

Florida Building Code Product Approval

FL10185.6-R3 Impact- 12'0" x 24" Outswing Transom DP80

FL #	FL10185-R3
Application Type	Revision
Code Version	2010
Application Status	Approved
	*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Nan Ya Plastics Corporation USA
Address/Phone/Email	8989 North Loop East Houston, TX 77029 (713) 674-7822 Ext 105 ajen96@yahoo.com.tw
Authorized Signature	RUSKIN WU ajen96@yahoo.com.tw
Technical Representative	Ruskin Wu
Address/Phone/Email	8989 North Loop East Houston, TX 77029-1217 (713) 674-7822 Ext 105 ajen96@yahoo.com.tw
Quality Assurance Representative	
Address/Phone/Email	
Category	Windows
Subcategory	Fixed
Compliance Method	Certification Mark or Listing
Certification Agency	National Accreditation & Management Institute
Validated By	National Accreditation & Management Institute,

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FL10185.6-R3 Impact- 12'0" x 24" Outswing Transom DP80

FL #	Model, Number or Name	Description
10185.6	GTO 12020 OUT-SWING TRANSOM	GTO 12020 OUT-SWING TRANSOM - IMPACT
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-80 Other:		Certification Agency Certificate FL10185_R3_C_CAC_NI011368.01.pdf Quality Assurance Contract Expiration Date 08/31/2016 Installation Instructions FL10185_R3_II_08-01972.pdf Verified By: Luis Roberto Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL10185_R3_AE_11062401.pdf FL10185_R3_AE_512682.pdf Created by Independent Third Party: Yes

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NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI011368.01
 DATE: 12/19/2012
 CERTIFICATION PROGRAM: Structural
 COMPANY: Nan Ya
 CODE: 661-1

To verify that the "Notice of Product Certification" is valid, please visit www.NAMICertification.com to assure that the product is active and currently listed. This certification represents product conformity to the applicable specification and that certification criteria has been satisfied. A NAMI approved certification label must be applied to the product to claim certification status. Please review and advise NAMI if any corrections are required to this document.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
Nan Ya Plastics Corporation USA 8989 North Loop East, Suite 800 Houston, TX 77029	Series "Out-Swing Transom" Vinyl Transom Window Configuration: OOO Glazing: IG-1/8" Tempered Glass/Laminate-1/8" Annealed Glass/0.090" PVB Interlayer/1/8" Annealed Glass Frame: W-3693mm(145.38") H-610mm(24.00") DLO: W-1159mm(45.63") H-534mm(21.00")

SPECIFICATION	PRODUCT RATING
TAS 201/202/203-94	Design Pressure = +80/-80 psf Water Penetration Resistance Test Pressure = 575 Pa (12.0 psf) Large Missile Impact Rated

Product Tested By: ETC Laboratories
 Report No: ETC-08-209-21116.0
 Expiration Date: August 31, 2016

Administrator's Signature:  _____

NATIONAL ACCREDITATION AND
 MANAGEMENT INSTITUTE, INC.
 4794 George Washington Memorial Highway
 Hayes, VA 23072
 Tel: (804) 684-5124/Fax: (804) 684-5122

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FL10185.6-R3 Impact- 12'0" x 24" Outswing Transom DP80

L. Roberto Lomas P.E.

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Danville, VA 24541
434-688-0609
rlomas@lrilomaspe.com

Engineering Evaluation Report

Report No.: 512682

Manufacturer: Nan Ya Plastics Corporation
8989 North Loop East
Houston, TX 77029

Product Line: GTO 12020 Out-Swing Transom - Impact

Compliance:

The above mentioned product has been evaluated for compliance with the requirements of the Florida Department of Community Affairs for Statewide Acceptance per Rule 9N-3.005 method 1(a). The product listed herein complies with requirements of the Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-01972, titled GTO 12020 Out-Swing Transom - Impact, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Report No.: ETC-08-209-21118.0 signed by Joseph L Doldan, P.E.
ETC Laboratories, Rochester, NY
TAS 201-94 Large Missile Impact Test, Level D, Wind Zone 4
TAS 202-94 Uniform Static Air Pressure, ± 80.0 psf design pressure, 12.0psf water penetration.
TAS 203-94 Cyclic Pressure loading ± 80.0 psf design pressure
3. Rigid PVC Plastic Testing:
Test report ETC-05-255-17144.1, signed and sealed by Joseph Labora Doldan P.E.
ETC Laboratories, Rochester, NY, ASTM D 638-03
Tensile strength of unexposed samples 6,140psi
Tensile strength of 4500 hour Xenon Arc exposed samples 6,053psi
Self-ignition 900°F
ASTM D635-03 Rate of burning classification: C-1 (10mm/min, 0.38in/min)
ASTM D2843-99 Smoke density rating: 37.4
4. Phenolic Foam Board Testing:
Test report ETC-06-255-17412.1, signed and sealed by Joseph Labora Doldan P.E.
ETC Laboratories, Rochester, NY, ASTM E 84-07
Flame spread Index: 10
Smoke developed index: 95
5. SMC Fiberglass Testing:
Test report ETC-05-255-16776.1, signed and sealed by Joseph Labora Doldan P.E.
ETC Laboratories, Rochester, NY, ASTM D 638-03
Tensile strength of unexposed samples 11,860psi
Tensile strength of 4500 hour Xenon Arc exposed samples 11,063psi
Self-ignition 1060°F
ASTM D635-03 Rate of burning classification: C-1 (15.2mm/min, 0.60in/min)
ASTM D2843-99 Smoke density rating: 52.1
6. Cellular PVC Testing:
Test report ETC-05-255-16777.1, signed and sealed by Joseph Labora Doldan P.E.
ETC Laboratories, Rochester, NY, ASTM D 638-03
Tensile strength of unexposed samples 6,019psi
Tensile strength of 4500 hour Xenon Arc exposed samples 6,014psi
Self-ignition 950°F
ASTM D635-06 Rate of burning classification: C-1 (10.2mm/min, 0.4in/min)
ASTM D2843-99 Smoke density rating: 49.6
7. Anchor calculations, report number 512682-1, prepared, signed and sealed by Luis Roberto Lomas P.E.



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FL10185.6-R3 Impact- 12'0" x 24" Outswing Transom DP80

L. Roberto Lomas P.E.

233 W. Main St.
Darville, VA 24541
434-688-0609
rlomas@lrlomaspe.com

Engineering Evaluation Report

Report No.: 512682

Limitations and Conditions of use:

- Maximum design pressure: ± 80.0 psf
- Maximum unit size: 145 3/8" x 24" (GTO 12020)
- Units must be glazed per ASTM E 1300-04, see installation instructions for glass options.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame material to be foam PVC.

Installation: Units must be installed in accordance with approval document, 08-01872.

Certification of Independence: Please note that I don't have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I don't have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).



Luis R. Lomas, P.E.
FL No.: 62514
03/25/2013

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

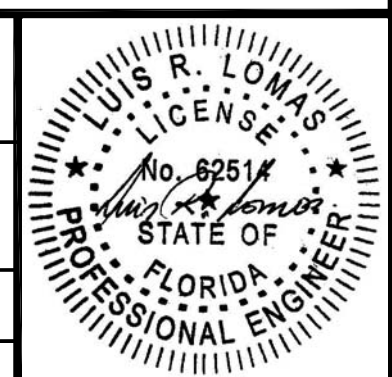
NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: EXTRUDED RIGID FOAM PVC.
6. UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 2 FOR GLASS OPTIONS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 5/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. ALL FASTENERS TO BE CORROSION RESISTANT.
12. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
13. TRANSOM UNITS MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.

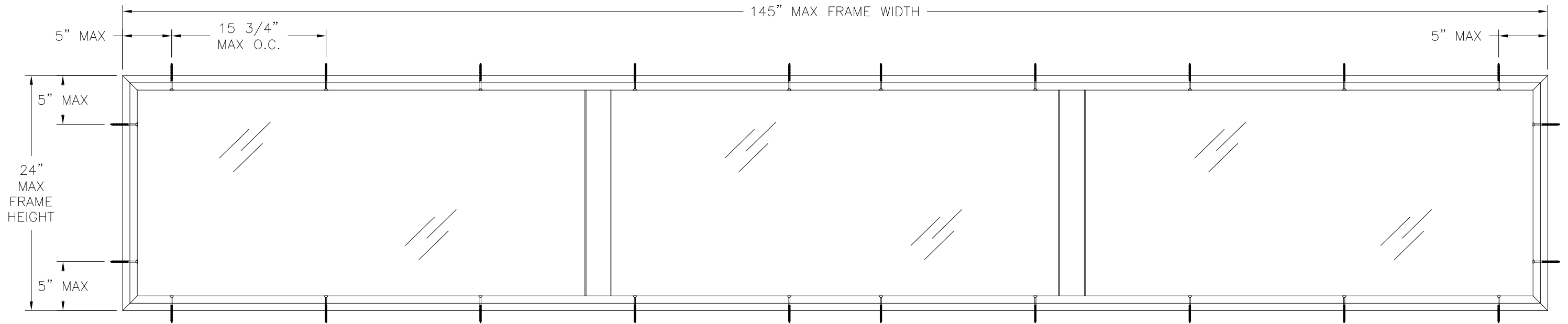
SIGNED: 03/25/2013

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1 - 2	ELEVATIONS AND NOTES
3	INSTALLATION DETAILS

NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029		
GTO 12020 OUT-SWING TRANSOM IMPACT NOTES		
DRAWN: V.L.	DWG NO. 08-01972	REV -
SCALE NTS	DATE 03/22/13	SHEET 1 OF 3



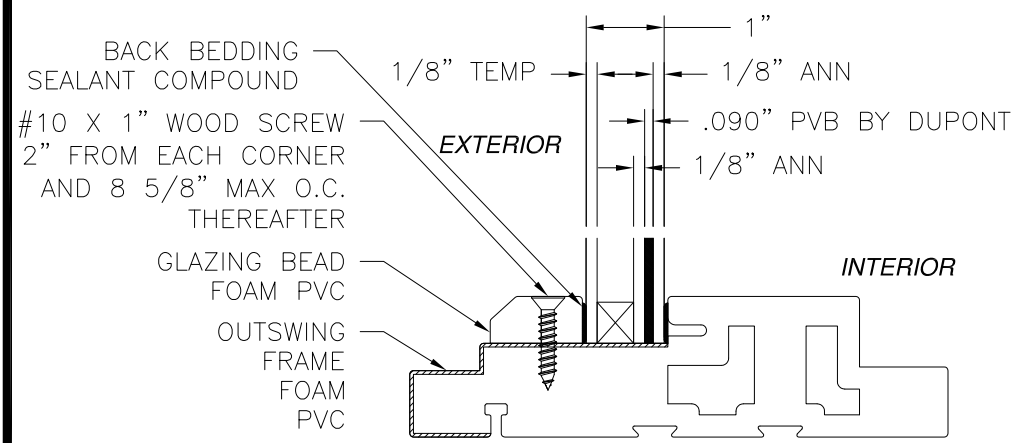
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



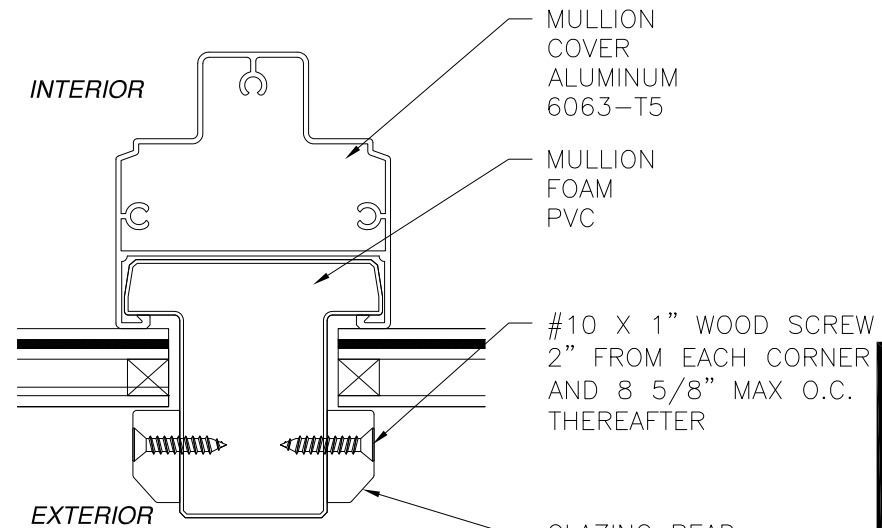
GTO 1200 OUT-SWING TRANSOM - IMPACT
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ



GLAZING DETAIL

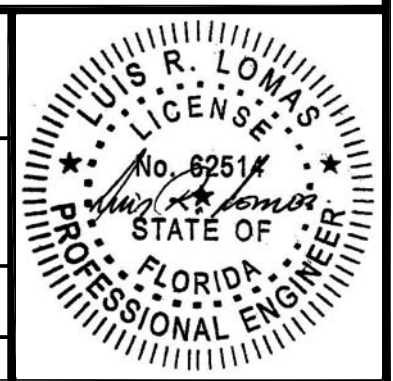


MULLION DETAIL

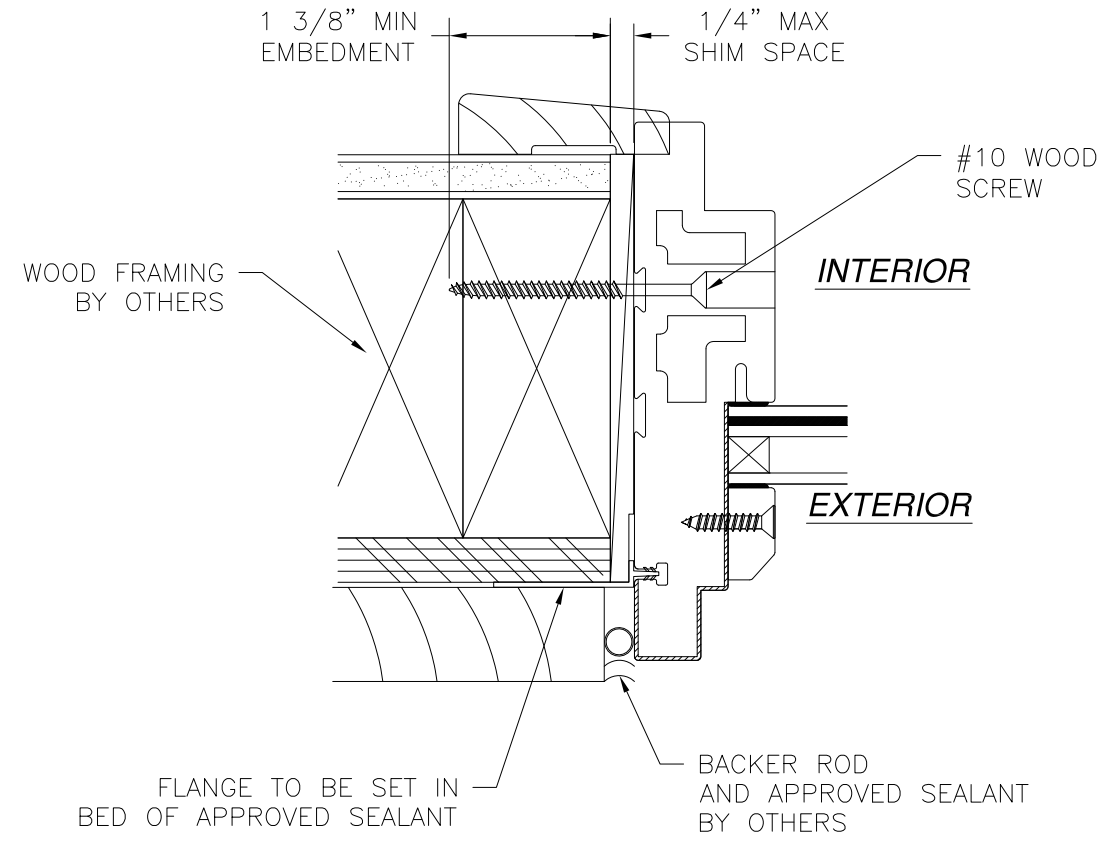
NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

GTO 1200 OUT-SWING TRANSOM
IMPACT
ELEVATION AND DETAILS

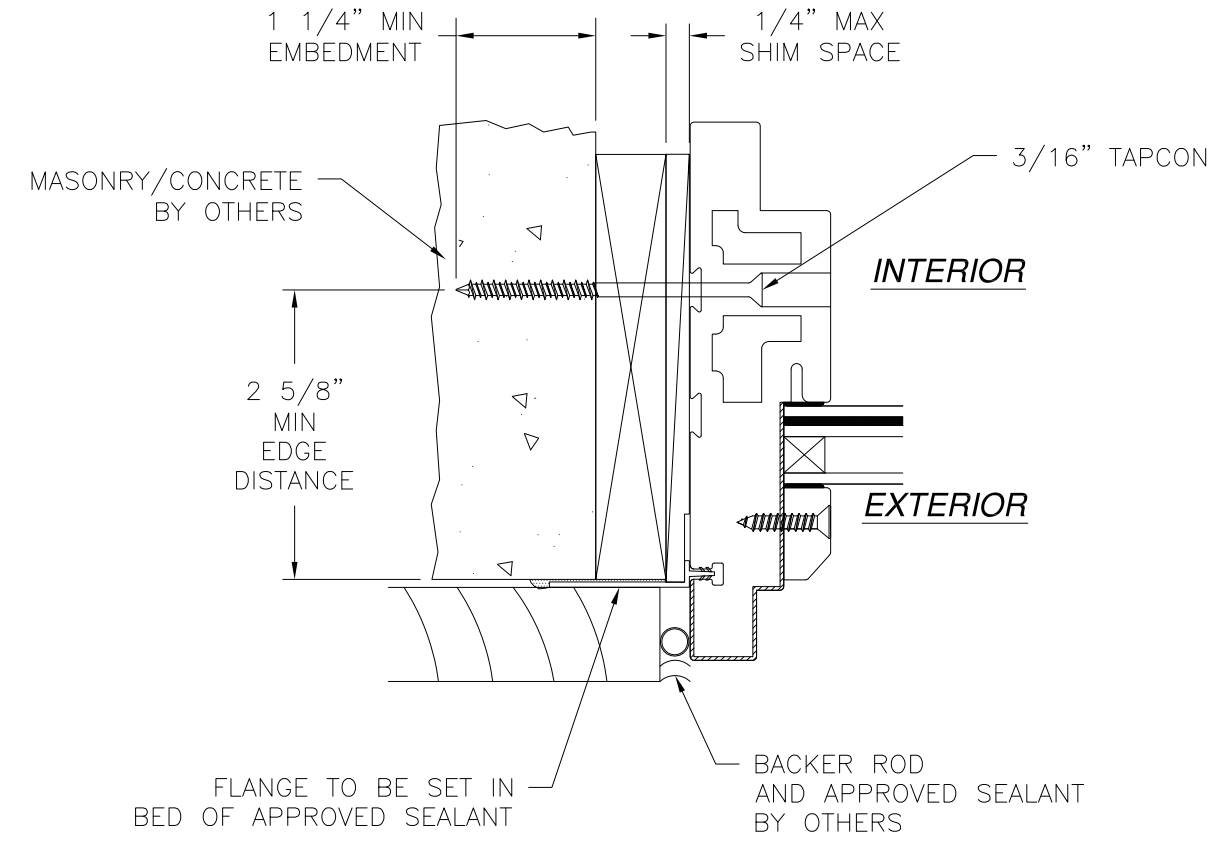
DRAWN: V.L.	DWG NO. 08-01972	REV -
SCALE NTS	DATE 03/25/13	SHEET 2 OF 3



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION
JAMB SHOWN HEAD AND SILL SIMILAR



HORIZONTAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
JAMB SHOWN HEAD AND SILL SIMILAR

NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029		
GTO 12020 OUT-SWING TRANSOM IMPACT INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01972	REV -
SCALE NTS	DATE 03/22/13	SHEET 3 OF 3

