



Replacement of Windows & Doors to Impact Rated Material at SW Focal Point Center

Invitation for Bids # PSPW-20-08

General Information		
Project Cost Estimate	\$300,000	See Section 1.4
Project Timeline	90 calendar days from NTP	See Section 1.4
Evaluation of Proposals	Staff	See Section 1.7
Mandatory Pre-Bid Meeting	10:00 a.m. on August 18, 2020 located at the Carl Shechter Southwest Focal Point Community Center, 301 NW 103rd Avenue Pembroke Pines, FL 33026.	See Section 1.8
Question Due Date	August 24, 2020	See Section 1.8
Proposals will be accepted until	2:00 p.m. on September 8, 2020	See Section 1.8
5% Proposal Security / Bid Bond	Required in the event that the proposal exceeds \$200,000	See Section 4.1
100% Payment and Performance Bonds	Required in the event that the proposal exceeds \$200,000	See Section 4.2
Grant or Federal Funding Information	CDBG Community Development Block Grant Federal Funding	See Section 1.2

THE CITY OF PEMBROKE PINES
PURCHASING DIVISION
8300 SOUTH PALM DRIVE
PEMBROKE PINES, FLORIDA 33025
(954) 518-9020



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ATTACHMENTS

Attachment A: Contact Information Form

Attachment B: Non-Collusive Affidavit

Attachment C: Proposer's Qualifications Statement

Attachment D: Sample Insurance Certificate



Attachment E: Specimen Contract - **Construction Agreement (Federal)**

Attachment F: References Form

Attachment G: Standard Release of Lien Form

Attachment H: Davis-Bacon Act Wage Determinations

Attachment I: Notices of Acceptance (NOA) for Approved Products

Exhibit A: 2 CFR 200 - Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards



SECTION 1 - INSTRUCTIONS

1.1 NOTICE

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

IFB # PSPW-20-08

Replacement of Windows & Doors to Impact Rated Material at SW Focal Point Center

Solicitations may be obtained from the City of Pembroke Pines website at <http://www.ppines.com/index.aspx?NID=667> and on the www.BidSync.com website.

If you have any problems downloading the solicitation, please contact the BidSync Support line at 1-800-990-9339.

If additional information help is needed with downloading the solicitation package please contact the Purchasing Office at (954) 518-9020 or by email at purchasing@ppines.com. The Purchasing Office hours are between 7:00 a.m. - 6:00 p.m. on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, Florida 33025.

The City requires all questions relating to the solicitation be entered through the "Ask a Question" option tab available on the BidSync website. Responses to the questions will be provided online at www.bidsync.com. Such request must be received by the "Question Due Date" stated in the solicitation. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

Proposals will be accepted until 2:00 p.m., Tuesday, September 8, 2020. Proposals must be **submitted electronically at www.BidSync.com**. The sealed electronic proposals will be publicly opened at 2:30 p.m. by the City Clerk's Office, in the City Hall Administration Building, 4th Floor Conference Room located at 601 City Center Way, Pembroke Pines, Florida, 33025.

1.2 PURPOSE

The City of Pembroke Pines is seeking proposals from qualified firms, hereinafter referred to as the Contractor, for replacement of exterior windows, pedestrian doors as necessary at the referenced locations in accordance with the terms, conditions, and specifications contained in this solicitation.

This project is a part of the Community Development Block Grant (CDBG) Program. Funded by the U.S. Department of Housing and Urban Development (HUD).



1.3 SCOPE OF WORK

1.3.1 GENERAL CONDITIONS

The contractor shall be solely responsible for verifying all existing dimensions, quantities and job site conditions prior to submitting his/her bid.

1. Contractor will be required to schedule all work with the Project Manager.
2. The work must be performed Monday through Thursday or as approved by Project Manager to not interfere with ongoing facility operations.
3. Any use of existing parking areas shall be requested in advance.
4. Contractor's use of premises:
 - Contractor shall limit their use on the premises for work and storage, to allow for owner's occupancy
 - Contractor shall coordinate use of premises under direction of Owner representative, assume full responsibility for the protection and safe-keeping of products under this contract stored on-site, and move any stored products under Contractor's control which interfere with operations of the owner.

1.3.2 DEMOLITION WORK

1. Contractor to remove existing window and exterior doors assemblies along with accordion shutters and dispose of at the City's discretion.
2. Contractor shall be responsible to remove all debris from the site daily.
3. Contractor must not allow materials and debris generated daily to be disposed of in an illegal manner.
4. Demolish as required to accomplish work. All required demolition shall be included in the base bid package submitted by the contractor.
5. The contractor must be careful to maintain security alarms, and other existing conditions for all parts of items to remain.
6. Contractor shall take proper care to protect and close off work area as required for normal facility operation.
7. Building will be occupied during the demolition.

1.3.3 NEW WORK

1. Install new impact window and door assemblies as required.
2. All impact resistant glass shall be a minimum Low-E 366 with factory applied tint.
3. Owner will provide construction drawings which include the approved window and door pressures.
4. Contractor shall use the attached product NOAs or may submit a proposed alternate for city's review and approval.



5. Contractor shall, besides the attached engineered drawings and specs, provide all required documents, like shop drawings and NOA's necessary to obtain a permit and provide submittals for approval by the project manager and engineer on record as required for normal project execution.
6. Replace pedestrian doors as necessary per each location. All doors are to include Von Duprin closers and concealed vertical devices per code.
7. Contractor shall provide key cylinders a minimum of 2 weeks in advance for Owner to rekey prior to Contractor's installation.
8. Contractor shall use key way cylinder Schlage Everest T for all Doors.
9. Frame color to match existing.
10. All windows and or doors removed, shall have the new assemblies installed before end of work day to ensure that building can be locked up.
11. Any repairs required around the windows or doors due to replacement of such, shall be done by the contractor to include but not limited to, drywall, stucco, paint, polyurethane sealant, etc.
12. Contractor is responsible for acquiring permit and calling in all necessary inspections.

1.3.4 WARRANTY

The CONTRACTOR shall warranty all workmanship and products installed within this scope for a minimum of 1 (one) year from date of installation.

1.4 PROJECT COST ESTIMATE & TIMELINE

The estimated total cost for this group of projects is \$300,000, which does not include permit costs.

Please note the City will include a Permit Allowance for this project, **therefore proposers should not include permit costs in their total proposal price.**

The work shall be completed within time frame below from issuance of City's Notice to Proceed.

Locations and Addresses	Impact windows	Pedestrian doors	Cost Estimate	Calendar days from NTP to Completion
Carl Shechter Southwest Focal Point Community Center 301 NW 103rd Ave. Pembroke Pines FL 33026	✓	✓	\$275,000	90



Carl Shechter Southwest Focal Point Community Center "Rotunda" 301 NW 103rd Ave. Pembroke Pines FL 33026	✓	N/A	\$25,000	90
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1.4.1 PERMITS

The City anticipates this project to require the following permits:

Permit	Agency	Cost (or related method of calculation)
Building	City of Pembroke Pines Building Department (Calvin, Giordano & Associates, Inc.)	Construction costs greater than \$2,500 up to \$1,000,000 = 2.96%

1.4.2 PERMIT ALLOWANCE

The City shall include a "Permit Allowance" for this project. The Contractor shall obtain all required permits to complete the work, however the City shall utilize the Permit Allowance to reimburse the contractor for the related permit, license, impact or inspection fees. Payments will be made to the contractor based on the actual cost of permits upon submission of paid permit receipts. The City shall not pay for other costs related to obtaining or securing permits.

The City shall determine the amount of the allowance at time of award. The allowance may be based on a specified percent of the proposed project amount and shall be established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. Any Permit Allowance funds that have not been utilized at the end of the project will remain with the City, if the City Permit fees exceed the allowance indicated, the City will reimburse the contractor the actual amount of City Permit Fees required for project completion.

1.5 PROPOSAL REQUIREMENTS

The www.bidsync.com website allows for vendors to complete, scan and upload their documents as part of the bidder's submittal on the website. Prospective proposers interested in responding to this solicitation are requested to provide all of the information listed in this section. Submittals that do not respond completely to all of requirements specified herein may be considered non-responsive and eliminated from the process. Brevity and clarity are encouraged.



1.5.1 Attachment A: Contact Information Form

- a. Attached is contact information form (Attachment A) where the vendor will enter their contact information and complete the proposal checklist. The Contact information form shall be electronically signed by the contact person authorized to represent the contractor. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal.
- b. The vendor must provide their pricing through the designated lines items listed on the BidSync website.
- c. Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.
- d. The contact information form should contain an electronic signature of the authorized representative of the Proposer along with the address and telephone number for communications regarding the Proposal.
- e. Proposals by corporations should be executed in the corporate name by the President or other corporate officer accompanied by evidence of authority to sign. The corporate address and state of incorporation must also be shown.
- f. Proposals by partnerships should be executed in the partnership name and signed by a partner whose title and the official address of the partnership must be shown.

1.5.2 Attachment B: Non-Collusive Affidavit

1.5.3 Attachment C: Proposer's Qualifications Statement

1.5.4 Attachment F: References Form

- a. Complete **Attachment F: References Form**, preferably where the team was the same. References should be from the last five years and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications.

1.5.5 Proposal Security (Bid Bond Form or Cashier's Check)

- a. Each Proposal should be accompanied by a certified or cashier's check or by a Bid Bond made payable to the City of Pembroke Pines on an approved form, duly



executed by the Proposer as principal and having as surety thereon a surety company acceptable to CITY and authorized to write such Bond under the laws of the State of Florida, in an amount not less than five percent (5%) of the amount of the base Proposal price.

- b. Contingency is not to be counted in the total amount the proposal security is based on.
- c. Proposers must submit a scanned copy of their bid security (bid bond form or cashier's check) with their bid submittal through BidSync.
- d. Proposers should also submit their original bid security (bid bond form or cashier's check) at time of the bid due date, or they may be deemed as non-responsive.
- e. The original Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "**BID SECURITY - IFB # PSPW-20-08 Replacement of Windows & Doors to Impact Rated Material at SW Focal Point Center**" and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.
- f. Please see SECTION 4 - SPECIAL TERMS & CONDITIONS of this RFP for additional information.

1.6 VENDOR REGISTRATION AND QUALIFICATION DOCUMENTS

The City has implemented a new process that is intended to make the bidding process easier for vendors that bid on multiple City projects. This process will require vendors to complete and submit the following standard forms and documents at any time prior to bidding on a project. In addition, the vendors will be able to utilize these same forms without the need to re-fill and re-submit the forms each time they bid on a City project.

Furthermore, please make sure to update this information on an as-needed basis so that all pertinent information is accurate, such as local business tax receipts, and any other relevant information.

These forms will be found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines. Please note that the BidSync website requires bidders to complete all of these qualifications prior to being able to submit questions on any bids, therefore, please make sure to complete this information as soon as possible.

The following documents can be completed prior to the bidding process through the BidSync website and do not need to be attached to your submittal as the BidSync website will automatically include it.



1.6.1 Vendor Information Form

1.6.2 Form W-9 (Rev. October 2018)

- a. Previously dated versions of this form will delay the processing of any payments to the selected vendor.

1.6.3 Sworn Statement on Public Entity Crimes Form

1.6.4 Local Business Tax Receipts

1.6.5 Veteran Owned Small Business Preference Certification

- a. If claiming Veteran Owned Small Business Preference Certification, business must attach the “Determination Letter” from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).
- b. The Veteran Owned Small Business Preference Certification form must be completed by/for the proposer; the proposer **WILL NOT** qualify for Veteran Owned Small Business Preference based on their sub-contractors’ qualifications.

1.6.6 Equal Benefits Certification Form

1.6.7 Vendor Drug-Free Workplace Certification Form

1.6.8 Scrutinized Company Certification

1.6.9 Certification Regarding Lobbying; Debarment, Suspension and Other Responsibility Matters for Expenditure of Federal Funds

- a. **Lobbying:**
 - i. As required by 7 CFR Part 3018, for persons entering into a contract, grant or cooperative agreement over **\$100,000** involving the expenditure of Federal funds, the Contractor must complete the **Certification Regarding Lobbying**.
 - ii. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress, in connection with this Federal contract, grant, loan, or cooperative agreement, the Contractor shall also complete and submit the **Standard Form - LLL, “Disclosure Form to Report Lobbying,”** in accordance with its instructions.



b. Debarment, Suspension and Other Responsibility Matters:

- i. Where the Contractor is unable to certify to any of the statements in the certification for **Debarment, Suspension and Other Responsibility Matters**, he or she shall **provide an explanation**.

1.6.10 E-Verify System Certification Statement

- a. The State of Florida, Executive Order 11-116, requires the City, as a party to any State-funded contracts, to participate in the Employment Eligibility Verification administered by the U.S. Department of Homeland Security (“DHS”). Any Vendor performing work pursuant to the State funded contract issued by the City is required to use the E-Verify Program to confirm employment eligibility of its current and prospective employees and provide the E-Verify System Certification, certifying that it will enroll and participate in the E-Verify Program.

1.6.11 Minority-Owned Business Enterprise

1.6.12 Woman-Owned Business Enterprise

1.6.13 HUBZone-Certified Small Businesses / Labor Surplus Area Firms

1.7 EVALUATION OF PROPOSALS & PROCESS OF SELECTION

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the solicitation. Evaluations shall be based upon the information contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.

1.8 TENTATIVE SCHEDULE OF EVENTS

Event	Time &/or Date
Issuance of Solicitation (Posting Date)	August 11, 2020
Mandatory Pre-Bid Meeting	10:00 a.m. on August 18, 2020
Question Due Date	August 24, 2020
Anticipated Date of Issuance for the Addenda with Questions and Answers	August 27, 2020
Proposals will be accepted until	2:00 p.m. on September 8, 2020
Proposals will be opened at	2:30 p.m. on September 8, 2020
Evaluation of Proposals by Staff	TBD
Recommendation of Contractor to City Commission award	TBD
Issuance of Notice to Proceed	TBD



Project Commencement	Not later than 10 days after NTP
Project Completion	90 days after NTP

1.8.1 MANDATORY PRE-BID MEETING / SITE VISIT

There will be a mandatory scheduled pre-bid meeting on **August 18, 2020 at 10:00 a.m.** Meeting location will be at the Carl Shechter Southwest Focal Point Community Center, located at 301 NW 103rd Avenue, Pembroke Pines, FL 33026.

All vendors will be required to sign in at the meeting to show proof of attendance to the mandatory meeting. It is the vendor's responsibility to make sure that they sign in at the meeting.

Attendees shall adhere to any recommendations from the CDC, the State of Florida, Broward County, and the City related to Covid-19 that are applicable to any activity during the site visit. Recommendation may include, but are not limited to activities such as social distancing and wearing face coverings.

1.9 SUBMISSION REQUIREMENTS

Bids/proposals **must be submitted electronically** at www.bidsync.com on or before **2:00 p.m. on September 8, 2020.**

Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

The vendor must provide their pricing through the designated lines items listed on the BidSync website. In addition, the vendor must complete any webforms on the BidSync website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. **Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.**

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.

PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

However, please note that any required Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "**BID SECURITY - IFB # PSPW-20-08 Replacement of Windows**"



& Doors to Impact Rated Material at SW Focal Point Center” and sent to the City of Pembroke Pines, City Clerk’s Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.



SECTION 4 - SPECIAL TERMS & CONDITIONS

4.1 PROPOSAL SECURITY

Proposal Security Requirements: Each Proposal must be accompanied by a certified or cashier's check or by a Bid Bond made payable to the City of Pembroke Pines on an approved form, duly executed by the Proposer as principal and having as surety thereon a surety company acceptable to CITY and authorized to write such Bond under the laws of the State of Florida, in an amount not less than five percent (5%) of the amount of the base Proposal price.

Proposers must submit a scanned copy of their bid security (bid bond form or cashier's check) with their bid submittal through BidSync. Proposers must also submit their original bid security (bid bond form or cashier's check) at time of the bid due date, or they may be deemed as non-responsive. The original Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "**BID SECURITY - IFB # PSPW-20-08 [Replacement of Windows & Doors to Impact Rated Material at SW Focal Point Center]**" and sent to the:

City of Pembroke Pines,
City Clerk's Office, 4th Floor,
601 City Center Way,
Pembroke Pines, Florida, 33025.

Successful Proposer: The Proposal Security of the Successful Proposer will be retained until such Proposer has executed the Contract and furnished the required insurance, payment and performance bonds, whereupon the Proposal Security will be returned. If the Successful Proposer fails to execute and deliver the Contract and furnish the required insurance and bonds within fifteen (15) calendar days of the Notice of Award, CITY may annul the Notice of Award and the entire sum of the Proposal Security shall be forfeited.

Three Lowest Proposers: The Proposal Security of the three (3) lowest Proposers will be returned within seven (7) calendar days after CITY and the Successful Proposer have executed the written Contract or if no such written Contract is executed within ninety (90) calendar days after the date of the Proposal opening, upon the demand of any Proposer at any time thereafter, provided that he has not been notified of the acceptance of his Proposal.

All Other Proposers: Proposal Security of all other Proposer will be returned within seven (7) calendar days after the proposal opening. The agent or attorney in fact or other officer who signs a Bid Bond for a surety company must file with such bond a certified copy of his power of attorney authorizing him to do so.

4.2 PAYMENT AND PERFORMANCE BONDS

Within fifteen (15) calendar days after Notice of Award and in any event prior to commencing work, the Contractor shall execute and furnish to City a performance bond and a payment bond, each written by a corporate surety, having a resident agent in the State of Florida and having been in business with a record of successful continuous operation for at least five (5) years. The surety shall hold a current certificate of authority from the Secretary of Treasury of the United States as an acceptable surety on federal bonds in accordance with United States Department of Treasury Circular No. 570. If the amount of the Bond exceeds the underwriting limitation set forth in the circular, in order to qualify, the net retention of the surety company shall not exceed the underwriting limitation in the circular and the excess risks must be protected by coinsurance, reinsurance, or other methods, in accordance with Treasury Circular 297, revised September 1, 1978 (31DFR, Section 223.10, Section 223.11). Further, the surety



company shall provide City with evidence satisfactory to City, that such excess risk has been protected in an acceptable manner. The surety company shall have at least the following minimum qualification in accordance with the latest edition of A.M. Best's Insurance Guide, published by Alfred M. Best Company, Inc., Ambest Road, Oldwick, New Jersey 08858:

B+ to A+

Two (2) separate bonds are required and both must be approved by the City. **The penal sum stated in each bond shall be 100% of the contract price.** The performance bond shall be conditioned that the Contractor performs the contract in the time and manner prescribed in the contract. The payment bond shall be conditioned that the Contractor promptly make payments to all persons who supply the Contractor with labor, materials and supplies used directly or indirectly by the Contractor in the prosecution of the work provided for in the Contract and shall provide that the surety shall pay the same in the amount not exceeding the sum provided in such bonds, together with interest at the maximum rate allowed by law; and that they shall indemnify and save harmless the City to the extent of any and all payments in connection with the carrying out of said Contract which the City may be required to make under the law.

Pursuant to the requirements of Section 255.05(1)(a), Florida Statutes, it shall be the duty of the Contractor to record the aforesaid payment and performance bonds in the public records of Broward County, with the Contractor to pay all recording costs.

4.3 OWNER'S CONTINGENCY

While the specifications contained in this solicitation and any ensuing Purchase Orders or contracts have incorporated all anticipated work to be accomplished, there may be unanticipated work required of the vendor in conjunction with a specific

project. For this reason, the City Commission may award a project with an "Owner's Contingency". This contingency or allowance authorizes the City execute change orders up to the amount of the contingency without the need to obtain additional Commission approval. The Owner's Contingency is usually based on a specified percent of the proposed project amount and is established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. It is hereby understood and agreed that the vendor shall not expend any dollars in connection with the Owner's Contingency without the expressed prior approval of the City's authorized representative. Any Owner's Contingency funds that have not been utilized at the end of the project will remain with the Owner, the contractor shall only be paid for the proposed project cost as approved by the City Commission along with any Owner Contingency expenses that were approved by the City's authorized representative.

4.4 TAX SAVER PROGRAM

The Contractor shall cooperate on certain projects to allow the City to avail itself of a sales tax savings program.

4.5 RELEASE OF LIEN

Contractor must provide an executed Partial/Final Release of Lien utilizing the City's standard Release of Lien Form in order for the City to release any payments to the Contractor.

4.6 SOLID WASTE CONSTRUCTION AND DEMOLITION DEBRIS COLLECTION AND DISPOSAL REQUIREMENTS

The City of Pembroke Pines has an exclusive solid waste franchise agreement with Waste



Pro of Florida, Inc. for the collection and disposal of all solid waste including construction and demolition (C & D) debris. All applicants for bids to perform construction work for the City of Pembroke Pines shall be subject to the requirements found in the City's exclusive solid waste franchise agreement and must contract Waste Pro of Florida, Inc. for the collection and disposal of all construction and demolition debris generated at such construction job sites.

For the current applicable rates and fees for Waste Pro of Florida, Inc. dumpsters, roll-off containers, and other related solid waste service equipment needs, please contact David Perez, Waste Pro's Pembroke Pines Sales Representative at (954) 967-4200 or dperez@wasteprousa.com.

For further information related to the solid waste franchise requirements, please contact Rose Colombo, Solid Waste Franchise Agreement Contract Manager, at (954) 518-9011 or rcolombo@ppines.com.

For solid waste franchise enforcement questions, please contact the City of Pembroke Pines Code Compliance Unit at (954) 431-4466.

4.7 LOCAL, STATE, AND FEDERAL COMPLIANCE REQUIREMENTS

Contractor agrees to comply, subject to applicable professional standards, with the provisions of any and all applicable Federal, State, County and City orders, statutes, ordinances, rules and regulations which may pertain to the Services required under the Agreement, including but not limited to:

A. STATE OF FLORIDA E-VERIFY

Contractor acknowledges that the City may be utilizing the Contractor's services for a project that is funded in whole or in part by State funds pursuant to a contract between the City and a State agency. Contractor shall be responsible for complying with the E-

Verify requirements in the contract and using the U.S. Department of Homeland Security's E-Verify system (per the State of Florida Executive Order Number 11-116 "Verification of Employment Status") to: (a) verify the employment eligibility of all new employees, hired by the contractor during the contract term; and (b) include in subcontracts the requirement that subcontractors performing work or providing services, pursuant to the state funded contract, utilize the E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term. The Contractor is also responsible for reporting any required information to the City. Contractor acknowledges that the terms of this paragraph are material terms, the breach of any of which shall constitute a default under the Agreement.

B. NO FEDERAL GOVERNMENT OBLIGATIONS TO THIRD PARTIES

The City and Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying Contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this Contract and shall not be subject to any obligations or liabilities to the City, Contractor, or any other party (whether or not a party to that Contract) pertaining to any matter resulting from the underlying Contract.

Contractor agrees to include the above clause in each subcontract financed in whole or in part with Federal assistance. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

C. ACCESS BY THE GRANTEE, SUBGRANTEE, FEDERAL



GRANTOR AGENCY AND COMPTROLLER GENERAL

The Contractor shall allow access by the grantee, sub grantee, Federal grantor agency and Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the Contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts and transcriptions.

D. EQUAL EMPLOYMENT OPPORTUNITY

The Contractor shall comply with Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR Chapter 60). (All construction contracts awarded in excess of \$10,000 by grantees and their contractors or subgrantees).

All contractors and subcontractors performing work in connection with this Contract shall provide equal opportunity for employment because of race, religion, color, age, sex, national origin, sexual preference, disability or marital status. The aforesaid provision shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in a conspicuous place available for employees and applicants for employment, such notices as may be required by any authority having jurisdiction over the Work setting forth the provisions of the nondiscrimination law.

E. DAVIS-BACON & RELATED ACTS

If construction, alternation or repair of public buildings or public works project is **funded or assisted under one or more Federal**

statute, the Davis-Bacon prevailing wage provisions may apply to the project if any of the applicable statutes requires payment of Davis-Bacon wage rates.

The Davis-Bacon Act requires that each contract over \$2,000 to which the United States or the District of Columbia is a party for the construction, alteration, or repair of public buildings or public works shall contain a clause setting forth the minimum wages to be paid to various classes of laborers and mechanics employed under the contract. Under the provisions of the Act, contractors or their subcontractors are to pay workers employed directly upon the site of the work no less than the locally prevailing wages and fringe benefits paid on projects of a similar character.

In addition to the Davis-Bacon Act itself, Congress has added prevailing wage provisions to approximately 60 statutes which assist construction projects through grants, loans, loan guarantees, and insurance. These "related Acts" involve construction in such areas as transportation, housing, air and water pollution reduction, and health. Davis-Bacon wage determinations are to be used in accordance with the provisions of Regulations, 29 CFR Part 1, Part 3, and Part 5.

F. COPELAND ANTI-KICKBACK ACT

(1) Contractor. The contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.

(2) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as the FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any



subcontractor or lower tier subcontractor with all of these contract clauses.

(3) Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

G. CONTRACT WORK HOURS AND SAFETY STANDARDS

The Contractor shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3702-3704) as supplemented by Department of Labor regulations (29 CFR Part 5).

H. FEDERAL CLEAN AIR AND WATER ACTS

Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387), and will report violations to FEMA and the Regional Office of the Environmental Protection Agency (EPA).

I. SUSPENSION AND DEBARMENT

Non-federal entities are subject to the non-procurement debarment and suspension regulations implementing Executive Orders 12549 and 12689, 2 CFR part 180. These regulations restrict awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs or activities.

a. This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such the contractor is required to verify that none of the contractor, its principals (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940)

or disqualified (defined at 2 C.F.R. § 180.935).

b. The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

c. This certification is a material representation of fact relied upon by the City. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the City, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

d. The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

J. ANTI-LOBBYING

Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended). Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such



disclosures are forwarded from tier to tier up to the recipient.

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the

required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

K. RECYCLED PRODUCTS / RECOVERED MATERIALS

The Contractor agrees to comply with all the requirements of Section 6002 of the Resource Conservation and Recovery Act (RCRA), as amended (42 U.S.C. 6962), including, but not limited to, the regulatory provisions of 40 CFR Part 247, and Executive Order 12873, as they apply to the procurement of the items designated in Subpart B of 40 CFR Part 247.

L. MINORITY / WOMEN'S / LABOR SURPLUS FIRMS PARTICIPATION

In accordance with the requirements as stated in C.F.R. 200.321, the City encourages the active participation of minority businesses, women's business enterprises and labor surplus area firms as a part of any subsequent agreement whenever possible.

If subcontracts are to be let, through a prime contractor, that contractor is required to take the affirmative steps listed in items (1) through (5) below.

(1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

(2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;



- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
- (5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

**CONTACT INFORMATION FORM**

IN ACCORDANCE WITH “PSPW-20-08” titled “**Replacement of Windows & Doors to Impact Rated Material at SW Focal Point Center**” attached hereto as a part hereof, the undersigned submits the following:

A) Contact Information

The Contact information form shall be electronically signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

COMPANY INFORMATION:

COMPANY: _____

STREET ADDRESS: _____

CITY, STATE & ZIP CODE: _____

PRIMARY CONTACT FOR THE PROJECT:

NAME: _____ TITLE: _____

E-MAIL: _____

TELEPHONE: _____ FAX: _____

AUTHORIZED APPROVER:

NAME: _____ TITLE: _____

E-MAIL: _____

TELEPHONE: _____ FAX: _____

SIGNATURE: _____

**B) Proposal Checklist**

Are all materials, freight, labor and warranties included?	Yes_____
--	----------

Did you make sure to submit the following items, as stated in section 1.5 “Proposal Requirements” of the bid package?

Attachment A - Contact Information Form	Yes_____
Attachment B - Non-Collusive Affidavit	Yes_____
Attachment C - Proposer’s Completed Qualification Statement	Yes_____
Attachment F - References Form	Yes_____
Does your proposal exceed \$200,000 for this construction project? If so, please include a Proposal Security (Bid Bond or Cashier’s Check) along with a separate line item to provide a Payment and Performance Bond. (See Bid Package for details)	Yes_____

Did you make sure to update the following documents found under the “Vendor Registration” group of “Qualifications” on the BidSync website for the City of Pembroke Pines?

Vendor Information Form	Yes_____
Form W-9 (Rev. October 2018)	Yes_____
Sworn Statement on Public Entity Crimes Form	Yes_____
Local Business Tax Receipts	Yes_____
Veteran Owned Small Business Preference Certification	Yes_____
Equal Benefits Certification Form	Yes_____
Vendor Drug-Free Workplace Certification Form	Yes_____
Scrutinized Company Certification	Yes_____
Certification Regarding Lobbying; Debarment, Suspension and Other Responsibility Matters for Expenditure of Federal Funds	Yes_____
E-Verify System Certification Statement	Yes_____
Minority-Owned Business Enterprise	Yes_____
Woman-Owned Business Enterprise	Yes_____
HUBZone-Certified Small Businesses / Labor Surplus Area Firms	Yes_____

**C) Sample Proposal Form**

The following sample price proposal is for information only. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

Carl Shechter Southwest Focal Point Community Center 301 NW 103rd Ave. Pembroke Pines FL 33026		
Impact windows	Price to be Submitted Via BidSync	Lump Sum Cost
Pedestrian doors	Price to be Submitted Via BidSync	Lump Sum Cost

Carl Shechter Southwest Focal Point Community Center “Rotunda” 301 NW 103rd Ave. Pembroke Pines FL 33026		
Impact windows	Price to be Submitted Via BidSync	Lump Sum Cost

Payment and Performance Bond		
Cost to Provide Payment and Performance Bond in the form of a percent of the overall Proposed Cost for the project	Percent to be Submitted Via BidSync	Percent

"General Decision Number: FL20200197 05/15/2020

Superseded General Decision Number: FL20190197

State: Florida

Construction Type: Building

County: Broward County in Florida.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	02/21/2020
2	03/27/2020
3	05/15/2020

ASBE0060-001 03/02/2016

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 34.58	12.57

CARP1809-001 06/01/2015

	Rates	Fringes
CARPENTER (Includes Acoustical Ceiling Installation, Drywall Finishing/Taping, Drywall Hanging, Form Work, Metal Stud Installation).....	\$ 25.95	8.65

CARP1809-002 08/01/2016

	Rates	Fringes
CARPENTER: PILEDRIVERMAN.....	\$ 25.20	10.36

ELEC0728-008 03/01/2019

	Rates	Fringes
ELECTRICIAN (Including Low Voltage Wiring).....	\$ 32.63	12.23

ELEV0071-002 01/01/2020

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 45.91	34.765

FOOTNOTE:

A: Employer contributes 8% basic hourly rate for 5 years or more of service or 6% basic hourly rate for 6 months to 5 years of service as Vacation Pay Credit; Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Veteran's Day; Thanksgiving Day; plus the Friday after Thanksgiving; and Christmas Day.

ENGI0487-019 07/01/2016

	Rates	Fringes
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 23.75	9.20

ENGI0487-020 05/01/2016

	Rates	Fringes
OPERATOR: Concrete Pump.....	\$ 26.04	9.23

ENGI0487-021 07/01/2016

	Rates	Fringes
OPERATOR: Crane All Cranes 160 Ton Capacity and Over.....	\$ 33.05	9.20
All Cranes Over 15 Ton Capacity.....	\$ 32.05	9.20
OPERATOR: Forklift.....	\$ 23.25	9.20
OPERATOR: Mechanic.....	\$ 32.05	9.20
OPERATOR: Oiler.....	\$ 23.50	9.20

IRON0272-001 10/01/2019

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 25.49	11.99

IRON0402-001 01/01/2019

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 23.69	12.70

 PLUM0719-002 09/01/2019

	Rates	Fringes
PLUMBER.....	\$ 29.85	12.85

PAID HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day providing the employee works the scheduled work day preceding and after the holiday.

 PLUM0725-001 07/16/2018

	Rates	Fringes
PIPEFITTER (Includes HVAC Pipe, Unit and Temperature Controls Installations).....	\$ 35.63	14.15

 * SFFL0821-004 01/01/2020

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 29.18	19.75

 SHEE0032-001 12/01/2013

	Rates	Fringes
SHEET METAL WORKER, Includes HVAC Duct Installation.....	\$ 23.50	12.18

 SUFL2014-005 08/16/2016

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 13.06	0.70
IRONWORKER, REINFORCING.....	\$ 17.72	0.00
LABORER: Common or General, Including Cement Mason Tending...	\$ 12.79	0.00
LABORER: Pipelayer.....	\$ 13.56	1.34
OPERATOR: Bulldozer.....	\$ 15.40	1.90
OPERATOR: Grader/Blade.....	\$ 18.97	0.00
OPERATOR: Loader.....	\$ 16.00	2.82
OPERATOR: Roller.....	\$ 14.43	4.78
PAINTER: Brush, Roller and Spray.....	\$ 16.00	3.48
ROOFER.....	\$ 19.98	4.77
TILE SETTER.....	\$ 18.01	0.00
TRUCK DRIVER: Dump Truck.....	\$ 13.22	2.12

TRUCK DRIVER: Lowboy Truck.....\$ 14.24 0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

beta.SAM.gov

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"



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Product Approval
USER: Public User

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 Application Detail

OFFICE OF THE SECRETARY

FL #	FL20359-R2								
Application Type	Revision								
Code Version	2017								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	Mr Glass Doors & Windows Inc.								
Address/Phone/Email	8120 NW 84th St Medley, FL 33166 (305) 470-8284 ulises@mrglasswindows.com								
Authorized Signature	Ulises Senaris ulises@mrglasswindows.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Windows								
Subcategory	Horizontal Slider								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Javad Ahmad								
Florida License	PE-70592								
Quality Assurance Entity	Keystone Certifications, Inc.								
Quality Assurance Contract Expiration Date	08/27/2025								
Validated By	Ammad Riaz, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	FL20359_R2_COI_SS-Series MG-300 Alum Horizontal Sliding Window (LMI-SMI)-CI 2017.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>								
TAS 201	1994								
TAS 202	1994								
TAS 203	1994								
Equivalence of Product Standards Certified By									
Sections from the Code									

Product Approval Method

Method 1 Option D

Date Submitted

01/15/2018

Date Validated

01/16/2018

Date Pending FBC Approval

01/21/2018

Date Approved

04/10/2018

Summary of Products

FL #	Model, Number or Name	Description
20359.1	Series MG-300 Aluminum Horizontal Sliding Window	Large missile impact resistant aluminum horizontal sliding window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +90/-140 Other: See attached drawing W16-26 for span vs. load combination and installation details.		Installation Instructions FL20359_R2_II_SS-Series MG-300 Alum Horizontal Sliding Window (LMI)-2017 DWG W16-26.pdf Verified By: Javad Ahmad PE # 70592 Created by Independent Third Party: Yes Evaluation Reports FL20359_R2_AE_SS-Series MG-300 Alum Horizontal Sliding Window (LMI) -PAE 2017.pdf Created by Independent Third Party: Yes
20359.2	Series MG-300 Aluminum Horizontal Sliding Window	Small missile impact resistant aluminum horizontal sliding window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +90/-140 Other: See attached drawing W16-28 for span vs. load combination and installation details.		Installation Instructions FL20359_R2_II_SS-Series MG-300 Alum Horizontal Sliding Window(SMI)-2017 DWG W16-28.pdf Verified By: Javad Ahmad PE # 70592 Created by Independent Third Party: Yes Evaluation Reports FL20359_R2_AE_SS-Series MG-300 Alum Horizontal Sliding Window(SMI) -PAE 2017.pdf Created by Independent Third Party: Yes

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[Next](#)

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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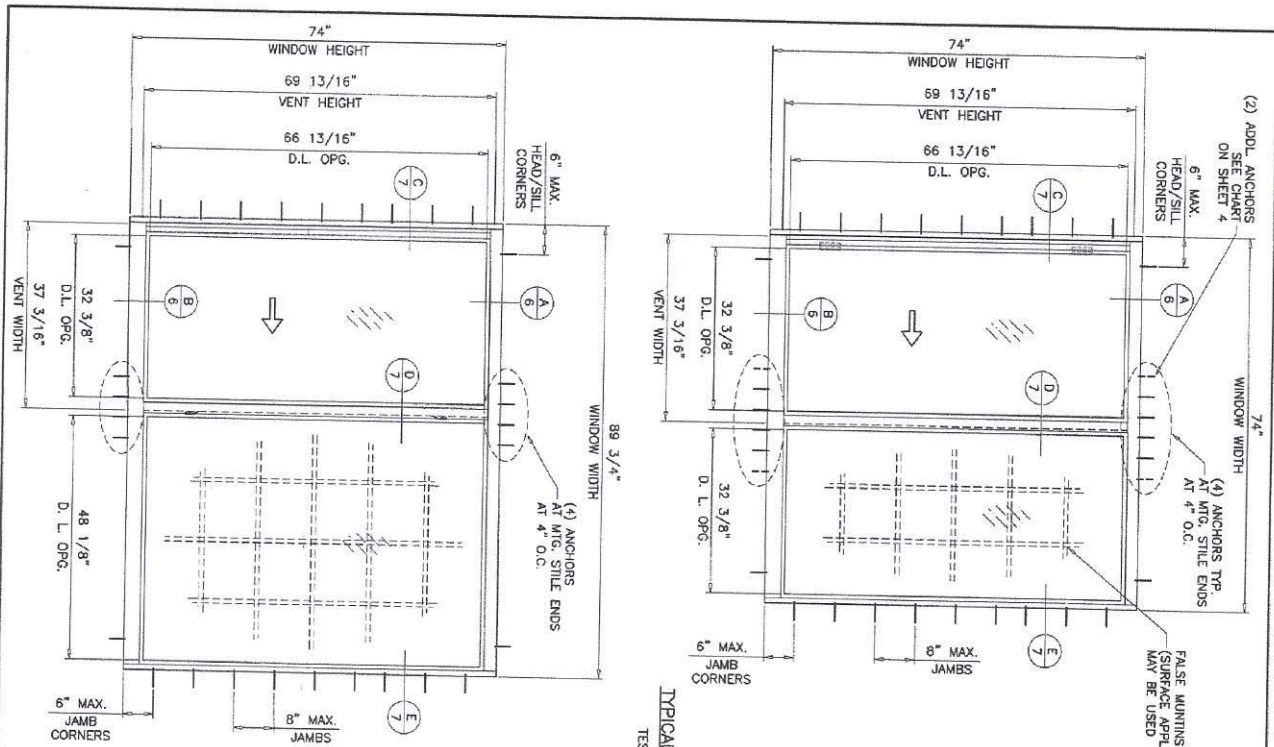
Product Approval Accepts:



Credit Card

Safe

securityMETRICS



TYPICAL ELEVATIONS

TESTED UNITS

SERIES MG-300

ALUMINUM HORIZONTAL SLIDING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 4 & 5.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZ. ROLLING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MILLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MILLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ), 15% OR 20% WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF.'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREENS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS. THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. THE USER OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

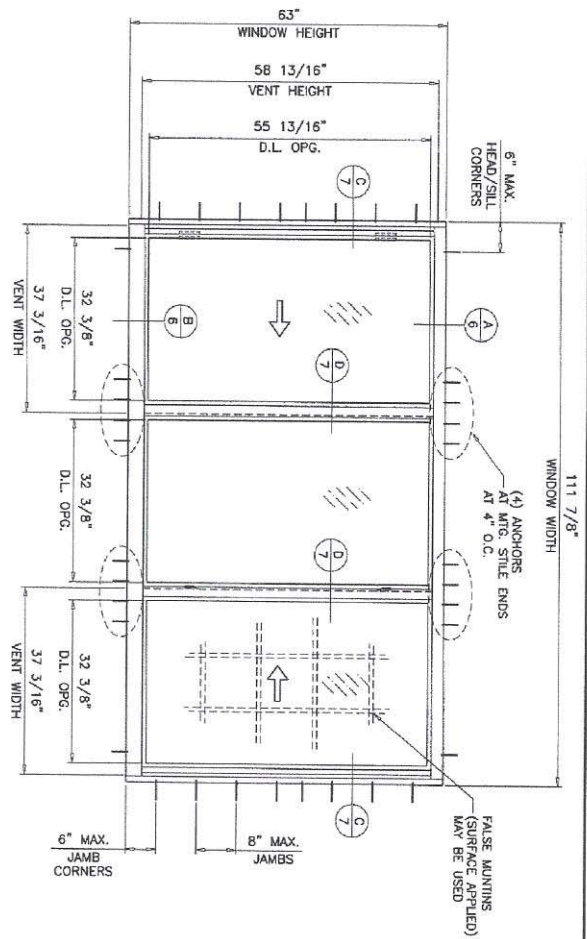
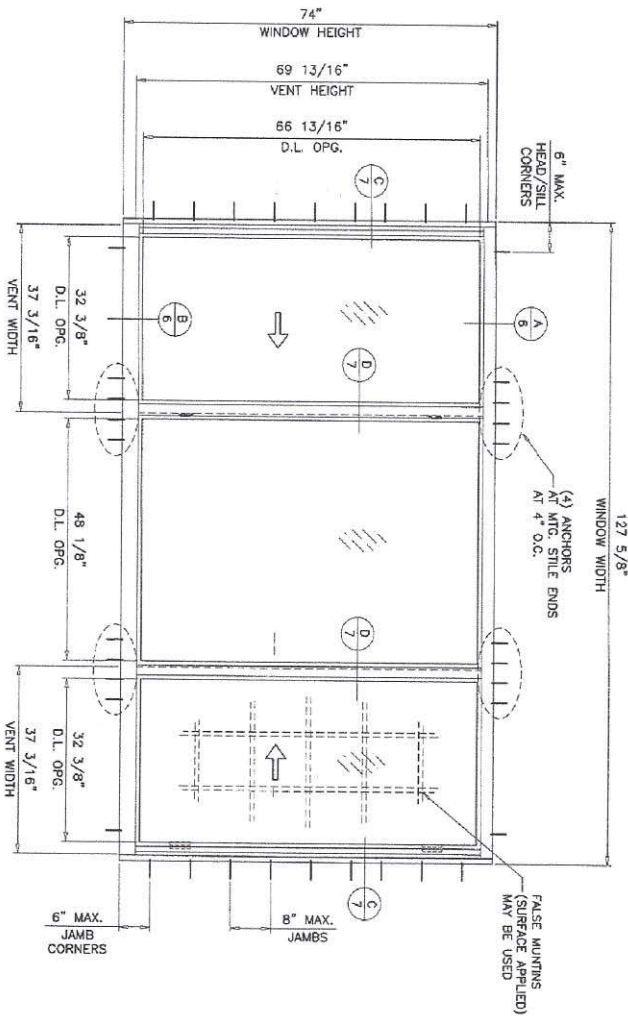
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION REPORT. THE USER DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- SITE SPECIFIC PROJECTS SHALL BE REVIEWED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHO WILL BECOME THE AGENCY FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED SIGNER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE DRAWINGS FOR REVIEW.
D- THIS P.E.D. SHALL BE THE DATE AND ORIGIN, SIGN AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FL #20359



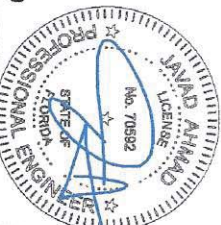
Sealed: 1/12/2018

drawing no. W16-26	date: 04-18-16	revisions:	MG-300 ALUM HORIZ. ROLLING WDW. (L.M.I.)	AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9380 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978	a f c
	scale: 1/2"=1'-0"	no. date by description			
sheet 1 of 10	dr. by: TARIQ	A 01.12.18 UPDATED TO 2017 FBC	COMP-ANL\W16-26MG		



TYPICAL ELEVATIONS
TESTED UNITS

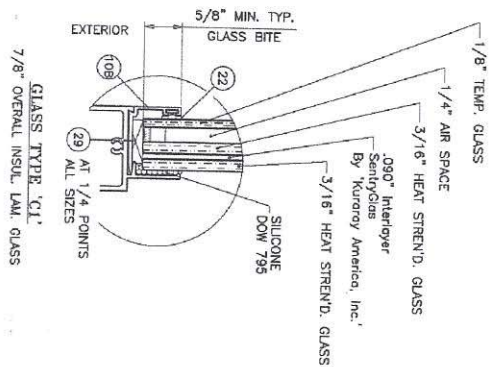
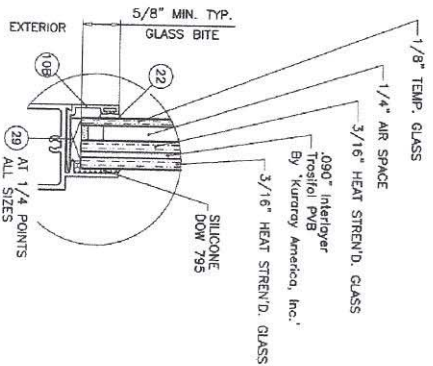
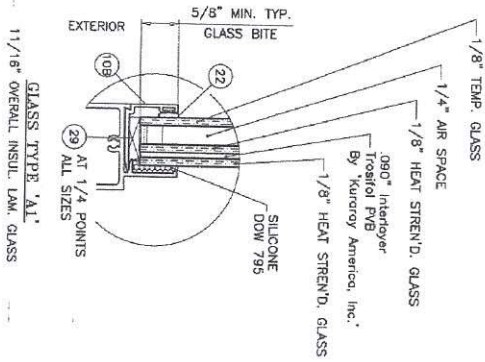
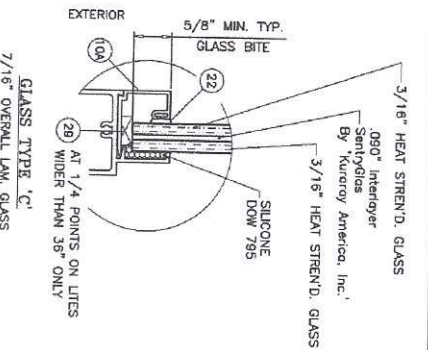
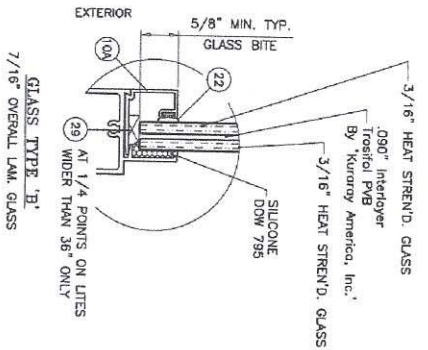
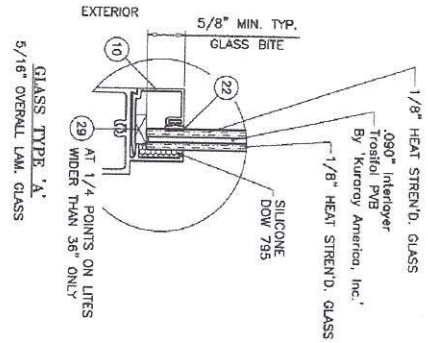
FL #20359



Sealed: 1/12/2018

drawing no. W16-26 sheet 2 of 10	date: 04-18-16	revisions:	MG-300 ALUM HORIZ. ROLLING WDW. (L.M.I.) MR. GLASS DOORS & WINDOWS INC. 8120 N.W. 84 STREET MEDLEY, FL. 33166 TEL. (305) 470-8284 FAX. (305) 470-8285	AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9380 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL (305) 264-8100 FAX. (305) 262-6978	a f c
	scale: 1/2"=1'-0"	no date by description			
dr. by: TARIQ					
chk. by:					

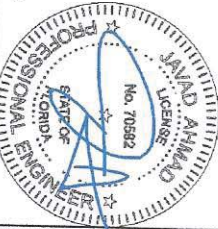
COMP-ANL\W16-26MC



GLAZING OPTIONS

1/4" AIR SPACE, CONSISTING OF:
DURASEAL® EDGE SEAL SYSTEM
BY QUANEX®

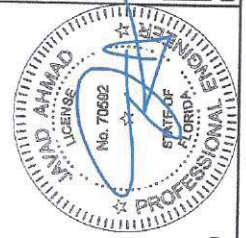
FL #20359



Sealed: 1/12/2018

drawing no. W16-26	date: 04-18-16	revisions:	MG-300 ALUM HORIZ. ROLLING WDW. (L.M.I.)	AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)
	scale: 1/2" = 1"	no date by description		
dr. by: TARIO	chk. by:			a f c COMP-ANL\W16-26MG

AL-FAROQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9390 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL: (305) 264-8100 FAX: (305) 262-8978 (C.A.N. 3538)		MR. GLASS DOORS & WINDOWS INC. 8120 N.W. 84 STREET MEDLEY, FL. 33166 TEL: (305) 470-8284 FAX: (305) 470-8285		MG-300 ALUM. HORIZ. ROLLING WD.W. (L.M.I.) no. date by description revisions:		chg. by: dr. by: TARIQ scale: - date: 04-18-16	drawing no. W16-26 sheet 5 of 10
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FL #20359

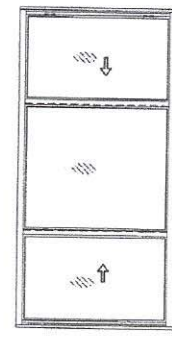
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DESIGN LOAD CAPACITY - PSF (XOX SIZES)									
FRAME DIMS.		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
72"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0

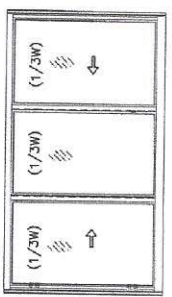
DESIGN LOAD CAPACITY - PSF (XOX SIZES)									
FRAME DIMS.		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74"	28"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	28"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	28"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	28"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74"	38-3/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	38-3/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	38-3/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	38-3/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74"	50-5/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	50-5/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	50-5/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	50-5/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74"	63"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	63"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	63"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	63"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74"	74"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	74"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0

DESIGN LOAD CAPACITY - PSF (XOX SIZES)									
FRAME DIMS.		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
72"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	24"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	36"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	48"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	60"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120"	72"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0

DESIGN LOAD CAPACITY - PSF (XOX SIZES)									
FRAME DIMS.		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'		GLASS TYPES 'B' & 'B1'		GLASS TYPES 'C' & 'C1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74"	26"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	26"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	26"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	26"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74"	38-3/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	38-3/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	38-3/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	38-3/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74"	50-5/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	50-5/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	50-5/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	50-5/8"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74"	63"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	63"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	63"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	63"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74"	74"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
106-1/4"	74"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
111"	74"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
126"	74"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0



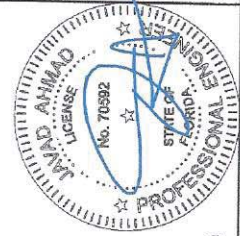
OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WINDOW WIDTH
'XOX'



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH
'XOX'

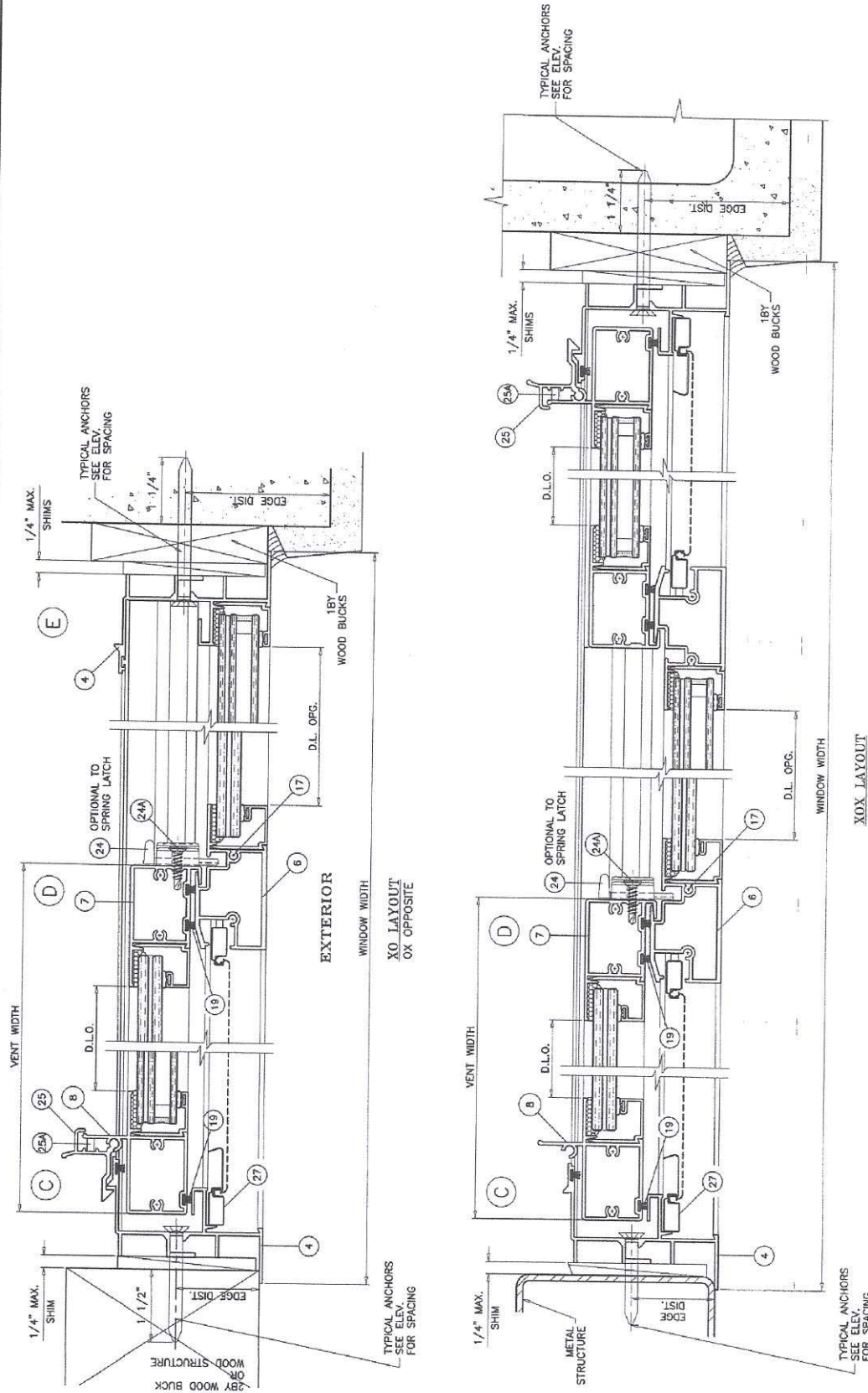
NOTE: GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

COMP-ANL\W16-26MG		MR. GLASS DOORS & WINDOWS INC. 8120 N.W. 84 STREET MEDLEY, FL 33166 TEL (305) 470-8284 FAX (305) 470-8285		date: 04-18-16 scale: 1/2" = 1' dr. by: TARIQ chk. by:		drawing no. W16-26 sheet 7 of 10	
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 FAX (305) 262-6978		MG-300 ALUM HORIZ. ROLLING WDW. (L.M.I.)		revisions: no date by description			

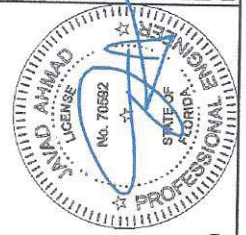


FL #20359

Sealed: 1/12/2018

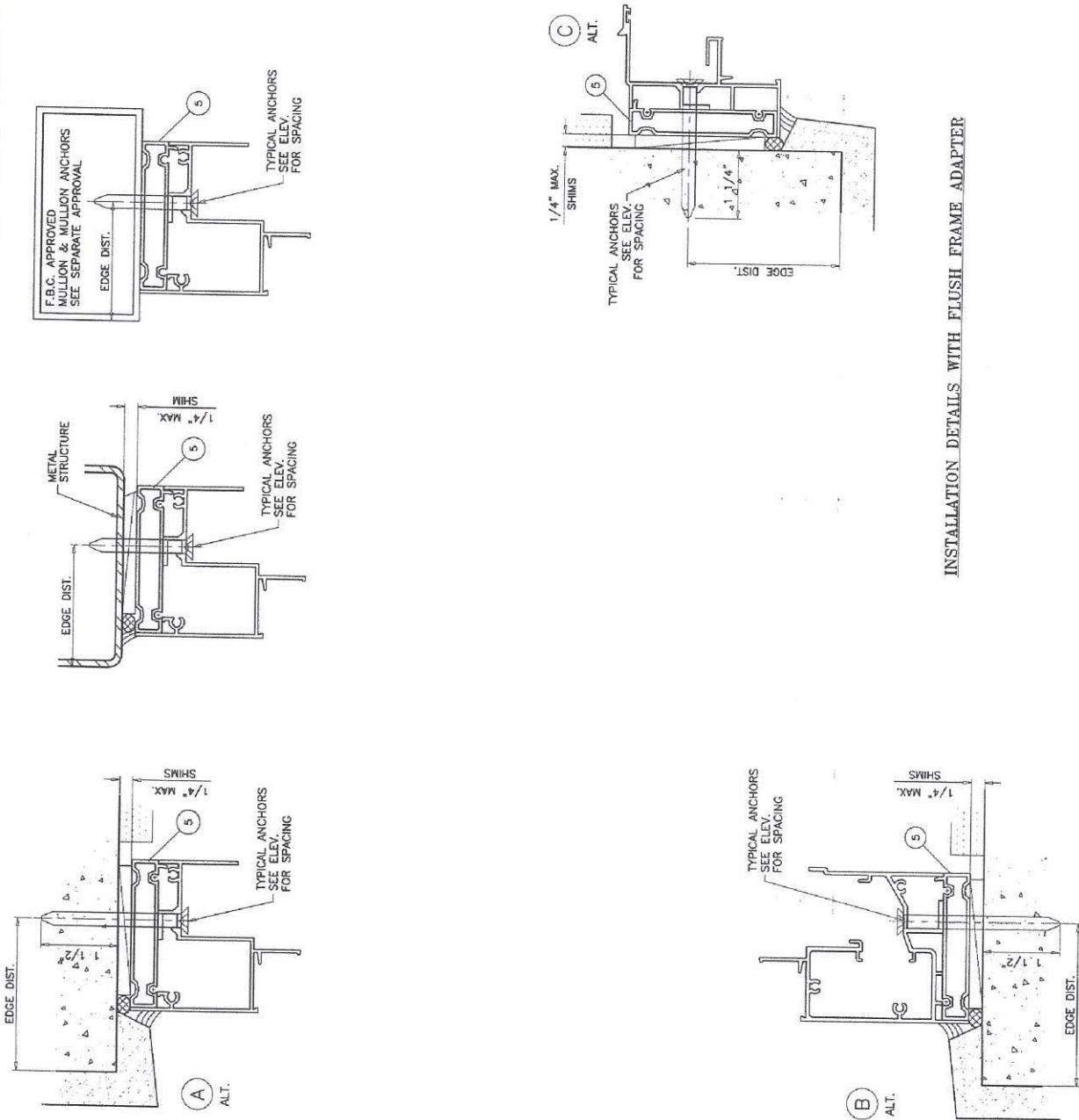


AL-FAROQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) FAX: (305) 262-8978 TEL: (305) 264-8100		MR. GLASS DOORS & WINDOWS INC. 8120 N.W. 84 STREET MEDLEY, FL. 33166 TEL: (305) 470-8284 FAX: (305) 470-8285		drawing no. W16-26 sheet 8 of 10 date: 04-18-16 scale: 1/2" = 1" dr. by: TAPIC chg. by:	
COMP-ANL\W16-26MG		MG-300 ALUM. HORIZ. ROLLING WDW. (L.M.I.) no. date by description		revisions:	

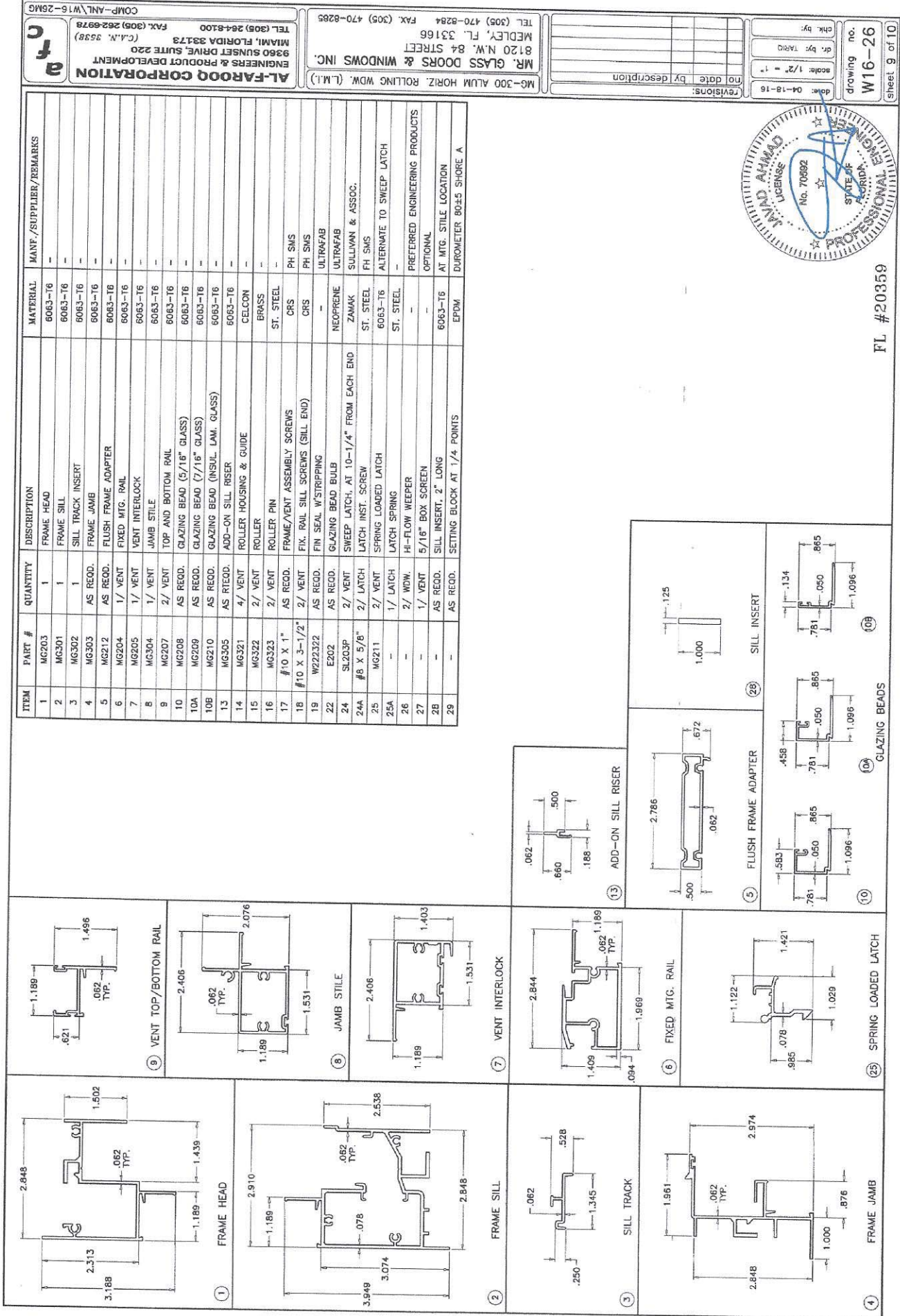


FL #20359

Sealed: 1/12/2018

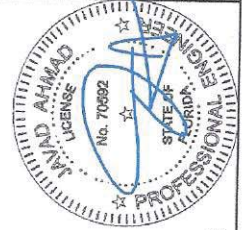


F.B.C. APPROVED
MULLION & MULLION ANCHORS
SEE SEPARATE APPROVAL



FL #20359

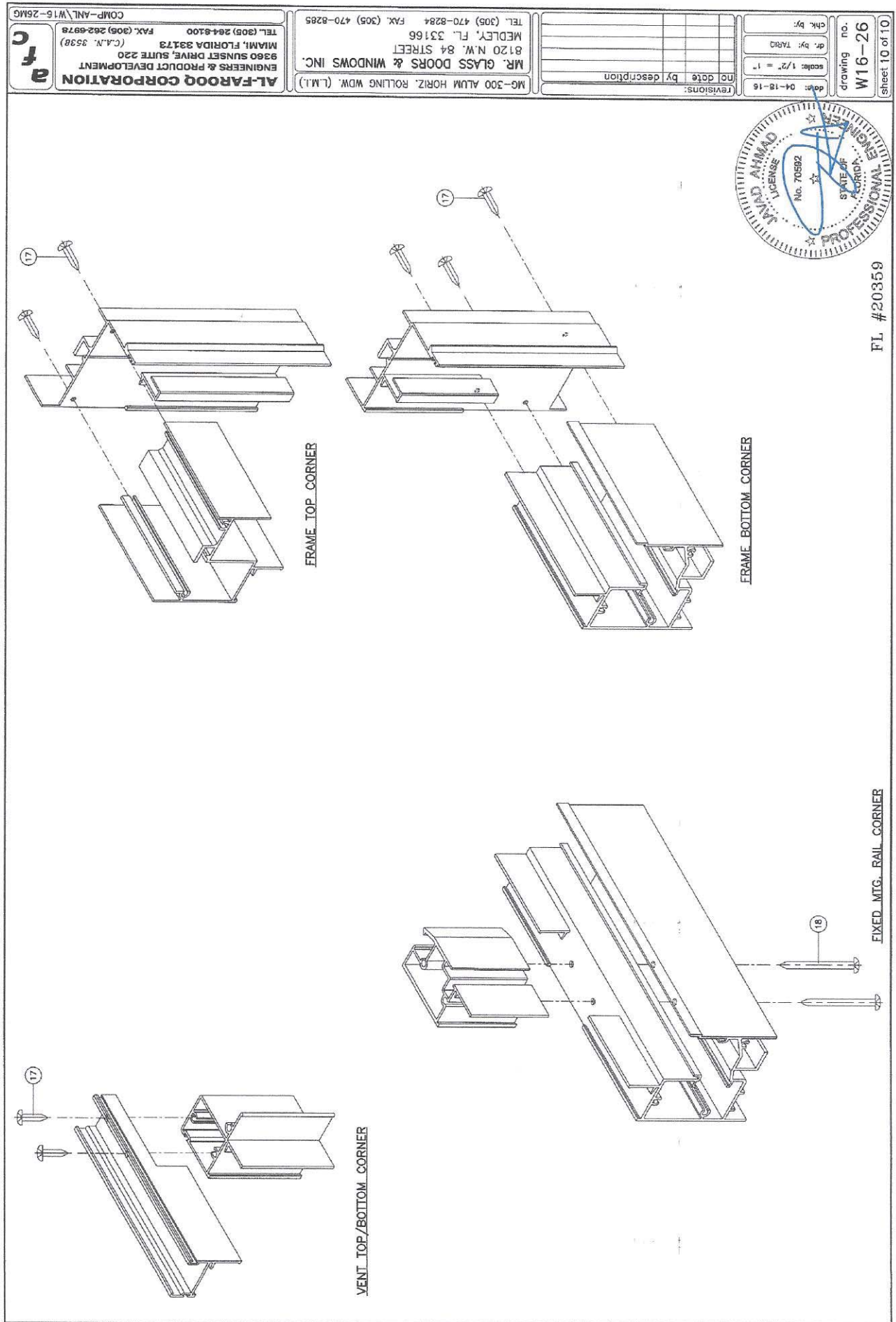
Sealed: 1/12/2018



MR. GLASS DOORS & WINDOWS INC.
8120 N.W. 84 STREET
MEDLEY, FL 33166
TEL (305) 470-8284 FAX (305) 470-8285

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-9978
COMP-ANL\W16-26MG

drawing no. W16-26
sheet 9 of 10
date: 04-18-16
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
revisions:
no. date by description





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

NOTICE OF ACCEPTANCE (NOA)

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

Mr. Glass Doors & Windows, Inc.
7440 NW 66 Street
Miami, FL 33166

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.-

DESCRIPTION: Series "MG-4500" Aluminum Storefront System – N.I.

APPROVAL DOCUMENT: Drawing No. **W10-75**, titled "MG-4500 Aluminum Flush Glazed System (N.I.)", sheets 1 through 9 of 9, dated 10/15/10, with revision **B** dated 03/04/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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: None.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, 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 No. 15-0401.01** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



Handwritten signature and date: 1/5/17

NOA No. 16-1116.04
Expiration Date: October 06, 2021
Approval Date: January 12, 2017
Page 1

Mr. Glass Doors & Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No.11-0720.08)
2. Drawing No. **W10-75**, titled "MG-4500 Aluminum Flush Glazed System (N.I.)", sheets 1 through 9 of 9, dated 10/15/10, with revision B dated 03/04/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No.15-0401.01)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of an aluminum storefront and storefront door system, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2545**, dated 09/25/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 11-0720.08)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94 along with marked-up drawings and installation diagram of an aluminum storefront system, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2546**, dated 09/16/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 11-0720.08)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC TAS 202-94 and AAMA 1304-02 along with marked-up drawings and installation diagram of an aluminum storefront system with a pair of doors, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2550**, dated 09/16/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 11-0720.08)
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Forced Entry Test, per FBC TAS 202-94 and AAMA 1304-02 along with marked-up drawings and installation diagram of an aluminum storefront door system, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2549**, dated 09/16/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 11-0720.08)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-1116.04

Expiration Date: October 06, 2021
Approval Date: January 12, 2017

Mr. Glass Doors & Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Forced Entry Test, per FBC TAS 202-94 and AAMA 1304-02
along with marked-up drawings and installation diagram of an aluminum storefront door system, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2548**, dated 09/16/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 11-0720.08)
6. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Forced Entry Test, per FBC TAS 202-94 and AAMA 1304-02
along with marked-up drawings and installation diagram of an aluminum storefront door system, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2547**, dated 09/16/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 11-0720.08)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 02/27/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. *(Submitted under NOA No.15-0401.01)*
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated February 27, 2015, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. *(Submitted under NOA No.15-0401.01)*
2. Laboratory compliance letter for Test Reports No. **HETI-09-2545**, **HETI-09-2546**, **HETI-09-2547**, **HETI-09-2548**, **HETI-09-2549** and **HETI-09-2550**, issued by Hurricane Engineering & Testing, Inc., dated 09/16/09, signed and sealed by Candido F. Font, P.E. *(Submitted under NOA No.11-0720.08)*

G. OTHERS

1. Notice of Acceptance No. **15-0401.01**, issued to Mr. Glass Doors & Windows, Inc. for their Series "MG-4500" Aluminum Storefront System – N.I., approved on 07/09/15 and expiring on 10/06/16.



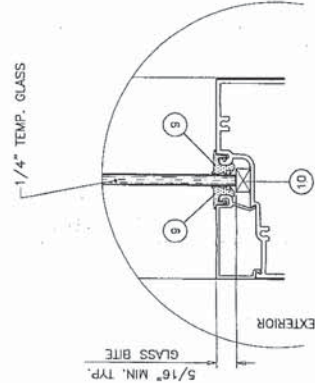
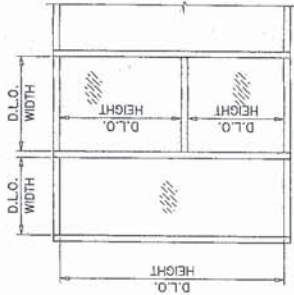
Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-1116.04

Expiration Date: October 06, 2021
Approval Date: January 12, 2017

DRAFT DOCUMENT FOR COMMISSION REVIEW

GLASS LOAD CAPACITY - PSF			GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.			NOMINAL DIMS.		
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)	D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)
22-1/4"	68-1/2"	100.0	22-1/4"	104-1/2"	100.0
28-1/4"		100.0	28-1/4"		100.0
34-1/4"		100.0	34-1/4"		100.0
40-1/4"		100.0	40-1/4"		100.0
46-1/4"		100.0	46-1/4"		100.0
52-1/4"	74-1/2"	100.0	52-1/4"	110-1/2"	100.0
58-1/4"		100.0	58-1/4"		100.0
64-1/4"		100.0	64-1/4"		100.0
70-1/4"		100.0	70-1/4"		100.0
76-1/4"		100.0	76-1/4"		100.0
82-1/4"	80-1/2"	100.0	82-1/4"	116-1/2"	100.0
88-1/4"		100.0	88-1/4"		100.0
94-1/4"		100.0	94-1/4"		100.0
100-1/4"		100.0	100-1/4"		100.0
106-1/4"		100.0	106-1/4"		100.0
112-1/4"	86-1/2"	100.0	112-1/4"		100.0
118-1/4"		100.0	118-1/4"		100.0
124-1/4"		100.0	124-1/4"		100.0
130-1/4"		100.0	130-1/4"		100.0
136-1/4"		100.0	136-1/4"		100.0
142-1/4"	92-1/2"	100.0	142-1/4"		100.0
148-1/4"		100.0	148-1/4"		100.0
154-1/4"		100.0	154-1/4"		100.0
160-1/4"		100.0	160-1/4"		100.0
166-1/4"		100.0	166-1/4"		100.0
172-1/4"	94-1/2"	100.0	172-1/4"		100.0
178-1/4"		100.0	178-1/4"		100.0
184-1/4"		100.0	184-1/4"		100.0
190-1/4"		100.0	190-1/4"		100.0
196-1/4"		100.0	196-1/4"		100.0

NOTE:
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



LOADS SHOWN IN CHARTS ARE FOR INSTALLATIONS WHERE
WATER INFILTRATION RESISTANCE IS NOT REQUIRED.
LIMIT EXTERIOR LOADS TO +50.0 PSF FOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 16-1116.04

Expiration Date 10/06/2021

By *Manuel Diaz*
Miami-Dade Product Control

GLASS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-040181
Expiration Date 02-16-2016
MAR 11 2015
Manuel Diaz
Miami-Dade Product Control

Engr. JUANO KIMMO
FLA. P.E. # 70592
C.A.A. # 3538

AL-FAROOG CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL\W10-75MRC	MR. GLASS DOORS & WINDOWS INC. 7440 N.W. 66 STREET MIAMI, FL. 33166 TEL. (305) 470-8284 FAX. (305) 470-8285	revisions: no. date description A 09.14.11 NO CHANGE THIS SHEET B 03.04.15 UPDATED TO 2014 FBC	chk. by: HAMID date: 10-15-10 drawing no. W10-75 sheet 2 of 9
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MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.	MULLION 'M1'	MULLION 'M2'	MULLION 'M3'
WIDTH (W) FRAME HEIGHT EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	100.0
30"	100.0	100.0	100.0
36"	100.0	100.0	100.0
42"	100.0	100.0	100.0
48"	100.0	100.0	100.0
54"	100.0	100.0	100.0
60"	100.0	100.0	100.0
66"	100.0	100.0	100.0
72"	100.0	100.0	100.0
24"	100.0	100.0	

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 16-1116.04

Expiration Date 10/06/2021

By Wm. P. Fox

Miami-Dade Product Control

1

MILLION

1

PRODUCT REVISED

as complying with the Florida Building Code, 1994.

Acceptance No 15-0406
Expiration Date Oct. 6, 20BY *Theresa E. ...*

Miami Dade Product Control

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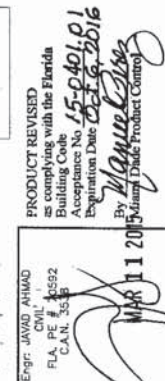
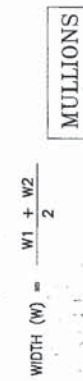
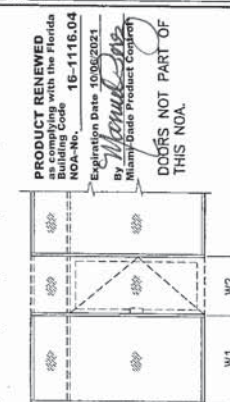
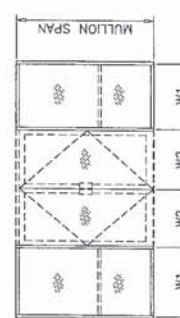
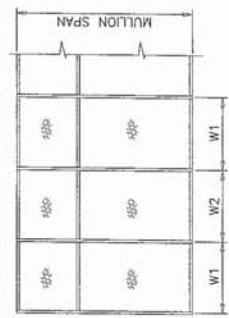
DRAFT DOCUMENT FOR COMMISSION REVIEW

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		MULLION 'M1'		MULLION 'M2'		MULLION 'M3'		MULLION 'M4'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
24"	24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	36"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	42"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	48"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	54"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"	60"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"	66"	93.7	96.3	100.0	100.0	100.0	100.0	100.0	100.0
72"	72"	85.9	88.2	100.0	100.0	100.0	100.0	100.0	100.0
24"	24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	36"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	42"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	48"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	54"	93.7	96.5	100.0	100.0	100.0	100.0	100.0	100.0
60"	60"	84.3	86.9	100.0	100.0	100.0	100.0	100.0	100.0
66"	66"	76.6	79.0	100.0	100.0	100.0	100.0	100.0	100.0
72"	72"	-	-	100.0	100.0	100.0	100.0	100.0	100.0
24"	24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	36"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	42"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	48"	87.7	90.6	100.0	100.0	100.0	100.0	100.0	100.0
54"	54"	78.0	80.5	100.0	100.0	100.0	100.0	100.0	100.0
60"	60"	70.2	72.5	100.0	100.0	100.0	100.0	100.0	100.0
66"	66"	-	-	100.0	100.0	100.0	100.0	100.0	100.0
72"	72"	-	-	97.8	97.2	100.0	100.0	100.0	100.0
24"	24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	36"	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	42"	84.6	87.6	100.0	100.0	100.0	100.0	100.0	100.0
48"	48"	74.0	76.6	100.0	100.0	100.0	100.0	100.0	100.0
54"	54"	65.8	68.1	100.0	100.0	100.0	100.0	100.0	100.0
60"	60"	-	-	100.0	100.0	100.0	100.0	100.0	100.0
66"	66"	-	-	90.9	90.3	100.0	100.0	100.0	100.0
72"	72"	-	-	83.3	82.8	100.0	100.0	100.0	100.0
24"	24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	36"	84.6	87.7	100.0	100.0	100.0	100.0	100.0	100.0
42"	42"	72.5	75.2	100.0	100.0	100.0	100.0	100.0	100.0
48"	48"	63.4	65.8	100.0	100.0	100.0	100.0	100.0	100.0
54"	54"	56.4	58.5	100.0	100.0	100.0	100.0	100.0	100.0
60"	60"	-	-	86.2	85.7	100.0	100.0	100.0	100.0
66"	66"	-	-	78.4	77.9	100.0	100.0	100.0	100.0
72"	72"	-	-	75.1	74.6	100.0	100.0	100.0	100.0
24"	24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	36"	88.2	88.5	100.0	100.0	100.0	100.0	100.0	100.0
42"	42"	73.5	72.1	100.0	100.0	100.0	100.0	100.0	100.0
48"	48"	63.0	61.8	100.0	100.0	100.0	100.0	100.0	100.0
54"	54"	55.1	54.1	100.0	100.0	100.0	100.0	100.0	100.0
60"	60"	-	-	93.9	93.3	100.0	100.0	100.0	100.0
66"	66"	-	-	83.4	82.9	100.0	100.0	100.0	100.0
72"	72"	-	-	75.1	74.6	100.0	100.0	100.0	100.0

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		MULLION 'M1'		MULLION 'M2'		MULLION 'M3'		MULLION 'M4'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
24"	24"	90.8	90.8	89.1	89.1	100.0	100.0	100.0	100.0
30"	30"	72.6	72.6	71.3	71.3	100.0	100.0	100.0	100.0
36"	36"	60.5	60.5	59.4	59.4	100.0	100.0	100.0	100.0
42"	42"	51.9	51.9	50.9	50.9	94.3	94.3	93.7	93.7
48"	48"	45.4	45.4	44.6	44.6	82.5	82.5	82.0	82.0
54"	54"	-	-	-	-	73.3	73.3	72.9	72.9
60"	60"	-	-	-	-	66.0	66.0	65.6	65.6
66"	66"	86.0	86.0	84.4	84.4	100.0	100.0	100.0	100.0
72"	72"	68.8	68.8	67.5	67.5	100.0	100.0	100.0	100.0
24"	24"	57.3	57.3	56.3	56.3	100.0	100.0	100.0	100.0
30"	30"	49.2	49.2	48.2	48.2	90.8	90.8	90.4	90.4
36"	36"	45.9	45.9	45.0	45.0	84.9	84.9	84.3	84.3
42"	42"	44.4	44.4	43.6	43.6	82.1	82.1	81.6	81.6
48"	48"	-	-	-	-	79.6	79.6	79.1	79.1
54"	54"	-	-	-	-	70.7	70.7	70.3	70.3
60"	60"	-	-	-	-	63.7	63.7	63.3	63.3
66"	66"	-	-	-	-	100.0	100.0	100.0	100.0
72"	72"	-	-	-	-	97.4	97.4	96.8	96.8
24"	24"	-	-	-	-	83.5	83.5	83.0	83.0
30"	30"	-	-	-	-	73.1	73.1	72.6	72.6
36"	36"	-	-	-	-	65.0	65.0	64.5	64.5
42"	42"	-	-	-	-	100.0	100.0	100.0	100.0
48"	48"	-	-	-	-	100.0	100.0	100.0	100.0
54"	54"	-	-	-	-	86.8	86.8	86.4	86.4
60"	60"	-	-	-	-	74.5	74.5	74.0	74.0
66"	66"	-	-	-	-	65.2	65.2	64.8	64.8
72"	72"	-	-	-	-	57.9	57.9	57.6	57.6
24"	24"	-	-	-	-	100.0	100.0	100.0	100.0
30"	30"	-	-	-	-	93.6	93.6	93.0	93.0
36"	36"	-	-	-	-	78.0	78.0	77.5	77.5
42"	42"	-	-	-	-	66.9	66.9	66.4	66.4
48"	48"	-	-	-	-	59.5	59.5	58.1	58.1
54"	54"	-	-	-	-	100.0	100.0	100.0	100.0
60"	60"	-	-	-	-	84.5	84.5	83.9	83.9
66"	66"	-	-	-	-	70.4	70.4	70.0	70.0
72"	72"	-	-	-	-	60.3	60.3	60.0	60.0

NOTE: INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

LOADS SHOWN IN CHARTS ARE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED. LIMIT EXTERIOR LOADS TO +60.0 PSF FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

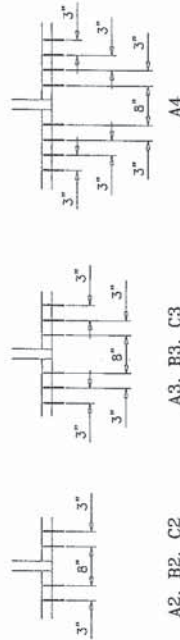


ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'			ANCHOR TYPE 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	B4	C2	C3
24"	60"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		90.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		78.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		70.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		63.0	94.6	100.0	100.0	100.0	100.0	100.0	100.0
66"		57.3	86.0	100.0	100.0	100.0	100.0	100.0	100.0
72"		52.5	78.8	100.0	95.0	100.0	100.0	100.0	100.0
78"		47.8	71.6	100.0	90.0	100.0	100.0	100.0	100.0
24"	66"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		87.6	95.5	100.0	100.0	100.0	100.0	100.0	100.0
42"		75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		65.7	98.5	100.0	100.0	100.0	100.0	100.0	100.0
54"		58.4	87.5	100.0	100.0	100.0	100.0	100.0	100.0
60"		52.5	78.8	100.0	96.0	100.0	100.0	100.0	100.0
66"		47.8	71.6	95.5	87.3	100.0	92.8	100.0	100.0
72"		43.8	65.7	87.6	80.0	100.0	85.1	100.0	100.0
78"		40.4	60.6	80.8	73.8	100.0	78.6	100.0	100.0
24"	72"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		80.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		69.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		60.6	90.9	100.0	100.0	100.0	100.0	100.0	100.0
54"		53.9	80.8	100.0	98.5	100.0	100.0	100.0	100.0
60"		48.5	72.7	97.0	98.6	100.0	94.3	100.0	100.0
66"		44.1	66.1	88.2	80.6	100.0	85.7	100.0	100.0
72"		40.4	60.6	80.8	73.8	100.0	78.6	100.0	100.0
78"		37.0	56.6	76.8	70.0	100.0	74.8	100.0	100.0
24"	78"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		80.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		69.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		60.6	90.9	100.0	100.0	100.0	100.0	100.0	100.0
54"		53.9	80.8	100.0	98.5	100.0	100.0	100.0	100.0
60"		48.5	72.7	97.0	98.6	100.0	94.3	100.0	100.0
66"		44.1	66.1	88.2	80.6	100.0	85.7	100.0	100.0
72"		40.4	60.6	80.8	73.8	100.0	78.6	100.0	100.0
78"		37.0	56.6	76.8	70.0	100.0	74.8	100.0	100.0
24"	84"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		80.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		69.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		60.6	90.9	100.0	100.0	100.0	100.0	100.0	100.0
54"		53.9	80.8	100.0	98.5	100.0	100.0	100.0	100.0
60"		48.5	72.7	97.0	98.6	100.0	94.3	100.0	100.0
66"		44.1	66.1	88.2	80.6	100.0	85.7	100.0	100.0
72"		40.4	60.6	80.8	73.8	100.0	78.6	100.0	100.0
78"		37.0	56.6	76.8	70.0	100.0	74.8	100.0	100.0
24"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		80.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		69.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		60.6	90.9	100.0	100.0	100.0	100.0	100.0	100.0
54"		53.9	80.8	100.0	98.5	100.0	100.0	100.0	100.0
60"		48.5	72.7	97.0	98.6	100.0	94.3	100.0	100.0
66"		44.1	66.1	88.2	80.6	100.0	85.7	100.0	100.0
72"		40.4	60.6	80.8	73.8	100.0	78.6	100.0	100.0
78"		37.0	56.6	76.8	70.0	100.0	74.8	100.0	100.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'			ANCHOR TYPE 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	B4	C2	C3
24"	97'-3/4"	96.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		77.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		64.5	96.7	100.0	100.0	100.0	100.0	100.0	100.0
42"		55.3	82.9	100.0	100.0	100.0	100.0	100.0	100.0
48"		48.4	72.8	96.7	88.4	100.0	94.0	100.0	100.0
54"		43.0	64.5	86.0	78.8	100.0	83.6	100.0	100.0
60"		38.7	58.0	77.4	70.7	100.0	75.2	100.0	100.0
66"		34.2	52.5	71.6	64.5	100.0	69.0	100.0	100.0
72"		30.0	47.8	65.7	58.4	100.0	62.9	100.0	100.0
78"		26.0	43.8	60.6	53.9	100.0	58.4	100.0	100.0
24"	102"	87.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		74.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		61.8	92.7	100.0	100.0	100.0	100.0	100.0	100.0
42"		53.0	79.5	100.0	100.0	100.0	100.0	100.0	100.0
48"		46.4	69.5	92.7	84.7	100.0	90.1	100.0	100.0
54"		41.2	61.8	82.4	75.3	100.0	80.1	100.0	100.0
60"		37.0	56.6	76.8	70.0	100.0	74.8	100.0	100.0
66"		33.0	52.5	71.6	64.5	100.0	69.0	100.0	100.0
72"		29.0	47.8	65.7	58.4	100.0	62.9	100.0	100.0
78"		25.0	43.8	60.6	53.9	100.0	58.4	100.0	100.0
24"	108"	82.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		69.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		56.6	87.6	100.0	100.0	100.0	100.0	100.0	100.0
42"		49.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		43.8	65.7	87.6	80.0	100.0	85.1	100.0	100.0
54"		38.9	58.4	77.8	71.1	100.0	75.7	100.0	100.0
60"		34.2	52.5	71.6	64.5	100.0	69.0	100.0	100.0
66"		30.0	47.8	65.7	58.4	100.0	62.9	100.0	100.0
72"		26.0	43.8	60.6	53.9	100.0	58.4	100.0	100.0
78"		22.0	40.4	56.6	50.0	100.0	54.0	100.0	100.0
24"	114"	78.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		63.0	94.6	100.0	100.0	100.0	100.0	100.0	100.0
36"		52.5	78.8	100.0	100.0	100.0	100.0	100.0	100.0
42"		45.0	67.5	90.1	82.3	100.0	87.5	100.0	100.0
48"		39.4	59.1	78.8	72.0	100.0	76.6	100.0	100.0
54"		34.2	52.5	71.6	64.5	100.0	69.0	100.0	100.0
60"		30.0	47.8	65.7	58.4	100.0	62.9	100.0	100.0
66"		26.0	43.8	60.6	53.9	100.0	58.4	100.0	100.0
72"		22.0	40.4	56.6	50.0	100.0	54.0	100.0	100.0
78"		18.0	37.0	52.5	46.4	100.0	50.0	100.0	100.0
24"	120"	70.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		58.4	87.6	100.0	100.0	100.0	100.0	100.0	100.0
36"		50.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		43.8	65.7	87.6	80.0	100.0	85.1	100.0	100.0
48"		38.9	58.4	77.8	71.1	100.0	75.7	100.0	100.0
54"		34.2	52.5	71.6	64.5	100.0	69.0	100.0	100.0
60"		30.0	47.8	65.7	58.4	100.0	62.9	100.0	100.0
66"		26.0	43.8	60.6	53.9	100.0	58.4	100.0	100.0
72"		22.0	40.4	56.6	50.0	100.0	54.0	100.0	100.0
78"		18.0	37.0	52.5	46.4	100.0	50.0	100.0	100.0

NOTE:

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 7 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100
FAX (305) 262-6978
COMP-ANL\W10-75MRG

MR. GLASS DOORS & WINDOWS INC.
7440 N.W. 66 STREET
MIAMI, FL 33166
TEL (305) 470-8284
FAX (305) 470-8285

MG-4500 ALUMINUM FLUSH GLAZED SYSTEM (N.I.)
REV. PER BNC COMMENTS
A 09.14.11
B 03.04.15
C 03.04.15
DESCRIPTION
REVISED TO 2014 FBC

date: 10-15-10
scale: 3/8" = 1"
drawing no. W10-75
sheet 5 of 9

check by: HAMD
date: 10-15-10

date: 10-15-10
scale: 3/8" = 1"
drawing no. W10-75
sheet 5 of 9

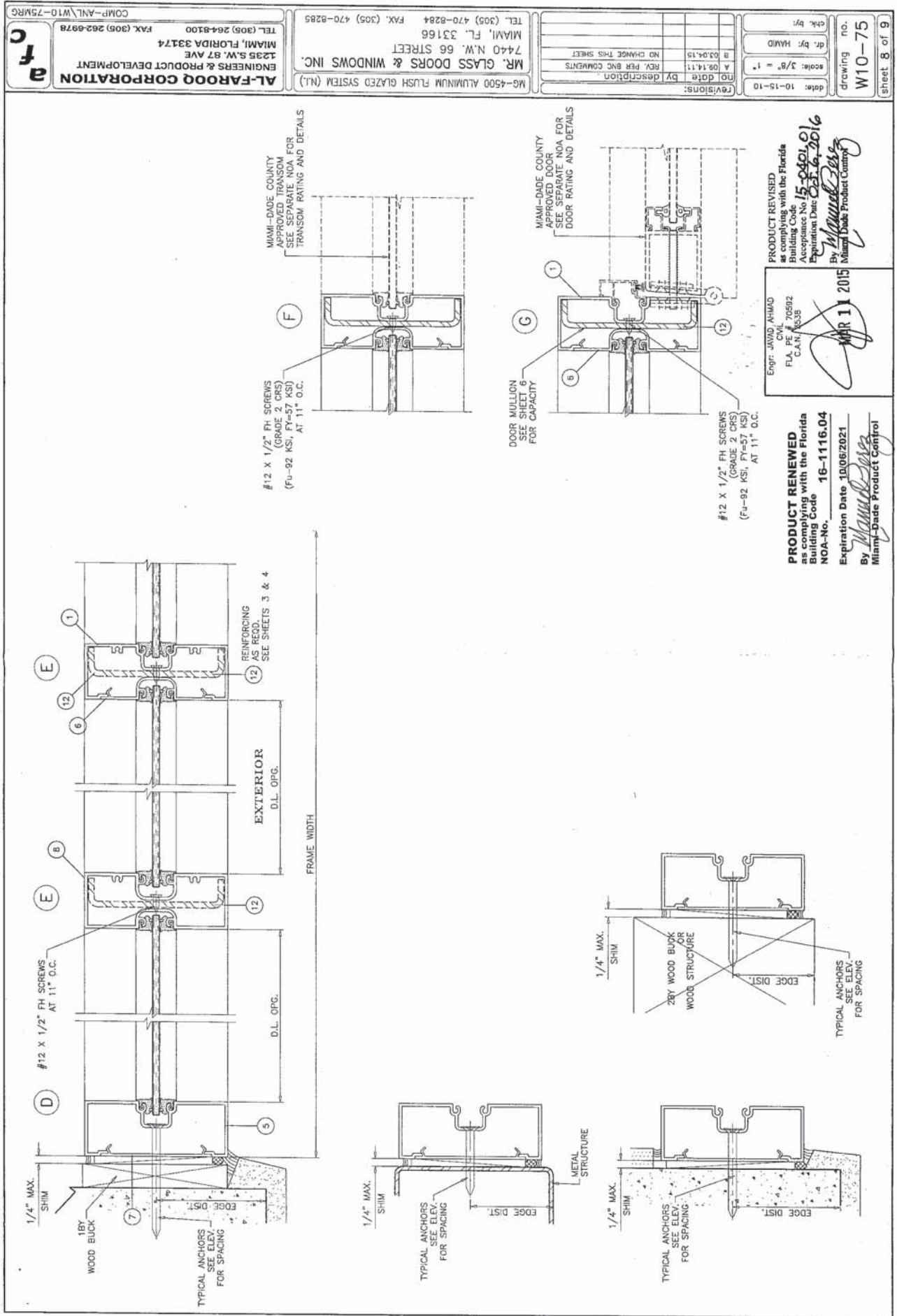
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0401.01
Expiration Date Oct 16, 2016
By: *Manuel Perez*
Miami-Date Product Control

Engr. JAWAD AHMAD
CIVIL
FLA. PE # 70592
C.A.R. 3538
MAR 11 2015
By: *Manuel Perez*
Miami-Date Product Control

DRAFT DOCUMENT FOR COMMISSION REVIEW

AL-FAROOQ CORPORATION									
ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978									
COMP-ANL W10-75MRG									
MR. GLASS DOORS & WINDOWS INC.									
7440 N.W. 66 STREET MIAMI, FL. 33166 TEL. (305) 470-8284 FAX. (305) 470-8285									
MC-4500 ALUMINUM FLUSH GLAZED SYSTEM (N.I.)									
DOOR MULLION LOAD CAPACITY - PSF									
NOMINAL DIMS.				DOOR MULLION					
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
96	84	72	18	100.0	18	100.0			
			24	100.0	24	100.0			
			30	100.0	30	99.9			
			36	97.5	36	92.0			
102	84	72	42	90.8	42	85.3			
			48	85.0	48	79.5			
			18	100.0	18	100.0			
			24	95.6	24	91.7			
108	84	72	30	88.5	30	84.3			
			36	82.3	36	78.0			
			42	76.9	42	72.6			
			48	72.2	48	67.9			
114	84	72	18	87.9	18	85.2			
			24	81.2	24	78.1			
			30	75.5	30	72.2			
			36	70.4	36	67.0			
120	84	72	42	66.0	42	62.6			
			48	62.1	48	58.4			
			18	75.3	18	67.4			
			24	69.8	24	62.5			
126	84	72	30	65.1	30	62.5			
			36	60.9	36	58.2			
			42	57.3	42	54.5			
			18	65.2	18	62.5			
132	84	72	24	60.7	24	57.3			
			30	56.7	30	53.2			
			36	53.2	36	50.1			
			42	50.1	42	47.0			
DOOR MULLION LOAD CAPACITY - PSF									
NOMINAL DIMS.				DOOR MULLION					
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
96	90	72	18	100.0	18	100.0			
			24	100.0	24	100.0			
			30	100.0	30	99.9			
			36	97.5	36	92.0			
102	90	72	42	95.9	42	85.3			
			48	89.4	48	79.5			
			18	100.0	18	100.0			
			24	95.6	24	91.7			
108	90	72	30	93.9	30	84.3			
			36	86.9	36	78.0			
			42	81.0	42	72.6			
			48	75.7	48	67.9			
114	90	72	18	93.9	18	85.2			
			24	86.2	24	78.1			
			30	79.7	30	72.2			
			36	74.1	36	67.0			
120	90	72	42	69.2	42	62.6			
			48	64.9	48	58.4			
			18	80.0	18	67.4			
			24	73.8	24	62.5			
126	90	72	30	68.5	30	62.5			
			36	63.9	36	58.2			
			42	59.8	42	54.5			
			18	69.0	18	62.5			
132	90	72	24	63.9	24	57.3			
			30	59.5	30	53.2			
			36	55.6	36	50.1			
			42	52.2	42	47.0			
DOOR MULLION LOAD CAPACITY - PSF									
NOMINAL DIMS.				DOOR MULLION					
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
96	84	72	18	100.0	18	100.0			
			24	100.0	24	100.0			
			30	100.0	30	99.9			
			36	97.5	36	92.0			
102	84	72	42	90.8	42	85.3			
			48	85.0	48	79.5			
			18	100.0	18	100.0			
			24	95.6	24	91.7			
108	84	72	30	88.5	30	84.3			
			36	82.3	36	78.0			
			42	76.9	42	72.6			
			48	72.2	48	67.9			
114	84	72	18	87.9	18	85.2			
			24	81.2	24	78.1			
			30	75.5	30	72.2			
			36	70.4	36	67.0			
120	84	72	42	66.0	42	62.6			
			48	62.1	48	58.4			
			18	75.3	18	67.4			
			24	69.8	24	62.5			
126	84	72	30	65.1	30	62.5			
			36	60.9	36	58.2			
			42	57.3	42	54.5			
			18	65.2	18	62.5			
132	84	72	24	60.7	24	57.3			
			30	56.7	30	53.2			
			36	53.2	36	50.1			
			42	50.1	42	47.0			
DOOR MULLION LOAD CAPACITY - PSF									
NOMINAL DIMS.				DOOR MULLION					
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
96	84	72	18	100.0	18	100.0			
			24	100.0	24	100.0			
			30	100.0	30	99.9			
			36	97.5	36	92.0			
102	84	72	42	90.8	42	85.3			
			48	85.0	48	79.5			
			18	100.0	18	100.0			
			24	95.6	24	91.7			
108	84	72	30	88.5	30	84.3			
			36	82.3	36	78.0			
			42	76.9	42	72.6			
			48	72.2	48	67.9			
114	84	72	18	87.9	18	85.2			
			24	81.2	24	78.1			
			30	75.5	30	72.2			
			36	70.4	36	67.0			
120	84	72	42	66.0	42	62.6			
			48	62.1	48	58.4			
			18	75.3	18	67.4			
			24	69.8	24	62.5			
126	84	72	30	65.1	30	62.5			
			36	60.9	36	58.2			
			42	57.3	42	54.5			
			18	65.2	18	62.5			
132	84	72	24	60.7	24	57.3			
			30	56.7	30	53.2			
			36	53.2	36	50.1			
			42	50.1	42	47.0			
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NOMINAL DIMS.				DOOR MULLION					
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
96	84	72	18	100.0	18	100.0			
			24	100.0	24	100.0			
			30	100.0	30	99.9			
			36	97.5	36	92.0			
102	84	72	42	90.8	42	85.3			
			48	85.0	48	79.5			
			18	100.0	18	100.0			
			24	95.6	24	91.7			
108	84	72	30	88.5	30	84.3			
			36	82.3	36	78.0			
			42	76.9	42	72.6			
			48	72.2	48	67.9			
114	84	72	18	87.9	18	85.2			
			24	81.2	24	78.1			
			30	75.5	30	72.2			
			36	70.4	36	67.0			
120	84	72	42	66.0	42	62.6			
			48	62.1	48	58.4			
			18	75.3	18	67.4			
			24	69.8	24	62.5			
126	84	72	30	65.1	30	62.5			
			36	60.9	36	58.2			
			42	57.3	42	54.5			
			18	65.2	18	62.5			
132	84	72	24	60.7	24	57.3			
			30	56.7	30	53.2			
			36	53.2	36	50.1			
			42	50.1	42	47.0			
DOOR MULLION LOAD CAPACITY - PSF									
NOMINAL DIMS.				DOOR MULLION					
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
96	84	72	18	100.0	18	100.0			
			24	100.0	24	100.0			
			30	100.0	30	99.9			
			36	97.5	36	92.0			
102	84	72	42	90.8	42	85.3			
			48	85.0	48	79.5			
			18	100.0	18	100.0			
			24	95.6	24	91.7			
108	84	72	30	88.5	30	84.3			
			36	82.3	36	78.0			
			42	76.9	42	72.6			
			48	72.2	48	67.9			
114	84	72	18	87.9	18	85.2			
			24	81.2	24	78.1			
			30	75.5	30	72.2			
			36	70.4	36	67.0			
120	84	72	42	66.0	42	62.6			
			48	62.1	48	58.4			
			18	75.3	18	67.4			
			24	69.8	24	62.5			
126	84	72	30	65.1	30	62.5			
			36	60.9	36	58.2			
			42	57.3	42	54.5			
			18	65.2	18	62.5			
132	84	72	24	60.7	24	57.3			
			30	56.7	30	53.2			
			36	53.2	36	50.1			
			42	50.1	42	47.0			
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NOMINAL DIMS.				DOOR MULLION					
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
96	84	72	18	100.0	18	100.0			
			24	100.0	24	100.0			
			30	100.0	30	99.9			
			36	97.5	36	92.0			
102	84	72	42	90.8	42	85.3			
			48	85.0	48	79.5			
			18	100.0	18	100.0			
			24	95.6	24	91.7			
108	84	72	30	88.5	30	84.3			
			36	82.3	36	78.0			
			42	76.9	42	72.6			
			48	72.2	48	67.9			
114	84	72	18	87.9	18	85.2			
			24	81.2	24	78.1			
			30	75.5	30	72.2			
			36	70.4	36	67.0			
120	84	72	42	66.0	42	62.6			
			48	62.1	48	58.4			
			18	75.3	18	67.4			
			24	69.8	24	62.5			
126	84	72	30	65.1	30	62.5			
			36	60.9	36	58.2			
			42	57.3	42	54.5			
			18	65.2	18	62.5			
132	84	72	24	60.7	24	57.3			
			30	56.7	30	53.2			
			36	53.2	36	50.1			
			42	50.1	42	47.0			
DOOR MULLION LOAD CAPACITY - PSF									
NOMINAL DIMS.				DOOR MULLION					
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
96	84	72	18	100.0	18	100.0			
			24	100.0	24	100.0			
			30	100.0	30	99.9			
			36	97.5	36	92.0			
102	84	72	42	90.8	42	85.3			
			48	85.0	48	79.5			
			18	100.0	18	100.0			
			24	95.6	24	91.7			
108	84	72	30	88.5	30	84.3			
			36	82.3	36	78.0			
			42	76.9	42	72.6			
			48	72.2	48	67.9			
114	84	72	18	87.9	18	85.2			
			24	81.2	24	78.1			
			30	75.5	30				

DRAFT DOCUMENT FOR COMMISSION REVIEW



DRAFT DOCUMENT FOR COMMISSION REVIEW

1	MG-452	FRAME HEAD/MULLION/JAMB	6063-T6	
1A	MG-457	ALT. FRAME HEAD	6063-T6	
2	MG-453	FRAME SILL/HORIZONTAL	6063-T6	
4	MG-454	GLAZING STOP	6063-T6	
5		FRAME JAMB	6063-T6	
6	MG-458	POCKET FILLER	6063-T6	
7	MG-459	SNAP IN COVER	6063-T6	
8	MG-456	FRAME MULLION	6063-T6	
9	2028	AS RECD.	NEOPRENE	CAROLINA CUSTOM RUBBER, DUROMETER 70±5
10	SB563	2/ LITE	NEOPRENE	C.R. LAURENCE, DUROMETER 80±5
11	#8 X 1"	2/ CORNER		GRADE 4 CRS, F _u =92 KSI, F _y =120 KSI
12		REINFORCING CHANNEL	STEEL	ASTM A36, F _y 36 KSI

SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME TO BE SEALED WITH DOW CORNING 795 SEALANT.

FRAME CORNERS

Engr. JAVAD AHMAD
CIVIL
F.L.A. PE # 70592
C.A.N. 3539

MAR 11/2015

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA No. 16-1116.04
Expiration Date 10/06/2021
By *Manuel Dade*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0401.01
Expiration Date 03/15/2016
By *Manuel Dade*
Miami-Dade Product Control

date: 10-15-10	scale: 3/8" = 1"	drawing no. W10-75	sheet 9 of 9
revisions:	by description	chk. by: HAMID	
1	A 09.14.11		
2	B 03.04.15		
NO CHANCE THIS SHEET			
REV. PER BNC COMMENTS			
MR. GLASS DOORS & WINDOWS INC. 7440 N.W. 66 STREET MIAMI, FL 33166 TEL (305) 470-8284 FAX (305) 470-8285			
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL (305) 264-8100 FAX (305) 262-6978			
COMP-ANL W10-75MRC			



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
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/economy

Mr. Glass Doors & Windows, Inc.
7440 N. W. 66 Street
Miami, FL. 33166

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 PERA -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. PERA 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: Series "MG-500" Aluminum Outswing French Door w/ wo Transom-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W11-40 Rev D**, titled "Series MG-500 Alum Outswing French Door (L.M.I.)", sheets 1 through 18 of 18, dated 07-15-11 and last revised on JUL 27, 2018, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations:

1. See sheets **2** thru **6** for Design Pressure charts for Single and/or Double door w/wo transom, glass, threshold type, lock type, hinges type and head, sill and jambs anchors. Lower Design Pressure shall apply to the entire assembly.
2. The Single Door w/ Transom is limited to Max. Design Pressure $DP = \pm 90 \text{ PSF}$ & Saddle threshold $= \pm 80 \text{ PSF}$.
3. Only Single Door w/ High Threshold option item **E-2B** (part # ES-9026) is rated for external Positive **+120 PSF**, Water Resistant Rating, all other thresholds are not rated for water Resistant Ratings (See sheets **8** & **9**).
4. When doors are mulled to ES 8000 or 9500 series separate Storefront System NOA(s), lower design pressure of doors w/wo transom or storefront shall control for entire system, AHJ to review tributary end load and installations.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series 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 **revises & renews** NOA # **15-0826.32** and consists of this page 1 and evidence pages E-1, E-2 & E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No. 18-0314.07
Expiration Date: December 24, 2023
Approval Date: August 09, 2018

8/21/18

Mr. Glass Doors & Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous files

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files # below)
2. Drawing No. **W11-40 Rev B**, titled "Series MG-500 Alum. Outswing French Door (L.M.I.)", sheets 1 through 11 of 11, including sheet 3.1, dated 07/15/11 and last revised on 03/16/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under files #15-0602.09 / #12-0306.07 / #10-0301.03)

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94(Not performed)
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of an Alum. Outswing Entrance Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5554**, dated 05/10/08, signed and sealed by Carlos S. Rionda, P.E.

2. Test reports on: 1) Uniform Static Air Pressure Test,
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings of an Alum. Outswing Entrance Door, prepared by FTL, Inc., Test Report No. **FTL-5556**, dtd 04/27/08, signed and sealed by Carlos S. Rionda, P.E.

3. Additional Test reports along with marked-up Dwg. of a single (X) aluminum outswing door per TAS 201, 202 (Full) and 203-94, issued by Fenestration Testing lab, Inc., Test Report No. **FTL-5992**, dtd 09/09/09, reissued on 2/2/11 signed & sealed by Marlin D. Brinson, P. E.

C. CALCULATIONS (Submitted under file #15-0602.09)

1. Anchor verification calculations & structural analysis, complying with FBC-2014, prepared by Al-Farooq Corp., dated 05/29/15 and last revised on 03/14/16, signed & sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02 -04 & -09.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11**, issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass ® interlayer", expiring on 01/14/17.
2. Notice of Acceptance No. **14-0916.10**, issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite PVB, Interlayer", expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (5th edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 08/06/16, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0314.07

Expiration Date: December 24, 2023
Approval Date: August 09, 2018

Mr. Glass Doors & Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. This NOA **revises** NOA # **13-0820.12**, expiring 12/24/18.
2. Private labeling agreement between Mr. Glass Doors & windows Inc. and ES Windows, LLC document in conformance of RER guideline dated 07/19/2011.
3. Distribution agreement ES Windows, LLC and ES Windows-Energia Solar, S.A., dated 10/20/10, signed by Ms. Carla G. Torrente and Andres Chamorro respectively.
4. Test proposals # **07-4070** & **09-0165**, approved by BCCO.

2. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **W11-40 Rev D**, titled "Series MG-500 Alum Outswing French Door (L.M.I.)", sheets 1 through 18 of 18, dated 07-15-11 and last revised on JUL 27, 2018, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Revised) (Submitted under file #18-0319.09)

1. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94(Not performed)
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of X & XX Alum. Outswing Entrance Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7242**, dated 05/03/13, signed and sealed by Idalmis Ortega, P.E.

(This test report revised and issued by Fenestration testing on 05/21/18, signed and sealed by Idalmis Ortega, P.E.)

2. Test reports on: on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94(Not performed)
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

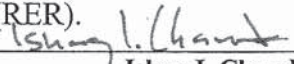
Along with marked-up drawings of X and XX Alum. Outswing Entrance Door, prepared by Blackwater Testing Inc., Test Report No. **BT-ESW-17-020**, dated 06/14/178, signed and sealed by Constantin Bortes, P.E.

C. CALCULATIONS (Submitted under file #18-0319.09)

1. Anchor verification calculations & structural analysis, complying with FBC 2017 (6th edition), prepared by Al-Farooq Corp., dated 03/16/18 and last revised on 07/27/18, signed & sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0314.07
Expiration Date: December 24, 2023
Approval Date: August 09, 2018

Mr. Glass Doors & Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

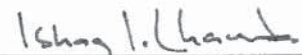
1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the “**Sentry Glass ® Interlayer**”, expiring on 07/4/23.
2. Notice of Acceptance No. **16-117.01** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc. for the “Kuraray Trofossil Ultra clear and color PVB Interlayer (Former Kuraray **Butacite ® PVB interlayer**)”, expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (6th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 03/12/18, signed and sealed by Javad Ahmad, P.E.
2. Private labeling agreement between Mr. Glass Doors & Windows Inc. and ES Windows, LLC, dated 08/01/18, signed by Ulises Senaris (President) and Ms. Evelyn Daes (MGR) respectively.
3. Distribution agreement between ES Windows, LLC (distributor) and Energia Solar, S.A, (manufacturer, dated 08/01/18, signed by MS. Carla Garcia (MGR) and Ms. Evelyn Deas (MGR) respectively.

G. OTHER

1. This NOA **revises & renews** NOA #**15-0826.32**, expiring on DEC 24, 2024.
2. Test proposal dated 12/20/12 approved by Jaime D. Gascon, P.E.
3. Reference ES windows, LLC file # 18-0319.09



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0314.07

Expiration Date: December 24, 2023
Approval Date: August 09, 2018

SERIES MG500

ALUMINUM OUTSWING ENTRANCE DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITH OR WITHOUT TRANSOMS.

SEE SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF DOUBLE DOORS WITH OR WITHOUT TRANSOMS.

SEE SHEET 5 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITHOUT TRANSOMS WITH ADDITIONAL OPTIONS.

SEE SHEET 6 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITHOUT TRANSOMS WITH HIGHER LOAD CAPACITY.

DOORS CAN ALSO BE USED WITH MR. GLASS SERIES MG5000 OR SERIES 9500 STOREFRONT SYSTEMS UNDER SEPARATE NOA. DOOR MULLION ATTACHMENT, END LOAD AND CAPACITY TO BE REVIEWED BY BUILDING OFFICIAL.

DOUBLE DOORS WITH STANDARD, SADDLE AND HIGH THRESHOLD AND SINGLE DOORS WITH STANDARD AND SADDLE THRESHOLD ARE NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. SINGLE DOORS USING ES-9026 (HIGH THRESHOLD OPTION) ARE APPROVED FOR WATER INFILTRATION RESISTANCE. SEE SHEETS 8 & 18 FOR DETAILS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS. BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BLOC. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.250" (STD. THRESHOLD)

D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.625" (SADDLE THRESHOLD)

D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.750" (HIGH THRESHOLD)

D.L.O. WIDTH (DOOR) = FRAME WIDTH - 14.0625"

D.L.O. HEIGHT (TRANSOM) = FRAME HEIGHT - 5.125"

D.L.O. WIDTH (TRANSOM) = FRAME WIDTH - 7"

LEAF HEIGHT = FRAME HEIGHT - 2.938" (STD. THRESHOLD)

LEAF HEIGHT = FRAME HEIGHT - 2.563" (SADDLE THRESHOLD)

LEAF HEIGHT = FRAME HEIGHT - 2.438" (HIGH THRESHOLD)

LEAF WIDTH = FRAME WIDTH - 5.188"

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 18-0314.07
Expiration Date: DEC 21, 2023
By: [Signature]
Professional Engineer



AL-FAROOG CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL: (305) 264-8100 FAX: (305) 262-6978 COMP-ANL\W11-40MG		MR. GLASS DOORS & WINDOWS INC. 8120 N.W. 84 STREET MEDLEY, FL. 33166 TEL: (305) 470-8284 FAX: (305) 470-8285		SERIES-MG500 ALUM. OUTSWING FRENCH DOOR (L.M.I.)	
date: 07-15-11		scale: 1/2"=1'-0"		drawing no. W11-40	
sheet 1 of 18		revisions:		no. description	
A 03.29.12		UPDATED TO 2010 FBC			
B 03.16.16		UPDATED TO 2014 FBC			
C 04.04.18		GENERAL REV.			
D 07.27.18		REV. PER PER COMMENTS			

DRAFT DOCUMENT FOR COMMISSION REVIEW

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
3960 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
FAX: (305) 262-6978
TEL: (305) 264-8100

COMP-ANL\W11-40MG

MR. GLASS DOORS & WINDOWS INC.
8120 N.W. 84 STREET
MEDLEY, FL 33166
FAX: (305) 470-8284
TEL: (305) 470-8285

SERIES-M5500 ALUM. OUTSWING FRENCH DOOR (L.M.I.)

NO. 07-15-11
DATE: 07-15-11
BY: DESCRIPTION
REV. 03.28.12
REV. 03.16.16
REV. 04.04.18
REV. 07.27.18

ck. by: TARIQ
dr. by: TARIQ
scale: 1/2"=1'-0"
drawing no. W11-40
sheet 2 of 18

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 18-02/407
Inspection Date 12/24/23
18-02-11-01-1
Miami-Dade Product Council

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

SINGLE DOORS WITH OR WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE

- 1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D1.
- 2- SELECT THRESHOLD TYPE TO BE USED.
WATER RATED HIGH THRESHOLD ITEM #E2B (ES-9026) +120.0 PSF
NON WATER RATED (STD. THRESHOLD +90.0 PSF)
NON WATER RATED (SADDLE THRESHOLD +80.0 PSF)
- 3- FOR JAMB ANCHORS TYPE/SHIMS OBTAIN
LOAD CAPACITIES FROM TABLE #J1.
- 4- TRANSOMS FOR SINGLE DOORS ARE LIMITED TO ±90.0 PSF *
SEE ELEVATION AT RIGHT FOR TRANSOM END ANCHORS.
THE LOWEST VALUES FROM STEPS 1, 2, 3
AND 4 WILL GOVERN.

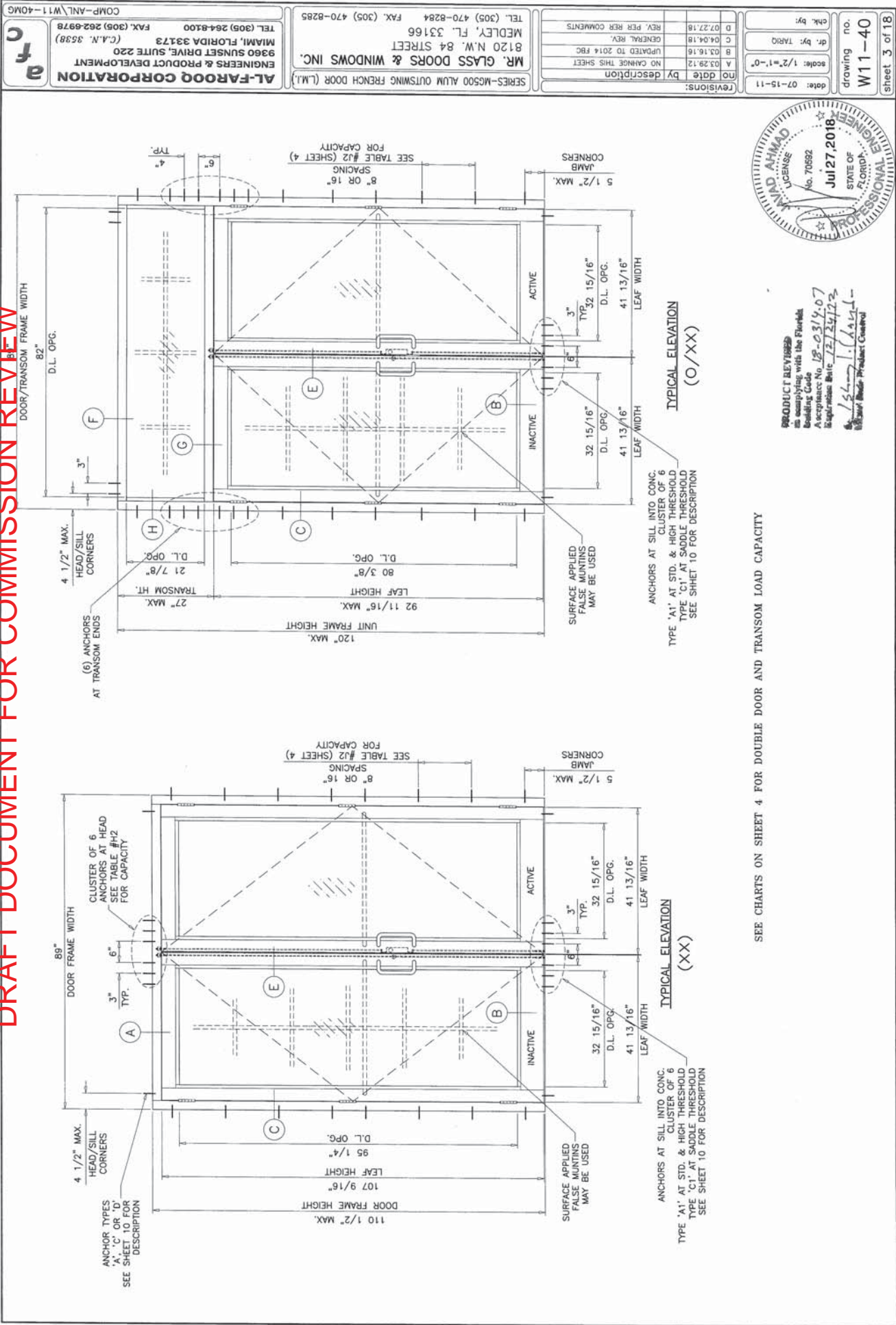
TABLE #D1	DOORS LOAD CAPACITY - PSF											
	SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM* (O/X)						HINGES					
	GLASS		LOCKS		DOORS		GLASS		LOCKS		DOORS	
DOOR DIMS.	TYPE 'A'	TYPE 'B'/'C'	OPTION #1	OPTION #2	OPTION #3	OPTION #4	TYPE 'A'	TYPE 'B'/'C'	OPTION #1	OPTION #2	OPTION #3	OPTION #4
FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
47"	98-1/2"	80.0	120.0	80.0	90.0	120.0	80.0	120.0	80.0	90.0	120.0	120.0
47"	110-1/2"	80.0	120.0	80.0	90.0	120.0	80.0	120.0	80.0	90.0	120.0	120.0

SINGLE DOORS WITH SADDLE THRESHOLD LIMITED TO +80.0, -80.0 PSF
SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #J1	JAMB ANCHORS LOAD CAPACITY - PSF (NOT APPLICABLE AT TRANSOM ENDS SEE NOTE 4)											
	SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM (O/X)				3/8" SHIM SPACE				1/2" SHIM SPACE			
	SPACING AT 16" O.C.		SPACING AT 8" O.C.		SPACING AT 16" O.C.		SPACING AT 8" O.C.		SPACING AT 16" O.C.		SPACING AT 8" O.C.	
DOOR DIMS.	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR
FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
40"	110-1/2"	112.5	120.0	120.0	120.0	120.0	90.5	117.4	120.0	120.0	70.2	92.7
47"	110-1/2"	95.7	111.0	120.0	120.0	120.0	77.0	100.0	120.0	120.0	59.7	78.9

SEE SHEET 10 FOR ANCHOR DESCRIPTION

DRAFT DOCUMENT FOR COMMISSION REVIEW



SEE CHARTS ON SHEET 4 FOR DOUBLE DOOR AND TRANSOM LOAD CAPACITY

DRAFT DOCUMENT FOR COMMISSION REVIEW

DOUBLE DOORS WITH OR WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE

- 1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D2.
- 2- SELECT THRESHOLD TYPE TO BE USED.
NON WATER RATED FOR DOUBLE DOORS
(STANDARD, SADDLE OR HIGH THRESHOLD)
- 3- FOR JAMB ANCHORS TYPE/SHIMS/SPACE OBTAIN
LOAD CAPACITIES FROM TABLE #D2.
SEE ELEVATION ON SHEET 3 FOR TRANSOM END ANCHORS.
(MIN. 6 ANCHORS REQD. IN ALL CASES)
- 4- FOR HEAD ANCHORS, TYPE/SHIMS/SPACE OBTAIN
LOAD CAPACITIES FROM TABLE #D2.
THE LOWEST VALUES FROM STEPS 1, 2, 3
AND 4 WILL GOVERN.

TABLE #D2	DOORS LOAD CAPACITY - PSF									
	DOUBLE DOOR WITHOUT TRANSOM (XX) OR WITH TRANSOM (O/XX)					HINGES				
	GLASS					LOCKS				
DOOR DIMS.	TYPE 'A'	TYPE 'B'/'C'	OPTION #1	OPTION #2	OPTION #3	OPTION #1	OPTION #2	OPTION #3	OPTION #1	OPTION #2
FRAME	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)
WIDTH	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)
75"	98-1/2"	80.0	90.0	80.0	90.0	90.0	80.0	90.0	80.0	90.0
89"	110-1/2"	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	90.0

DOUBLE DOORS WITH SADDLE THRESHOLD LIMITED TO +80.0, -80.0 PSF

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #D2	JAMB ANCHORS LOAD CAPACITY - PSF (NOT APPLICABLE AT TRANSOM ENDS SEE NOTE 3)															
	DOUBLE DOORS WITHOUT TRANSOM (XX) OR WITH TRANSOM (O/XX)								SHIM SPACE							
	1/4" SHIM SPACE								3/8" SHIM SPACE							
DOOR DIMS.	SPACING AT 16" O.C. AT 8" O.C. AT 16" O.C. AT 8" O.C. AT 16" O.C. AT 8" O.C.								ANCHOR ANCHOR ANCHOR ANCHOR ANCHOR ANCHOR ANCHOR ANCHOR							
	'A' 'C' 'D' 'A' 'C' 'D' 'A' 'C'								'A' 'C' 'A' 'C' 'A' 'C' 'A' 'C'							
	EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+)								EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+)							
FRAME	INT. (-) INT. (-) INT. (-) INT. (-) INT. (-) INT. (-) INT. (-) INT. (-)								INT. (-) INT. (-) INT. (-) INT. (-) INT. (-) INT. (-) INT. (-) INT. (-)							
HEIGHT	90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0								90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0							
75"	110-1/2"	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
89"	110-1/2"	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION

TABLE #D2	HEAD ANCHORS LOAD CAPACITY - PSF											
	DOUBLE DOOR WITHOUT TRANSOM (XX) OR WITH TRANSOM (O/XX)						SHIM SPACE					
	1/4" SHIM SPACE						3/8" SHIM SPACE					
DOOR DIMS.	ANCHOR ANCHOR ANCHOR ANCHOR ANCHOR ANCHOR						ANCHOR ANCHOR ANCHOR ANCHOR ANCHOR ANCHOR					
	TYPE 'A' TYPE 'B' TYPE 'C' TYPE 'A' TYPE 'B' TYPE 'C'						TYPE 'A' TYPE 'B' TYPE 'C' TYPE 'A' TYPE 'B' TYPE 'C'					
	EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+)						EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+) EXT. (+)					
FRAME	INT. (-) INT. (-) INT. (-) INT. (-) INT. (-) INT. (-)						INT. (-) INT. (-) INT. (-) INT. (-) INT. (-) INT. (-)					
HEIGHT	90.0 90.0 90.0 90.0 90.0 90.0						90.0 90.0 90.0 90.0 90.0 90.0					
75"	98-1/2"	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
89"	110-1/2"	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
75"	98-1/2"	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
89"	110-1/2"	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION

SILL ANCHORS DESIGN LOAD CAPACITY ALL SIZES = ± 90.0 PSF (STD. & HIGH THRESHOLDS)
± 80.0 PSF (SADDLE THRESHOLD)

NOTE: GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 18-0314-07
Expiration Date 12/24/23
No. 70582
Professional Engineer
State of Florida
JUL 27 2018
AL-FAROOQ CORPORATION



AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) FAX: (305) 262-6978 TEL: (305) 264-8100	MR. GLASS DOORS & WINDOWS INC. 8120 N.W. 84 STREET MEDLEY, FL 33166 TEL: (305) 470-8284 FAX: (305) 470-8285	SERIES-MG500 ALUM OUTSWING FRENCH DOOR (L.M.I.)
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revisions:	no. date by description
A	03.29.12 NO CHANGE THIS SHEET
B	03.16.16 UPDATED TO 2014 FBC
C	04.04.18 GENERAL REV.
D	07.27.18 REV. PER PER COMMENTS

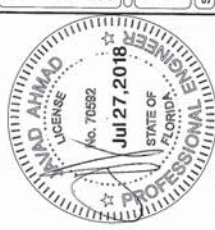
date:	07-15-11
scale:	1/2"=1'-0"
dr. by:	TABO
chk. by:	
drawing no.	W11-40
sheet	4 of 18

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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(C.A.N. 3838)
FAX: (305) 262-6978
TEL: (305) 264-8100
COMP-ANL\W11-40MG

MR. GLASS DOORS & WINDOWS INC.
8120 N.W. 84 STREET
MEDLEY, FL. 33166
FAX: (305) 470-8284
TEL: (305) 470-8285

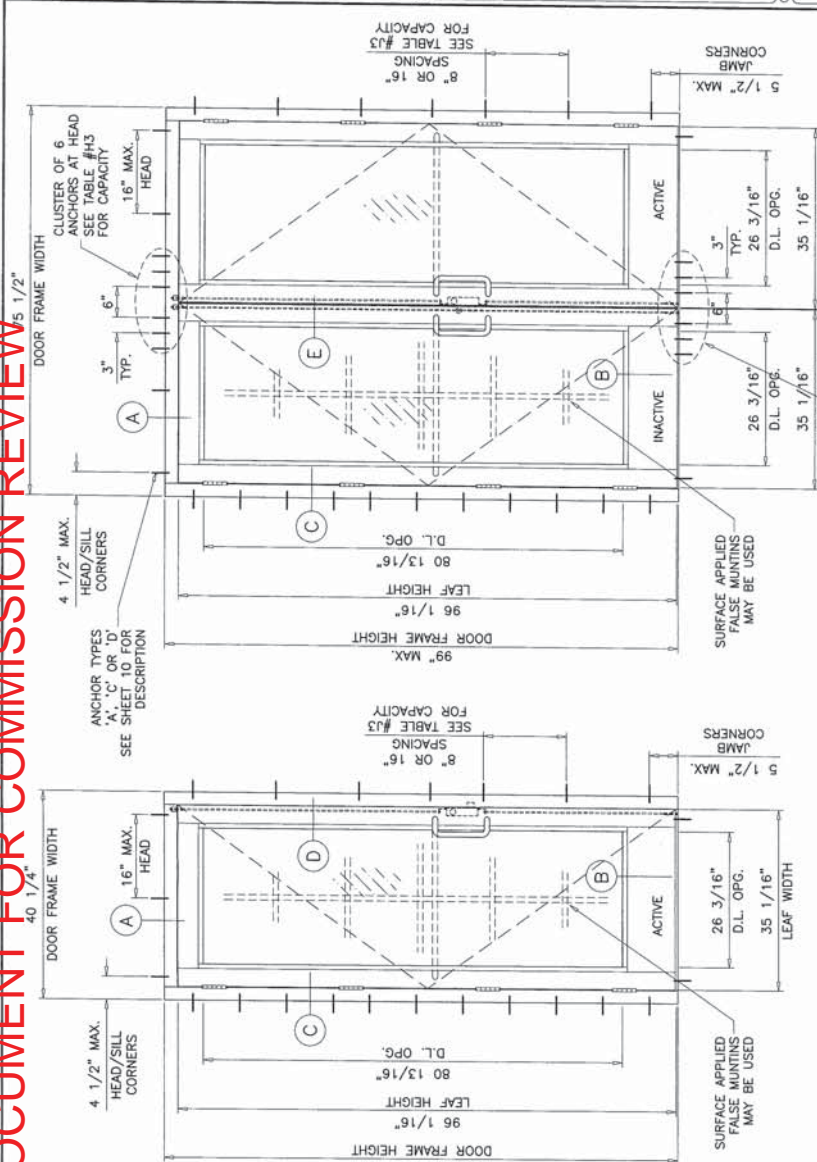
SERIES-MG500 ALUM OUTSWING FRENCH DOOR (L.M.I.)
REV. PER PER COMMENTS
D 07.27.18
C 04.04.18
B 03.16.18
A 03.29.12
NO CHANGE THIS SHEET
UPDATED TO 2014 FBC
GENERAL REV.
date by description

revisions:
date by description
scale: 1/2"=1'-0"
drawing no. W11-40
sheet 5 of 18



PRODUCT REVIEWER
in compliance with the Florida
Building Code
Acceptance No. 18-0314-07
Expiration Date 12/24/23
W. Ahmad
Professional Engineer
State of Florida
Building Product Control

NOTE: CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



ANCHORS AT SILL INTO CONC.
CLUSTER OF 6
TYPE 'A1' AT STD. THRESHOLD
SEE SHEET 10 FOR DESCRIPTION

ANCHORS AT SILL INTO CONC.
CLUSTER OF 6
TYPE 'A1' AT STD. THRESHOLD
SEE SHEET 10 FOR DESCRIPTION

SINGLE OR DOUBLE DOORS WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE
1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D3.
2- THESE DOORS APPROVED WITH STD. THRESHOLD ONLY.
3- FOR JAMB ANCHORS TYPE/SHIMS OBTAIN
LOAD CAPACITIES FROM TABLE #J3.
4- FOR HEAD ANCHORS, TYPE/SHIMS OBTAIN
LOAD CAPACITIES FROM TABLE #H3.
THE LOWEST VALUES FROM STEPS 1, 3 AND 4
WILL GOVERN.

DOORS LOAD CAPACITY - PSF			
SINGLE(X) OR DOUBLE(X) DOORS WITHOUT TRANSOM			
TABLE #D3	SINGLE DOOR(X) DIMS.	GLASS TYPE 'A1' LOCKS OPTION #3	
		EXT. (+) INT. (-)	
40-1/4"	99"	75-1/2"	105.3

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

JAMB ANCHORS LOAD CAPACITY - PSF									
SINGLE(X) DOUBLE(X) DOORS WITHOUT TRANSOM									
TABLE #J3		SINGLE DOOR(X) DIMS.		1/4" SHIM SPACE		3/8" SHIM SPACE		1/2" SHIM SPACE	
				SPACING AT 16" O.C.		AT 16" O.C.		AT 16" O.C.	
		DOUBLE DOOR(X) DIMS.		ANCHOR 'A', 'C' & 'D'		ANCHOR 'A', 'C' & 'C'		ANCHOR 'A', 'C' & 'C'	
FRAME WIDTH 40-1/4"	FRAME HEIGHT 99"	FRAME WIDTH 75-1/2"	FRAME HEIGHT 99"	EXT.(+) INT.(-)		EXT.(+) INT.(-)		EXT.(+) INT.(-)	
				EXT.(+) INT.(-)		EXT.(+) INT.(-)		EXT.(+) INT.(-)	
				105.3	89.9	105.3	105.3	99.8	92.1
								105.3	

SEE SHEET 10 FOR ANCHOR DESCRIPTION

TABLE #H3	HEAD ANCHORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOM(X)									
	1/4" SHIM SPACE 3/8" SHIM SPACE/2" SHIM SPACE									
	DOOR DIMS.		ANCHOR TYPE 'A'		ANCHOR TYPE 'A'		ANCHOR TYPE 'A'		ANCHOR TYPE 'C'	
			EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)		
FRAME WIDTH 75-1/2"	FRAME HEIGHT 99"		105.3	105.3	105.3	105.3	84	105.3		

SEE SHEET 10 FOR ANCHOR DESCRIPTION

SILL ANCHORS DESIGN LOAD CAPACITY ALL SIZES = ± 105.3 PSF (STD. THRESHOLD)

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
FAX: (305) 262-6978
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MR. GLASS DOORS & WINDOWS INC.
8120 N.W. 84 STREET
MEDLEY, FL. 33166
FAX: (305) 470-8284
TEL: (305) 470-8285

SERIES-MG500 ALUM. OUTSWING FRENCH DOOR (L.M.I.)

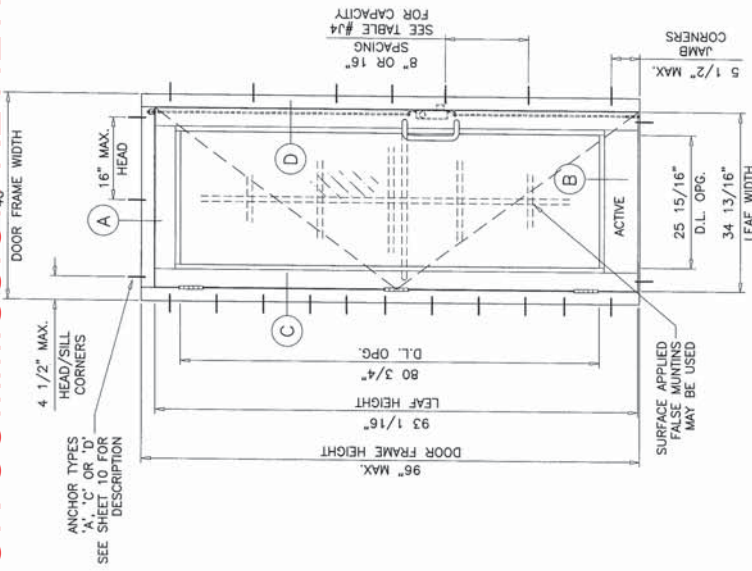
revisions:
A 03/29/12 NO CHANGE THIS SHEET
B 03/16/16 UPDATED TO 2014 FBC
C 04/04/18 GENERAL REV.
D 07/27/18 REV. PER PER COMMENTS

date by description

chk. by:
dr. by: TRMD
scale: 1/2"=1'-0"
date: 07-15-11
drawing no. **W11-40**
sheet 6 of 18

COMP-ANL\W11-40MG

AL-FAROQ CORPORATION



TYPICAL ELEVATION (X)

DOORS WITH SERIES-9500 FRAMES ONLY.

NOTE: CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219



PRODUCT REVIEWED
in compliance with the Florida
Building Code
Signature No. 15-0314-07
Expiration Date 12/24/23
E. J. Lewis
Vice President

SINGLE DOORS WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE

1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D4.

2- THESE DOORS APPROVED WITH STD. THRESHOLD ONLY.

3- FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #J4.

THE LOWEST VALUES FROM STEPS 1 AND 3
WILL GOVERN.

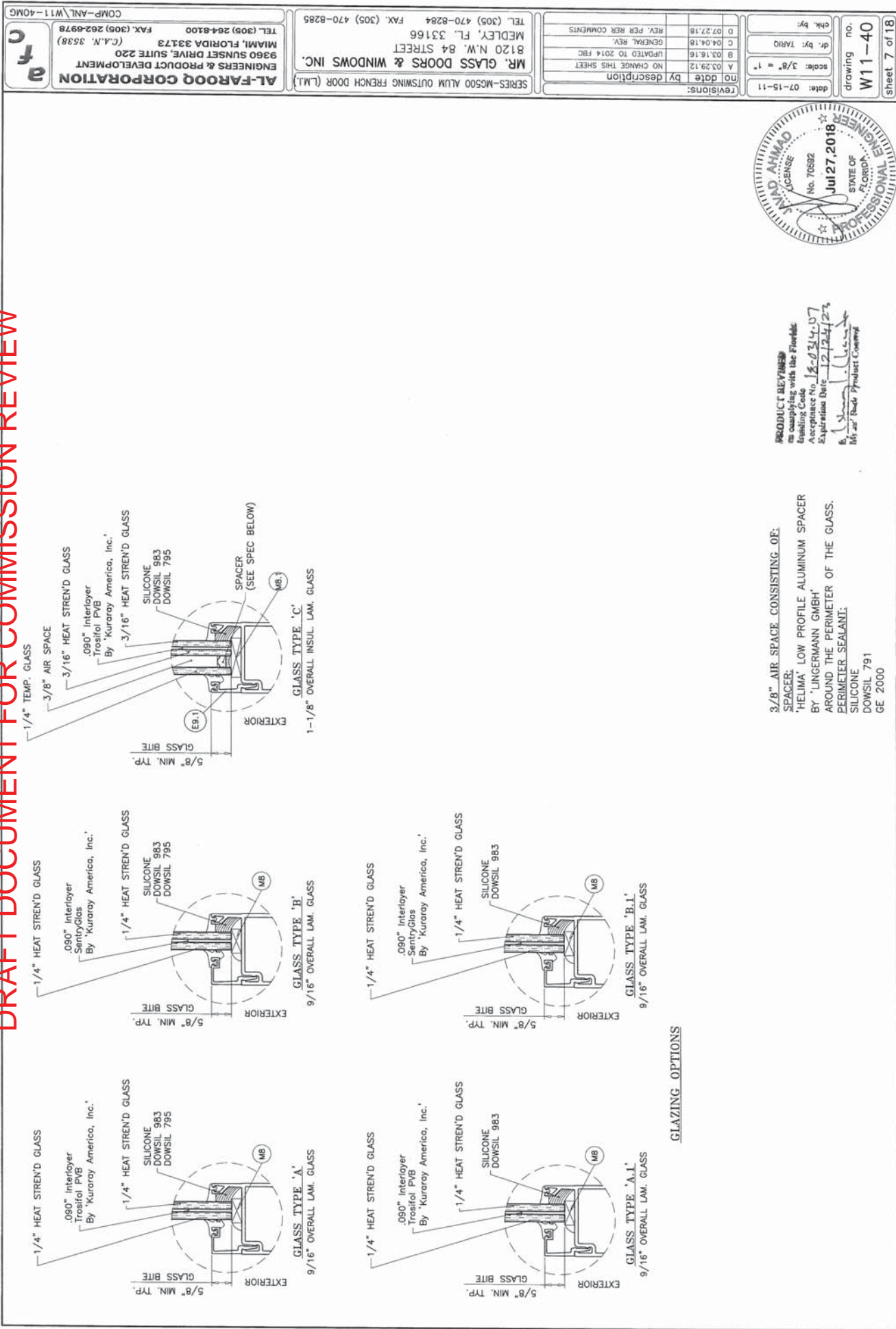
TABLE #D4	SINGLE DOOR(X)	DOORS LOAD CAPACITY - PSF			
		GLASS		HINGES	
DIMS.		TYPE "B.1"	OPTION #3	OPTION #2	
FRAME HEIGHT		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
40"	96"	120.0	130.0	120.0	130.0

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

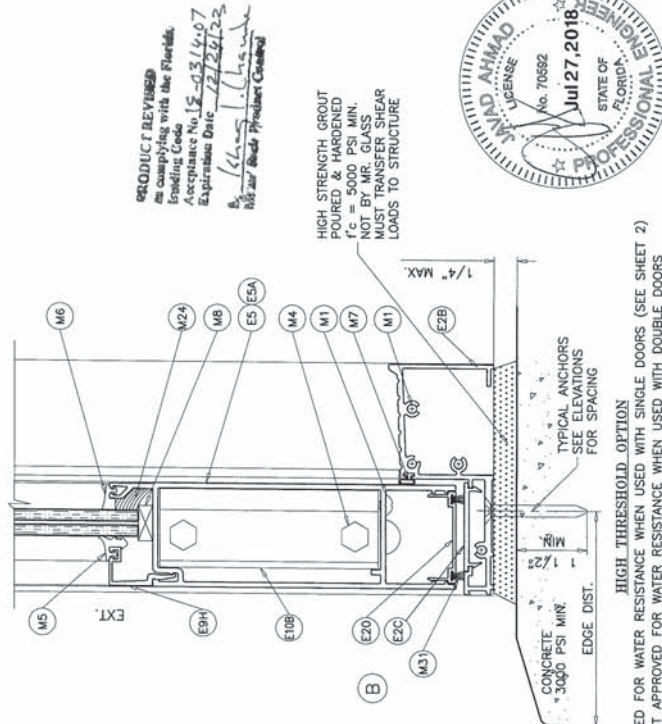
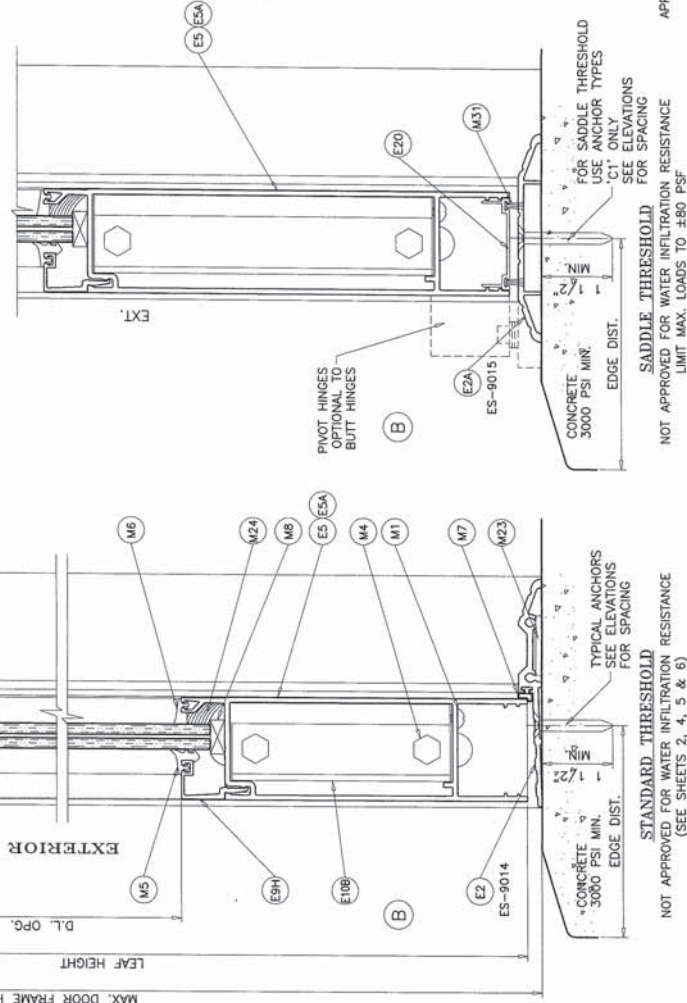
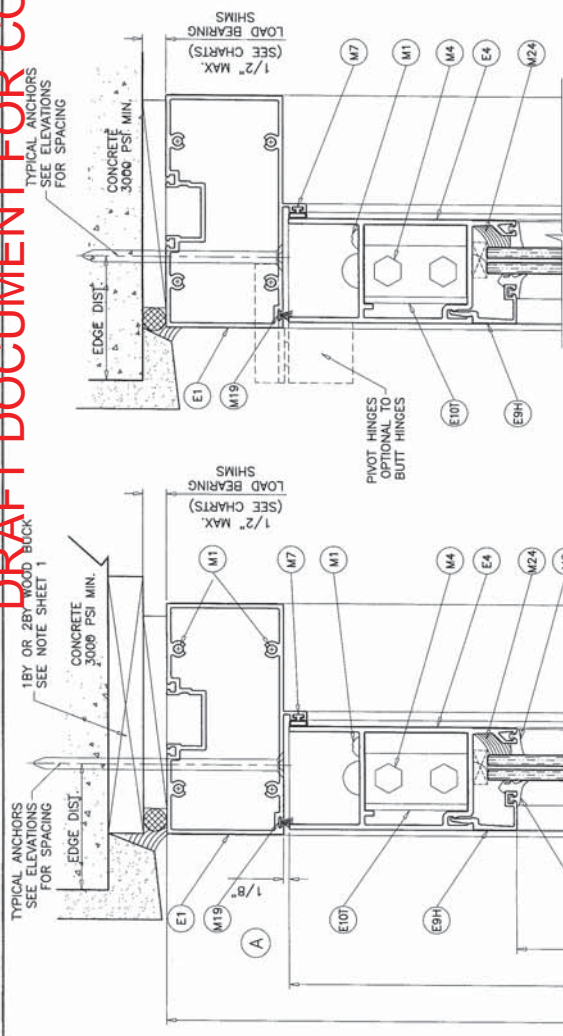
TABLE #J4	SINGLE DOOR(X)	JAMB ANCHORS LOAD CAPACITY - PSF					
		1/4" SHIM SPACE		3/8" SHIM SPACE		1/2" SHIM SPACE	
DIMS.		AT 16" O.C.	SPACING AT 8" O.C.	ANCHOR	AT 16" O.C.	ANCHOR	AT 8" O.C.
FRAME HEIGHT		ANCHOR/ANCHOR	ANCHOR	ANCHOR	ANCHOR/ANCHOR	ANCHOR/ANCHOR	ANCHOR
40"	96"	112.5	130.0	130.0	90.5	117.5	130.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION

SILL ANCHORS DESIGN LOAD CAPACITY = ± 130.0 PSF (STD. THRESHOLD)



DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-MG5000 FRAMES.



PRODUCT REVISED
complying with the Florida
Swelling Code

Acceptance No. 18-0314.07
Expiration Date 12/26/23

Klaus F. Linder
Sr. Product Engineer

HIGH STRENGTH GROUT
POURED & HARDENED
f'c = 5000 PSI MIN.
NOT BY MR. GLASS
MUST TRANSFER SHEAR
LOADS TO STRUCTURE

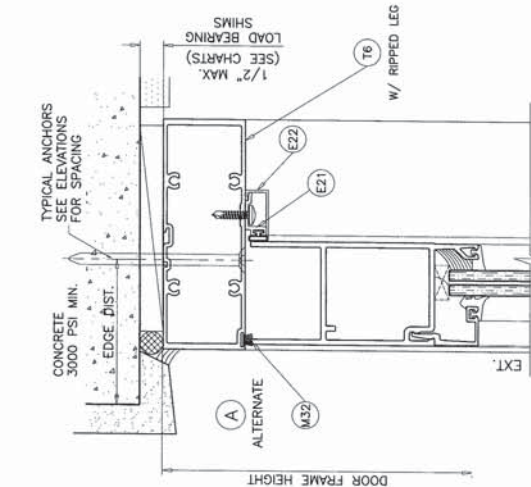


date: 07-15-11	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
no date	B 03.29.12	B 03.16.16	D 07.27.18
revisions:	NO CHANGE THIS SHEET	UPDATED TO 2014 P&C	GENERAL REV.
by description			REV. PER RER COMMENTS

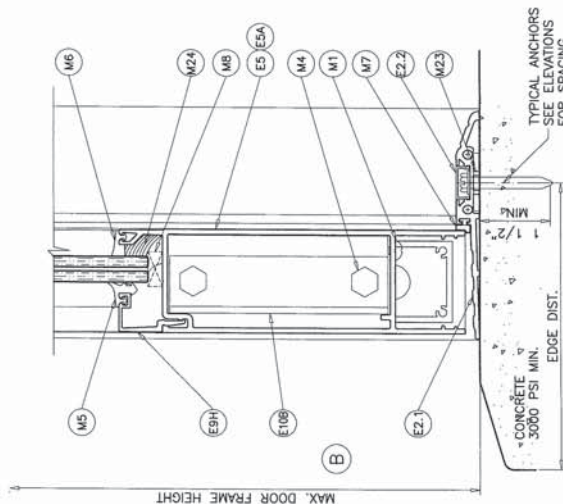
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
FAX. (305) 262-6978
(C.A.N. 3538)

MR. GLASS DOORS & WINDOWS INC.
8120 N.W. 84 STREET
MEDLEY, FL. 33166
TEL. (305) 470-8284 FAX. (305) 470-8285

DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-MG5000 FRAMES.



DOOR HEAD
SERIES-MG5000 FRAME OPTION




ALT. STANDARD THRESHOLD
NOT APPROVED FOR WATER INFILTRATION RESISTANCE

PRODUCT REV7095D
as complying with the Florida
Bonding Code
Acceptance No. 15-0314-07
Expiration Date 12/24/23
[Signature]
Multi-Trade Products Council



date: 07-15-11	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
revisions:			
no	date	by	description
A	03.29.12		NO CHANGE THIS SHEET
B	06.16.16		UPDATED TO 2014 FBC
C	04.18		GENERAL REV
D	07.18		REV. PER RER COMMENTS

<p>  ALFA AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) FAX: (305) 262-6978 COMP-ANL W11-40MG </p>	<p> 8120 N.W. 84 STREET MEDLEY, FL. 33166 TEL (305) 470-8284 FAX: (305) 470-8285 SHIRES-M5500 ALUM OUTSWING FRENCH DOOR (L.M.) MR. GLASS DOORS & WINDOWS INC. </p>
--	---

revisions:	no	date	by	description
A	03/29/12			NO CHANGE THIS SHEET
B	03/16/16			UPDATED TO 2014 FBC
C	04/04/18			GENERAL REV.
D	07/27/18			REV. PER RFR COMMENTS

DRAFT DOCUMENT FOR COMMISSION REVIEW

1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY MR. GLASS
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'- 1/4" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)
DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'C'- 5/16" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)
DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'D'- 1/4" TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)

(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

TYPE 'A1'- 1/4" X 1-3/4" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE (FOR STD. AND HIGH THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

ANCHOR EDGE DISTANCES

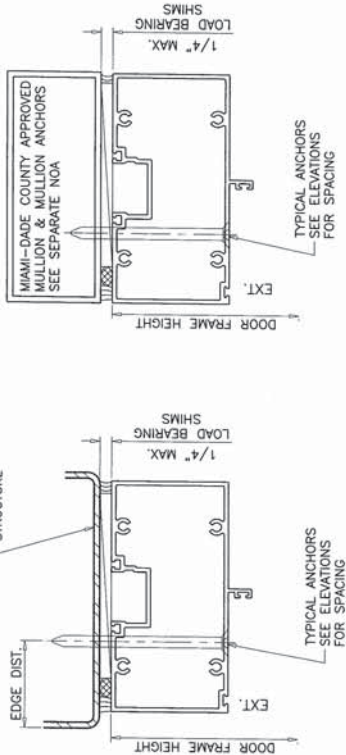
INTO CONCRETE = 2-1/2" MIN.

TYPE 'C1'- 5/16" X 2" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE (FOR SADDLE THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

ANCHOR EDGE DISTANCES

INTO CONCRETE = 3-1/8" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 18-0314-07
Expiration Date 12/24/23
1/1/2018
Miami-Dade Product Council



AL-FAROOG CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

(C.A.N. 3538)

FAX: (305) 262-6978

TEL: (305) 264-8100

MR. GLASS DOORS & WINDOWS INC.

8120 N.W. 84 STREET

MEDLEY, FL. 33166

TEL: (305) 470-8284

FAX: (305) 470-8285

COMP-ANL W11-40MG

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c

no date by description

no change this sheet

updated to 2014 fbc

general rev

rev. per hcr comments

revisions:

no date by description

no change this sheet

updated to 2014 fbc

general rev

rev. per hcr comments

date: 07-15-11

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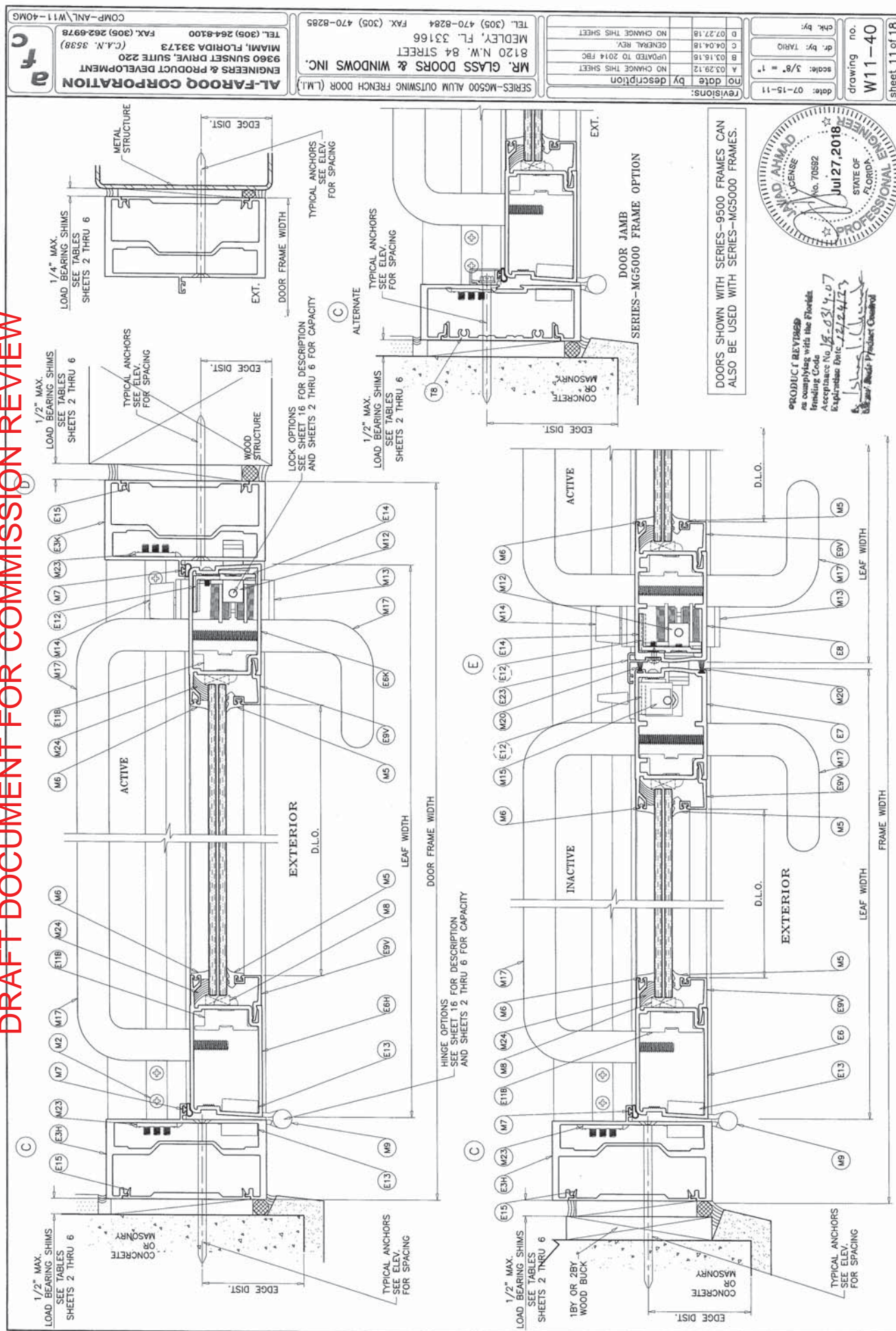
dr. by: TARIQ

chk. by:

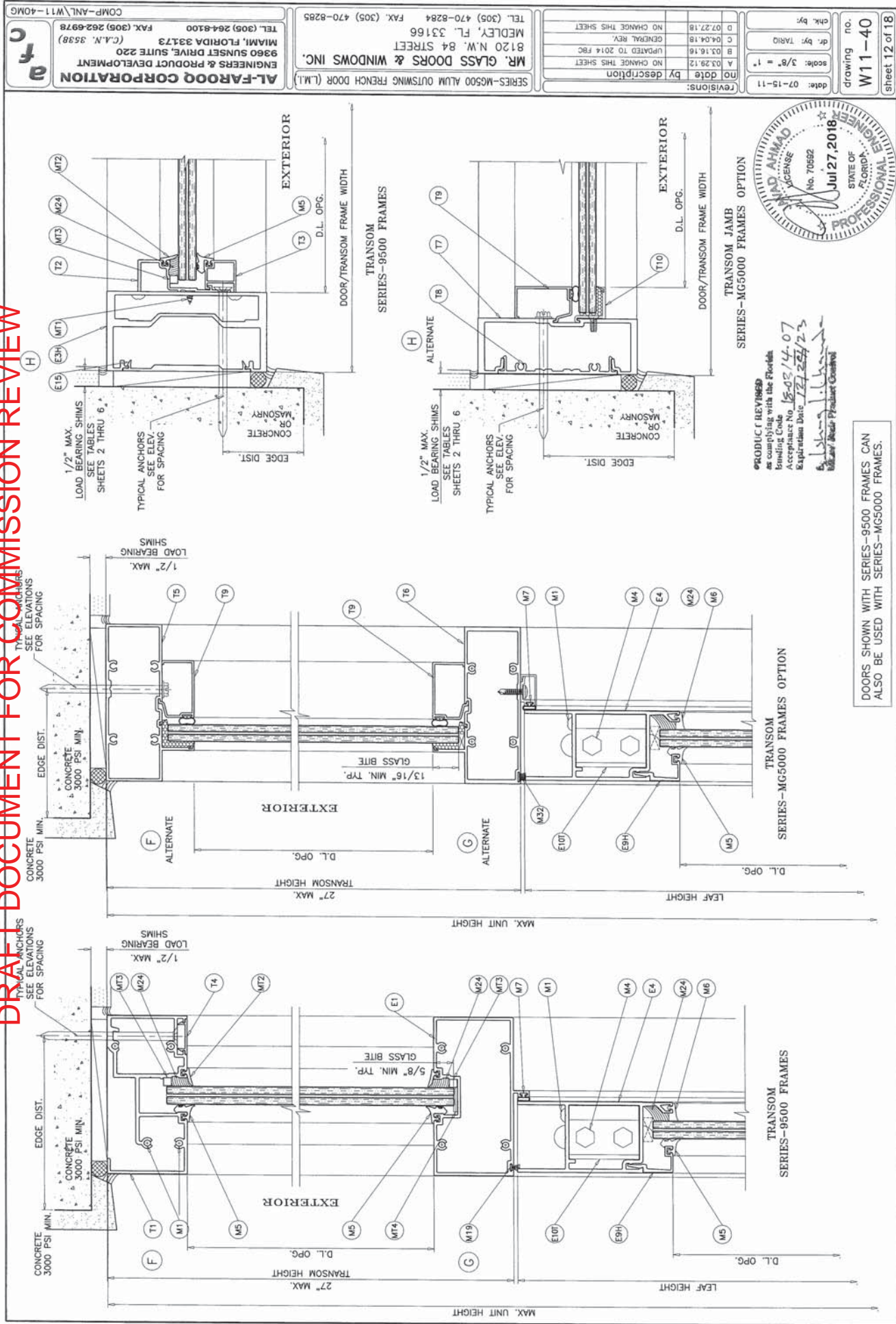
drawing no. W11-40

sheet 10 of 18

DRAFT DOCUMENT FOR COMMISSION REVIEW



DRAFT DOCUMENT FOR COMMISSION REVIEW



AL-FAROQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

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COMP-ANL\W11-40MG

COMP-ANL\W11-40MG

revisions:

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B 03.16.16 UPDATED TO 2014 FBC

C 04.04.18 GENERAL REV.

D 07.27.18 NO CHANGE THIS SHEET

chk. by: TARIQ

dr. by: TARIQ

scale: 3/8" = 1'

date: 07-15-11

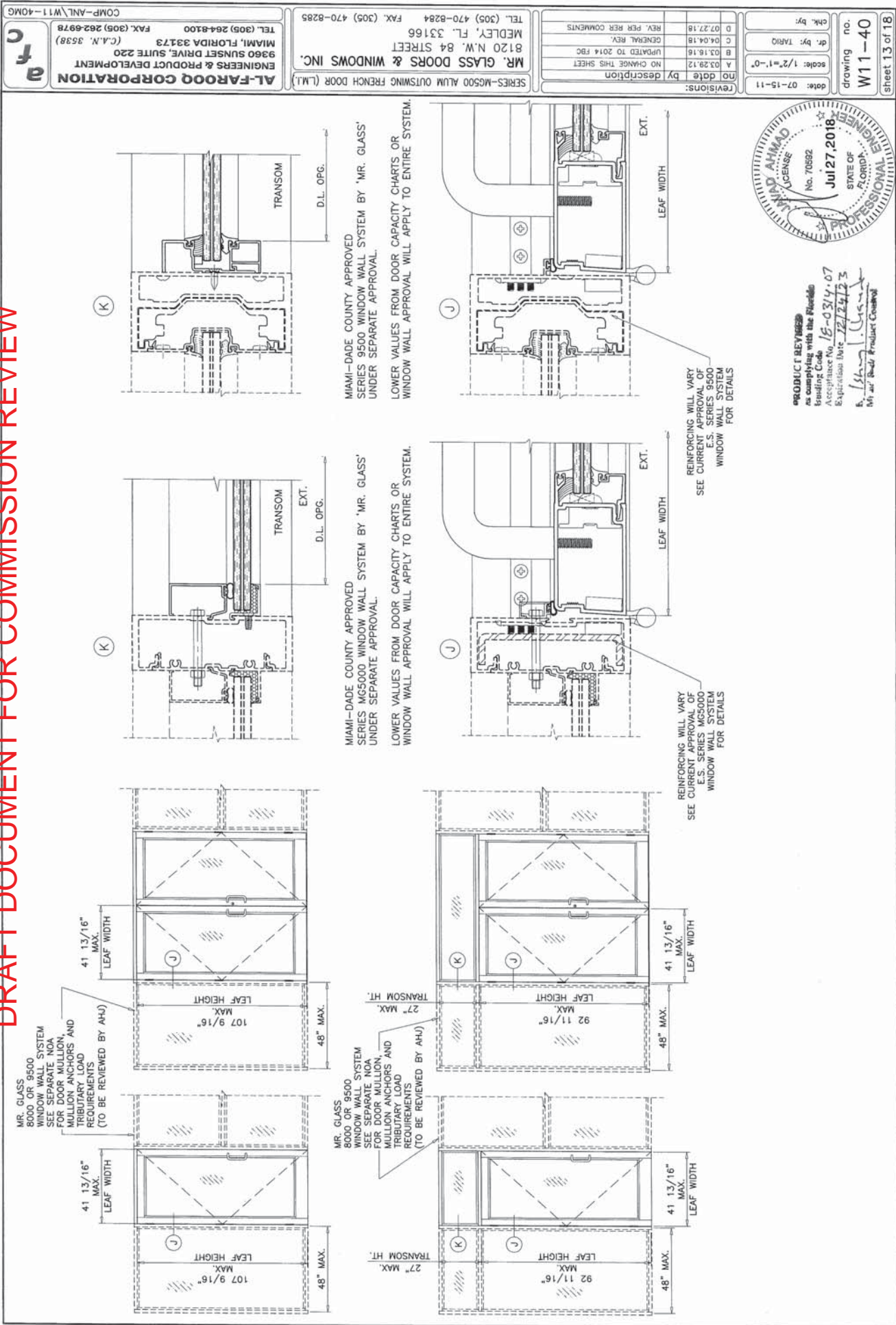
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sheet 12 of 18

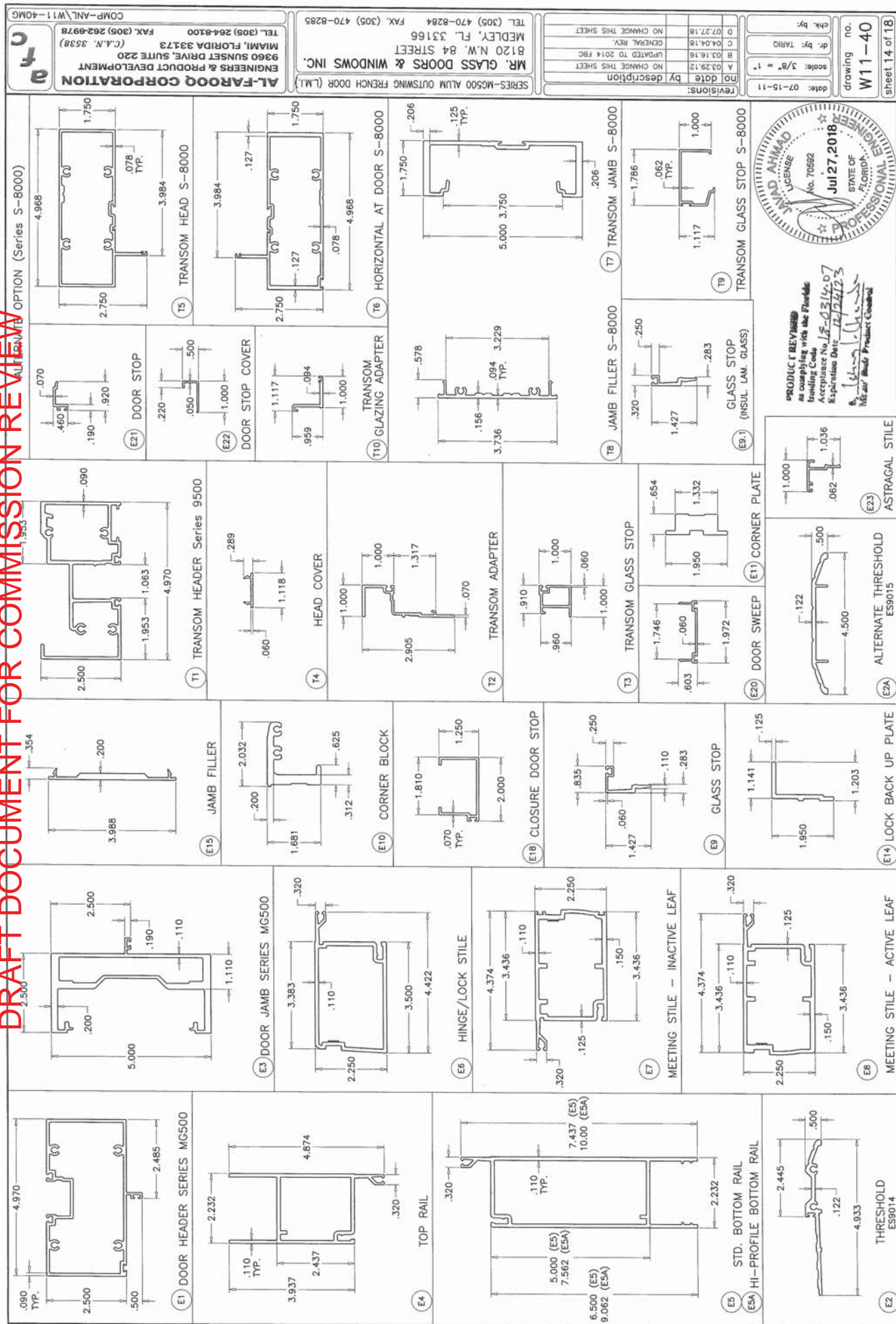


PRODUCT REVIEWED
as complying with the Florida
Building Code No. 18-03/14-07
Approval No. 121221/23
Expiration Date 12/21/23
MAD AHMAD
Professional Engineer

DRAFT DOCUMENT FOR COMMISSION REVIEW



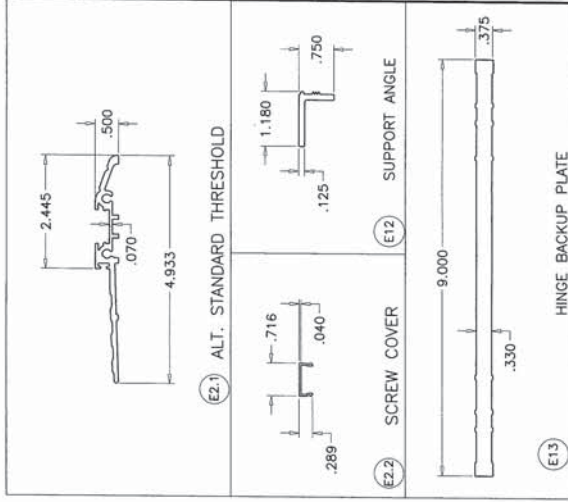
DRAFT DOCUMENT FOR COMMISSION REVIEW



DRAFT DOCUMENT FOR COMMISSION REVIEW

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL
E1	ES-9012	1	DOOR HEADER	6061-T6
E2	ES-9014	1	STANDARD THRESHOLD	6063-T6
E2.1	ES-9000-30	1	ALT. STANDARD THRESHOLD	6063-T6
E2.2	ES-9011	1	SCREW COVER	6063-T6
E2A	ES-9015	1	SADDLE THRESHOLD	6063-T6
E2B	ES-9026	1	HIGH THRESHOLD	6063-T6
E2C	ES-9027	1	THRESHOLD COVER	6063-T6
E3H	ES-9013	2	DOOR JAMB - HINGE	6063-T6
E4	ES-9001	2	TOP RAIL	6063-T6
E5	ES-9002	2	STD. BOTTOM RAIL	6063-T6
E5A	ES-9000-031	2	HI-PROFILE BOTTOM RAIL	6063-T6
E6H	ES-9003	2	HINGE/LOCK STILE	6063-T6
E7	ES-9006	1	MEETING STILE - INACTIVE LEAF	6063-T6
E8	ES-9007	1	MEETING STILE - ACTIVE LEAF	6063-T6
E8H	ES-9004	4	HORIZONTAL GLASS STOP	6063-T6
E9V	ES-9004	4	VERTICAL GLASS STOP	6063-T6
E9.1	ES-9029	4	GLASS STOP (INSUL. LAM. GLASS)	6063-T6
E10T	ES-9008	4	CORNER BLOCK - TOP	6063-T6
E10B	ES-9008	4	CORNER BLOCK - BOTTOM	6063-T6
E11T	ES-9009	4	CORNER PLATE - TOP	6063-T6
E11B	ES-9009	4	CORNER PLATE - BOTTOM	6063-T6
E12	ES-9010	4	SUPPORT ANGLE	6063-T6
E13	ES-9011	AS ROD.	HINGE BACKUP PLATE REINFORCEMENT	6063-T6
E13A	12-24 X 1/2"	4/ PLATE	HINGE BACKUP PLATE FASTENERS	ST. STEEL
E14	ES-9020	1	LOCK BACKUP PLATE REINFORCEMENT	6063-T6
E14A	8-32 X 1/2"	3/ PLATE	LOCK PLATE FASTENERS	ST. STEEL
E15	ES-9016	AS ROD.	JAMB FILLER	6063-T6
E16	ES-9017	AS ROD.	REINFORCEMENT	6063-T6
E17	ES-9021	1/ CLOSER	CLOSER SUPPORT CLIPS (PAIR)	6063-T6
E18	ES-9022	1	CLOSER DOOR STOP	6063-T6
E19	ES-9023	1/ CLOSER	CLOSER COVER PLATE	6063-T6
E20	ES-9005	-	DOOR SWEEP	-
E21	ES-9051	-	DOOR STOP	-
E22	ES-9052	-	DOOR STOP COVER	-
E23	ES-9060	-	ASTRAGAL STILE	6063-T6
M1	-	28	#12 X 1" P.H. ST/ST SMS	-
M2	-	18	#12 - 24 X 1" P.H. ST/ST MS	-
M3	-	16	#8 - 32 X 1/2" P.H. ST/ST MS	-
M4	-	16	3/8" - 16 X 1" HEX. BOLT	-
M5	ES-9000-001	AS ROD.	WEDGE GASKET	EPDM
M6	ES-9000-002	AS ROD.	SPACER GASKET	EPDM
M7	ES-9000-003	AS ROD.	BULB VINYL BASE-POLYPROPYLENE BULB-TYPE	EPDM
M8	ES-9000-B01	AS RECD.	SETTING BLOCKS (LAM. GLASS) AT 1/4 POINTS	EPDM
M8.1	ES-9000-B02A	AS ROD.	SETTING BLOCKS (INSUL. LAM. GLASS) AT 1/4 POINTS	EPDM
M9	-	AS ROD.	HINGE 4 1/2" X 4"	-
M9A	-	AS ROD.	OFFSET PIVOT HINGE	ALUMINUM
M12	-	1	3 POINT LOCK	-
M13	-	1	KEY CYLINDER	-
M14	-	1	THUMBTURN	-
M15	-	1	2 POINT LOCK	-
M16	-	1/ LEAF	DOOR CLOSURE	-
M17	-	2	PUSH - PULL	-
M19	W13273NK	AS ROD.	PILE W/STRIPPING - HEADER	WOOL
M20	W2451NK	AS ROD.	PILE - MTG STILES	WOOL
M22	-	1/ CLOSER	CHANNEL SPACER 5/8" X 1-7/8"	-
M23	-	2	THRESHOLD CLIP	-
M24	-	AS ROD.	STRUCTURAL SILICONE	-
M25	-	AS ROD.	SILICONE	-
M26	-	2/ CLOSER	1/4 - 20 X 2" HEX. BOLT	-
M27	-	3/ CLOSER	#10 X 1" P.H. ST/ST SMS	-
M28	-	6/ CLOSER	#10 X 1" P.H. ST/ST SMS	-
M29	-	3/ CLOSER	#10 X 1" P.H. ST/ST SMS	-
M30	-	AS ROD.	PILE - DOOR SWEEP	ST. STEEL
M31	W13351NK	AS ROD.	PILE - DOOR SWEEP	WOOL
M32	W13273NK	AS ROD.	PILE - HEADER	WOOL

ITEM	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
T1	ES-9505	-	TRANSOM HEADER Series 9500
T2	ES-9019	-	TRANSOM ADAPTER
T3	ES-9018	-	TRANSOM GLASS STOP
T4	ES-9502	-	HEAD COVER
MT1	-	-	#10 X 1/2" F.H. ST/ST SMS
MT2	-	-	TRIM GASKET
MT3	-	-	INTERIOR SPACER 1/4" X 1/4"
MT4	-	-	SETTING BLOCKS (1/16" X 3/4") AT 1/4 POINTS
T5	ES-8005	-	TRANSOM HEAD S-8000
T6	ES-8013	-	HORIZONTAL AT DOOR S-8000
T7	ES-8012	-	TRANSOM JAMB S-8000
T8	ES-8003	-	JAMB FILLER S-8000
T9	ES-8006	-	TRANSOM GLASS STOP S-8000
T10	ES-8014	-	TRANSOM GLAZING ADAPTER



PROBUCT REVENUES
as complying with the Florida
Building Code
Acceptance No. 18-0314-07
Expiration Date 12/21/23
By: [Signature]
15% per Rule Product Control

Professional Engineer
Ahmad Ahmad
No. 70682
July 27, 2018
STATE OF FLORIDA

date: 07-15-11
scale: 3/8" = 1"
drawing no. W11-40
sheet 15 of 18

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3338)
FAX: (305) 262-6978
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MR. GLASS DOORS & WINDOWS INC.
8120 N.W. 84 STREET
MEDLEY, FL. 33166
TEL: (305) 470-8284 FAX: (305) 470-8285

SERIES-MG500 ALUM OUTSWING FRENCH DOOR (L.M.)

revisions:	by	description
A	02.29.12	NO CHANGE THIS SHEET
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C	04.04.18	GENERAL REV.
D	07.27.18	REV. PER RER COMMENTS

LOCKS: (See Tables On Sheets 2 Thru 6 For Load Capacities)

OPTION #1: LIMIT MAX. LOADS TO ± 80.0 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'JACKSON PANIC SYSTEM' #1285 LOCATED AT 41" FROM SILL AT EACH LEAF.

FASTENED WITH:
(1) #14 X 1" HH SELF DRILLING SCREW AT ONE END AND
(2) #12-24 X 1/2" OH MACHINE SCREWS AT OTHER END

OR

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'ADAMS RITE' LOCATED AT 40" FROM SILL AT EACH LEAF.

FASTENED WITH:
(1) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
(2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END

OPTION #2: LIMIT MAX. LOADS TO $+80.0$, -90.0 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'JACKSON PANIC SYSTEM' #2086 LOCATED AT 41" FROM SILL AT EACH LEAF.

FASTENED WITH:
(1) #14 X 1" HH SELF DRILLING SCREW AT ONE END AND
(2) #12-24 X 1/2" OH MACHINE SCREWS AT OTHER END

OR

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY 'DOR-O-MATIC' LOCATED AT 40" FROM SILL AT EACH LEAF.

FASTENED WITH:
(1) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
(2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END

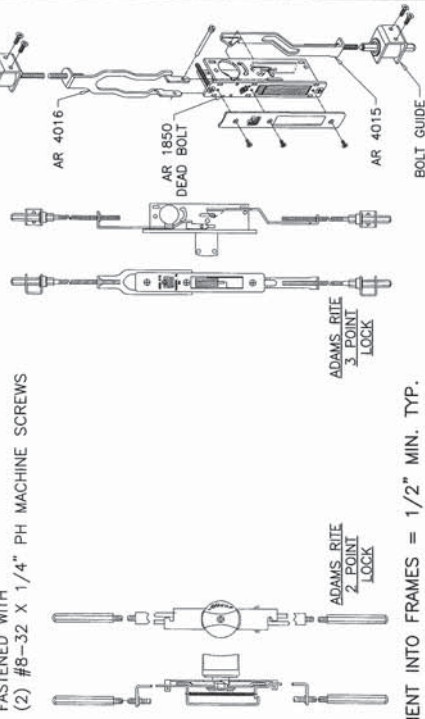
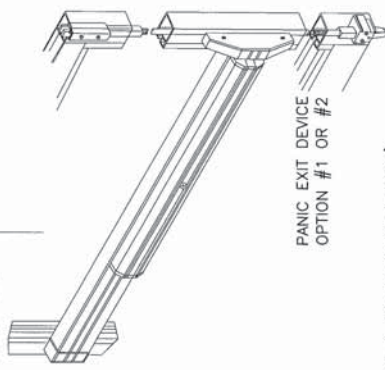
OPTION #3:

ACTIVE LEAF:

KEY OPERATED THREE POINT LOCK SYSTEM 4015/4016 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #12-24 X 1/2" FH MACHINE SCREWS

INACTIVE LEAF:

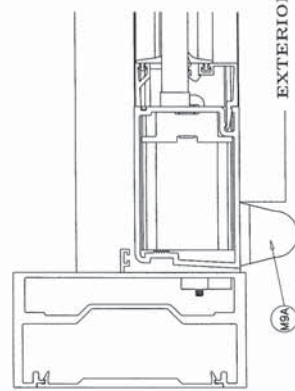
MANUALLY OPERATED TWO POINT LOCK SYSTEM 1880/81 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #8-32 X 1/4" PH MACHINE SCREWS



HINGES: (See Tables On Sheets 2 Thru 6 For Load Capacities)

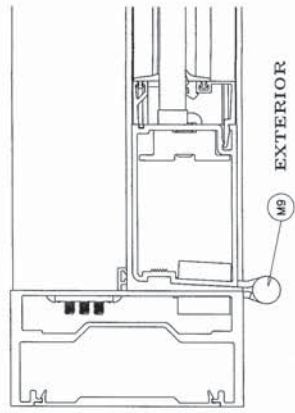
OPTION #1:

OFFSET PIVOT HINGES
ALUMINUM AT TOP AND BOTTOM
FASTENED TO FRAME AND THRESHOLD WITH
#10-24 X 1/2" FH THREAD CUTTING SCREWS
(2) AT THRESHOLD, (2) AT JAMB BOTTOM
(3) AT FRAME HEAD
HEAVY DUTY BRASS OR BRONZE AT MIDSPAN
FASTENED TO FRAME AND LEAF WITH
(4) 1/4-20 X 5/8" MS



OPTION #2:

4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
LOCATED AT
11" FROM TOP & BOTTOM AND AT MIDSPAN
FASTENED TO DOOR FRAME AND LEAF STILE WITH
(4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP



OPTION #2.1:

4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
(4) PER LEAF
(1) AT 9-5/8" FROM TOP TO CL OF HINGE
(1) AT 10-5/16" FROM BOTTOM TO CL OF HINGE
(2) INTERMEDIATE HINGES EQUALLY SPACED FROM
TOP AND BOTTOM HINGE
FASTENED TO DOOR FRAME AND LEAF STILE WITH
(4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP



PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 18-0314-07
Expiration Date 12/24/23
1/1/2019
Bilal Ahmad Product Control

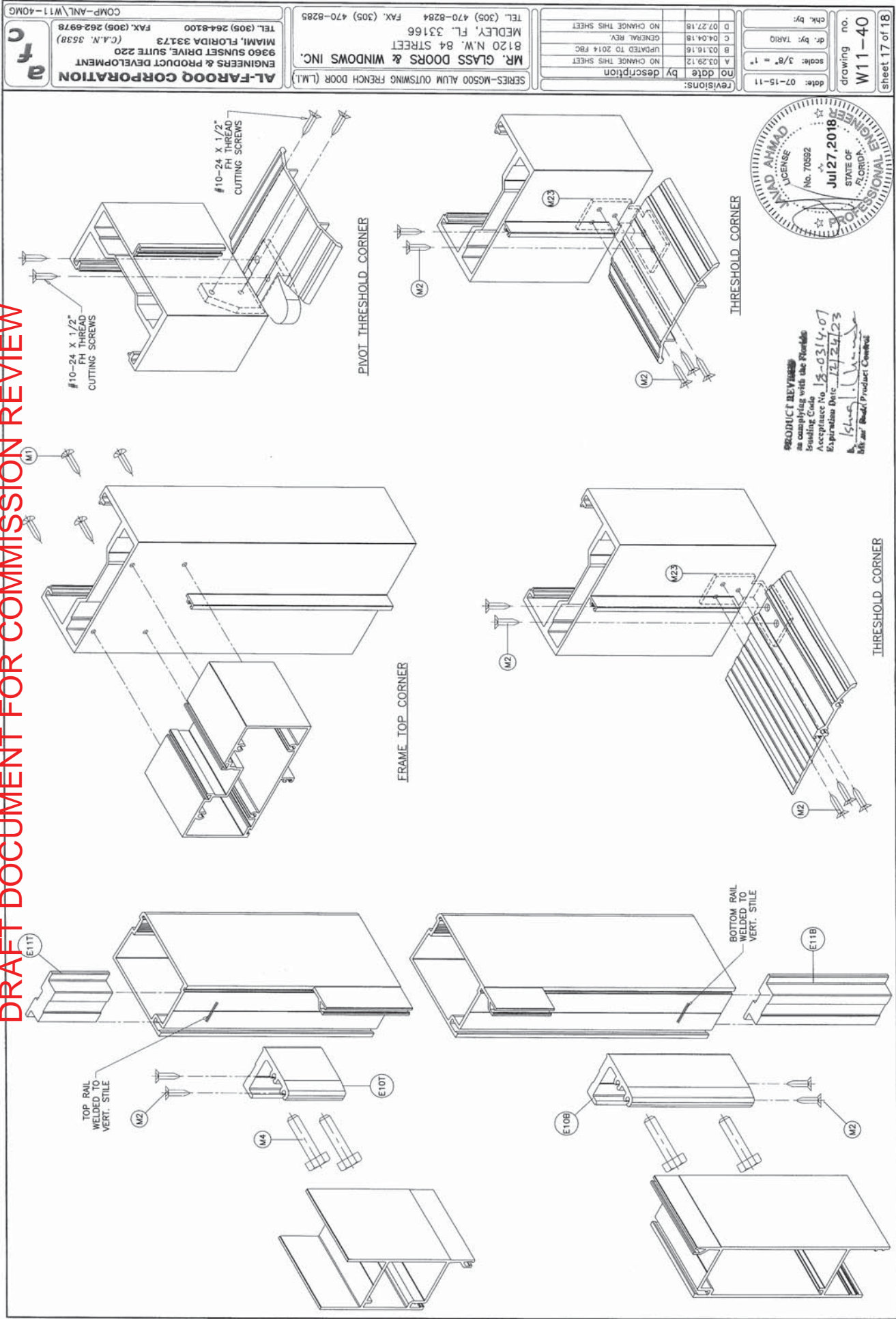
AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\W11-40MG

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8120 N.W. 84 STREET
MEDLEY, FL 33166
TEL: (305) 470-8284
FAX: (305) 470-8285
SERIES-M5050 ALUM. OUTSWING FRENCH DOOR (L.M.L.)

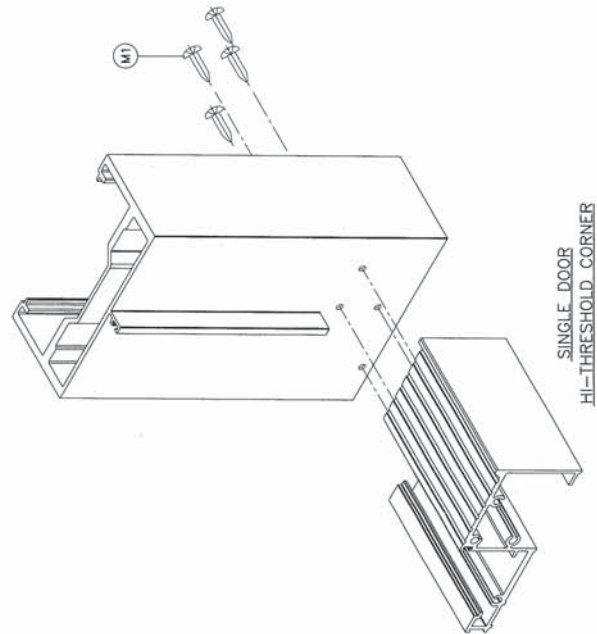
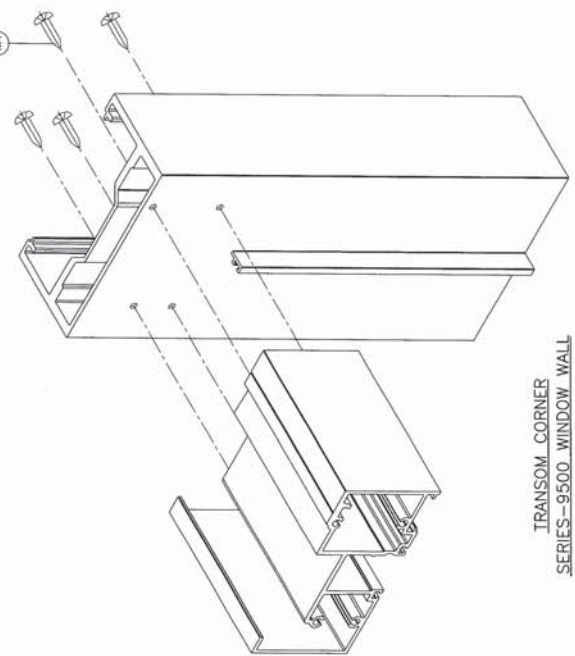
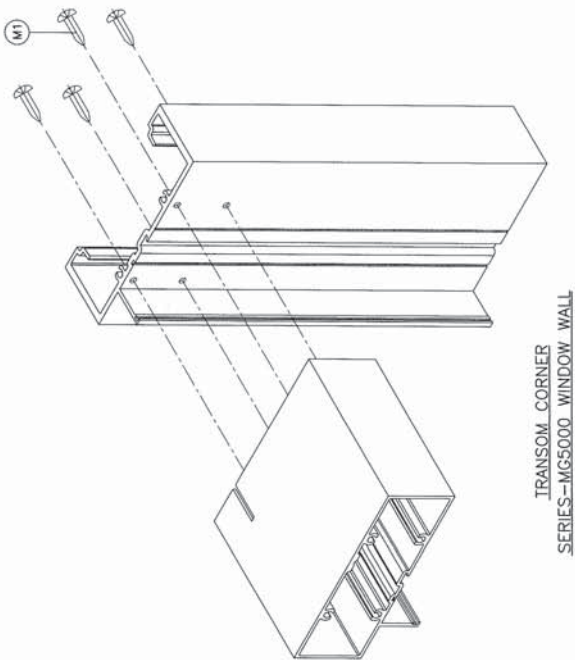
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D 07.27.18 REV. PER RFR COMMENTS

chk. by: dr. by: TARIQ
scale: 3/8" = 1"
date: 07-15-11
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sheet 16 of 18

DRAFT DOCUMENT FOR COMMISSION REVIEW



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sheet 18 of 18

PRODUCT REVIEW
in compliance with the Florida
Lending Code
Acceptance No. 15-0314-07
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B. Lohmeyer
City and State Product Control



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EXHIBIT A

**ELECTRONIC CODE OF FEDERAL REGULATIONS
e-CFR data is current as of October 14, 2016**

[Title 2](#) → [Subtitle A](#) → [Chapter II](#) → Part

200 Title 2: Grants and Agreements

**PART 200—UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES,
AND AUDIT REQUIREMENTS FOR FEDERAL AWARDS**

Procurement Standards

§200.317 Procurements by states.

When procuring property and services under a Federal award, a state must follow the same policies and procedures it uses for procurements from its non-Federal funds. The state will comply with §200.322 Procurement of recovered materials and ensure that every purchase order or other contract includes any clauses required by section §200.326 Contract provisions. All other non-Federal entities, including subrecipients of a state, will follow §§200.318 General procurement standards through 200.326 Contract provisions.

§200.318 General procurement standards.

(a) The non-Federal entity must use its own documented procurement procedures which reflect applicable State, local, and tribal laws and regulations, provided that the procurements conform to applicable Federal law and the standards identified in this part.

(b) Non-Federal entities must maintain oversight to ensure that contractors perform in accordance with the terms, conditions, and specifications of their contracts or purchase orders.

(c)(1) The non-Federal entity must maintain written standards of conduct covering conflicts of interest and governing the actions of its employees engaged in the selection, award and administration of contracts. No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract. The officers, employees, and agents of the non-Federal entity may neither solicit nor accept gratuities, favors, or anything of monetary value from contractors or parties to subcontracts. However, non-Federal entities may set standards for situations in which the financial interest is not substantial or the gift is an unsolicited item of nominal value. The standards of conduct must provide for disciplinary actions to be applied for violations of such standards by officers, employees, or agents of the non-Federal entity.

(2) If the non-Federal entity has a parent, affiliate, or subsidiary organization that is not a state, local

government, or Indian tribe, the non-Federal entity must also maintain written standards of conduct covering organizational conflicts of interest. Organizational conflicts of interest means that because of relationships with a parent company, affiliate, or subsidiary organization, the non-Federal entity is unable or appears to be unable to be impartial in conducting a procurement action involving a related organization.

(d) The non-Federal entity's procedures must avoid acquisition of unnecessary or duplicative items. Consideration should be given to consolidating or breaking out procurements to obtain a more economical purchase. Where appropriate, an analysis will be made of lease versus purchase alternatives, and any other appropriate analysis to determine the most economical approach.

(e) To foster greater economy and efficiency, and in accordance with efforts to promote cost-effective use of shared services across the Federal Government, the non-Federal entity is encouraged to enter into state and local intergovernmental agreements or inter-entity agreements where appropriate for procurement or use of common or shared goods and services.

(f) The non-Federal entity is encouraged to use Federal excess and surplus property in lieu of purchasing new equipment and property whenever such use is feasible and reduces project costs.

(g) The non-Federal entity is encouraged to use value engineering clauses in contracts for construction projects of sufficient size to offer reasonable opportunities for cost reductions. Value engineering is a systematic and creative analysis of each contract item or task to ensure that its essential function is provided at the overall lower cost.

(h) The non-Federal entity must award contracts only to responsible contractors possessing the ability to perform successfully under the terms and conditions of a proposed procurement. Consideration will be given to such matters as contractor integrity, compliance with public policy, record of past performance, and financial and technical resources. See also §200.213 Suspension and debarment.

(i) The non-Federal entity must maintain records sufficient to detail the history of procurement. These records will include, but are not necessarily limited to the following: rationale for the method of procurement, selection of contract type, contractor selection or rejection, and the basis for the contract price.

(j)(1) The non-Federal entity may use a time and materials type contract only after a determination that no other contract is suitable and if the contract includes a ceiling price that the contractor exceeds at its own risk. Time and materials type contract means a contract whose cost to a non-Federal entity is the sum of:

(i) The actual cost of materials; and

(ii) Direct labor hours charged at fixed hourly rates that reflect wages, general and administrative expenses, and profit.

(2) Since this formula generates an open-ended contract price, a time-and-materials contract provides no positive profit incentive to the contractor for cost control or labor efficiency. Therefore, each contract must set a ceiling price that the contractor exceeds at its own risk. Further, the non-Federal entity awarding such a contract must assert a high degree of oversight in order to obtain reasonable assurance that the contractor is using efficient methods and effective cost controls.

(k) The non-Federal entity alone must be responsible, in accordance with good administrative practice and sound business judgment, for the settlement of all contractual and administrative issues arising out of procurements. These issues include, but are not limited to, source evaluation, protests, disputes, and claims. These standards do not relieve the non-Federal entity of any contractual responsibilities under its contracts. The Federal awarding agency will not substitute its judgment for that of the non-Federal entity unless the matter is primarily a Federal concern. Violations of law will be referred to the local, state, or Federal authority having proper jurisdiction.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75885, Dec. 19, 2014; 80 FR 43309, July 22, 2015]

§200.319 Competition.

(a) All procurement transactions must be conducted in a manner providing full and open competition consistent with the standards of this section. In order to ensure objective contractor performance and eliminate unfair competitive advantage, contractors that develop or draft specifications, requirements, statements of work, or invitations for bids or requests for proposals must be excluded from competing for such procurements. Some of the situations considered to be restrictive of competition include but are not limited to:

- (1) Placing unreasonable requirements on firms in order for them to qualify to do business;
- (2) Requiring unnecessary experience and excessive bonding;
- (3) Noncompetitive pricing practices between firms or between affiliated companies;
- (4) Noncompetitive contracts to consultants that are on retainer contracts;
- (5) Organizational conflicts of interest;
- (6) Specifying only a “brand name” product instead of allowing “an equal” product to be offered and describing the performance or other relevant requirements of the procurement; and
- (7) Any arbitrary action in the procurement process.

(b) The non-Federal entity must conduct procurements in a manner that prohibits the use of statutorily or administratively imposed state, local, or tribal geographical preferences in the evaluation of bids or proposals, except in those cases where applicable Federal statutes expressly mandate or encourage geographic preference. Nothing in this section preempts state licensing laws. When contracting for architectural and engineering (A/E) services, geographic location may be a selection criterion provided its application leaves an appropriate number of qualified firms, given the nature and size of the project, to compete for the contract.

(c) The non-Federal entity must have written procedures for procurement transactions. These procedures must ensure that all solicitations:

- (1) Incorporate a clear and accurate description of the technical requirements for the material, product, or service to be procured. Such description must not, in competitive procurements, contain features which unduly restrict competition. The description may include a statement of the qualitative nature of the material, product or service to be procured and, when necessary, must set forth those minimum essential characteristics and standards to which it must conform if it is to satisfy its intended use.

Detailed product specifications should be avoided if at all possible. When it is impractical or uneconomical to make a clear and accurate description of the technical requirements, a “brand name or equivalent” description may be used as a means to define the performance or other salient requirements of procurement. The specific features of the named brand which must be met by offers must be clearly stated; and

(2) Identify all requirements which the offerors must fulfill and all other factors to be used in evaluating bids or proposals.

(d) The non-Federal entity must ensure that all prequalified lists of persons, firms, or products which are used in acquiring goods and services are current and include enough qualified sources to ensure maximum open and free competition. Also, the non-Federal entity must not preclude potential bidders from qualifying during the solicitation period.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75885, Dec. 19, 2014]

§200.320 Methods of procurement to be followed.

The non-Federal entity must use one of the following methods of procurement.

(a) Procurement by micro-purchases. Procurement by micro-purchase is the acquisition of supplies or services, the aggregate dollar amount of which does not exceed the micro-purchase threshold (§200.67 Micro-purchase). To the extent practicable, the non-Federal entity must distribute micro-purchases equitably among qualified suppliers. Micro-purchases may be awarded without soliciting competitive quotations if the non-Federal entity considers the price to be reasonable.

(b) Procurement by small purchase procedures. Small purchase procedures are those relatively simple and informal procurement methods for securing services, supplies, or other property that do not cost more than the Simplified Acquisition Threshold. If small purchase procedures are used, price or rate quotations must be obtained from an adequate number of qualified sources.

(c) Procurement by sealed bids (formal advertising). Bids are publicly solicited and a firm fixed price contract (lump sum or unit price) is awarded to the responsible bidder whose bid, conforming with all the material terms and conditions of the invitation for bids, is the lowest in price. The sealed bid method is the preferred method for procuring construction, if the conditions in paragraph (c)(1) of this section apply.

(1) In order for sealed bidding to be feasible, the following conditions should be present:

(i) A complete, adequate, and realistic specification or purchase description is available;

(ii) Two or more responsible bidders are willing and able to compete effectively for the business; and

(iii) The procurement lends itself to a firm fixed price contract and the selection of the successful bidder can be made principally on the basis of price.

(2) If sealed bids are used, the following requirements apply:

(i) Bids must be solicited from an adequate number of known suppliers, providing them sufficient response time prior to the date set for opening the bids, for local, and tribal governments, the invitation for bids must be publicly advertised;

(ii) The invitation for bids, which will include any specifications and pertinent attachments, must define the items or services in order for the bidder to properly respond;

(iii) All bids will be opened at the time and place prescribed in the invitation for bids, and for local and tribal governments, the bids must be opened publicly;

(iv) A firm fixed price contract award will be made in writing to the lowest responsive and responsible bidder. Where specified in bidding documents, factors such as discounts, transportation cost, and life cycle costs must be considered in determining which bid is lowest. Payment discounts will only be used to determine the low bid when prior experience indicates that such discounts are usually taken advantage of; and

(v) Any or all bids may be rejected if there is a sound documented reason.

(d) Procurement by competitive proposals. The technique of competitive proposals is normally conducted with more than one source submitting an offer, and either a fixed price or cost-reimbursement type contract is awarded. It is generally used when conditions are not appropriate for the use of sealed bids. If this method is used, the following requirements apply:

(1) Requests for proposals must be publicized and identify all evaluation factors and their relative importance. Any response to publicized requests for proposals must be considered to the maximum extent practical;

(2) Proposals must be solicited from an adequate number of qualified sources;

(3) The non-Federal entity must have a written method for conducting technical evaluations of the proposals received and for selecting recipients;

(4) Contracts must be awarded to the responsible firm whose proposal is most advantageous to the program, with price and other factors considered; and

(5) The non-Federal entity may use competitive proposal procedures for qualifications-based procurement of architectural/engineering (A/E) professional services whereby competitors' qualifications are evaluated and the most qualified competitor is selected, subject to negotiation of fair and reasonable compensation. The method, where price is not used as a selection factor, can only be used in procurement of A/E professional services. It cannot be used to purchase other types of services though A/E firms are a potential source to perform the proposed effort.

(e) [Reserved]

(f) Procurement by noncompetitive proposals. Procurement by noncompetitive proposals is procurement through solicitation of a proposal from only one source and may be used only when one or more of the following circumstances apply:

(1) The item is available only from a single source;

(2) The public exigency or emergency for the requirement will not permit a delay resulting

from competitive solicitation;

(3) The Federal awarding agency or pass-through entity expressly authorizes noncompetitive proposals in response to a written request from the non-Federal entity; or

(4) After solicitation of a number of sources, competition is determined inadequate.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75885, Dec. 19, 2014; 80 FR 54409, Sept. 10, 2015]

§200.321 Contracting with small and minority businesses, women's business enterprises, and labor surplus area firms.

(a) The non-Federal entity must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

(b) Affirmative steps must include:

(1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

(2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;

(3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

(4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;

(5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and

(6) Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (1) through (5) of this section.

§200.322 Procurement of recovered materials.

A non-Federal entity that is a state agency or agency of a political subdivision of a state and its contractors must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75885, Dec. 19, 2014]

§200.323 Contract cost and price.

(a) The non-Federal entity must perform a cost or price analysis in connection with every procurement action in excess of the Simplified Acquisition Threshold including contract modifications. The method and degree of analysis is dependent on the facts surrounding the particular procurement situation, but as a starting point, the non-Federal entity must make independent estimates before receiving bids or proposals.

(b) The non-Federal entity must negotiate profit as a separate element of the price for each contract in which there is no price competition and in all cases where cost analysis is performed. To establish a fair and reasonable profit, consideration must be given to the complexity of the work to be performed, the risk borne by the contractor, the contractor's investment, the amount of subcontracting, the quality of its record of past performance, and industry profit rates in the surrounding geographical area for similar work.

(c) Costs or prices based on estimated costs for contracts under the Federal award are allowable only to the extent that costs incurred or cost estimates included in negotiated prices would be allowable for the non-Federal entity under Subpart E—Cost Principles of this part. The non-Federal entity may reference its own cost principles that comply with the Federal cost principles.

(d) The cost plus a percentage of cost and percentage of construction cost methods of contracting must not be used.

§200.324 Federal awarding agency or pass-through entity review.

(a) The non-Federal entity must make available, upon request of the Federal awarding agency or pass-through entity, technical specifications on proposed procurements where the Federal awarding agency or pass-through entity believes such review is needed to ensure that the item or service specified is the one being proposed for acquisition. This review generally will take place prior to the time the specification is incorporated into a solicitation document. However, if the non-Federal entity desires to have the review accomplished after a solicitation has been developed, the Federal awarding agency or pass-through entity may still review the specifications, with such review usually limited to the technical aspects of the proposed purchase.

(b) The non-Federal entity must make available upon request, for the Federal awarding agency or pass-through entity pre-procurement review, procurement documents, such as requests for proposals or invitations for bids, or independent cost estimates, when:

(1) The non-Federal entity's procurement procedures or operation fails to comply with the procurement standards in this part;

(2) The procurement is expected to exceed the Simplified Acquisition Threshold and is to be awarded without competition or only one bid or offer is received in response to a solicitation;

(3) The procurement, which is expected to exceed the Simplified Acquisition Threshold, specifies a "brand name" product;

(4) The proposed contract is more than the Simplified Acquisition Threshold and is to be awarded to other than the apparent low bidder under a sealed bid procurement; or

(5) A proposed contract modification changes the scope of a contract or increases the contract amount by more than the Simplified Acquisition Threshold.

(c) The non-Federal entity is exempt from the pre-procurement review in paragraph (b) of this section if the Federal awarding agency or pass-through entity determines that its procurement systems comply with the standards of this part.

(1) The non-Federal entity may request that its procurement system be reviewed by the Federal awarding agency or pass-through entity to determine whether its system meets these standards in order for its system to be certified. Generally, these reviews must occur where there is continuous high-dollar funding, and third party contracts are awarded on a regular basis;

(2) The non-Federal entity may self-certify its procurement system. Such self-certification must not limit the Federal awarding agency's right to survey the system. Under a self-certification procedure, the Federal awarding agency may rely on written assurances from the non-Federal entity that it is complying with these standards. The non-Federal entity must cite specific policies, procedures, regulations, or standards as being in compliance with these requirements and have its system available for review.

§200.325 Bonding requirements.

For construction or facility improvement contracts or subcontracts exceeding the Simplified Acquisition Threshold, the Federal awarding agency or pass-through entity may accept the bonding policy and requirements of the non-Federal entity provided that the Federal awarding agency or pass-through entity has made a determination that the Federal interest is adequately protected. If such a determination has not been made, the minimum requirements must be as follows:

(a) A bid guarantee from each bidder equivalent to five percent of the bid price. The “bid guarantee” must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified.

(b) A performance bond on the part of the contractor for 100 percent of the contract price. A “performance bond” is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.

(c) A payment bond on the part of the contractor for 100 percent of the contract price. A “payment bond” is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

§200.326 Contract provisions.

The non-Federal entity's contracts must contain the applicable provisions described in Appendix II to Part 200—Contract Provisions for non-Federal Entity Contracts Under Federal Awards. When

procuring property and services under a Federal award, a state must follow the same policies and procedures it uses for procurements from its non-Federal funds. The state will comply with §200.322 Procurement of recovered materials and ensure that every purchase order or other contract includes any clauses required by section §200.326 Contract provisions. All other non-Federal entities, including sub recipients of a state, will follow §§200.318 General procurement standards through 200.326 Contract provisions.