Date:						
If Required by Florida law, I hereby certify (*) that Energy Efficiency Code	the system design is in compliance with the Florida						
Architect:	Reg No:						
Electrical Designer:	Reg No:						
Lighting Designer:	Reg No:						
Mechanical Designer:	Reg No:						
Plumbing Designer:	Reg No:						
(*) Signature is required where Florida Law requir professionals. Typed names and registration numb contained on signed/sealed plans.	es design to be performed by registered design pers may be used where all relevant information is						



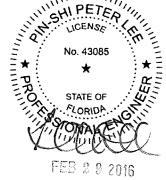
Project: MFI-60120-SL2
<b>Title: Aviation Department</b>
Type: Office
(WEA File: Miami.tmv)

WEA File: Miami.tmy) Bui	ilding End Uses	
No. 43	1) Proposed	2) Baseline
Total O STATE		6.30
X MARK	\$77	\$97
ELECTRICITY(MBtu/kWh/\$) FEB 2	2 9 2016 4.90	6.30
	1424	1800
	\$77	\$97
AREA LIGHTS	0.30	0.80
	86	221
	\$5	\$12
MISC EQUIPMT	1.10	1.10
	316	316
	\$17	\$17
SPACE COOL	1.90	2.20
	557	630
	\$30	\$34
SPACE HEAT	0.00	0.10
	9	18
	\$0	\$1
VENT FANS	1.60	2.10
	456	615
	\$25	\$33
redits Applied: None		PASSES
assing Criteria = 83		
esign (including any credits) = 77		
assing requires Proposed Building cost t		
aseline cost. This Proposed Building is a	t 79%	

	Exter	nal Lightin	ig Com	pliance			
Description	Category	Tradat			a or Lengt lo. of Unit lqft or ft)		CLP (W)
					Г	No	ne
					L	110	
Project: MFI-6012 Title: Aviation Dep Type: Office WEA File: Miami	partment						
	Lighting	Controls (	Complia	ance			
Acronym	Ashrae Description ID		Area (sq.ft)		Design CP		npli- nce
Pr0Zo1Sp1	16 Office - Open Plan	1	7	2	1	1 <b>PAS</b>	SES
					PASS	SES	
AZ61H12D Sy	Sys	tem Repo	Thro AirC	ugh the wa	all	N	o. of Units 1
Component	Category	Capacity	Pack Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Thru the Wall A/C < 30,000 Btu/h Single Package	e 11800	12.10	12.00			PASSES
Heating System	Heat Pumps Thru the Wal HP (Heating Mode) < 30,000 Btu/h Single Pkg	1 10600	12.63	7.40			PASSES
Air Handling	Air Handler (Supply)	ETER 11, 370	0.80	0.82			PASSES
System -Supply	S. G. M.						
System -Supply	- No.	43085 ★ ★ ===			<b></b>	PASSE	s
System -Supply	No.					PASSE	S

Plant Compliance									
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

		Water Heater Cor	npliance					
Description Type Category Design Min Design Max Eff Eff Loss Loss								
							None	
		Piping Syste	em Compl	lianco	e			
Category		[inches] Runout? T	erating Ins Co emp [Btu-in [F] .SF.]	n/hr T	Ins hick [in]		Ins Complia k [in]	
						None	•	



# Mandatory Requirements (as applicable)

Mandatory requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted with permission

				Adopted with permission			
	Торіс	Section	Componen		Yes	N/A	Ex
		To b	e checked	during Construction			
	Air Leakage	C402.4.1,C402.4.2	·	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.			
	Air Leakage	C402.4.3,C402.4.4	Envelope	Factory-built fenestration and doors are labeled as meeting air leakage requirements.			
	Air Leakage	C402.4.7	Envelope	Vestibules are installed on all building entrances. Doors have self-closing devices.			
	Air Leakage	C402.4.1.1		All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.			
	Air Leakage	C402.4.6	Envelope	Weatherseals installed on all loading dock cargo doors.			
	Air Leakage	C402.4.8		Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal			
	Fenestration	C303.1.3	Envelope	between interior finish and luminaire housing. Fenestration products rated in accordance with NFRC.			
	Fenestration	C303.1.3		Fenestration products are certified as to performance labels or certificates provided.			
	Fenestration	C402.2.7		U-factor of opaque doors associated with the building thermal envelope meets requirements.			
	Insulation	C303.2		Below-grade wall insulation installed per manufacturer's instructions.			
	Insulation	C303.2		Slab edge insulation installed per manufacturer's instructions.			
	Insulation	C402.2.6		Slab edge insulation depth/length. Slab insulation extending away from building is covered by			
	Insulation	C403.2.7,C408.2.8,C	Envelope	pavement or >= 10 inches of soil. Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and opuinment mointorance activities			
	Insulation	C402.4.2.1	Envelope	equipment maintenance activities. Roof R-value. For some ceiling systems, verification may need to occur during Framing Inspection.			
	Insulation	C303.2	Envelope	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.			
	Insulation	C402.2.1	Envelope	Skylight curbs are insulated to the level of roofs with insulation above deck or R-5.			
ING * PRO	Insulation GHI PETER LICENSE	C402.2.1.1		High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance $\geq 0.55$ and thermal emittance $\geq 0.75$ , 3-year-aged solar reflectance index $\geq 64.0$ , initial year solar reflectance $\geq 0.70$ and thermal emittance $\geq 0.75$ , or initial year solar			
*	No. 43085 Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.			
PROK	SULLOI SY	C303.2		Floor insulation installed per manufacturer's instructions.			
X		C303.1	-	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.			
F	EB 2 9 2016						

FEB 2 9 2016

	Insulation	C303.2.1	Envelope	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.			
	Insulation	C402.2.1	Envelope	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement			
	Controls	C405.2.4	Exterior Lighting	compliant if insulation is installed accordingly. Automatic lighting controls for exterior lighting installed.			
	Wattage	C405.6	Exterior Lighting	Exterior grounds lighting over 100 W provides >60 Im/W unless on motion sensor or fixture is exempt			
	Wattage	C405.6.2	Exterior Lighting	from scope of code or from external LPD. Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.			
	Controls	C405.2.2.1	Interior Lighting	Automatic controls to shut off all building lighting installed in all buildings.			
	Controis	C405.2.1.1	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.			
	Controls	C405.2.1.2	Interior Lighting	Lighting controls installed to uniformly reduce the lighting load by at least 50%.			
	Controls	C405.2.2.3	Interior Lighting	Daylight zones provided with individual controls that control the lights independent of general area lighting.			
	Controls	C405.2.3	Interior Lighting	Sleeping units have at least one master switch at the main entry door that controls wired luminaires			
	Controls	C405.2.2.2	Interior Lighting	and switched receptacles. Occupancy sensors installed in required spaces.			
	Controls	C405.2.2.3	Interior Lighting	Primary sidelighted areas are equipped with required lighting controls.			
	Controls	C405.2.2.3	Interior Lighting	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.			
	Controls	C405.2.3	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.			
	Controls	C405.3	Interior Lighting	Fluorescent luminaires within odd numbered lamp configurations that are with 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.			
	Wattage	C405.4	Interior Lighting	Exit signs do not exceed 5 watts per face.			
	Wattage	C405.2.3	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.			
	Wattage	C405.5.2	Interior Lighting	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.			
		C403.2.4.5	Mechanical	Freeze protection and snow/ice melting system sensors for future connection to controls.			
	SHAPETER	C403.2.3	Mechanical	HVAC equipment efficiency verified.			
2	Air Leakage No. 43085	C402.4.5.1	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close.			
HAY A PROF	Air Leekage	C402.4.5.2	Envelope	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			
X	COLORE C	C403.2.5.1	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper			
	FEB 2 9 2016			control, or design airflow >3,000 cfm.			
2	EnergyG /17/2016	auge Summit® Fla/Co	om-2014. TAM 20	014-1.0 Compliant Software. Effective Date: June 30	·		of 12
21	1112010				га	ige o	01.12

	HVAC	C403.2.8.1	Mechanical	Piping Insulation exposed to weather is protected from damage (due to sun, moisture, wind, etc.).		
	HVAC	C403.2.7	Mechanical	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation		
LING * PRO	HVAC No. 43085	C403.2.8	Mechanical	Inspection. Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.		
	HVA⊊ ★ Ξ	C403.2.7	Mechanical	Ducts and plenums sealed based on static pressure and location.		
100	HSVATE OF	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.		
Ý	COSO	C403.2.6	Mechanical	Exhaust air energy recovery on systems meeting Table C403.2.6		
•	HYBC2 9 2016	C403.2.11	Mechanical	Unenclosed spaces that are heated use only radiant heat.		
	HVAC	C403.2.4.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control.		
	HVAC	C403.2.4.2	Mechanical	Thermostatic controls have a 5 °F deadband.		
	HVAC	C403.2.4.2	Mechanical	Temperature controls have setpoint overlap restrictions.		
	HVAC	C403.2.4.3	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.		
	HVAC	C403.2.4.3	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup		
	SYSTEM_SPECIFIC	C404.3	Mechanical	Temperature controls installed on service water heating systems (110 °F for dwelling units and lavatories in public restrooms and 90 °F for other occupancies.)		
	SYSTEM_SPECIFIC	C404.4	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.		
	SYSTEM_SPECIFIC	C404.2	Mechanical	Heat traps installed on non-circulating storage water tanks.		
	SYSTEM_SPECIFIC	C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403.2.3(3).		
	SYSTEM_SPECIFIC	C403.4.2	Mechanical	VAV fan >= 7.5 hp are driven by mechanical or electrical variable speed drive, or driven by vane-axial with variable speed blades, or operate with motor demand <=30% design kW at 50%	] [	
	SYSTEM_SPECIFIC	C403.2.8	Mechanical	design flow - calculations required HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need		
	SYSTEM_SPECIFIC	C403.2.7.1.3	Mechanical	to occur during Foundation Inspection. Ductwork operating >3 in. water column requires air leakage testing.		
	SYSTEM_SPECIFIC	C403.3.1,C403.3.1.1	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.		
	SYSTEM_SPECIFIC	C403.3.1,C403.4.1	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control.		
	SYSTEM_SPECIFIC	C403.4.1.4	Mechanical	Economizer operation will not increase heating energy use during normal operation.		
	SYSTEM_SPECIFIC	C403.4.5	Mechanical	Zone controls can limit simultaneous heating and cooling and sequence heating and cooling to each zone.		
	SYSTEM_SPECIFIC	C403.4.3.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.		コ

EnergyGauge Summit® Fla/Com-2014. TAM 2014-1.0 Compliant Software. Effective Date: June 30, 2015

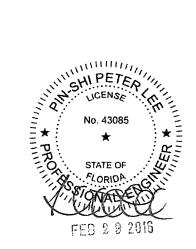
	SYSTEM_SPECIFIC	C403.4.3.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15 °F, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply temperature to $=20$ °F.		
	SYSTEM_SPECIFIC	C403.4.3.3.1	Mechanical	temperature to <=30 °F. Hydronic heat pump systems connected to a common water loop meet heat rejection and heat		
	SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	addition requirements. HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.		
	SYSTEM_SPECIFIC	C403.2.10.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.		
	SYSTEM_SPECIFIC	C403.2.10.2	Mechanical	HVAC fan motors not larger than allowable limits.		
	SYSTEM_SPECIFIC	C403.4.2	Mechanical	VAV fan motors >=7.5 hp to be driven by variable speed drive, have a vane-axial fan with variable pitch blades, or have controls to limit fan motor		
	SYSTEM_SPECIFIC	C403.4.2.1	Mechanical	demand. VAV fans have static pressure sensors positioned so setpoint <=1/3 total design pressure.		
	SYSTEM_SPECIFIC	C403.4.2.2	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.		
	SYSTEM_SPECIFIC	C403.4.5.4	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.		
	SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Hydronic systems greater than 300,000 Btu/h designed for variable fluid flow.		
	SYSTEM_SPECIFIC	C403.4.3.5	Mechanical	Reduce flow in pumping systems >10 hp to multiple chillers or boilers when others are shut down.		
11111	AYSTIEM_SPECIFIC	C403.4.3.4	Mechanical	Temperature reset by representative building loads in pumping systems for chiller and boiler systems >300,000 Btu/h.		
N.	SYSTEM_SPORIEIC	C403.4.3.3.3	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.		
IL MY THE PROFESSION	SYSTEM_SPECIFIC	C403.4.4	Mechanical	Fan system > to the is on. Fan systems with motors >=7.5 hp associated with heat rejection equipment to have capability to operate at 2/3 of full-speed and auto speed controls to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.		
X	EB 2 9 2016	C403.4.6	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water in 24/7 facility, water cooled systems reject >6 MMBtu, SHW load >=1 MMBtu.		
	SYSTEM_SPECIFIC	C403.4.7	Mechanical	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%		
	SYSTEM_SPECIFIC	C404.2	Mechanical	Service water heating equipment meets efficiency requirements.		
	SYSTEM_SPECIFIC	C403.2.4.2	Mechanical	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed		
	SYSTEM_SPECIFIC	C403.2.4.3.3	Mechanical	humidification/dehumidification system. Systems include optimum start controls.		
	SYSTEM_SPECIFIC	C403.2.4.1.1	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.		
	SYSTEM_SPECIFIC	C404.3	Mechanical	Public lavatory faucet water temperature <=110°F.		
	SYSTEM_SPECIFIC	C404.5	Mechanical	All piping in circulating system insulated		
	SYSTEM_SPECIFIC	C404.5	Mechanical	First 8 ft of outlet piping is insulated		

EnergyGauge Summit® Fla/Com-2014. TAM 2014-1.0 Compliant Software. Effective Date: June 30, 2015 Page 10 of 12

	SYSTEM_SPECIFIC	C404.5	Mechanical	All heat traced or externally heated piping insulated			
	SYSTEM_SPECIFIC	C404.6	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain			
	SYSTEM_SPECIFIC	C404.7.1	Mechanical	temperature of a storage tank. Pool heaters are equipped with on/off switch and no continuously burning pilot light.			
	SYSTEM_SPECIFIC	C404.7.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas.			
	SYSTEM_SPECIFIC	C404.7.2	Mechanical	Time switches are installed on all pool heaters and pumps.			
	SYSTEM_SPECIFIC	C403.2.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets			
	Testing	C408.2.3.2	Mechanical	minimum efficiency requirement: >=38.2 gpm/hp. HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.			
	Mandatory Additional	C406	Project	Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy			
	Insulation	C402.2.8	Project	consistent with what is shown the approved plans. Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.			
		To I	oe checked	during Plan Review			
	Plan Review	C103.2	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where			
1111 1111 1111	Plan Rayiaw	C103.2	Exterior Lighting	exceptions to the standard are claimed. Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where			
The * PRO	No. 43085 Plan Raview *	C103.2	Interior Lighting	exceptions to the standard are claimed. Information provided shoul Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical			
X	FEB 2 9 2016	C103.2	Mechanical	systems and equipment and document where exceptions to the standard are claimed. Information provided shoul Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per			
	Plan Review	C103.2	Mechanical	acceptable engineering st Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system			
	Plan Review	C406	Project	sized per manufact Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency			
	Plan Review	C402.3.2.2	Envelope	package options. Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight.			
	To be checke	ed Post Const	ruction Prid	or to Issuance of Certificate of Oc	cur	and	v I
	Post Construction	C408.3		Lighting systems have been tested to ensure proper calibration, adjustment, programming, and			
	Post Construction	C408.2.5.1	Interior Lighting	operation. Furnished as-built drawings for electric power systems within 30 days of system acceptance.			
L							]

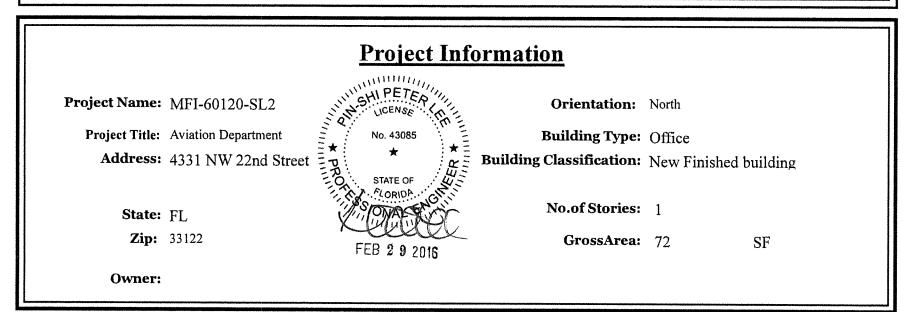
EnergyGauge Summit® Fla/Com-2014. TAM 2014-1.0 Compliant Software. Effective Date: June 30, 2015 Page 11 of 12

Deat Canatauti-	0202 2 0400 2 5 2	1-1-1-1-1-1-1-1		
Post Construction	C303.3,C408.2.5.2	Interior Lighting	equipment to the building owner or designated	
Post Construction	C408.3	Interior Lighting	representative. Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	
Post Construction	C408.2.5.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	
Post Construction	C303.3,C408.2.5.2	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	
Post Construction	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.	
Post Construction	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.	
Post Construction	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.	
Post Construction	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of	
Post Construction	C408.2.3.1	Mechanical	occupancy. HVAC equipment has been tested to ensure proper operation.	
Post Construction	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.	



# EnergyGauge Summit® v5.10

## **INPUT DATA REPORT**



				Zones						
No	Acronym	Description	Туре			Area [sf]		Multiplier	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED			72.0		1	72.0	
				Spaces						
No	) Acronym	Description	Туре	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]	

In Zo	o <b>ne: Pi</b> 1 Pr0Zo	r <b>0Zo1</b>  Spl	Zo0Sp1	Office - (	)pen Plan		12.00	6.00	7.50	1	72.0	540.0	
						Li	ghting						
		No	Туре	Cate	gory		lo. of ninaires	Watts pe Luminair		Cont	rol Type	No.of Ctrl pts	
In Zo	ne: Pi In Space:	•0Zo1 Pr02 1		luorescent Genera	l Lighting		2		14 28	Manua	l On/Off	1	
						V	Nalls						
No	Descrij	ption	Ту	pe	Width H [ft]	• •	Multi plier	Area [sf]	DirectionCo [B	onductance tu/hr. sf. F	] Capaci	ity [lb/cf] [h.sf.F/	'Btu]
In Z 1 2 3 4	<b>Zone:</b> Wall A Wall B Wall C Wall D	Pr	M M	lardan Wall Panel lardan Wall Panel lardan Wall Panel lardan Wall Panel	12.00 6.00 12.00 6.00	7.50 7.50 7.50 7.50	1 1 1 1	90.0 45.0 90.0 45.0	North North North North	0.0541 0.0541 0.0541 0.0541	× Pa	NO 43085 * 18 STATE OF 18 18 18 18 18 18 18 18 18 18	.5 🗌 .5 🔲 .5 🔲
						Wir	ndows				A SA		
		No	Description	Туре	Shaded	l U [Btu/hr		GC Vis.Tra	a W [ft]	H (Effe [ft]	c) Multi plier	Total Area [sf]	
	one: Pr In Wall:		<b>A</b> Pr0ZolWalW Pr0ZolWalW Pr0ZolWalW	i2 User Defined	No No No	0.28 0.28 0.28	00 0.2	24 0.61	l 2.50	3.92 3.67 3.92	2 1 1	20.6 9.2 9.1	
	In Wall: In Wall:	<b>Wall</b> 1	<b>B</b> Pr0Zo1Wa2W		No	0.280				3.92	2	19.3	

[ <del></del>														
		1			No	0.2800	0.24	0.61		2.63 3.92	2		20.6	
		2			No	0.2800	0.24	0.61		2.50 3.67	1		9.2	
		3	Pr0Zo1Wa1W	i3 User Defined	No	0.2800	0.24	0.61	2	2.33 3.92	1		9.1	
In	Wall:	Wa												
		1	Pr0Zo1Wa2W	il User Defined	No	0.2800	0.24	0.61		2.46 3.92	2		19.3	
					*******	Doo	rs							
	N	No	Description	Туре	Shaded?	Width [ft]	H (Effec [ft]	) Multi plier	Area [sf]	Cond. [Btu/hr. sf. H		leat Cap. Btu/sf. FJ		
In Zone:														
-	In Wal	<b>ll:</b> 1	Wall A Pr0Zo1Wa1Dr1	A 1	N.	2.00	7.00	4	21.0	0 1010	10.00			
		L	FIUZUI WalDri	Aluminum door, 1.25 in.	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21	
	In Wal	ıı،	Wall C	polystyrene										
	111 **#1	1	Pr0Zo1Wa1Dr1	Aluminum door, 1.25 in.	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21	
				polystyrene										
						Roo	ofs							
	No	Des	cription 7	Гуре	Width	H (Effec)	Multi	Area	Tilt	Cond.	Heat Car		R-Value	
					[ft]	[ft]	plier	[sf]	[deg]	[Btu/hr. Sf. F]	[Btu/sf. F	] [lb/cf]	[h.sf.F/Btu]	
In Zone:		Pr0Z	olRfhmmn,4"	Thick Roof Panel	6.00	12.00	1	72.0	0.00	0.0600	0.65	15.73	16.7	
		****	No. 43085			Skyligi	nts							
		*	* No Description STATE OF *CORIDA	K = C = Type	T [Btu/h		IGC Vi	s.Trans	W [ft]	H (Effec) ] [ft]	Multiplier	Area [Sf]	Total Area [Sf]	
In Zon		Ń	PARATERY	Geograesse										
In	Roof:	1	FEB 2 9 2016	4										
			10272015											

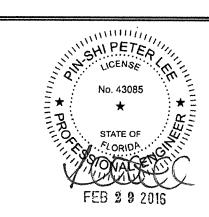
			Floor	5			******			
No	Description		dth H (Effec ft] [ft]	) Multi plier		Cond. tu/hr. sf. F	Heat Car ] [Btu/sf. F		R-Value [h.sf.F/Btu]	
n Zone: Pr( 1	D <b>Zo1</b> Pr0Zo1F11	Non-Insualted Base 6	.00 12.00	1	72.0	0.2967	34.24	114.55	3.37	
			Syste	ms						
AZ61H12D	Syster	n 1		ough the		rConditio	ner	No. C	$\begin{array}{c} \text{Df Units}  1 \\ \text{ETES}^{(1)} \\ \end{array}$	
Componen	t Category		Сарас	ity	Efficie	nev	IPL		ENSE	
1	Cooling System		11800		12.1				43085	 
2	Heating System		10600		12.0				* *=	
3	Air Handling Sys	tem -Supply	370.0		0.8					Ľ
								A C	RIDA	
			Plant					FEB	2 9 2016	
Equij	pment	Category	Size			Inst.No	Eff.		IPLV	
										[
			Water Hea	ters						
W-He	ater Description	CapacityCap.Un	it I/PR	t.	E	fficiency		Loss		
										Ľ
			Ext-Ligh	ting						
Desc	cription	Category	No. of Luminaires	Watts p Lumina		a/Len/No. [sf/ft/No		Control Type	Wattage [W]	

	SHIPE WHIPE		Pipi	ng					
No Тур	P R O STATE	OF .	Operating Temperature [F]	Insulatio Conductiv [ Btu-in/h.s	vity	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	
		HER.							
FEB 2 9 2016 Fenestration Used									
Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT				
I.R. Clear Insualted Low-E #2	User Defined	3	0.2800	0.2400	0.6100				

	Materials Used												
Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHea [Btu/lb.F]	t				
264	Matl264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26.0000	480.00	0.1000					
214	Matl214	POLYSTYRENE, EXP., 1-1/4IN,	No	5.2100	0.1042	0.0200	1.80	0.2900					
265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000					
48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	Π				
77	Matl77	AIR LAYER, 3/4IN TO 4IN, HORIZ. ROOFS	Yes	0.8700									
1003	ApLbMat1003	POLYSTRENE, EXP., 4IN,	No	16.6650	0.3333	0.0200	1.80	0.2900					

				Cons	structs	Use	d					
No	Name			Simple Construct	Massless Construc		Conductanc [Btu/h.sf.F]	e H	[eat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
002	Aluminum door,	1.25 in. pol	ystyrene	No	No		0.19		0.53	43.67	5.2	
	Layer	Material No.	Material			Thickne [ft]	ess	Framing Factor	5		******	
	1	264	ALUMINUM, 1/1	6 IN		0.0050		0.000				Ľ
	2	214	POLYSTYRENE,	EXP., 1-1/4IN,		0.1042		0.000				C
	3	264	ALUMINUM, 1/1	6 IN		0.0050		0.000				C
No	Name			Simple Construct	Massless Construct	-	Conductance [Btu/h.sf.F]	e H	eat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
060	Mardan Wall Par	el		No	Yes		0.05				18.5	
	Layer	Material No.	Material			Thickne [ft]	ess	Framing Factor	1100 × F	SHIPETE	R	
	1	264	ALUMINUM, 1/1	6 IN		0.0050		0.000		UCENSE		
	2	72	AIR LAYER, 3/4I WALLS	N OR LESS, V	ERT.			0.000		No. 43085 ★	*	C
	3	1001	Thermax TSX-850	0 Insualtion		0.2083		0.000		STATE OF	ALL NO	Ľ
	4	72	AIR LAYER, 3/4I WALLS	N OR LESS, V	ERT.			0.000	Ý	ANA C	ĚČ	C
	5	264	ALUMINUM, 1/1	6 IN		0.0050		0.000		FEB 2 9 2	016	Г

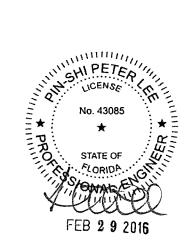
No	Name		Simple Construct	Massless Construct	Conducta [Btu/h.sf		leat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1061	Non-Insualted B	lase	No	No	0.30		34.24	114.55	3.4	
	Layer	Material No.	Material	Th	ickness [ft]	Framing Factor	3			
	1	265	Soil, 1 ft	1.	0000	0.000				
	2	48	6 in. Heavyweight concrete	0.	5000	0.000				
	3	77	AIR LAYER, 3/4IN TO 4IN, HO ROOFS	ORIZ.		0.000				
	4	264	ALUMINUM, 1/16 IN	0.	0050	0.000				
No	Name		Simple Construct	Massless Construct	Conducta [Btu/h.sf		leat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1064	4" Thick Roof P	anel	No	No	0.06		0.65	15.73	16.7	
	Layer	Material No.	Material	Th	ickness [ft]	Framing Factor	5			
	1	264	ALUMINUM, 1/16 IN	0.	0050	0.000				
	2	1003	POLYSTRENE, EXP., 4IN,	0.	3333	0.000				



## Mardan Fabrication

## Structural Analysis for V15-080-9 60120-SL2

Contents	Pages
Design Loads	1 3
RT 3 x 3 x .125 6063-T6	4 10
#12 screw capacities	11
Exterior Wall Framing	12
RT 3 x 3 x .25 6063-T6	13 19
Main Wind Force Resisting System	20 21
Sliding, Uplifting, and Overturning	22 23



#### **Mardan Fabrication**

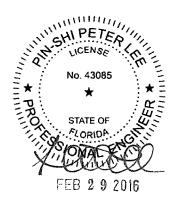
2/23/2016

#### Structural Analysis for V15-080-9 60120-SL2

Building dimensions:	6' 0	" (W) x 12' 0"(L) :		
	Ext	erior wall height:	90	) in
	Roc	of vertical project	ion:	8 in
	Roc	of slope:	1.2	•
	Roc	of overhang:	0	) in
	Me	an roof height:	8.5	ft
Roof live load:	Lr=	30 psf	(ASCE Tabl	le 4-1)
Floor live load:	L=	50 psf	-	·
Ground snow load:	Pg=	0 psf	(ASCE Figu	re 7-1)
Risk category: II	(ASCE Table 1.5	5-1)		
Wind load: 175 mph exposure C	(ASCE Figure 20	5.5-1A)	Assuming	Kzt=1.0
Earthquake load:	Ss=	0.041 g with si	te class B	(ASCE figure 22-1)
	S1=	0.020 g with si	te class B	(ASCE figure 22-2)
	Site class: D			
Roof dead load:	5 psf	(	4 psf for upli	ift)
Exterior wall dead load:	5 psf	-	•	·
	· · · · ·			
Floor dead load:	5 psf	(	4 psf for upli	ift)

Design references:

ASCE/SEI 7-10 ANSI/AF & PA NDS-2012 ANSI/AF & PA SDPWS-2008 AISC Steel Construction Manual 13th edition AISI NASPEC 2007 AISI Manual 2008 Edition Aluminum Design Manual 2010



#### Mardan Fabrication

2/23/2016

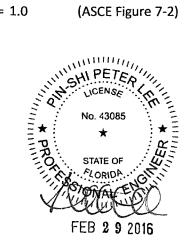
## Structural Analysis for V15-080-9 60120-SL2

Snow Load

Pf=	0 psf	(ASCE 7.3-1)	Ce= 1.0	(ASCE Table 7-2)
			Ct= 1.0	(ASCE Table 7-3)
			ls= 1.0	(ASCE Table 1.5-2)
Pm=	0 psf	(ASCE 7.3.4)		
Ps=	0 psf	(ASCE 7.4-1)	Cs= 1.0	(ASCE Figure 7-2)

Unbalanced snow load: W< 20 ft Ps= na psf

Drifting snow: na



Wind Load

	λ= 1.21
	Kzt= 1.0
MWFRS - Envelope Procedure Part 2:	(ASCE Figure 28.6-1)

_	А	В	С	D	E	F	G	н
Ps₃₀(psf)	48.70	-25.30	32.30	-14.98	-58.48	-33.25	-40.75	-25.78
Ps(psf)	58.93	-30.61	39.08	-18.13	-70.76	-40.23	-49.31	-31.19

_	Eoh	Goh
Ps₃₀(psf)	-81.88	-64.15
Ps(psf)	-99.07	-77.62

Components and Cladding - Part 2:

(ASCE Figure 30.5-1)

	Roof		Wall		Roof overhang		
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 2	Zone 3
Pnet₃o	-55.25	-92.68	-139.48	-57.43	-68.98	-79.58	-131.05
Pnet	-66.85	-112.14	-168.76	-69.48	-83.46	-96.29	-158.57
	psf	psf	psf	psf	psf	psf	psf

## Mardan Fabrication

2/23/2016

#### Structural Analysis for V15-080-9 60120-SL2

#### Earthquake Load

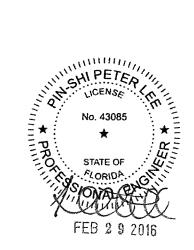
Sms=	0.066 g (ASCE 11.4-1)	where	Fa= 1.6	
Sds=	0.044 g (ASCE 11.4-3)			
Sm₁=	0.048 g (ASCE 11.4-2)	where	Fv= 2.4	
Sd1=	0.032 g (ASCE 11.4-4)			

Seismic Design Category: A

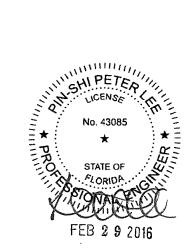
Cs=	0.012 <== (ASCE 12.8-2)	where	R= 3.5	(ASCE Table 12.2-1)
			le= 1.0	(ASCE Table 1.5-2)
Ta=	0.155129	where	Ct= 0.028	(ASCE Table 12.8-2)
			x= 0.8	(ASCE Table 12.8-2)
			hn= 8.5	
T=	0.263719	where	Cu= 1.7	(ASCE Table 12.8-1)
Cs=	0.035 (ASCE 12.8-3)	for T <tl= 8<="" td=""><td></td><td></td></tl=>		

Cs=	0.035 (ASCE 12.8-3)	for T <tl< th=""></tl<>
Dead Load:		

Roof:	Dr=	360 lbs		
Wall:	Dw=	1350 lbs		
Floor:	Df=	360 lbs		
St. frame:	Dst=	0 lbs		
Snow load:	S=	0 lbs	Building weight=	2070 lbs
Base shear=	26 lbs	(ASCE 12.8-1)		



Mardan Fab	rication	,			2/23/2016
Structural An	alysis for V15-08	<u>0-9 60120-SL2</u>			
<u>Aluminum Sh</u>	ape RT 3 x 3 x .12	<u>5</u>			
Alloy-Temper	: 6063-T6	i			
Mechanical p	roperties:	(ADM Table	e A.3.4)		
Ftu =	30 ksi	F ty =	25 ksi	F cy =	25 ksi
F su =	19 ksi	E =	10100 ksi	F sy =	15 ksi
Shape:	(ADM T	able 23)			
A =	1.44 in²				
i x =	1.980 in⁴	S x =	1.320 in <sup>3</sup>	r x =	1.173 in
l y =	1.980 in⁴	S y =	1.320 in <sup>3</sup>	r y =	1.173 in
Buckling cons	tants:	(ADM Table	e B.4.2)		
Bc= 2	7.63523 ksi	D c =	0.144555 ksi	C c =	78.381395
Bp= 3	1.38591 ksi	D p =	0.174961 ksi	C p =	73.549067
Bbr= 4	6.11561 ksi	D br =	0.381643 ksi	C br =	80.556359
B s = 1	8.98497 ksi	D s =	0.08231 ksi	C s =	94.566995
Post buckling	constants:	(ADM Table	B.4.3)		
In	compression:	k <sub>1</sub> =	0.35	k <sub>2</sub> = 2.27	
In	flexure:	k <sub>1</sub> =	0.50	k <sub>2</sub> = 2.04	



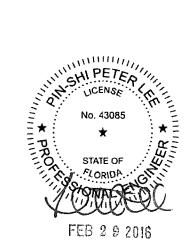
#### Structural Analysis for V15-080-9 60120-SL2

Element in uniform compression:

b/t =	22	
Fc=Fco		(ADM B.5-3)

Flat element supported on both edges:

Yielding:	S <sub>1</sub> =	22.8119	
	$b/t \le S_1$		YES
	F c =	25	ksi
Buckling:	S <sub>2</sub> =	39.24112	
S <sub>1</sub> <	b/t < S <sub>2</sub>		NO
	F c =	na	ksi
	b/t≥S₂		NO
	F c =	na	ksi
<b>B</b> . 1 . 1 1	-		
Post buckling:		39.24112	
	b/t > S₂		NO
	F c =	na	ksi
_			
F c =	25	ksi	



2/23/2016

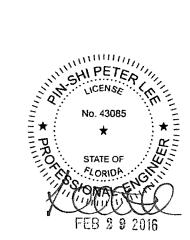
#### Structural Analysis for V15-080-9 60120-SL2

Element in flexure:

b/t = 22 F b = F bo (ADM B.5-12)

Flat element supported on both edges

Yielding:	S <sub>1</sub> =	54.8867	
	b/t ≤ S <sub>1</sub>		YES
	F b =	32.5	ksi
Buckling:	S2 =	65.06475	
S1 <	: b/t < S₂		NO
	F b =	na	ksi
	b/t≥S₂		NO
	F b =	na	ksi
F b =	32.5	ksi	



6/

2/23/2016

## Mardan Fabrication

2/23/2016

### Structural Analysis for V15-080-9 60120-SL2

Axial Tension:

$Pa = Pn / \Omega t$	where	Ωt = 1.95	for rupture
		Ωt = 1.65	for yielding

 $A = A = 1.44 \text{ in}^2$ 

Yielding:

P n =	36 kips	(ADM D.2-1)
P a =	21.818 kips	
=	21818 lbs	

#### Rupture:

P n =	43.2 kips	(ADM D.2-3)
k t = 1	.0	(ADM Table A.3.3)
Pa=	22.154 kips	
=	22154 lbs	

P a = 21818 lbs

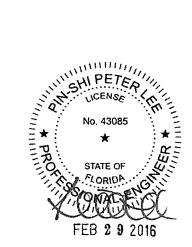


2/23/2016

### Structural Analysis for V15-080-9 60120-SL2

Axial Compression:

$Pa = Pn / \Omega$	с	where	Ω c = 1.65
S 2 =	78.3814		(ADM E.3-4)
KL =	90	in	
KL / r =	76.7523	≤S₂	YES
F c =	14.059	ksi	(ADM E.3-2, E.3-3)
P n =	20.245	kips	
P a =	12.270	kips	
=	12270	lbs	



#### Mardan Fabrication

2/23/2016

<b>Structural Anal</b>	ysis for V15-080-9	9 60120-SL2

Flexure:

M a = M n / Ω b		where	Ωb=	1.65
L bx =	45 in			

Let Cb = 1.0 and rxe = rx

#### S<sub>2</sub> = 94.05767

L bx /(r ye\*C b^(1/2))=  $38.37613 \le S_2$  YES

- F bx = 23.012 ksi (ADM F.2.1)
- M nx = 30.376 kip-in M ax = 18.410 kip-in = 18410 lb-in

L by = 90 in

Let

#### S<sub>2</sub> = 94.05767

L by  $/(r xe^*C b^{(1/2)}) = 76.75226 \le S_2$  YES

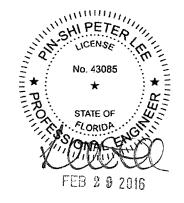
C b = 1.0

Fby	= 18.389 ksi	(F.2.1)
	10.000 (0.0	11.44.47

and

rye = ry

M ny =	24.274 kip-in
M ay =	14.712 kip-in
=	14712 lb-in



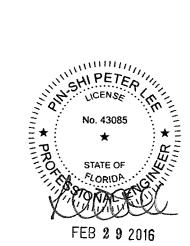
## **Mardan Fabrication**

2/23/2016

## Structural Analysis for V15-080-9 60120-SL2

Shear:

V a = V n / C	) v	where	Ω v =	1.65
S <sub>1</sub> =	38.73119		S 2 =	75.6536
b / t =	22 ≤ S <sub>1</sub>	Yes		
Fs = Fsy =	15 ksi		A w =	0.75 in <sup>2</sup>
V n =	11.25 kips	5		(ADM G.2-1)
V a =	6.818 kips	i		
=	6818 lbs			



## Mardan Fabrication

2/23/2016

## Structural Analysis for V15-080-9 60120-SL2

Screw:	#12 x 1"	D =	0.216 in		Ω = 3.0
t <sub>1</sub> =	0.125 in		t2 =	0.125 in	
F ty₁ =	16000 psi		F ty₂ =	25000 psi	
F tu <sub>1</sub> =	22000 psi		F tu <sub>2</sub> =	30000 psi	

#### Screw Pull-Out:

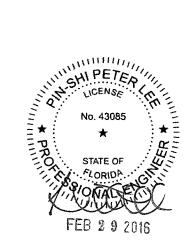
Rn =	810 lbs	(ADM J.5-1)
Rn / Ω =	270 lbs	

#### Screw Bearing:

Rn =	1188 lbs	(ADM J.5-12)
Rn / Ω =	396.0 lbs	

#### Screw Tilting:

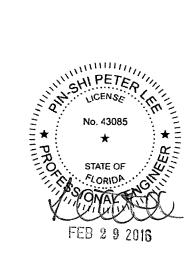
Rn =	2588 lbs	(ADM J.5-13)
Rn / Ω =	862.7 lbs	



		Peter Leo 23329 Ce Elkhart	entur	y Drive	
Mardan Fal	brication				2/23/2016
Structural A	nalysis for V15-0	80-9 60120-SL	<u>2</u>		
Exterior Wal					
RT 3 x 3 x .12					
Tributary wie Length:	dth:	36 " 90 in			
Fy=	25 ksi	Fu	-	30 ksi	E= 1.01E+07
Beam Prope	rties :				
Sex=	1.320 in <sup>3</sup>	lex	=	1.980 in <sup>4</sup>	
Vnx=	6818 lbs	Ωv=	= 1.6	5	
Vnx/Ωv=	4132 lbs				
Flexural Stre	ngth:				AND APETER IN
Mnx=	30376 lb-in	Ωb=	= 1.6	5	LICENSE
Mnx/Ωb=	18410 lb-in				No. 43085
Axial Strengt	:h:				PROS STATE OF
Pn=	20245 lbs	Ωc=	= 1.6	5	STONAV CE CY
Pn/Ωc=	12270 lbs				XULTU
D+S: N	lot significant				FEB 2 9 2016
D+Lr:					
P=	315 lbs	≤ Pn/Ωc	ОК		
D+0.6W (Zor	ne 5, lateral load):	:			
p=	45 lbs	≤ Pn/Ωc	ОК		
Ωc P/Pn=	0.004	≤ 0.15	YES	5	
w=	12.5190 pli				
M=	12675 lb-in	≤ Mnx/Ωb	OK		
(ΩcP/Pn)+(Ω	bMx/Mnx)+(ΩbN	ly/Mny)=		0.692 <1	ОК
V=	563 lbs	≤Vnx/Ωv	ОК		

Four(4) #12 screws each end for shear.

	Elkhart, IN 46514		1
Mardan Fabrication			2/23/2016
Structural Analysis for V15-08	0-9 60120-SL2		
Aluminum Shape RT 3 x 3 x .25	<u>.</u>		
Alloy-Temper: 6063-Te	5		
Mechanical properties:	(ADM Table A.3.4)		
F tu = 30 ksi	F ty = 25 ksi	F cy =	25 ksi
F su = 19 ksi	E = 10100 ksi	F sy =	15 ksi
Shape: (ADM T	able 23)		
$A = 2.75 \text{ in}^2$			
l x = 3.490 in⁴	S x = 2.330 in <sup>3</sup>	r x =	1.127 in
$1y = 3.490 \text{ in}^4$	S y = 2.330 in <sup>3</sup>	r y =	1.127 in
Buckling constants:	(ADM Table B.4.2)		
B c = 27.63523 ksi	D c = 0.144555 ksi	C c =	78.381395
B p = 31.38591 ksi	D p = 0.174961 ksi	C p =	73.549067
B br = 46.11561 ksi	D br = 0.381643 ksi	C br =	80.556359
B s = 18.98497 ksi	D s = 0.08231 ksi	C s =	94.566995
Post buckling constants:	(ADM Table B.4.3)		
In compression:	k <sub>1</sub> = 0.35	k <sub>2</sub> = 2.27	
In flexure:	$k_1 = 0.50$	k <sub>2</sub> = 2.04	



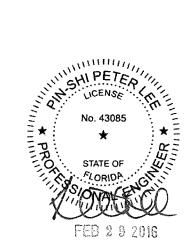
#### Structural Analysis for V15-080-9 60120-SL2

Element in uniform compression:

b/t =	10	
Fc=Fco		(ADM B.5-3)

Flat element supported on both edges:

Yielding:	S <sub>1</sub> =	22.8119	
	b/t ≤ S₁		YES
	F c =	25	ksi
Buckling:	S <sub>2</sub> =	39.24112	
S <sub>1</sub> <	$b/t < S_2$		NO
	F c =	na	ksi
	b/t≥S₂		NO
	Fc=	na	ksi
Post buckling:	S <sub>2</sub> =	39.24112	
	$b/t > S_2$		NO
	F c =	na	ksi
F c =	25	ksi	



14/

2/23/2016

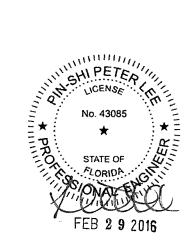
Structural Analysis for V15-080-9 60120-SL2

Element in flexure:

b/t = 10 F b = F bo (ADM B.5-12)

Flat element supported on both edges

Yielding:	S <sub>1</sub> =	54.8867	
	b/t ≤ S₁		YES
	F b =	32.5	ksi
Buckling:	S <sub>2</sub> =	65.06475	
S1 <	: b/t < S₂		NO
	F b =	na	ksi
	b/t ≥ S₂		NO
	F b =	na	ksi
F b =	32.5	ksi	



15/

2/23/2016

#### **Mardan Fabrication**

2/23/2016

## Structural Analysis for V15-080-9 60120-SL2

Axial Tension:

$Pa = Pn / \Omega t$	where	Ωt = 1.95	for rupture
		Ωt = 1.65	for yielding

 $A = A = 2.75 \text{ in}^2$ 

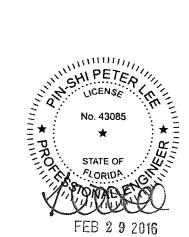
Yielding:

Pn=	68.75 kips	(ADM D.2-1)
Pa=	41.667 kips	
=	41667 lbs	

#### **Rupture:**

P n =	82.5 kips	(ADM D.2-3)
k t = 1	.0	(ADM Table A.3.3)
Pa=	42.308 kips	
=	42308 lbs	

P a = 41667 lbs

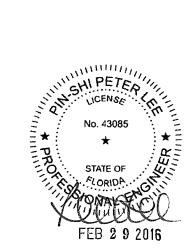


2/23/2016

## Structural Analysis for V15-080-9 60120-SL2

Axial Compression:

$Pa = Pn / \Omega$	С	where	Ωc = 1.65
S 2 =	78.3814		(ADM E.3-4)
KL =	45	in	
KL / r =	39.9453	≤S₂	YES
F c =	18.582	ksi	(ADM E.3-2, E.3-3)
P n =	51.100	kips	
Pa=	30.970	kips	
	30970	lbs	



.

rxe = rx

rye = ry

### **Mardan Fabrication**

18/

2/23/2016

### Structural Analysis for V15-080-9 60120-SL2

Flexure:

M a = M n / $\Omega$ b		where	Ω b =	1.65
L bx =	45 in			

and

and

Let

### S<sub>2</sub> = 94.05767

L bx /(r ye\*C b^(1/2))=  $39.94534 \le S_2$  YES

C b = 1.0

- F bx = 22.823 ksi (ADM F.2.1)
- M nx = 53.178 kip-in M ax = 32.229 kip-in = 32229 lb-in

L by = 45 in

Let

#### S<sub>2</sub> = 94.05767

L by  $/(r xe^*C b^{(1/2)})= 39.94534 \le S_2$  YES

C b = 1.0

F by = 22.823 ksi (F.2.1)

M ny =	53.178	kip-in
M ay =	32.229	kip-in
=	32229	lb-in



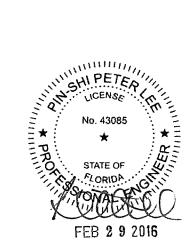
## Mardan Fabrication

2/23/2016

## Structural Analysis for V15-080-9 60120-SL2

Shear:

V a = V n / G	Σv	where	Ω v =	1.65
S <sub>1</sub> =	38.73119		S 2 =	75.6536
b / t =	$10 \leq S_1$	Yes		
Fs = Fsy =	15 ksi		A w =	1.5 in²
V n =	22.5 kip	5	(/	ADM G.2-1)
V a = =	13.636 kips 13636 lbs	5		



### **Mardan Fabrication**

2/23/2016

## Structural Analysis for V15-080-9 60120-SL2

### Main Wind Force Resisting System

Vertical wall frames are resisting the lateral shear loads

Wind direction: Perpendicular to the length of the building

Wall length =	1	2 ft	End zone length =	6 ft
Stud length =	90	0 in		
Roof heel =		8 in		
Roof ridge =	(	0 in		
Shear S =	937 lbs			
Min. shear=	254 lbs	(ASCE 28.6	.4)	

## Wind direction: Parallel to the length of the building

Wall length =		6 ft	End zone length =	= 3 ft
Stud length =		90 in		5.11
Roof heel =		8 in	•	
Roof ridge =		0 in		
Shear S =	468 lbs			
Min. shear=	127 lbs	(ASC	CE 28.6.4)	SHIPETER
				ALL LICENSE THE
				No. 43085



20/

#### **Mardan Fabrication**

2/23/2016

### Structural Analysis for V15-080-9 60120-SL2

Seismic Load at Ceiling Line:

Fr = 13 lbs (ASCE 12.14-12)

Load in plan S-N direction:

Two(2) RT 3 x 3 x .25 6063-T6 in each east and west walls resist load at ceiling.Max. load on top of each vertical=468 lbsVerticals are supported at 45" from floor, rotation and translation free at top.

M =	21081 lb-in	<mn th="" ωb<=""></mn>
V =	468 lbs	<vn td="" ωv<=""></vn>

Load in plan E-W direction:

Two(2) RT 3 x 3 x .25 6063-T6 verticals in each south and north walls resist load at ceiling.Max. load on top of each vertical=234 lbsVerticals are supported at 45" from floor, rotation and translation free at top.

M =	10541 lb-in	<mnx th="" ωb<=""></mnx>
V =	234 lbs	<vn th="" ωv<=""></vn>



### **Mardan Fabrication**

2/23/2016

Structural Analysis for V15-080-9 60120-SL2

### Sliding, Uplifting, and Overturning

**Tie-Downs:** 

The building is anchored to the concrete pad with ten(10) 1/2 " expansion bolt. A min. 3" embedment in the min. 3000 psi concrete. (Power-Stud of Powers Fasteners)

Allowable tension load per bolt=	1655 lbs
allowable shear load per bolt=	1665 lbs

Floor depth = 3 in

Sliding :

Wind/seismic load perpendicular to the length of the building,

Total sliding load =3571 lbsShear load in each anchor=357 lbsOK

Wind/seismic load parallel to the length of the building,

Total sliding load =	1785 lbs		
Shear load in each anchor=		179 lbs	OK

**Uplifting**:

Uplift load=42.45648 psf60% building weight=7.8 psf

Total uplift=	2495 lbs		
Tension load in each anchor	r=	250 lbs	ОК



### **Mardan Fabrication**

2/23/2016

## Structural Analysis for V15-080-9 60120-SL2

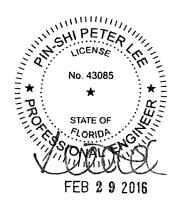
Overturning :

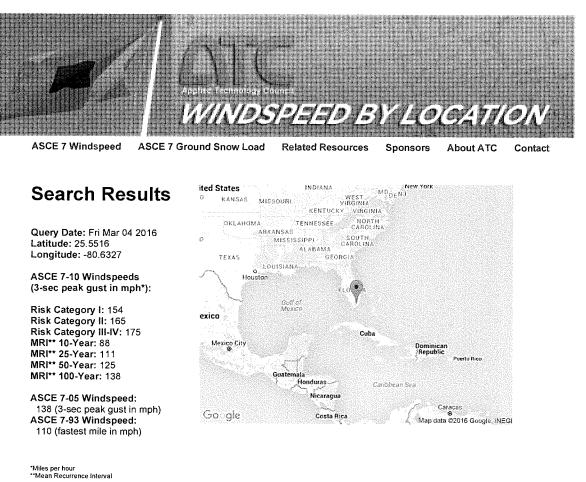
Wind/seismic load perpendicular to the length of the building,

Overturning moment =	264100 lb-in	
Resistance lever arm =	72 in	
Tension load in each anchor=	734 lbs	ОК

Wind/seismic load parallel to the length of the building,

Overturning moment =	266795 lb-in	
Resistance lever arm =	144 in	
Tension load in each anchor=	463 lbs	ОК
(Nu/Nn)^(5/3)+(Vu/Vn)^(5/3)=	0.335 ≤ 1	ОК





Users should consult with local building officials

to determine if there are community-specific wind speed requirements that govern.



#### WINDSPEED WEBSITE DISCLAIMER

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the windspeed report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed load report.

Sponsored by the ATC Endowment Fund • Applied Technology Council • 201 Redwood Shores Parkway, Suite 240 • Redwood City, California 94065 • (650) 595-1542

# Florida Building Code Online

Florida Department g	or Professional Regulation BCIS Home Log In User Registration Hot Topics Subm	ADDITALIO - A CONTRACTOR - AND ADDITALION - AND ADDITALIO
Business ()) Professional Regulation	Product Approval USER: Public User	
License efficiently, Regulate fairly,	Product Approval Menu > Product or Application Search > Application	on List > Application Detail
→ e)fr(e=(e)=(t))=	FL #	FL7561-R3
ERCENTION.	Application Type	Revision
	Code Version	2014
	Application Status	Approved
	Comments	
	Archived	
	Product Manufacturer Address/Phone/Email	Elite Aluminum Corporation 4650 Lyons Technology Parkway Coconut Creek, FL 33073 (954) 949-3200 dk@dokimengineering.net
	Authorized Signature	Do Kim dk@dokimengineering.net
	Technical Representative Address/Phone/Email	Dan Cooke 1801 NW 64th Street Ft. Lauderdale, FL 33309 (954) 491-3700 elitealum@aol.com
	Quality Assurance Representative Address/Phone/Email	
	Category	Roofing
	Subcategory	Products Introduced as a Result of New Technology
	Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer S Evaluation Report - Hardcopy Received
	Florida Engineer or Architect Name who developed the Evaluation Report	Do Kim, P.E.
	Florida License	PE-49497
	Quality Assurance Entity Quality Assurance Contract Expiration Date	Quality Auditing-Institute Ltd.
	Validated By	11/30/2020 James L. Buckner, P.E. at CBUCK Engineering
		Validation Checklist - Hardcopy Received
	Certificate of Independence	FL7561 R3 COI Cert of Independence.pdf
	Referenced Standard and Year (of Standard)	
	Equivalence of Product Standards Certified By	
	Sections from the Code	1709.2

.

Product Approval Method	Method 2 Option B
Date Submitted	04/30/2015
Date Validated	05/01/2015
Date Pending FBC Approval	05/10/2015
Date Approved	06/23/2015

#### Summary of Products

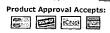
FL #	Model, Number or Name	Description
7561.1	Aluminum/Aluminum Composite Panels	3"/4"/6"x0.024"x1lb EPS Composite Panel, 3"/4"/6"x0.032x1lb EPS Composite Panel, 3"/4"/6"x0.024"x2lb EPS Composite Panel, 3"/4"/6"x0.030"x2lb EPS Composite Panel,
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +80/-80 Other: In HVHZ, not to be used in structures considered living areas per FBC Section 1616 unless impact protection is provided. See installation drawing for nominal allowable design pressures and spans.		Installation Instructions FL7561 R3 II Elite FL7561-R3 2014 FBC Installation Dwg.pdf Verified By: Do Kim, P.E. PE 49497 Created by Independent Third Party: Yes Evaluation Reports FL7561 R3 AE Elite Alum FL7561-R3 2014 FBC Evaluation.pdf Created by Independent Third Party: Yes

Back Next

Contact Us :: 1940 North Monroe Street, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: Privacy Statement :: Accessibility Statement :: Refund Statement

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. "Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click <u>here</u>.







DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

### **NOTICE OF ACCEPTANCE (NOA)**

Tremco, Inc. 3735 Green Road Beachwood, OH 44212

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

## **DESCRIPTION:** Solargard® Elastomeric 6083 Maintenance Coating System

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and 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 renews and revises NOA# 08-0827.24 and consists of pages 1 through 9. The submitted documentation was reviewed by Alex Tigera.



ALPHA

NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 1 of 9

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/ceonomy

## **ROOFING COMPONENT APPROVAL**

Category:
Sub-Category:
Materials:

Roofing Cement-Adhesive-Coatings Elastomeric

### SCOPE:

This approves "**Solargard<sup>®</sup> Elastomeric 6083 Maintenance Coating System**" as a maintenance roof coating as manufactured by Tremco, Inc., as described in this Notice of Acceptance, designed to comply with the Florida Building Code.

## **PRODUCT DESCRIPTION**

<u>Manufactured by</u> <u>Applicant</u>	<b>Dimensions</b>	Test <u>Specifications</u>	Product <u>Description</u>
Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating	1, 5 or 53 gal.	TAS 114	Liquid-applied, elastomeric roofing material.
(Manuf. Loc. #1)			
Solargard Rust Primer WB	1 or 5 gal.	Proprietary	Quick drying, asbestos free, water-based primer for
(Manuf. Loc. #1)			smooth or granular surface asphalt and modified bitumen roofs.
Solargard Seam Sealer	2 or 5 gal.	Proprietary	White, single component, high solids moisture
(Manuf. Loc. #2)			curing, polyurethane sealer used for waterproofing a variety of roofing substrates.
Solargard Acrylic Sealer	1 or 5 gal.	Proprietary	High solids, acrylic elastomeric sealer used on a
(Manuf. Loc. #1)			variety of roofing and wall substrates.
Tremprime WB	1 or 5 gal.	Proprietary	Water-based primer used for smooth or granular
(Manuf. Loc. #1)			surface asphalt and modifiec bitumen roofs.
Solargard Masonry Primer	l or 5 gal.	Proprietary	Acrylic Primer bonds to brick, stone, concrete,
(Manuf. Loc. #1)			plaster, stucco and other cementitious surfaces.
SP Primer	1 or 5 gal.	Proprietary	Water-based, acrylic primer used on various base
(Manuf. Loc. #1)			surfaces.

## MANUFACTURING LOCATION

- 1. Medina, OH
- 2. Cleveland, OH



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 2 of 9

## **EVIDENCE SUBMITTED**

<b>Test Agency</b>	<u>Test Identifier</u>	Test Name/Report	<u>Date</u>
Momentum Technologies, Inc.	EX08G4A	ASTM D6083	09/08/04
Trinity ERD	R10940.08.08	Adhesion Performance PA 114, Appendix H	08/07/08

## **BUILDING PERMIT REQUIREMENTS:**

Application for building permit shall be accompanied by copies of the following:

- 1. This Notice of Acceptance.
- 2. Any other documents required by the Building Official or the Applicable Building Code in order to properly evaluate the installation of this system.

### **PHYSICAL PROPERTIES OF COMPONENTS**

Trade name:	Solargard® Elastomeric 6083 Maintenance Coating
Thickness:	See Systems Approvals below.
Specifications:	ASTM D 6083
Description:	Coating system used for waterproofing and weatherproofing roofs.
Container Size:	1, 5, or 53 gallons. Note all cautions on container label.
Systems Approvals:	Methods of application and quantities shall comply with specific Roof Assembly, Product Control Notice of Acceptance.



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 3 of 9

.

## **APPROVED MAINTENANCE COATING APPLICATION:**

Substrate:	Coated Metal
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. Check for adhesion and compatibility of any remaining, tightly adhered, existing coating with Solargard. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	Solargard Rust Primer WB at approximately 200 ft <sup>2</sup> /gal
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats at 1 gal./100 ft <sup>2</sup> (16 wet mils) per coat. Wait 12-24 hours between coats. Apply the system in a Buff Base Coat and White (or selected color) Finish Coat. The coverage rates shown are intended as minimum application requirements. The surface dictates actual coverage needed. On metal roofs with irregular panel and rib design, multiply feet by 1.15 to calculate actual surface area to be coated.
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 gal./100 $ft^2$
Substrate:	Galvanized Metal
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	Solargard Rust Primer WB at approximately 200 ft <sup>2</sup> /gal
Surface Treatment:	New galvanized panels must be weathered a minimum of six months or treated with a phosphoric acid wash to remove factory oil film. The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats at 1 gal./100 sq. ft. (16 wet mils) per coat. Wait 12-24 hours between coats. Apply the system in a Buff Base Coat and White (or selected color) Finish Coat. The coverage rates shown are intended as minimum application requirements. The surface dictates actual coverage needed. On metal roofs with irregular panel and rib design, multiply feet by 1.15 to calculate actual surface area to be coated.
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 gal./100 $\mathrm{ft}^2$



•

NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 4 of 9

Substrate:	Concrete
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	SP Primer or Solargard Masonry Primer at the rate of 200ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats at 1-1/2 gal./100 sq. ft. (16 wet mils) per coat. Wait 12-24 hours between coats. Apply the system in a Buff Base Coat and White (or selected color) Finish Coat. The coverage rates shown are intended as minimum application requirements. The surface dictates actual coverage needed.
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at $1-1/2$ gal./100 ft <sup>2</sup>
Substrate:	Smooth BUR
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	Tremprime WB Primer at the rate of $200 - 400 \text{ ft}^2/\text{gal}$ .
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats over a prepared, and primed, roof at the rate of $1\frac{1}{2}$ gal./100 ft <sup>2</sup> (24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 3 gal. /100 ft <sup>2</sup> .
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 to $1-1/2$ gal./100 ft <sup>2</sup>



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 5 of 9

Substrate:	Smooth Modified Bitumen
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	Tremprime WB Primer at the rate of $200 - 400$ ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating is to be applied in two coats over a prepared, and primed, roof at the rate of 1 $\frac{1}{2}$ gal./100 ft <sup>2</sup> (24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 3 gal. /100 ft <sup>2</sup> .
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 to 1- $1/2$ gal./100 ft <sup>2</sup>
Substrate:	PVC
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	SP Primer at the rate of 200–300 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to 1 ½ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet mils).
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 to 1- $1/2$ gal./100 ft <sup>2</sup>



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 6 of 9

Substrate:	ТРО
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	SP Primer at the rate of 200–300 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to 1 ½ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet mils).
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1 to 1- $1/2$ gal./100 ft <sup>2</sup>
Substrate:	EPDM
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	SP Primer at the rate of 200–300 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to 1 ½ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet
	mils).



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 7 of 9

Substrate:	Granule Surfaced Modified Bitumen
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	Tremprime WB Primer at the rate of 200–400 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to 1 ½ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet mils).
Top Coat:	Finish Coat as described above in the "Foundation Coating" section is to be applied at 1-1/2 gal./100 $ft^2$
Substrate:	Existing acrylic (water-based) coatings
Preparation:	The surface shall be clean, sound and dry prior to application of Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating. All surface preparation, and repairs, shall be in compliance with the Solargard's published application instructions and current Miami-Dade Notice of Acceptance.
Primer:	If required by project, <i>Solargard Rust Primer WB</i> at approximately 200 ft <sup>2</sup> /gal or <i>SP Primer</i> at a rate of 200-300 ft <sup>2</sup> /gal, or <i>Tremprime WB Primer</i> at a rate of 200-400 ft <sup>2</sup> /gal.
Surface Treatment:	The base of all roof penetrations and curbs, i.e. stacks, vents, etc., must be sealed using Solargard Seam Sealer or Solargard Acrylic Sealer at the rate of 30 - 40 lineal ft./gal.
Foundation Coating:	Apply Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating over prepared and primed roof at the rate of 1 to 1 ½ gal./100 sq. ft. (16-24 wet mils). Allow first coat to fully cure prior to the application of the assent east. The whole surface when first has here been applied to the second sect.
	application of the second coat. The whole surface, when finished, should have Solargard <sup>®</sup> Elastomeric 6083 Maintenance Coating on it at a rate of 2 to 3 gal./100 sq. ft. (32-48 wet mils).



## LIMITATIONS:

- 1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire rating of this product.
- 2. All products shall be applied in strict compliance with Manufacturer's published application instructions.
- 3. Tremco products shall not be applied in inclement weather conditions.
- 4. Tremco shall not be covered with stone chips, screeds, tiles or soil.
- 5. Tremco shall not be applied over existing gravel surfaces.
- 6. Approved primer is required on all unprotected iron and steel and previously painted surfaces.
- 7. The products listed herein are components of roof assemblies and are approved for use with roof assemblies that list any of the products listed herein as part of their roof assemblies Notice of Acceptance.
- 8. All products listed herein shall have an unannounced follow-up quality control program from an approved listing agency. Follow up test results shall be made available to Product Control upon request.
- 9. All approved products listed herein shall be labeled in compliance with TAS 121 and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below..



- **10.** Change in materials, use, or manufacture of any of the products listed herein shall be cause for termination of this Notice of Acceptance
- 11. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
- 12. The use of a reinforcing fabric in a maintenance coating is only to enhance the coatings ability to deliver efficient and long term performance through the protection of the underlying roof system and in this particular use does not become a roof system itself.

# END OF THIS ACCEPTANCE



NOA No.: 13-1022.10 Expiration Date: 12/11/18 Approval Date: 03/06/14 Page 9 of 9



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC) BOARD AND CODE ADMINISTRATION DIVISION

## **NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

#### **Reliable Products**

1300 Enterprise Rd. (P.O. Box 580) Geneva, AL 36340

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County BNC - Product Control Section 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 Section (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. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Model AEL-42D-7060 Aluminum Louver

**APPROVAL DOCUMENT:** Drawing No. 03S358-1N to 3N, titled "Dade County Universal Louver for PTAC Application", sheets 1 through 3 of 3, prepared by Reliable Products, dated 12/23/03, with last revision dated 09/01/05, signed and sealed by Edward P. Hutson, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

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

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and 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 renews NOA # 05-0412.01 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



1/12/11

NOA No. 11-0726.03 Expiration Date: September 22, 2016 Approval Date: September 22, 2011 Page 1

#### **Reliable Products**

### **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. 03S358-1N to 3N, titled "Dade County Universal Louver for PTAC Application", sheets 1 through 3 of 3, prepared by Reliable Products, dated 12/23/03, with last revision dated 09/01/05, signed and sealed by Edward P. Hutson, Jr., P.E.

### B. TESTS "Submitted under NOA # 05-0412.01"

- 1. Test report on Large Missile Impact Test per TAS 201, Test, Cyclic Wind Pressure Test per TAS 203, Test and Uniform Static Air Pressure Test per TAS 202 of "AEL-420-7060 Aluminum Louvers", prepared by Fenestration Testing Laboratory, Inc, laboratory No 4439, dated 01/07/05, signed and sealed by E. J. Largaespada, P.E.
- 2. Clarification letter issued by Fenestration Testing Laboratory, Inc, on 09/08/05, signed by R. Robleto.
- 3. Test report on Tensile Test per ASTM B5577 of Aluminum Flat Reduced Section, prepared by Fenestration Testing Laboratory, Inc on 03/14/05, signed and sealed by E. J. Largaespada, P.E.

## C. CALCULATIONS "Submitted under NOA # 05-0412.01"

1. Anchor Calculations prepared by Ruskin Engineering, pages 1 to 8, signed and sealed by Edward P. Hutson, Jr., P.E. on 07/01/05.

### **D. QUALITY ASSURANCE**

1. Miami-Dade Building and Neighborhood Compliance Department (BNC)

### **E.** MATERIAL CERTIFICATIONS

1. None.

### F. STATEMENTS

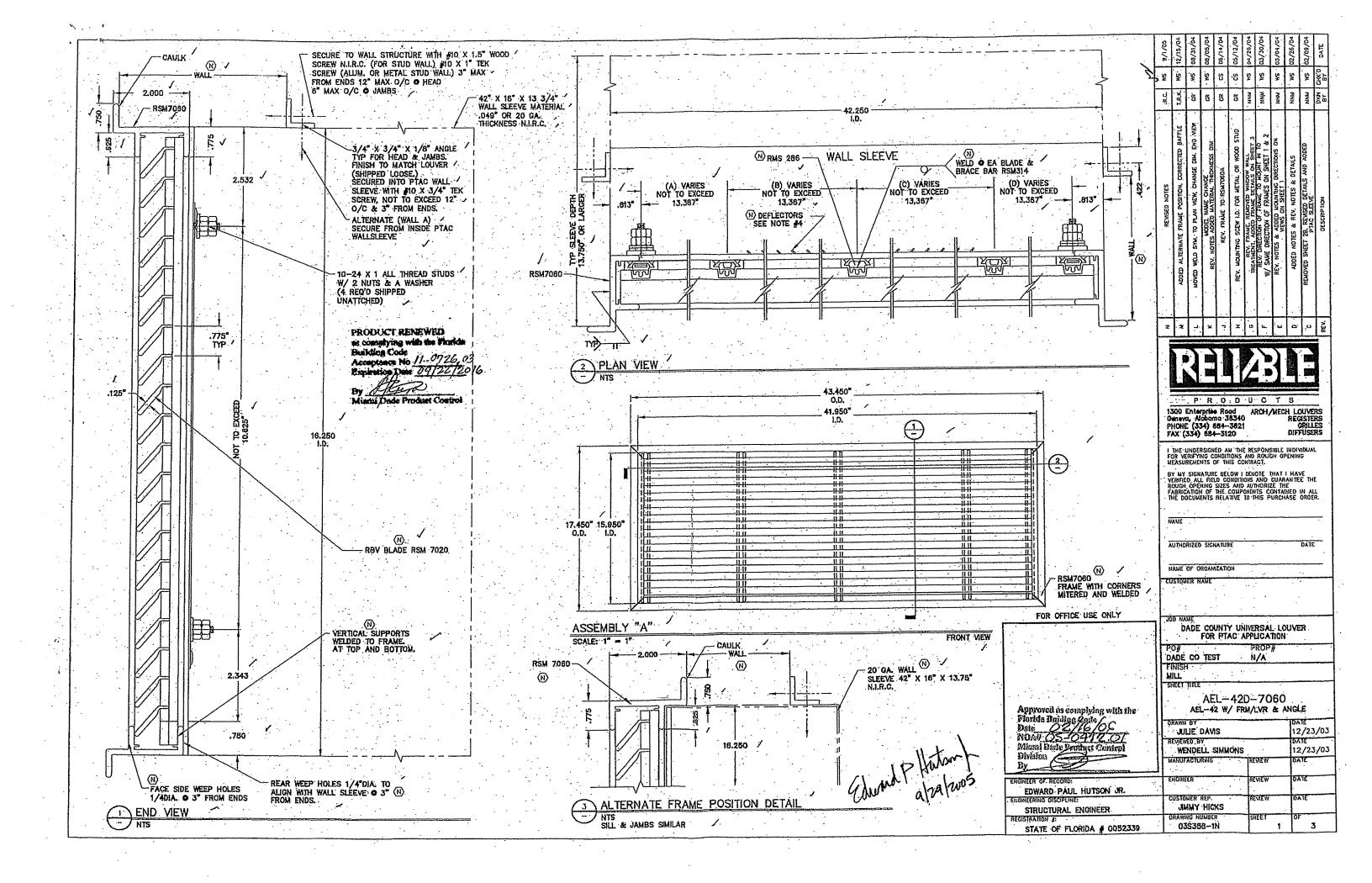
1. Statement letter of code conformance to FBC 2007, issued by Ruskin Architectural Products, dated 07/20/11, signed and sealed by Daniel J. Rau, P.E.

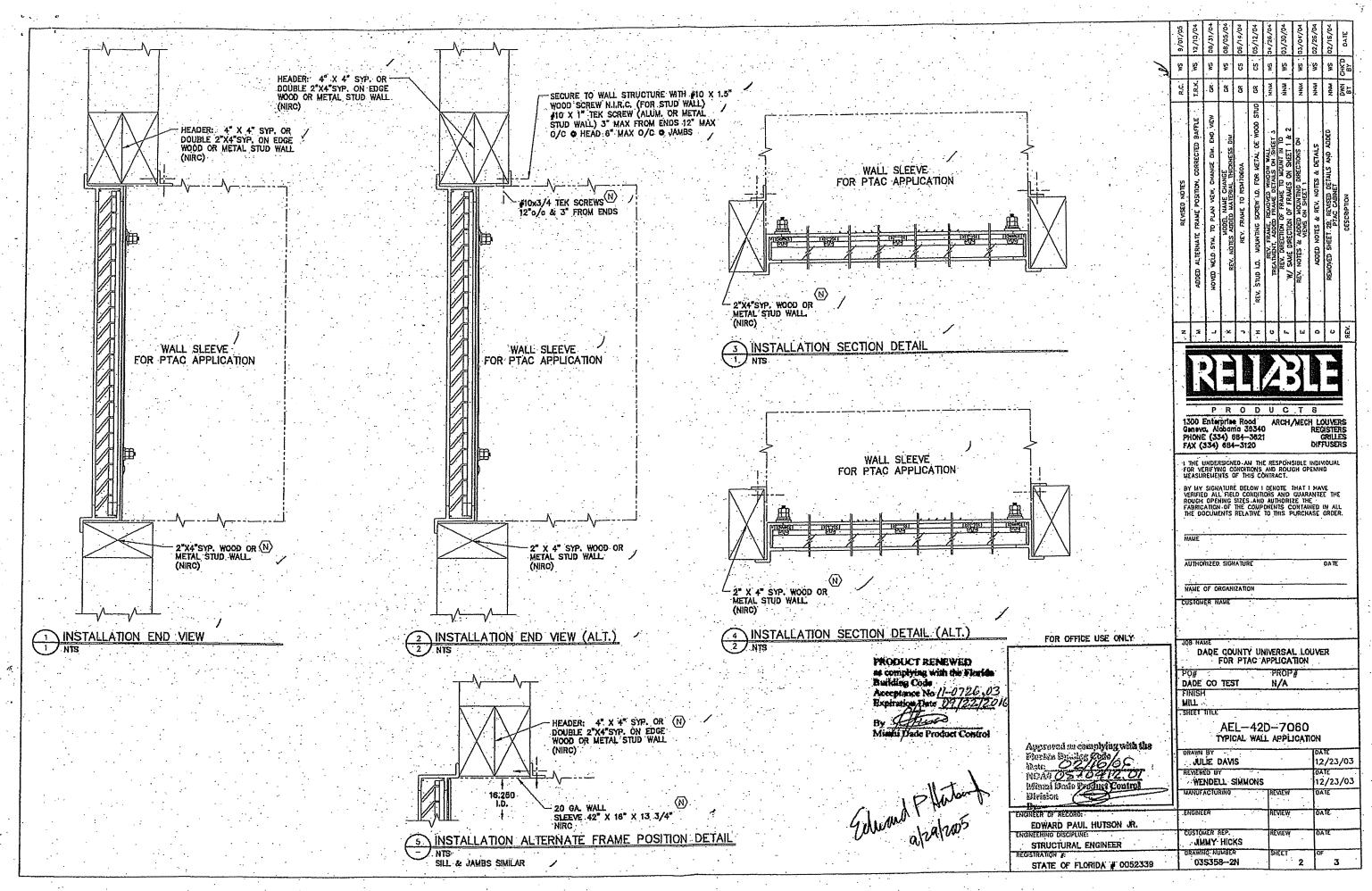
#### "Submitted under NOA # 05-0412.01"

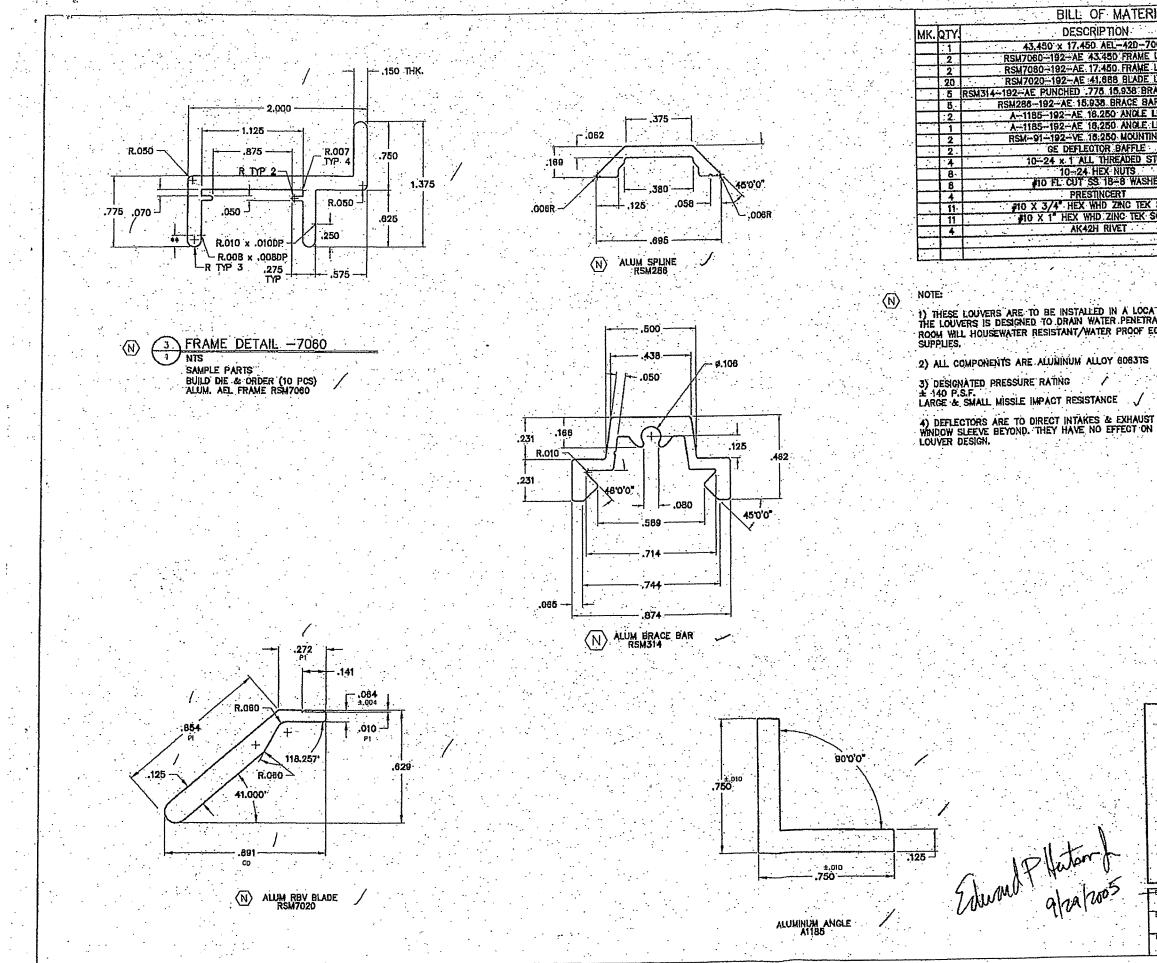
- 2. Test compliance letter issued by Fenestration Testing Laboratory Inc, on 09/27/05, signed by E. J. Largaespada, P.E.
- 3. No interest letter issued by Norton & Schmidt on 08/01/05, signed and sealed by Edward P. Hutson, Jr., PE.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 11-0726.03 Expiration Date: September 22, 2016 Approval Date: September 22, 2011

E -1







.

•

• . •

· • .: .•

															۰.
BILL OF MATERIALS	· · ·		ŝ	.8	ğ.	·§·	5	ğ	ġ.	ĕ	Ş.	ě	5		
DESCRIPTION	HFA #	DWG #	CO/1/60	20/11/10	08/31/04	09/02/00	06/14/04	02/15/04	04/26/04	\$0/05/20	40/40/CO	02/26/04	02/15/04	DATE	
0 x 17.450 AEL-420-7080		04\$358	÷											e.	
192-AE 43.450 FRAME LENGTH	124632	RSM7060 RSM7080	3≹.	S¥	ž	ŝ	<u>.8.</u>	ន	ş	¥	÷ <u>Ş</u>	Š	ş	E A	
-192-AE 17:450 FRAME LENGTH	124114	RSM7020	ᇿ	R.K.	៥	5	8	8	NNH	NNK	MNM	WNN	MNN	§a	
UNCHED .775 15.938 BRACE BAR LENGTH	131937	RSM314 RSM288	÷		·.		-		-			·			
2-AE 15.938 BRACE BAR SPLINE 192-AE 16.250 ANOLE LENGTH	131380	A-1185	•		Alem	,		STUD						l	
192-AE 18,250 ANGLE LENGTH	131380	A-1185		· ·	5			100H	'n	. "	g.	·	ឆ្ន.		
192-VE 18:250 MOUNTING BAR	430730	RSM91 430730			ENO.	NUC S	:	8.		N 10		irs;	DI AGDED		
GE DEFLECTOR BAFFLE	430287	430287	DETAILS		M.	NES		Z	W WALL	12.1	ຍີ	DETAILS	QNY		
10-24 HEX NUTS	430170	430170	50		CHANGE	병물	RSW7060A	H H	W S H	P N	88	. B.	TALS		•
FL CUT SS 18-8 WASHER PRESTINCERT	430023	430023	ADDED	BOH		A A	RSU	0.5	130 0	1C 1C	NTIN HEET	Hay	D DET	-	
4 HEX WHD ZINC TEK SCREW	431155	431155	- ×	ADDED E	PLAN NEW.	NAME CHANCE MATERIAL THICKNESS	2	ž	FRAME DETANS O	OF FRAME TO MOUNT IN N OF FRAMES ON SHEET	ADDED MOUNTING DRECTIONS VIEWS ON SHEET 1	REV. NDTES &	26, REVISED	DESCRIPTION	
1" HEX WHD ZING TEK SCREW AK42H RIVET	430941	430140	NOTES	ġ	R P	MODEL N ADDED	FRAME	PDS: 1	22.6	o z	Casa Basa Basa Basa Basa Basa Basa Basa	. 8	B, R PTAC	Sicki	
					2	S AG	~	MOUNTING SCREW I.D. FOR, METAL	RAME		<i>२५</i> स	á Te	SHEET 2	Ξ.	•
	ļ	<u>ļ_</u> .	REVISED	1	Stu.	NOTES	۴.	NON	REV. FRAME.	REV., DIRECTION OF FI SAME DIRECTION OF	NOTES	ADDED NUTES	22		
		. •	-	· .	- P	REV.		ġ	EA TA	Sev.	REV. N	ġ.	REMOVED	ľ	
			·		E S			STUS	. <sup>#</sup>	Ę.			μų.		
BE INSTALLED IN A LOCATION WHERE THE	ROOM BEI	IND	ľ	ŀ	13		ľ.	REV. S		ŀ	1	ŀ			
O DRAIN WATER PENETRATING INTO THE F	COOM ANU	IDG. /	1.		ŀ.			ач. :			1.	1.		<b>↓ ↓</b> .	
SIANI/WATER PROOF EQUIPMENT COMIN		•		┿	╋	+	┣		┢┯	ŀ÷	-	-	+		
LIMINUM ALLOY GOB3TS				· [ .=		×		Ϋ́.		<u> </u>	بس ب	<u></u>	<u>, '</u>	<u><u> </u></u>	
ATING	•	: :			~			ς.Υ		7	1	X			
ACT RESISTANCE		1					-	Very	7		4	1999			
THAT WERE A EVHAUST FOR PITAC. IN	STALLED IN			1							7				
EY HAVE NO EFFECT ON STRUCTURAL INT	EGRITY OF	THE			·P	R	• 0	D	U	Ċ	T	S			
		•	1	300	Ente	rone	a Ro	ad	A			жĿ	OUVE	RS	
	•		ŤF	Senes HON	E (J	34) (	584-	352					ciste Grill	ES	
			-	TAX (									FUSE		
				THE OR V	UNDE	RSIGN	ED A	m th Tons	E RE	RON	SIBLE GH Q	indi Penii	10 10	۲.	
	•	-		IEASL	· .		-								
				VÉRIFI ROUGI	ED A	LL NE	LD CI Sizes	ONDIT 5 ANI	ions (ua c	AND Mori	GUAI Ze ti	RANTI RE	EE TH		
	*******			FABRI	CATIO	N OF	the Rela	COMP	TO T	HIS C	URCI	HASE	IN AN ORDE	.l R.	
PRODUCT R m.complying	with the F	logida			-									_	
Building Cod Acceptance N	-		1.	NAME	•.			•				٠			
Expiration P	te 0912	272016		AUTH	ORIZE	0 SKG	VATU	ΫĒ.					DATE		
By Ct Au	JU S			÷	٠.	•	• • •		•		•				
Mindul/Dade	Product C	forting		NAVE	OF	RCAN	ZAT	OH		·				·	
		• • .	1	USTO	NER	NAME	-	÷	••	·	۰.				
	•	· · .							:				÷	•	
FOR OFFIC	e use on	LY	_	IOB N	AVE		÷							+	
					DADI	CO FOF							ER		
			1h	<del>50∦</del>						ROF	· · · · ·	-			
	•	•		DAD			ST .	•	<u> </u>	1/4	· .			<u> </u>	-
				MILL	.·., `·	÷.,	•	•		. *		_	•		
		· ·		SHEET	r nnc			·	· .				· .		ł
					: ; ;	AL	EL-						ŀ		
Approved as co 8 to -5- to Sincilia	mplying w	lia 150	11-	DRAW	พ. อิจ			. uų				•	ATE		ľ
Florida Unidin	16101	2 757	$\left\  \right\ $	ال <sup>ي:</sup>	ULIE	DA	ns	•				1		3/03	
HOAN OSE	parts Con	trol	·	REVIE		BY Ell.	SI)A)	ION	s	۰.		þ	2/2	3/03	
Hunor U Hivision	in the		ļŀ	MAN	IFACT	URINO		 	.  R	EVIEW	r	ſ	<b>ATE</b>		
TENCINEER OF RECORD			╧┼	ENGI	TER		·	÷	R	EVIĘY	(	+h	ATE		1
ALLA 200 <sup>5</sup> HUAD DISCHART OF RECORD: EDWARD PAU ENGINEERING DISCIPLIN		JR. `	╧╋	2051	OMEN	REP				EVIEV	ý		TATE		1
STRUCTURAL			<u>.                                    </u>	· • J	ihm,		CKS			HEET			SF		1
REGISTRATION F. STATE OF FL	ORIDA # (	1052339				58-		•		1 <b>22</b> 00	3			3.	J
		• •		;						÷					

MIAMI-DADE COUN	NTY, FLORIDA	Aviation Maintenance Department 4331 NW 22 Street. Bldg.3030 Miami, FL 33102 305.876.8322						
RPQ ADDENDUM								
Addendum No.:	2	Date: 6/2/2	2020					
Project No.:	10204256	Bas	thwest and Central e Security Booth lacement					
RPQ No.:	10204256	RPQ Due Date:	6/4/2020					
Project Location:	MIA Southwest and Central Base Security Booths	Project Manager:	A. Portal					

This Addendum also serves to respond to the Request for Information (RFI) submitted by the following Contractors:

Javier Delgado of Delka Innovo Group, Inc., received on 5/26/2020, 12:29PM.

- Q.1 Please can you provide contact information (besides the webpage phone number and email) for Mardan Fabrication Inc.?
- A.1 Dennis Eisenhardt

dennis.e@mardanfab.com

(800) 882-5820

- Q.2 MAC 195 will Remove, generator, ATS, Panelboards, etc. all electrical related. Use PVC Coated GRS for underground. Indicate where.
- A.2 PVC Coated GRS or concrete encased schedule 40 PVC conduit can be used in all underground applications at the gates.
- Q.3 Manufacturer and Rating of current panelboard CP.
- A.3 The exact model of CP is unknown. Please see attached photo for reference.
- Q.4 Are Booth drawings available?
- A.4 Please see Plans & drawings provided in Addendum #1.
- Q.5 Key Note 2, Drawing E701; Is there more information regarding existing circuitry to and from panels to remove?
- A.5 As-built data is not available. The only information available is what is shown in the panelboard schedule. Contractor shall field verify actual circuits.

- Q.6 Sec 16055 & 56. Are the current coordination studies required from the contractor?
- A.6 Contractor to provide based on actual equipment provided in the project.
- Q.7 Sec 16055 & 56, The coordination study seems exaggerated given the actual loads to be connected. All that should be required is proper coordination with breaker upstream at CP.
- A.7 All systems provided should be coordinated.
- Q.8 What did the engineering company do? Aren't they supposed to be the consultants in charge of doing all this before selecting the protection devices?
- A.8 Since the exact models of new equipment are unknown during design, the contractor to provide based on actual equipment provided in the project.
- Q.9 Are there any meeting Minutes, or other information referring to the generator make, enclosure, engine, tank size Etc. (Tank 252 Gallons?)
- A.9 See Spec 16403 for the new generator. See attached photos for existing generator information.
- Q.10 Are the 10 Ohms resistance to ground per rod or per system?
- A.10 Per system.
- Q.11 All panels and Boxes to be 4X metal? and NOT 3R? Should be SS not Galvanized. Clarify Specs.
- A.11 Provide NEMA 4X SS.

Jaquin Esquivia of Conbuild, LLC, received on 5/29/2020, 9:19AM.

- Q.12 Clarify if the restroom booth requires water heaters? If so, provide specs.
- A.12 Water heaters are not required.
- Q.13 Confirm that MDAD supplied booth comes with the heat pump units and Exhaust Fans EF as per booth plans.
- A.13 The HVAC heat pump units and exhaust fans are already provided with the booth.
- Q.14 Confirm that booth does not required fire suppression system as per SD-2note E.
- A.14 Fire suppression is not required.

- Q.15 Sheet E-201 depict only one self-swipe pedestal #7, please confirm the number of selfswipe pedestal required at SW and Central base locations.
- A.15 There are two self-swipe pedestals total. One self-swipe pedestal is labeled #7 on Sheet E201 of the Central Base Plans and another is labeled #6 on Sheet E201 of the Southwest Base Plans.
- Q.16 Sheet E-201 depict only one boom arm #6, please confirm the number of boom arm required at SW and Central base locations.
- A.16 There is one boom arm total. The boom arm is labeled #6 on Sheet E201 of the Central Base Plans.
- Q.17 Provide model number for the self-swipe pedestals.
- A.17 See detail 5 on Sheet E501 of the Plans for pedestal specifications
- Q.18 Contract documents do not depict location for transformer as per spec 16461. Please provide location, provide size of the pad and rebar requirements for this transformer.
- A.18 Transformer is rack mounted. See Sheets E201 and E501 for more details.

Jaquin Esquivia of Conbuild, LLC, received on 5/29/2020, 11:44AM.

- Q.19 Could you please clarify the length (height) of "Self-swipe pedestals".
- A.19 See detail 5 on Sheet E501 of the Plans.
- Q.20 What length of arm would you need for the AG812 unit? Would you like it to be aluminum or what material?
- A.20 Coordinate arm length with final placement of pedestal and bollards as shown in detail 5 on Sheet E501 of the Plans. See detail for material type.

All else remains the same. This document must be signed and returned as part of your RPQ response. Failure to return this document signed may result in your RPQ response being rejected as non-responsive.

Name of Contractor:

Name of Individual Authorized to Sign: \_\_\_\_\_

Title: \_\_\_\_\_

Signature:



Carlos A. Gimenez, Mayor

Aviation Maintenance Department 4200 NW 22 Street, Bldg 3030 Miami, Fl 33159 305-876-8315

miamidade.gov

July 7, 2020 Joaquin Esquivia CONBUILD L.L.C. 10274 NW 88th Terrace Doral, FL 33178

CERTIFIED MAIL No: TELEPHONE: (786) 613-1656

Re: Recommendation for Award for CICC 7040-0/07 Contract - RPQ NO: 10204256 Southwest and Central Base Security Booth Replacement Miami International Airport

Dear Joaquin Esquivia:

In accordance with Sections 2-8.3 and 2-8.4 of the Code of Miami-Dade County and Implementing Order 3-21, this letter serves to notify you and all bidders on this solicitation that your firm has been recommended for award of the referenced Request for Price Quotation (RPQ) based on the bid submitted on Thursday, June 4, 2020. Pursuant to the referenced legislation, the three (3) day protest period shall commence upon the filing of this recommendation to award with the Clerk of the Board. This contract award will be effective only in accordance with the conditions of the solicitation, which requires execution by both parties of the Notice to Proceed (NTP).

The value of this award is \$780,164.50 and the UAP shall apply. This award amount includes the base bid amount of \$654,695.00 and a contingency amount of \$65,469.50 and a Dedicated amount of \$60,000.00. The contract term is 365 calendar days. The award is contingent upon the submission and approval of Insurance Certificates listing the required coverage for General Liability, Auto Liability (Owned, Non-owned and Hired Vehicles) and Workers Compensation as required by Florida Statue Chapter 440. Additional documents may be required as listed below:

Southwest and Central Base Security Booth Replacement

1. Copy of required licenses.

2. Fully executed and current Payment & Performance Bond Certificate.

3. ISO 14001: 2015 Awareness Self-Training Module certificates.

4. Certificates of insurance in accordance with the RPQ documents.

5. Residents First Training and Employment Program Responsible Contractor/Subcontractor Affidavit Form (RFTE 1)

6. Workforce plan including Form RFTE-2, RFTE-3, and executed Job Clearing Affidavit for approval in writing by the SBD.

7. Copy of your firm's Safety Plan.

8. The OSHA Form 300 containing a list of the company's work-related injury and illness data for the previous three years.

9. OSHA inspection data for the previous three years.

The preceding Documents are required as outlined within the RPQ project specification and the MCC 7040 Plan. They must be submitted to the Aviation within 10 business days of receipt of this letter. In the event additional insurance is required, it also must be submitted within 10 business days. Failure to submit the documents within the specified time frame, or an extension approved by the County, will result in the award being rescinded.

Subsequent to the review and approval of the referenced documents, you are required to obtain the necessary permits in the time frame stipulated in the RPQ. Upon obtaining the permit(s), copies must be submitted to the Project Manager prior to commencement of work. No work is to be performed without a permit (if applicable). Following receipt of the permit(s), the Project Manager may schedule a pre-construction conference and issue a Notice to Proceed authorizing the performance of the work.

This letter shall also serve as a reminder that this contract is a Small Business Enterprise – Construction (SBE-Con) 100% set-aside. All construction work must be performed by contractors certified in accordance with Section 10-33.02 of the Code of Miami Dade County. The scope of work must be performed in accordance with the contract terms and conditions, all permits and inspections and in accordance with all applicable Federal, State and local laws, codes and regulations. Should you have any questions please contact Adrian Portal, Project Manager, at 305-876-8315.

Sincerely,

or 1/2/20 Ana Finol, P.E.

Division Director

CC: Ralph Cutie MDAD, Ana Finol MDAD, Juan Paan MDAD, Silvia Perez MDAD, Gary Hartfield ISD, Laurie Johnson ISD, Marcia Martin ISD, Yuleisy Hernandez MDAD, Olga Valverde COB, Adrian Portal MDAD, James P. Ferreira MDAD Conbuild, LLC, SK Quality Contractor, Inc. DBA SK Construction Co., Construction Services International, Corp. DBA CSI Construction, Fleites Construction Group, Inc., Bofam Construction Company, Inc., DBTech, Inc., Delka Innovo Group, Inc., Parsa Corporation



Carlos A. Gimenez, Mayor

Aviation

Maintenance Department 4200 NW 22 Street, Bldg 3030 Miami, FI 33159

September 9, 2020 Joaquin Esquivia CONBUILD L.L.C. 10274 NW 88th Terrace Doral, FL 33178

CERTIFIED MAIL No. TELEPHONE: (786) 613-1656

Re: Notice To Proceed for MCC 7040 Plan - RPQ NO: 10204256 Southwest and Central Base Security Booth Replacement Miami International Airport

Dear Joaquin Esquivia:

This letter will serve as your notification that you are to proceed with the work described in RPQ #10204256 starting Monday, October 5, 2020, and that all work must be completed on schedule in accordance with the contract documents. The time allotted for the contract is 365 consecutive calendar days which results in a scheduled completion date of Tuesday, October 5, 2021. In the event the project is not completed by the scheduled completion date and a time extension has not been granted, your firm shall be subject to any liquidated and or stipulated damages as defined in the contract documents for this project.

The ERP Finance System Purchase Order Number is 0000051905.

The complete execution of this notice to proceed shall constitute a contract for the work described in the Request for Price Quotation (RPQ) under the MCC 7040 Plan. Failure to properly execute and return this document within ten (10) calendar days of the date of this letter may result in the County rescinding the award to your firm and awarding the subject project to the next lowest responsive and responsible bidder.

The terms and conditions applicable to this contract are in the 7040 Contract and 7040 Amendment #1, dated 10/18/2002 and 3/1/2005 respectively, and the totality of the contract documents (including but not limited to the RPQ including any special provisions contained therein, drawings and specifications, addenda, and any contract modifications or change orders etc).

This letter will also serve as a reminder that all work must be performed in accordance with the contract documents and in accordance with all applicable Federal, State and local laws, codes and regulations. In accordance with the contract procedure, the Miami-Dade County Purchase Order Release Number is POAV2002443.

Should you have any questions regarding this notification, please contact Adrian Portal at 3058768315.

Sincerely.

9/10/20 Ana Finol, P.E.

**Division Director** 

CC: Ralph Cutie, MDAD; Sylvia Novela, MDAD; Juan Paan, MDAD; Yuleisy Hernandez, MDAD; Silvia Perez, MDAD; James P. Ferreira, MDAD; Adrian Portal, MDAD; Laurie Johnson, ISD; Marcia Martin, ISD; Dayron Perez, ISD; Olga Valverde, COB; Project File.